z/OS
2.5

JES2 Data Areas

GA32-0997-50

Note

Before using this information and the product it supports, read the information in “Notices” on page 1877.

This edition applies to Version 2 Release 5 of z/OS® (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. JES2 data areas

This topic describes the data areas for JES2.

$ALINDEX information

$ALINDEX programming interface information

$ALINDEX is a programming interface.

$ALINDEX heading information

Common name:	ALET index table
Macro ID:	$ALINDEX
DSECT name:	ALINDEX
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	ALIX Offset: ALIID-ALINDEX Length: L'ALIID
Storage attributes:	Subpool: 229 Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See ALILEN
Created by:	$ALESERV routine in HASCDSS
Pointed to by:	HXBALIDX field of the HASXB data area
Serialization:	Compare and Swap logic will be used to insert an ALET into the table for the pre-defined ALETs.
Function:	This table is used to index into the JES2 maintained ALETs. It contains data space names and the ALET for this address space to access a space. Pre-defined types are listed first. User defined types are listed later. This table is built and maintained by the $ALESERV service.

$ALINDEX mapping

Table 1. Structure ALINDEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALINDEX	, Cell Pool Index Table
0	(0)	CHARACTER	4	ALIID	ALINDEX Identifier
4	(4)	ADDRESS	1	ALIVRSN	ALINDEX Version
4	(4)	X'1'	0	ALIVNUM	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	ALISTART(0)	Start of pre-defined ALETs
Mapping of each ALET entry					
8	(8)	X'0'	0	ALIENAME	"0,8,C'C'" The name of the ALET
8	(8)	X'8'	0	ALIEALET	"8,4,C'A'" The ALET itself
8	(8)	X'C'	0	ALIEFLAG	"12,1,C'B'" ALET flag byte
		1...		ALIEFCOM	"B'10000000'" ALET for SCOPE=COMMON data space

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Table 1. Structure ALINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	EQU 13,3 Reserved				
8	(8)	X'10'	0	ALIELEN	"16" Length of an entry
8	(8)	CHARACTER	8	ALISAPID	SAPID data space
24	(18)	CHARACTER	8	ALIASDS	Address space data space
40	(28)	CHARACTER	8	ALICKVR	Checkpoint versions data space
56	(38)	CHARACTER	8	ALIPSO	Process Sysout Blocks
72	(48)	CHARACTER	8	ALISTAC	Status/cancel blocks
88	(58)	CHARACTER	8	ALINAT	Nodes Attached Table
104	(68)	CHARACTER	8	ALINIT	Nodes Information Table
120	(78)	CHARACTER	8	ALIPCL	Persistent connection
136	(88)	CHARACTER	8	ALITBUF	TCP/IP comm buffers
152	(98)	CHARACTER	8	ALIWTO	SJBLOGQH S35Ds
168	(A8)	CHARACTER	8	ALIJQRB	JQE request blocks
168	(A8)	X'B0'	0	ALISTEND	"*-ALISTART" Size of the pre-defined ALETs
168	(A8)	X'B'	0	ALISTNUM	"ALISTEND/ALIELEN" Number of pre-defined ALETs
168	(A8)	X'B8'	0	ALISTD	"*-ALINDEX" Size of all pre-defined ALETs
184	(B8)	SIGNED	4	ALIWSTRT(0)	Start of dynamic ALETs
184	(B8)	BITSTRING	0	ALIWORK(0)	Dynamic ALET area
184	(B8)	X'F40'	0	ALIWLEN	"*-ALIWSTRT" Size of the dynamic ALET area
184	(B8)	X'FF'	0	ALINUMEN	"(*-ALISTART)/ALIELEN" Total number of entries
184	(B8)	X'1000'	0	ALILEN	"4096" Size of the ALINDEX table

Table 2. Cross Reference for $ALINDEX

Name	Offset	Hex Tag
ALIASDS	18	C1E2C4E2
ALICKVR	28	C3D2E5D9
ALIEALET	8	8
ALIEFCOM	8	80
ALIEFLAG	8	C
ALIELEN	8	10
ALIENAME	8	0
ALIID	0	C1D3C9E7
ALIJQRB	A8	D1D8D9C2
ALILEN	B8	1000
ALINAT	58	D5C1E340
ALINDEX	0	
ALINIT	68	D5C9E340
ALINUMEN	B8	FF
ALIPCL	78	D7C3D340
ALIPSO	38	D7E2D640
ALISAPID	8	E2C1D7C9

Table 2. Cross Reference for $ALINDEX (continued)

Name	Offset	Hex Tag
ALISTAC	48	E2E3C1C3
ALISTART	8	
ALISTD	A8	B8
ALISTEND	A8	B0
ALISTNUM	A8	B
ALITBUF	88	E3C2E4C6
ALIVNUM	4	1
ALIVRSN	4	
ALIWLEN	B8	F40
ALIWORK	B8	
ALIWSTRT	B8	
ALIWTO	98	E6E3D640

$ALIWORK information

$ALIWORK heading information

Common name: JES2 ALICE Processor

Macro ID: $ALIWORK

DSECT name: PCE ($ALIWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol ALCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $ALIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the ALICET PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 ALICE Processor and by its support routines and exits. $DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ALIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEALIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ALIWORK mapping

Table 3. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT

Table 3. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4096	(1000)	ADDRESS	4	ALCJVECT	Address of jobs processed vector
4100	(1004)	SIGNED	4	ALCJLEN	Length of job vector
4104	(1008)	SIGNED	4	ALCHJKEY	Job key for late arrival
4108	(100C)	ADDRESS	4	ALCJVADR	Address within vector for current job
4112	(1010)	SIGNED	4	ALCJVBIT	Bit with byte for curr job
4112	(1010)	X'ECC'	0	ALCPCEWS	"*-PCEWORK" Length of $ALICE PCE

$APT information

$APT programming interface information

$APT is a programming interface.

$APT heading information

Common name: NJE/SNA Application Table

Macro ID: $APT

DSECT name: APT

Owning component: JES2 (SC1BH)

Eye-catcher ID: APT
Offset: APTID
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: VIRTUAL - anywhere
REAL - anywhere

Size: See APTLEN

Created by: APPLDYN service in HASPSNA

Pointed to by: $APPLTBL field of the HCT data area
APTCHAIN field of the APT data area

Serialization: JES2 main task

Function: An APT describes an NJE/SNA application. The APPLIDs defined in APTs match APPLIDs defined to VTAM.

$APT mapping

Table 4. Structure APT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	APT	SNA/NJE APPLICATION DSECT
0	(0)	CHARACTER	4	APTID	CONTROL BLOCK IDENTIFIER
0	(0)	X'1'	0	APTVRNUM	"1" CONTROL BLOCK VERSION EQUATE
4	(4)	ADDRESS	1	APTVRSN	CONTROL BLOCK VERSION
5	(5)	ADDRESS	3		RESERVED FOR FUTURE USE
8	(8)	CHARACTER	8	APTAPLID	APPLICATION ID FROM APPL STMNT
16	(10)	CHARACTER	1	APTCTAB	COMPACTION TABLE NUMBER
17	(11)	BITSTRING	1	APTFLAGS	APPL TABLE FLAG BYTE
		1...		APTFINS	"B'10000000'" APPL IN SESSION
		.1..		APTFOPDP	"B'01000000'" OPNDST ISSUED-AWAITING RESPONSE
		..1.		APTFOPSP	"B'00100000'" OPNSEC ISSUED-AWAITING

Table 4. Structure APT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		APTFDYN	"B'00010000'" DYNAMICALLY ALLOCATED APT, NOT DUE TO APPL INIT STMT OR $ADD
		.... 1...		APTFANCY	"B'00001000'" Automatically start/restart NJE to this APPL
		.... .1..		APTFANCN	"B'00000100'" Never Automatically start/restart NJE to this APPL
18	(12)	CHARACTER	1	APTFEAT	APPL FEATURES-RECV'D IN FM HDR
19	(13)	CHARACTER	1	APTRIDFM	RID FORMATS-RECV'D IN FM HEADER
20	(14)	SIGNED	2	APTNODE	NODE NUMBER WHERE APPL EXISTS
22	(16)	SIGNED	2	APTREST	APPLICATION RESISTANCE
24	(18)	ADDRESS	4	APTCHAIN	ADDR OF NEXT APT
28	(1C)	CHARACTER	8	APTLMODE	VTAM LOGMODE
36	(24)	SIGNED	2	APTLINE	Dedicated line number
38	(26)	SIGNED	2	APTLOGN	LOGON DCT NUMBER
40	(28)	SIGNED	2	APTANINT	Restart interval (minutes)
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	APTANTIM	NJE disconnect time (STCK)
48	(30)	ADDRESS	8	APTCDCT	CDCT address
56	(38)	ADDRESS	4	APTLOGD	Address of LOGON DCT
60	(3C)	ADDRESS	4	APTLIND	Address of LINE DCT
60	(3C)	X'40'	0	APTLEN	"*-APT" LENGTH OF APT

Table 5. Cross Reference for $APT

Name	Offset	Hex Tag
APT	0	
APTANINT	28	
APTANTIM	2C	
APTAPLID	8	40404040
APTCDCT	30	
APTCHAIN	18	
APTCTAB	10	
APTFANCN	11	4
APTFANCY	11	8
APTFDYN	11	10
APTFEAT	12	
APTFINS	11	80
APTFLAGS	11	0
APTFOPDP	11	40
APTFOPSP	11	20
APTID	0	
APTLEN	3C	40
APTLIND	3C	
APTLINE	24	
APTLMODE	1C	
APTLOGD	38	
APTLOGN	26	

Table 5. Cross Reference for $APT (continued)

Name	Offset	Hex Tag
APTNODE	14	0
APTREST	16	
APTRIDFM	13	
APTVRNUM	0	1
APTVRSN	4	

$ARMG information

$ARMG heading information

Common name: JES2 ARM support JESXCF message

Macro ID: $ARMG

DSECT name: ARMG

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'ARMG'
Offset: ARMGID-ARMG
Length: L'ARMG

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See ARMGSIZE

Created by: HASPARM

Pointed to by: N/A

Serialization: None required

Function: Represents a JESXCF message intended for the ARM support processor.

$ARMG mapping

Table 6. Structure ARMG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ARMG	, JES2 ARM support JESXCF message
0	(0)	CHARACTER	4	ARMGID	Control block eyecatcher
4	(4)	SIGNED	4	ARMGLEN	Length of message
8	(8)	BITSTRING	1	ARMGTYPE	Message type
8	(8)	X'1'	0	ARMGDREG	"1" JES-initiated deregister
9	(9)	BITSTRING	1	ARMGVER	Version
9	(9)	X'1'	0	ARMGVERN	"1" Current version
10	(A)	BITSTRING	1	ARMGSMEM	Sending member number
11	(B)	BITSTRING	1	ARMGRSV1	Reserved for future use
12	(C)	CHARACTER	8	ARMGJTOK(0)	Job token
12	(C)	CHARACTER	4	ARMGJBNM	Job number
16	(10)	CHARACTER	4	ARMGJBKY	Job key
20	(14)	BITSTRING	4	ARMGRSV2	Reserved for future use
20	(14)	X'18'	0	ARMGSIZE	"*-ARMG" Size of ARMG

Table 7. Cross Reference for $ARMG

Name	Offset	Hex Tag
ARMG	0	
ARMGDREG	8	1
ARMGID	0	
ARMGJBKY	10	
ARMGJBNM	C	
ARMGJTOK	C	
ARMGLEN	4	
ARMGRSV1	B	
ARMGRSV2	14	
ARMGSIZE	14	18
ARMGSMEM	A	
ARMGTYPE	8	
ARMGVER	9	
ARMGVERN	9	1

$ARMT information

$ARMT heading information

Common name: JES2 ARM support trace record

Macro ID: $ARMT

DSECT name: ARMT

Owning component: JES2 (SC1BH)

Eye-catcher ID: NONE

Storage attributes: Residency: Resides in a JES2 trace buffer in ECSA.

Size: See ARMTSIZE

Created by: HASPARM

Pointed to by: N/A

Serialization: None required

Function: Maps JES2 trace record 26.

$ARMT mapping

Table 8. Structure ARMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ARMT	, JES2 ARM support trace record
		Contents of JQE fields at start of ARM request			
0	(0)	BITSTRING	1	ARMTSFL1	JQEFLAG1
1	(1)	BITSTRING	1	ARMTSTYP	JQETYPE
2	(2)	BITSTRING	1	ARMTSBSY	JQEBUSY
3	(3)	BITSTRING	1	ARMTSDEV	JQEDEVID
4	(4)	BITSTRING	1	ARMTSAID	JQEARMID
5	(5)	CHARACTER	8	ARMTSCLS	Job class
		Contents of JQE fields at end of ARM request			

Table 8. Structure ARMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
13	(D)	BITSTRING	1	ARMTEFL1	JQEFLAG1
14	(E)	BITSTRING	1	ARMTETYP	JQETYPE
15	(F)	BITSTRING	1	ARMTEBSY	JQEBUSY
16	(10)	BITSTRING	1	ARMTEDEV	JQEDEVID
17	(11)	BITSTRING	1	ARMTEAID	JQEARMID
18	(12)	CHARACTER	8	ARMTECLS	Job class
	Miscellaneous fields				
26	(1A)	BITSTRING	1	ARMTFLG1	ARMFLAG1 in $ARMWORK
27	(1B)	BITSTRING	1	ARMTRSV1	Reserved for future use
28	(1C)	SIGNED	4	ARMTRC	MTRBRC
	SSPJ contents at end of request				
32	(20)	BITSTRING	1	ARMTSSPJ	SSPJ
32	(20)	X'50'	0	ARMTSIZE	"*-ARMT" Size of ARMT

Table 9. Cross Reference for $ARMT

Name	Offset	Hex Tag
ARMT	0	
ARMTEAID	11	
ARMTEBSY	F	
ARMTECLS	12	
ARMTEDEV	10	
ARMTEFL1	D	
ARMTETYP	E	
ARMTFLG1	1A	
ARMTRC	1C	
ARMTRSV1	1B	
ARMTSAID	4	
ARMTSBSY	2	
ARMTSCLS	5	
ARMTSDEV	3	
ARMTSFL1	0	
ARMTSIZE	20	50
ARMTSSPJ	20	
ARMTSTYP	1	

$ARMWORK information

$ARMWORK heading information

Common name: ARM support PCE work area

Macro ID: $ARMWORK

DSECT name: PCE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol ARMWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $ARMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the ARM support processor. $ARMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ARMWORK are actually part of the PCE DSECT, but only maps the PCE with the value PCEARMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$ARMWORK mapping

Table 10. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	512		Warm PCE fields
840	(348)	ADDRESS	4	ARMMTRB	Active main task request block
844	(34C)	ADDRESS	4	ARMSSPJ	SSOB extension from active request
848	(350)	SIGNED	4	ARMLINES	LINES counter
852	(354)	SIGNED	4	ARMPUNCH	PUNCH counter
856	(358)	SIGNED	4	ARMXOUT	Records counter
860	(35C)	SIGNED	4	ARMPAGES	PAGES counter
864	(360)	SIGNED	4	ARMBYTES	BYTES counter
868	(364)	SIGNED	4	ARMDSKEY	DS key of last PDDB counted
872	(368)	ADDRESS	4	ARMSQD	SQD for $SUBIT
876	(36C)	ADDRESS	4	ARMQYJQE	JQE whose registration is currently being verified
880	(370)	BITSTRING	4	ARMSAF	System affinity work area
884	(374)	BITSTRING	1	ARMFLAG1	Flags
		1...		ARM1ACTV	"B'10000000'" $ACTIVE done
		.1..		ARM1JLOK	"B'01000000'" Job lock acquired
		..1.		ARM1WARM	"B'00100000'" Job was warm started
		...1		ARM1INVQ	"B'00010000'" Invalidate current registration query
885	(375)	BITSTRING	1	ARMFLAG2	Serialized flag byte UPDATE USING OIL/NIL
		1...		ARM2MAIL	"B'10000000'" Messages have arrived
886	(376)	BITSTRING	2	ARMRSV1	Reserved for future use
888	(378)	SIGNED	4	ARMMSGA	XCF message address
892	(37C)	SIGNED	4	ARMMSGL	XCF message length
896	(380)	BITSTRING	8	ARMMSGTK	XCF message token
904	(388)	BITSTRING	80	ARMCTRAC	Current trace 26 record

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
984	(3D8)	BITSTRING	1	ARMPTRAC	Previous trace 26 record
		List form macros			
1064	(428)	DBL WORD	8	(0)	
1064	(428)	BITSTRING	160	ARMLSTFM	List form macros
1224	(4C8)	CHARACTER	1	ARMLSEND(0)	End of list form area
		MACDATE -93/05/10-<1>			
1064	(428)	SIGNED	2	M00M1131(0)	IXZXIXMB-1
1064	(428)	DBL WORD	8	ARMIXMB(0)	++ IXZXIXMB PARM LIST
1064	(428)	BITSTRING	1	ARMIXMB_XVERSION	++ INPUT XVERSION
1065	(429)	CHARACTER	6	ARMIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1071	(42F)	CHARACTER	1	ARMIXMB_XRSV0001	++ RESERVED XRSV0001
1072	(430)	CHARACTER	16	ARMIXMB_XMBOXNAME	++ XMBOXNAME
1088	(440)	ADDRESS	4	ARMIXMB_XPOSTXIT	++ XPOSTXIT
1092	(444)	ADDRESS	4	ARMIXMB_XPOSTDATA	++ XPOSTDATA
1096	(448)	SIGNED	4	ARMIXMB_XPOSTALET	++ XPOSTALET
1100	(44C)	SIGNED	4	ARMIXMB_XGROUPTOKEN	++ XGROUPTOKEN
1104	(450)	BITSTRING	1	ARMIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ARMIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ARMIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
1104	(450)	X'29'	0	ARMIXMBL	"*-ARMIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
1106	(452)	ADDRESS	2	(0)	Ensure area fits
		MACDATE -93/05/10-<1>			
1064	(428)	SIGNED	2	M00M1132(0)	IXZXIXRM-1
1064	(428)	DBL WORD	8	ARMIXRM(0)	++ IXZXIXRM PARM LIST
1064	(428)	BITSTRING	1	ARMIXRM_XVERSION	++ INPUT XVERSION
1065	(429)	CHARACTER	6	ARMIXRM_XEYECATCH	++ CONSTANT XEYECATCH
1071	(42F)	CHARACTER	1	ARMIXRM_XRSV0001	++ RESERVED XRSV0001
1072	(430)	CHARACTER	16	ARMIXRM_XMBOXNAME	++ XMBOXNAME
1088	(440)	ADDRESS	4	ARMIXRM_XDATA	++ XDATA
1092	(444)	SIGNED	4	ARMIXRM_XDATALEN	++ XDATALEN
1096	(448)	BITSTRING	8	ARMIXRM_XMSGTOKEN	++ XMSGTOKEN
1104	(450)	SIGNED	4	ARMIXRM_XGROUPTOKEN	++ XGROUPTOKEN
1108	(454)	BITSTRING	1	ARMIXRM_XMSGFETCH	++ INPUT
		1...		ARMIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ARMIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ARMIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ARMIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1109	(455)	BITSTRING	1	ARMIXRM_XKEYS	++ FIELD_LABEL
		1...		ARMIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1109	(455)	X'2E'	0	ARMIXRML	"*-ARMIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
1110	(456)	ADDRESS	2	(0)	Ensure area fits
		MACDATE -11/12/03-<1>			
0	(0)	X'428'	0	M00M1133	"ARMIXAC" ++ IXZXIXAC NAME
1064	(428)	DBL WORD	8	ARMIXAC(0)	++ IXZXIXAC PARM LIST
1064	(428)	BITSTRING	1	ARMIXAC_XVERSION	++ INPUT XVERSION
1065	(429)	CHARACTER	6	ARMIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1071	(42F)	BITSTRING	1	ARMIXAC_XSTB	++ INPUT
		1...		ARMIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ARMIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1072	(430)	BITSTRING	8	ARMIXAC_XMSGTOKEN	++ XMSGTOKEN
1080	(438)	ADDRESS	4	ARMIXAC_XDATA	++ XDATA
1084	(43C)	SIGNED	4	ARMIXAC_XDATALEN	++ XDATALEN
1088	(440)	SIGNED	4	ARMIXAC_XUSERRC	++ XUSERRC
1092	(444)	SIGNED	4	ARMIXAC_XGROUPTOKEN	++ XGROUPTOKEN
1096	(448)	SIGNED	4	ARMIXAC_XSYSRC	++ XSYSRC
1100	(44C)	SIGNED	4	ARMIXAC_XSYSRSN	++ XSYSRSN
1104	(450)	BITSTRING	1	ARMIXAC_XKEYS	++ FIELD_LABEL
		1...		ARMIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		ARMIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ARMIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ARMIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ARMIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
1105	(451)	BITSTRING	1	ARMIXAC_XMSGATTR	++ INPUT
		1...		ARMIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ARMIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1105	(451)	X'2A'	0	ARMIXACL	"*-ARMIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
1106	(452)	ADDRESS	2	(0)	Ensure area fits
1224	(4C8)	X'380'	0	ARMPCEWS	"*-PCEWORK" ARM PCE work area length

Table 11. Cross Reference for $ARMWORK

Name	Offset	Hex	Tag
ARMBYTES	360		
ARMCTRAC	388		

Table 11. Cross Reference for $ARMWORK (continued)

Name	Offset	Hex Tag
ARMDSKEY	364	
ARMFLAG1	374	
ARMFLAG2	375	
ARMIXAC	428	
ARMIXAC_KEYUSED_DATA	450	80
ARMIXAC_KEYUSED_DATALEN	450	40
ARMIXAC_KEYUSED_SYSRC	450	10
ARMIXAC_KEYUSED_SYSRSN	450	8
ARMIXAC_KEYUSED_USERRC	450	20
ARMIXAC_XDATA	438	
ARMIXAC_XDATALEN	43C	
ARMIXAC_XEYECATCH	429	
ARMIXAC_XGROUPTOKEN	444	
ARMIXAC_XKEYS	450	
ARMIXAC_XMSGATTR	451	
ARMIXAC_XMSGATTR_EXPRESS	451	40
ARMIXAC_XMSGATTR_J3CONNECT	451	80
ARMIXAC_XMSGTOKEN	430	
ARMIXAC_XSTB	42F	
ARMIXAC_XSTB_NO	42F	80
ARMIXAC_XSTB_YES	42F	40
ARMIXAC_XSYSRC	448	
ARMIXAC_XSYSRSN	44C	
ARMIXAC_XUSERRC	440	
ARMIXAC_XVERSION	428	
ARMIXACL	451	2A
ARMIXMB	428	
ARMIXMB_XEYECATCH	429	
ARMIXMB_XGROUPTOKEN	44C	
ARMIXMB_XMBOXNAME	430	
ARMIXMB_XPOSTALET	448	
ARMIXMB_XPOSTDATA	444	
ARMIXMB_XPOSTXIT	440	
ARMIXMB_XRSV0001	42F	
ARMIXMB_XSYSEVENT_NO	450	40
ARMIXMB_XSYSEVENT_YES	450	80
ARMIXMB_XSYSEVENTS	450	
ARMIXMB_XVERSION	428	
ARMIXMBL	450	29
ARMIXRM	428	
ARMIXRM_KEYUSED_MSGFETCH	455	80
ARMIXRM_XDATA	440	
ARMIXRM_XDATALEN	444	
ARMIXRM_XEYECATCH	429	
ARMIXRM_XGROUPTOKEN	450	
ARMIXRM_XKEYS	455	

Table 11. Cross Reference for $ARMWORK (continued)

Name	Offset	Hex Tag
ARMIXRM_XMBOXNAME	430	
ARMIXRM_XMSGFETCH	454	
ARMIXRM_XMSGFETCH_ACKS	454	10
ARMIXRM_XMSGFETCH_ALL	454	80
ARMIXRM_XMSGFETCH_MESSAGES	454	40
ARMIXRM_XMSGFETCH_SYSEVENT	454	20
ARMIXRM_XMSGTOKEN	448	
ARMIXRM_XRSV0001	42F	
ARMIXRM_XVERSION	428	
ARMIXRML	455	2E
ARMLINES	350	
ARMLSEND	4C8	
ARMLSTFM	428	
ARMMSGA	378	
ARMMSGL	37C	
ARMMSGTK	380	
ARMMTRB	348	
ARMPAGES	35C	
ARMPCEWS	4C8	380
ARMPTRAC	3D8	
ARMPUNCH	354	
ARMQYJQE	36C	
ARMRSV1	376	
ARMSAF	370	
ARMSQD	368	
ARMSSPJ	34C	
ARMXOUT	358	
ARM1ACTV	374	80
ARM1INVQ	374	10
ARM1JLOK	374	40
ARM1WARM	374	20
ARM2MAIL	375	80
M00M1131	428	
M00M1132	428	
M00M1133	0	428
PCE	0	

$ASDS information

$ASDS heading information

Common name: Address Space Data Space dsect

Macro ID: $ASDS

DSECT name: ASDS

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JES2ASDS'
Offset: ASDSEYEC
Length: L'ASDSEYEC

Storage attributes: Subpool: 0
Key: 1
Residency: Created via $DSPSERV CREATE SCOPE=ALL.
In the JES2ASDS data space.

Size: See the ASDSLEN equate for the ASDS DSECT and the ASDSELEN equate for the ASDSENT DSECT.

Created by: The Address Space Data Space is created toward the end of initialization in module HASPIRMA routine IRFINAL. The ASDS DSECT is initialized at that time. An entry is created in the ASDS array every time an address space is started. The entry is described by the ASDSENT DSECT.

Pointed to by: The CCTASDS field of the $HCCT data area in CSA is the base pointer to first entry in the data space.
Each address space can get an ALET to the data space using the $ALESERV ADD service for NAME=ASDS.
CCTASDS-ASDSLEN gives a pointer to the header data.
CCTASDS+ADSDELEN updates the pointer to the next entry.

Serialization: JES2 main task serialization for creating and removing ASDS entries. Some fields are updated in the user environment, but those are not updated by the JES2 main task.
Read the NOTES section for further information.

Function: The Address Space Data Space entry will contain shadowed information about jobs going into execution phase. This information will be used by SSIs to extract information about jobs instead of accessing the job's SJB, which can be a volatile control block.

$ASDS mapping

Table 12. Structure ASDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDS	HASP Address Space Data Space DSECT
0	(0)	CHARACTER	8	ASDSEYEC	IRMA.ASDS Eyecatcher-set to unique data space name
8	(8)	ADDRESS	4	ASDSSTRT	IRMA.Origin of ASDS data space
12	(C)	ADDRESS	4	ASDSDSB	IRMA.Address of CSA DSB
16	(10)	SIGNED	4	ASDSHIGH	JXQ/UJB.Highest ASID used in ASDS. Full word required for Compare & Swap updt
20	(14)	SIGNED	2	ASDSJ2IH	JXQ.JES2 Initiator Chain Head
22	(16)	SIGNED	2	ASDSJ2IT	JXQ.JES2 Initiator Chain Tail
24	(18)	SIGNED	2	ASDSWLMH	JXQ.WLM Initiator Chain Head
26	(1A)	SIGNED	2	ASDSWLMT	JXQ.WLM Initiator Chain Tail
28	(1C)	SIGNED	2	ASDSSTCH	JXQ.Started Task Chain Head
30	(1E)	SIGNED	2	ASDSSTCT	JXQ.Started Task Chain Tail
32	(20)	SIGNED	2	ASDSTSUH	JXQ.TSO Job Chain Head
34	(22)	SIGNED	2	ASDSTSUT	JXQ.TSO Job Chain Tail
36	(24)	SIGNED	2	ASDSRQJH	JXQ.Request Job ID Chain Head
38	(26)	SIGNED	2	ASDSRQJT	JXQ.Request Job ID Chain Tail
40	(28)	SIGNED	2	ASDSOTHH	JXQ.Uncategorized A/S Chain Hd
42	(2A)	SIGNED	2	ASDSOTHT	JXQ.Uncategorized A/S Chain TL
44	(2C)	BITSTRING	2	ASDSVERS(0)	IRMA.ASDS Version/Mod
44	(2C)	ADDRESS	1	ASDSVERN	IRMA.ASDS Version number

Table 12. Structure ASDS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
45	(2D)	ADDRESS	1	ASDSMODN	IRMA.ASDS Modification #
45	(2D)	BITSTRING	0	ASDSCURV	"X'0100'" ASDS Current version/mod
45	(2D)	X'1'	0	ASDSCVER	"1" ASDS Current version
45	(2D)	X'0'	0	ASDSCMOD	"0" ASDS Current modification
45	(2D)	BITSTRING	0	ASDSVER1	"X'0100'" ASDS Version 1 Consumption Rates
46	(2E)	BITSTRING	2	ASDSBLKS	Num 4k blocks allocated to the ASDS
48	(30)	ADDRESS	4	ASDSARTS	IRMA.Origin of ART tables
56	(38)	DBL WORD	8	(0)	Align on double word bndry
56	(38)	X'38'	0	ASDSLEN	"*-ASDS" ASDS header length

Table 13. Structure ASDSENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDSENT	HASP ASDS Entry DSECT
0	(0)	SIGNED	2	ASEASID	JXQ.ASID of address space
2	(2)	SIGNED	2	ASENEXT	JXQ.Next ASDS entry of this address space type
4	(4)	SIGNED	2	ASEPREV	JXQ.Previous ASDS entry of this address space type
6	(6)	BITSTRING	1	ASEFLAG1	Flag indicator
		1...		ASE1J2I	"B'10000000'" JXQ.JES2 Initiator
		.1..		ASE1WLMI	"B'01000000'" JXQ.WLM Initiator
		..1.		ASE1STC	"B'00100000'" JXQ.STC (not JES2 initiator, Req Job ID)
		...1		ASE1TSO	"B'00010000'" JXQ.Entry for TSO user
		.... 1...		ASE1RQJ	"B'00001000'" JXQ.Request Job ID
		.... .1..		ASE1OTHR	"B'00000100'" JXQ.Uncategorized addr sp
		.... ..1.		ASE1AJOB	"B'00000010'" JXQ.Active job in addr sp
		1		ASE1GONE	"B'00000001'" JXQ.Addr space terminated
		....		ASE1NOTU	"B'00000000'" JXQ.ASDS entry not used b4
7	(7)	BITSTRING	1		Reserved
8	(8)	BITSTRING	8	ASEASCBT	JXQ.Address space token
16	(10)	CHARACTER	8	ASEAJBID	JXQ.Address space job ID (for STC, TSU and INIT jobid)
	Job fields				
24	(18)	CHARACTER	8	ASEJCLAS	JXQ.Batch job's job class
32	(20)	CHARACTER	8	ASEJOBNM	JXQ.Batch job name
40	(28)	CHARACTER	8	ASEJOBID	JXQ.Batch job ID
48	(30)	CHARACTER	8	ASEUSRID	UJB.Batch job user ID
56	(38)	CHARACTER	8	ASESECLB	UJB.Batch job security lbl
64	(40)	CHARACTER	8	ASEWSCN	JXQ.Batch job service class
72	(48)	ADDRESS	4	ASECSCB	UJB.Address of CSCB (in common storage)

Table 13. Structure ASDSENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Initiator fields			
76	(4C)	ADDRESS	4	ASIPIT	JXQ.Addr of JES2 Init PIT (in common storage)
80	(50)	CHARACTER	8	ASIWSCNO	JXQ.WLM Initiator service class
88	(58)	BITSTRING	1	ASIWLMIS	JXQ.WLM Initiator Status
		1...		ASIWLMIA	"B'10000000'" WLM Initiator Active
		.1..		ASIWLMII	"B'01000000'" WLM Initiator Inact (selecting job)
		The following two settings are used to request state changes for WLM Initiators and are not a status setting found in field ASIWLMIS (but the settings cannot conflict with other ASIWLMIS status values).			
		.... ..1.		ASIWLMIT	"B'00000010'" Initialize/create WLM Initiator ASDS ent
		1		ASIWLMDS	"B'00000001'" Destroy/remove WLM Initiator ASDS ent
89	(59)	BITSTRING	3		Reserved
92	(5C)	ADDRESS	4	ASESJB	JXQ.SJB address
		Allocated Resource Tables (ARTs) Array of table entries that point to the history of allocations for given resource types			
96	(60)	SIGNED	4	ASEART(0)	Start of Allocation Resource Tables (ARTs)
96	(60)	BITSTRING	0	ASEARTTB(0)	Array of ART entries for resource allocations
176	(B0)	BITSTRING	4	ASEJKEY	JXQ.Job Key
184	(B8)	DBL WORD	8	(0)	End on a double work bndry
184	(B8)	X'B8'	0	ASDSELEN	"*-ASDSENT" ASDS entry length
184	(B8)	ADDRESS	2	(0)	Ensure header length less than entry length

Table 14. Cross Reference for $ASDS

Name	Offset	Hex Tag
ASDS	0	
ASDSARTS	30	
ASDSBLKS	2E	
ASDSCMOD	2D	0
ASDSCURV	2D	100
ASDSCVER	2D	1
ASDSDSB	C	
ASDSELEN	B8	B8
ASDSENT	0	
ASDSEYEC	0	D1C5E2F2
ASDSHIGH	10	
ASDSJ2IH	14	
ASDSJ2IT	16	
ASDSLEN	38	38

Table 14. Cross Reference for $ASDS (continued)

Name	Offset	Hex Tag
ASDSMODN	2D	
ASDSOTHH	28	
ASDSOTHT	2A	
ASDSRQJH	24	
ASDSRQJT	26	
ASDSSTCH	1C	
ASDSSTCT	1E	
ASDSSTRT	8	
ASDSTSUH	20	
ASDSTSUT	22	
ASDSVERN	2C	
ASDSVERS	2C	
ASDSVER1	2D	100
ASDSWLMH	18	
ASDSWLMT	1A	
ASEAJBID	10	
ASEART	60	
ASEARTTB	60	
ASEASCBT	8	
ASEASID	0	
ASECSCB	48	
ASEFLAG1	6	
ASEJCLAS	18	
ASEJKEY	B0	
ASEJOBID	28	
ASEJOBNM	20	
ASENEXT	2	
ASEPREV	4	
ASESECLB	38	
ASESJB	5C	
ASEUSRID	30	
ASEWSCN	40	
ASE1AJOB	6	2
ASE1GONE	6	1
ASE1J2I	6	80
ASE1NOTU	6	0
ASE1OTHR	6	4
ASE1RQJ	6	8
ASE1STC	6	20
ASE1TSO	6	10
ASE1WLMI	6	40
ASIPIT	4C	
ASIWLMDS	58	1
ASIWLMIA	58	80
ASIWLMII	58	40
ASIWLMIS	58	

Table 14. Cross Reference for $ASDS (continued)

Name	Offset	Hex Tag
ASIWLMIT	58	2
ASIWSCNO	50	

$ASSTTAB information

$ASSTTAB heading information

Common name: Migration assistant table

Macro ID: $ASSTTAB

DSECT name: ASSTTAB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'ASST'
Offset: ASSTAB-ASST
Length: 4

Storage attributes: Subpool: 0 for the JES2 main copy;
Key: 1
Residency: Virtual is in 31 bit storage in the JES2 address space. There are no restrictions on real storage.

Size: See ASSTTSZ

Created by: Source DAS migration phase DAS7PHAS = DAS7SET1.

Pointed to by: ASTTABLE field of the $DTEASST data area

Serialization: Each field is set either by SPOL PCE or migration assistant subtask. See fields for further definition.

Function: The ASSTTAB is owned by a migration assistant subtask. There are 253 entries in the table. Each entry may represent an active spool migration Source -> Target. An entry is actively in use if the source volid is set within the entry.

$ASSTTAB mapping

Table 15. Structure ASSTTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASSTTAB	Migartion table entry
0	(0)	CHARACTER	4	ASSTID	Table ID -> ASST
		ASSMIGRA, ASSVOLID set at $ASSTTAB initialization			
4	(4)	BITSTRING	1	ASSMIGRA	Migration specifc info
		1...		ASSMOVE	"B'10000000'" Migration is a move
		.1..		ASSMERGE	"B'01000000'" Migration is a merge
		..1.		ASSATTH	"B'00100000'" Assistant attached unique JES XCF group
		...1		ASSRECV	"B'00010000'" $ASSTTAB created under ASSISTANT or or FULL-RECOVERY
5	(5)	CHARACTER	6	ASSVOLID	Source volser. If set - then denotes entry inuse.
11	(B)	BITSTRING	1	ASSCOMPL	Migration percent complete

Table 15. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Source DAS information: (Used for dataset deallocation). State captured early on in phase - DAS7SET1 on call to $ASSTTAB initialization. This information will used at the end of migration to deallocate each member from the original source dataset. This allows the customer to roll the DASD out at migration end.			
12	(C)	BITSTRING	1	ASSSRCST	Source dataset info
16	(10)	SIGNED	4	(0)	Alignment
16	(10)	BITSTRING	32	ASSENQTK	ISGENQ token
48	(30)	ADDRESS	4	ASSUCBPT	UCB address
52	(34)	ADDRESS	4	ASSSRDAS	Source DAS address
56	(38)	CHARACTER	8	ASSGROUP	Note: migration XCF group name. Note: XX is source DASEXTNO.
64	(40)	CHARACTER	16	ASSMEMNM	Member name - used for attach of XCF group
80	(50)	SIGNED	4	ASJDIAG	JESXCF service diag area
84	(54)	ADDRESS	4	ASSTOKEN	JESXCF group token to use when sending to MG$VOLSER
88	(58)	BITSTRING	8	ASSSRESV	Reserved
96	(60)	BITSTRING	1	ASSSREXT	Extent number of source
		END soucce DAS information: Target volume dataset information			
97	(61)	BITSTRING	32	ASSTNQTK	ISGENQ token - Only move
129	(81)	BITSTRING	64	ASSTRPS	RPS Table for this device Move and merge
		The following fields are valid for both move and merge. ASSTDEBE, ASSTKCYL, ASSTEXTN, ASSTFLG1, ASSTNRTK, ASSTSTRT			
193	(C1)	BITSTRING	19	ASSTDEBE	DEB extent for this volume
212	(D4)	SIGNED	4	ASSTKCYL	Tracks per cylinder
216	(D8)	BITSTRING	1	ASSTEXTN	Extent number of target
217	(D9)	BITSTRING	1	ASSTFLG1	Target flag byte
		1...		ASST1RPS	"B'10000000'" RPS supported
218	(DA)	SIGNED	2	ASSTNRTK	Number of records per track
220	(DC)	SIGNED	4	ASSTSTRT	Start track of data set
		Both ASSTRACS and ASSTBITB are set at ASSTTAB init called from DADMSET1.			
224	(E0)	SIGNED	4	ASSTRACS	Number of tracks represented by track bitmap.
232	(E8)	ADDRESS	8	ASSTBITB	Address of bitmap in 64 bit common storage
		END target DAS information: Miscellaneous information:			
240	(F0)	BITSTRING	4	ASMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration or cancel.
244	(F4)	BITSTRING	1	ASMIGTSK	Current migrator subtask state

Table 15. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
245	(F5)	ADDRESS	1	ASSMIGTR	Migrator ID to be used when ACKING a migrator request
TLBM information					
248	(F8)	SIGNED	4	ASSTLBM	Relative track at which the TLBM starts on target volume.
252	(FC)	SIGNED	4	ASRECORD	Number of records consumed by TLBM
256	(100)	BITSTRING	1	ASTLBM	TLBM state
		1...		ASTLBMWR	"B'10000000'" TLBM has been written to target dataset
260	(104)	SIGNED	4	(0)	Align
End TLBM information					
260	(104)	CHARACTER	10		QWORD alignment
272	(110)		1	(0)	Quadword alignment
272	(110)	X'110'	0	ASSENTLN	"*-ASSTTAB" Length of table entry
272	(110)	X'10CD0'	0	ASSTABSZ	"ASSENTLN*253" Table length

Table 16. Cross Reference for $ASSTTAB

Name	Offset	Hex Tag
ASJDIAG	50	
ASMEMACK	F0	
ASMIGTSK	F4	0
ASRECORD	FC	
ASSATTH	4	20
ASSCOMPL	B	
ASSENQTK	10	
ASSENTLN	110	110
ASSGROUP	38	E2E8E2D4
ASSMEMNM	40	
ASSMERGE	4	40
ASSMIGRA	4	
ASSMIGTR	F5	
ASSMOVE	4	80
ASSRECV	4	10
ASSSRCST	C	
ASSSRDAS	34	
ASSSRESV	58	
ASSSREXT	60	
ASSTABSZ	110	10CD0
ASSTBITB	E8	
ASSTDEBE	C1	
ASSTEXTN	D8	
ASSTFLG1	D9	
ASSTID	0	
ASSTKCYL	D4	
ASSTLBM	F8	

Table 16. Cross Reference for $ASSTTAB (continued)

Name	Offset	Hex Tag
ASSTNQTK	61	
ASSTNRTK	DA	
ASSTOKEN	54	
ASSTRACS	E0	
ASSTRPS	81	0
ASSTSTRT	DC	
ASSTTAB	0	
ASST1RPS	D9	80
ASSUCBPT	30	
ASSVOLID	5	
ASTLBM	100	
ASTLBMWR	100	80

$ASYWORK information

$ASYWORK heading information

Common name: JES2 Asynchronous I/O PCE Work Area

Macro ID: $ASYWORK

DSECT name: PCE ($ASYWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol ASYPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $ASYNPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by the JES2 Asynchronous I/O Processor and by its support routines and exits. $ASYWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ASYWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEASYID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ASYWORK mapping

Table 17. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	DBL WORD	8	(0)	Force double-word alignment
328	(148)	X'0'	0	ASYPCEWS	"*-PCEWORK" Length of work area

$AUXCB information

$AUXCB heading information

Common name:	AUX address space control block
Macro ID:	$AUXCB
DSECT name:	AUXCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	AUXC Offset: AXBID Length: L'AXBID
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
Size:	See AXBLEN
Created by:	HASCSRAX
Pointed to by:	CCTAUXCB field of the $HCCT data area
Serialization:	Only updated by HASCSRAX while running under the JES2 main task.
Function:	This DSECT maps the data associated with the JES2 AUX address address space. It is used during JES2 initialization and termination processing to create and later delete the address space.

$AUXCB mapping

Table 18. Structure AUXCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AUXCB	, Define DSECT
0	(0)	CHARACTER	4	AXBID	Eyecatcher
4	(4)	ADDRESS	1	AXBVER	Version
4	(4)	X'1'	0	AXBVERN	"1" Current version
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	AXBNAME	Address space name
16	(10)	BITSTRING	24	AXBODA	ASCRE output area (IHAASEO)
40	(28)	SIGNED	4	AXBECB	JES2AUX "existence" ECB
44	(2C)	SIGNED	4	AXBSTECB	JES2AUX response ECB
48	(30)	ADDRESS	4	AXBPWORK	Address of working storage in the AUX address space.
52	(34)	ADDRESS	4	AXBGTKN	Group token for data retrieval JESXCF group
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	AXBLEN	"*-AUXCB" Length of AUXCB

Table 19. Cross Reference for $AUXCB

Name	Offset	Hex Tag
AUXCB	0	
AXBECB	28	
AXBGTKN	34	
AXBID	0	C1E4E7C2
AXBLEN	38	38
AXBNAME	8	D1C5E2F2

Table 19. Cross Reference for $AUXCB (continued)

Name	Offset	Hex Tag
AXBODA	10	
AXBPWORK	30	
AXBSTECB	2C	
AXBVER	4	
AXBVERN	4	1

$BERT information

$BERT heading information

Common name: HASP Block Extension Reuse Table

Macro ID: $BERT

DSECT name: BERT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the APPLCOPY is in ECSA. Real storage is anywhere.

Size: See BRTLEN

Created by: JES2 initialization processing

Pointed to by: $BERTPTR field of the $HCT data area

Serialization: The JES2 Checkpoint data set lock ($QSUSE). The lock entry in the 1st $BERT (BRTLOCK) is also used for serialization.

Function: This control block maps the header and the entries in the BERT CTENT on the JES2 checkpoint. These entries are used as a pool of storage in the checkpoint by various services.

$BERT mapping

Table 20. Structure BERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERT	, Block Extension Reuse Table
0	(0)	X'1'	0	BERTVERS	"1" BERT version number
0	(0)	BITSTRING	4	BRTWALLY(0)	Composite of TYPE and CB
0	(0)	BITSTRING	1	BRTTYPE	Control block type
0	(0)	X'0'	0	BRTINT	"$DGBINT" Internal control block
0	(0)	X'1'	0	BRTJQE	"$DGBJQE" JQE extension
0	(0)	X'2'	0	BRTCAT	"$DGBCAT" Class attribute table
0	(0)	X'3'	0	BRTWSCQ	"$DGBWSCQ" WLM service class queue
		1111 1111		BRTFREE	"X'FF'" Free BERT
1	(1)	BITSTRING	3	BRTCB	Related control block index
4	(4)	BITSTRING	1	BRTSEQ	Sequence number
5	(5)	BITSTRING	3	BRTNEXT	Next BERT in CB chain
8	(8)	BITSTRING	2		Reserved for future use
8	(8)	X'A'	0	BRTPRLEN	"*-BERT" Length of BERT prefix
10	(A)	BITSTRING	54	BRTDATA	Data area for BERTIEs

Table 20. Structure BERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	X'40'	0	BRTLEN	"*-BERT" Total size of a BERT
		Special wally values for internal BERTs used by the DOGBERT service internally.			
		....		BRTWYDYN	"X'00000000'" Wally for dynamic heads (BRTPBERT.BRTNEXT chain)
10	(A)	BITSTRING	0	BRTWYNAM	"X'00001000'" Named internal CBs header (BRTPINTH chain)
10	(A)	BITSTRING	0	BRTWYNIB	"X'00800000'" Named internal CBs combined with CB number

Table 21. Structure BERTIE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTIE	, BERT information element
0	(0)	BITSTRING	1	BRTIID	Section identifier
		1111 111.		BRTIICNT	"X'FE'" Continued in next BERT
		1111 1111		BRTIIEND	"X'FF'" End of BERTIEs
1	(1)	BITSTRING	1	BRTILEN	Length of BERTIE data (does not include this prefix)
1	(1)	X'2'	0	BRTIPLEN	"*-BERTIE" Prefix area length
2	(2)	BITSTRING	1	BRTIDATA(0)	Start of actual data

Table 22. Structure BERTI0

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTI0	, Type 0 BERTIE
0	(0)	BITSTRING	1	BRT0LOCK	Lock byte (QSESIBSY value)
1	(1)	BITSTRING	1	BRT0FLG0	Type 0 flag byte
		1111		BRT0USEQ	"B'11110000'" Update sequence counter (4 bit count)
1	(1)	X'2'	0	BRT0LEN1	"*-BERTI0" Minimum type 0 BERTIE
2	(2)	BITSTRING	1	BRT0FLAG	General flags for chaining
3	(3)	BITSTRING	3	BRT0NXT1	1st CB chain field
6	(6)	BITSTRING	3	BRT0NXT2	2nd CB chain field
9	(9)	BITSTRING	1	BRT0KEY(0)	Search key
9	(9)	X'9'	0	BRT0LEN2	"*-BERTI0" Size with search key (plus key len)

Table 23. Structure BRTPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTPREF	, BERT CTENT prefix area
0	(0)	BITSTRING	10	BRTPBERT	Start with a standard prefix
10	(A)	SIGNED	2	BRTPLEN	Size of BERT prefix
12	(C)	SIGNED	4	BRTPFREE	Index of 1st free BERT
16	(10)	SIGNED	4	BRTPFNUM	Number of free BERTs
20	(14)	SIGNED	4	BRTPMAP	BERT token for NAME to ID map
24	(18)	BITSTRING	1	BRTPMXTY	Max known BERT type
25	(19)	BITSTRING	3		Reserved for future use

Table 23. Structure BRTPREF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	(2)	Reserved for future use
		BERT queue heads. There is one per entry even if they are not used. These must be in the same order as the ID number of control blocks.			
28	(1C)	X'0'	0	BRTPQHED	"0,4,C'F'" Queue head part of entry
28	(1C)	X'4'	0	BRTPQHNM	"4,4,C'F'" Number of elements on queue
28	(1C)	X'8'	0	BRTPQHDL	"8"
36	(24)	SIGNED	4	BRTPQHDS(0)	--+ Start of queue heads
36	(24)	SIGNED	4	BRTPJQE	| First JQE BERT (not used)
40	(28)	SIGNED	4	BRTPJQEN	| Number of JQEs (not used)
44	(2C)	SIGNED	4	BRTPCAT	| First CAT BERT
48	(30)	SIGNED	4	BRTPCATN	| Number of CATs defined
52	(34)	SIGNED	4	BRTPWSCQ	| First WSCQ BERT
56	(38)	SIGNED	4	BRTPWSCN	--+ Number of WSCQs defined
56	(38)	X'3'	0	BRTPQHDN	"(*-BRTPQHDS)/BRTPQHDL" Number of queue heads
56	(38)	X'3'	0	BRTPQHMX	"(*-BRTPQHDS)/BRTPQHDL" Max queue heads
		BRTPINTH is a pointer to a chain of BERTs that represents the internal named BERT pointer structure. Named internal BERTs each have a number assigned using the BERTMAP and that number indexes into this structure. The 0th entry in the pointer structure is not used.			
60	(3C)	SIGNED	4	BRTPINTH	Named internal BERT pointer structure
60	(3C)	X'40'	0	BRTPSIZE	"*-BRTPREF" Size of prefix area
64	(40)	ADDRESS	2	(0)	Verify size

Table 24. Structure BRTMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTMAP	, BERTIE name to ID table
0	(0)	CHARACTER	8	BRTMNAME	Name of BERTIE (A value of all FF indicates end of table)
8	(8)	BITSTRING	1	BRTMTYPE	Control block type (see BRTTYPE for a list of valid values)
9	(9)	BITSTRING	1	BRTMID	ID assigned to this BERTIE name
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved for future use
12	(C)	X'14'	0	BRTMLEN	"*-BRTMAP" Length of map entry

Table 25. Structure BRTCNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTCNT	, BERT count array
0	(0)	CHARACTER	8	BRTCNAME	Name of BERT entry
8	(8)	BITSTRING	1	BRTCID	Control block type
9	(9)	BITSTRING	1	BRTCFLG1	Flag bytes
		1...		BRTCF1DF	"B'10000000'" BERTTAB found

Table 25. Structure BRTCNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	BRTCMAIN	Sequence one BERT count
16	(10)	SIGNED	4	BRTCNUM	Total BERT count
20	(14)	ADDRESS	4	BRTCTRAN	BRTRANS table pointer for CB type - main task only
20	(14)	X'18'	0	BRTCLEN	"*-BRTCNT" Size of an entry
20	(14)	X'1800'	0	BRTCSIZE	"BRTCLEN*256" Size of a full array

Table 26. Cross Reference for $BERT

Name	Offset	Hex Tag
BERT	0	
BERTIE	0	
BERTI0	0	
BERTVERS	0	1
BRTCAT	0	2
BRTCB	1	
BRTCFLG1	9	
BRTCF1DF	9	80
BRTCID	8	
BRTCLEN	14	18
BRTCMAIN	C	
BRTCNAME	0	
BRTCNT	0	
BRTCNUM	10	
BRTCSIZE	14	1800
BRTCTRAN	14	
BRTDATA	A	
BRTFREE	0	FF
BRTIDATA	2	
BRTIICNT	0	FE
BRTIID	0	
BRTIIEND	0	FF
BRTILEN	1	
BRTINT	0	0
BRTIPLEN	1	2
BRTJQE	0	1
BRTLEN	A	40
BRTMAP	0	
BRTMID	9	
BRTMLEN	C	14
BRTMNAME	0	
BRTMTYPE	8	
BRTNEXT	5	
BRTPBERT	0	
BRTPCAT	2C	
BRTPCATN	30	

Table 26. Cross Reference for $BERT (continued)

Name	Offset	Hex Tag
BRTPFNUM	10	
BRTPFREE	C	
BRTPINTH	3C	
BRTPJQE	24	
BRTPJQEN	28	
BRTPLEN	A	
BRTPMAP	14	
BRTPMXTY	18	
BRTPQHDL	1C	8
BRTPQHDN	38	3
BRTPQHDS	24	
BRTPQHED	1C	0
BRTPQHMX	38	3
BRTPQHNM	1C	4
BRTPREF	0	
BRTPRLEN	8	A
BRTPSIZE	3C	40
BRTPWSCN	38	
BRTPWSCQ	34	
BRTSEQ	4	
BRTTYPE	0	
BRTWALLY	0	
BRTWSCQ	0	3
BRTWYDYN	A	0
BRTWYNAM	A	1000
BRTWYNIB	A	800000
BRT0FLAG	2	
BRT0FLG0	1	
BRT0KEY	9	
BRT0LEN1	1	2
BRT0LEN2	9	9
BRT0LOCK	0	
BRT0NXT1	3	
BRT0NXT2	6	
BRT0USEQ	1	F0

$BERTTAB information

$BERTTAB programming interface information

$BERTTAB is a programming interface.

$BERTTAB heading information

Common name: BERT table entry

Macro ID: $BERTTAB

DSECT name: BRTT

Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: These table entries are part of the HASJES20 load module and are located below 16M. Real storage can be anywhere.
Size:	See BRTTELEN
Created by:	$BERTTAB macro expantion in HASPTAB
Pointed to by:	MCTBRTTU field of the $MCT data area MCTBRTTH field of the $MCT data area
Serialization:	None required
Function:	This DSECT maps entries in the BERT table pairs which describe variable extensions to JES2 CKPTed control blocks.

$BERTTAB mapping

Table 27. Structure BRTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTT	
0	(0)	CHARACTER	8	BRTTNAME	Name of section (<KEY> if key entry)
8	(8)	BITSTRING	1	BRTTTYPE	Control block type
8	(8)	X'0'	0	BRTTINT	"$DGBINT" Named internal CB
8	(8)	X'1'	0	BRTTJQE	"$DGBJQE" JQE extension
8	(8)	X'2'	0	BRTTCAT	"$DGBCAT" Class attribute table
8	(8)	X'3'	0	BRTTWSCQ	"$DGBWSCQ" WLM service class queue
8	(8)	X'FF'	0	BRTTDYN	"$DGBDYN" Dynamically defined type
9	(9)	BITSTRING	1	BRTTFLAG	General flag byte
		1...		BRTTUSER	"B'10000000'" USER table (not HASP)
		.1..		BRTTKEY	"B'01000000'" This entry describes a flag
		..1.		BRTTOFFV	"B'00100000'" The offset of this entry is dynamically generated
		...1		BRTTOLAP	"B'00010000'" This entry may overlap other entries in this CB
10	(A)	SIGNED	2	BRTTOFF	Offset of data area
12	(C)	BITSTRING	1	BRTTLEN	Length of section
13	(D)	BITSTRING	1	BRTTFILL	Fill character
14	(E)	BITSTRING	2		Reserved
16	(10)	CHARACTER	8	BRTTTNAM	CB type name
24	(18)	SIGNED	4	(0)	Align BRTT entry
24	(18)	X'18'	0	BRTTELEN	"*-BRTT" Length of BRTT entry DSECT

Table 28. Cross Reference for $BERTTAB

Name	Offset	Hex Tag
BRTT	0	
BRTTCAT	8	2
BRTTDYN	8	FF
BRTTELEN	18	18
BRTTFILL	D	
BRTTFLAG	9	

Table 28. Cross Reference for $BERTTAB (continued)

Name	Offset	Hex Tag
BRTTINT	8	0
BRTTJQE	8	1
BRTTKEY	9	40
BRTTLEN	C	
BRTTNAME	0	
BRTTOFF	A	
BRTTOFFV	9	20
BRTTOLAP	9	10
BRTTTNAM	10	
BRTTTYPE	8	
BRTTUSER	9	80
BRTTWSCQ	8	3

$BLDMSGL information

$BLDMSGL programming interface information

$BLDMSGL is a programming interface.

$BLDMSGL heading information

Common name: Build Message Parameter List

Macro ID: $BLDMSGL

DSECT name: BLD

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'BLD '
Offset: BLDID-BLD
Length: 4

Storage attributes: Subpool: Subpool 1 for the $BLDMSG MF=(I) case;
Subpool is unknown if $BLDMSG
MF=(E,address) case.
Key: 1
Residency: JES2 address space. Virtual and Real are above or below the 16M line.

Size: See BLDSIZE

Created by: $BLDMSG macro

Pointed to by: R1 when routine $MSGSCAN is called

Serialization: JES2 main task re-entrancy.

Function: This control block contains all the information needed to invoke $SCAN to create a message. It also has the information necessary to write the message lines created by $SCAN as part of the "DISPRTN" operand of the $SCAN macro.

$BLDMSGL mapping

Table 29. Structure BLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BLD	HASP $BLDMSG PARM LIST DSECT
0	(0)	CHARACTER	4	BLDID	EBCDIC CONTROL BLOCK ID, SET BY $GETWORK VIA USE=BLD
4	(4)	BITSTRING	4	BLDCONID	Console id

Table 29. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	BLDCART	Address of the CART
12	(C)	ADDRESS	4	BLDJOBID	Pointer for given jobid
16	(10)	ADDRESS	4	BLDCBA	Control block address
20	(14)	ADDRESS	4	BLDISPR	Display routine address
24	(18)	ADDRESS	4	BLDADDR(6)	Work area definitions
WORK AREA DEFINITION IF BLD1WTOR IS ON					
24	(18)	ADDRESS	4	BLDECB	ADDRESS OF ECB
28	(1C)	ADDRESS	4	BLDREPLY	ADDRESS OF REPLY AREA
32	(20)	ADDRESS	4	BLDLEN	LENGTH OF REPLY AREA
36	(24)	BITSTRING	8	BLDWORK(0)	Work area used by $REPLY
36	(24)	SIGNED	4	BLDDOMID	MESSAGE ID USED IN DOM MACRO
40	(28)	SIGNED	4	BLDHUHDM	DOM ID FOR HUH MESSAGE
44	(2C)	ADDRESS	4	BLDREPV	Address of reply vector
WORK AREA DEFINITION IF BLD1WTO OR BLD1CMB IS ON					
24	(18)	DBL WORD	8	BLDMTMSP	Message timestamp
32	(20)	SIGNED	4	BLDJGIDX	Jobgroup JQE index
36	(24)	SIGNED	4	BLDCNNCT	CONNECT ID FOR MULTI-LINE WTO
40	(28)	SIGNED	4	BLDJGKEY	Jobgroup JQE job key
44	(2C)	SIGNED	4	BLDRSAVE	Save area for one register
48	(30)	ADDRESS	4	BLDCR11	R11 of caller for $BLDMSG
52	(34)	BITSTRING	2	BLDROUT	Route code for message
54	(36)	BITSTRING	2	BLDDESC	Descriptor codes for msg
56	(38)	CHARACTER	4	BLDMSGID	MESSAGE ID
60	(3C)	BITSTRING	1	BLDSEPAR	Separator character
61	(3D)	BITSTRING	1	BLDFLAG1	Flag byte
		1...		BLD1WTO	"B'10000000'" BUILD WTO OR MLWTO MF=L
		.1..		BLD1WTOR	"B'01000000'" BUILD WTOR MF=L
		..1.		BLD1CMB	"B'00100000'" BUILD CMB
		...1		BLD1WAIT	"B'00010000'" $WAIT IS ALLOWED
		.... 1...		BLD1JQE	"B'00001000'" Prefix job id from JQE
		.... .1..		BLD1JID	"B'00000100'" Prefix job id from given id
		.... ..1.		BLD1REPV	"B'00000010'" Reply vector proc. required
		1		BLD1GETW	"B'00000001'" This area obtained via $GETWORK
62	(3E)	BITSTRING	1	BLDISPER	'DISPER' character
63	(3F)	BITSTRING	1	BLDFLAG2	Flag byte 2
		1...		BLD2LOGO	"B'10000000'" LOGONLY=YES is specified
		.1..		BLD2ROUT	"B'01000000'" Route codes are set
		..1.		BLD2DESC	"B'00100000'" Descriptor codes are set
		...1		BLD2LONG	"B'00010000'" LONG=YES is specified
		.... 1...		BLD2GETC	"B'00001000'" This area obtained via $GETHP

Table 29. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		BLD2HCCT	"B'00000100'" Display routine R11=HCCT
		.... ..1.		BLD2HCT	"B'00000010'" Display routine R11=HCT
		1		BLD2NMUL	"B'00000001'" MULTI=NO is specified
64	(40)	BITSTRING	1	BLDFLAG3	Flag byte 3
		1...		BLD3BRAN	"B'10000000'" BRANCH=YES is specified
		.1..		BLD3DEST	"B'01000000'" DEST= is specified
		..1.		BLD3JGR	"B'00100000'" JOBGROUP=YES specified
65	(41)	BITSTRING	1	BLDSEV	Severity of message
65	(41)	X'4'	0	BLDSINFO	"4" Informational message
65	(41)	X'8'	0	BLDSWARN	"8" Warning message
65	(41)	X'C'	0	BLDSEROR	"12" Error message
66	(42)	CHARACTER	8	BLDDESTN	Symbolic name of dest.
74	(4A)	BITSTRING	14		Reserved for future use
88	(58)	ADDRESS	4	(0)	Ensure multiple of 4
88	(58)	X'58'	0	BLDSIZE	"*-BLD"

Table 30. Cross Reference for $BLDMSGL

Name	Offset	Hex Tag
BLD	0	
BLDADDR	18	
BLDCART	8	
BLDCBA	10	
BLDCNNCT	24	
BLDCONID	4	
BLDCR11	30	
BLDDESC	36	
BLDDESTN	42	
BLDDOMID	24	
BLDECB	18	
BLDFLAG1	3D	
BLDFLAG2	3F	
BLDFLAG3	40	
BLDHUHDM	28	
BLDID	0	
BLDISPER	3E	
BLDISPR	14	
BLDJGIDX	20	
BLDJGKEY	28	
BLDJOBID	C	
BLDLEN	20	
BLDMSGID	38	
BLDMTMSP	18	
BLDREPLY	1C	
BLDREPV	2C	
BLDROUT	34	

Table 30. Cross Reference for $BLDMSGL (continued)

Name	Offset	Hex Tag
BLDRSAVE	2C	
BLDSEPAR	3C	
BLDSEROR	41	C
BLDSEV	41	
BLDSINFO	41	4
BLDSIZE	58	58
BLDSWARN	41	8
BLDWORK	24	
BLD1CMB	3D	20
BLD1GETW	3D	1
BLD1JID	3D	4
BLD1JQE	3D	8
BLD1REPV	3D	2
BLD1WAIT	3D	10
BLD1WTO	3D	80
BLD1WTOR	3D	40
BLD2DESC	3F	20
BLD2GETC	3F	8
BLD2HCCT	3F	4
BLD2HCT	3F	2
BLD2LOGO	3F	80
BLD2LONG	3F	10
BLD2NMUL	3F	1
BLD2ROUT	3F	40
BLD3BRAN	40	80
BLD3DEST	40	40
BLD3JGR	40	20

$BUFFER information

$BUFFER programming interface information

$BUFFER is a programming interface.

$BUFFER heading information

Common name: HASP Buffer

Macro ID: $BUFFER

DSECT name: BFPDSECT, SPBRECD, BFD

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'BUF '
Offset: BFPID-BFPDSECT
Length: 4

Storage attributes:

Subpool: BSC buffers are in subpool 6.
VTAM buffers are in subpool 16.
HASP buffers are in subpool 8.
UBUF, PBUF, HBUF, GBUF and SUBST buffers are in subpool 229.
CB buffers in the JES2 main task environment are in subpool 7.
CB buffers in the USER environment are in subpool 230.
PAGE buffers are in subpool 14.
PP buffers are in subpool 15.
Key: BSC, VTAM, HASP, CB, HBUF, GBUF, PAGE and PP buffers are in key 1. UBUF buffers are in the key of the associated TCB.
PBUF buffers are in key 5.
Residency: Virtual and real storage for BSC, HASP, PAGE and PP buffers are below 16M in the private storage of the JES2 address space. Virtual and real storage for VTAM and CB (main task) buffers are anywhere (above or below 16M) in the private storage of the JES2 address space. Virtual and real storage for UBUF, PBUF, HBUF and GBUF buffers are above or below 16M in the address space of the application for which the I/O is being done. Virtual storage for CB buffers (USER environment) is anywhere (above or below 16M) except for CB buffers used for JCTs which must be below 16M. Real storage for CB buffers in the USER environment is anywhere.

Size:

The size varies depending on the type of buffer.
The size of BSC buffers is specified by the initialization statement TPDEF BELOWBUF= SIZE=.
The size of VTAM buffers is specified by the initialization statement TPDEF EXTBUF= SIZE.
PAGE, PBUF, UBUF, HBUF and GBUF buffers are 4096 bytes. The size of HASP and CB buffers is specified by the initialization statement SPOOLDEF BUFSIZE=.
The following formula gives the size for PP buffers:
- 2X + (BUFFER PREFIX AREA)
- WHERE X = MAX ($NOPRCCW*8+PCIESIZE+JOESIZE,
- $NOPUCCW*8+PCIESIZE+JOESIZE,
- ($TCELSIZ*4-3)*4)

Created by:

In environments other than the USER environment, the storage is obtained by the $CPOOL services called during JES2 initialization, or by the $GETBUF service. In the USER environment, storage is obtained via $GETBUF.
The control block is filled in by: bi-synch processing for BSC buffers, SNA processing for VTAM buffers, print/punch processing for PAGE and PP buffers, HASP Access Method (HAM) for PBUF, UBUF, HBUF and GBUF buffers, $CBIO services for CB buffers, and various JES2 processors for HASP buffers.

Pointed to by:

BATBUF field of the $BAT data area
BUFCHAIN field of the $BUFFER data area
BUFCHEQ field of the $BUFFER data area
DCTBUFAD field of the $DCT data area
MDCTOBUF field of the $DCT data area
RIDUBF field of the $DCT data area
RIDPBF field of the $DCT data area
DSSABUF field of the $DSSCB data area
DSSNBUF field of the $DSSCB data area
GCBMBUF field of the $GCB data area
$ASYNCQ field of the $HCT data area
$MIGRIOQ field of the $HCT data area
$BSCCHEQ field of the $HCT data area
$MCONMSG field of the $HCT data area
$RPLCOMQ field of the $HCT data area
$XFRBEND field of the $HCT data area
HFCTBUFS field of the $HFCT data area
ICEINHD field of the $ICE data area
ICEINTL field of the $ICE data area
ICEOUTBF field of the $ICE data area
ICEOUTHD field of the $ICE data area
ICEOUTTL field of the $ICE data area
ICEBUFAD field of the $ICE data area
JIBCPBUF field of the $JIB data area
MLMRLPQ field of the $MLMWORK data area
MLMBSCQ field of the $MLMWORK data area
PCEBUFAD field of the $PCE data area
PCIBUFAD field of the $PCIE data area
PCTINQ field of the $PCT data area
PCTVINQ field of the $PCT data area
PCTSINQ field of the $PCT data area
SDBUBF field of the $SDB data area
SDBPBF field of the $SDB data area
SDBCBF field of the $SDB data area
SDBCBFC field of the $SDB data area
SDBCBF1 field of the $SDB data area
SDBGBF field of the $SDB data area
SDBHBF field of the $SDB data area
SJBSWBUF field of the $SJB data area
Some pointers within control blocks in buffers point to other control blocks in buffers (for example, $JCT and $IOT).
Various fields in the processor work areas, parameter lists and exit parameter lists (XPL).

Serialization:

Compare and swap logic is used to chain and dechain buffers. Buffers are used in JES2 and application tasks as well as in asynchronous I/O processing (IRBs, SRBs, appendages). Implicit additional serialization is provided by the SJB lock and/or the Local lock in the USER environment and JES2 reentrancy techniques in the JES2 main task environment.

Function: Buffers are used to buffer data as part of the JES2 processing for spool data sets or devices. They are used to hold data, channel programs and parameter lists for interfacing with MVS IOS, VTAM and other I/O access methods.
There are multiple types of buffers mapped by $BUFFER. Many types of buffers have control blocks associated with them that contain additional information required to use the buffer for I/O (for example, channel programs).
A HASP buffer is a local buffer used to read or write SYSIN or SYSOUT data.
A BSC buffer is a teleprocessing buffer used for BSC NJE and RJE.
A VTAM buffer is a teleprocessing buffer used for SNA NJE and RJE.
A PAGE buffer is a local 4096-byte buffer used for I/O to local non-impact printers supported directly by JES2. PAGE buffers are also used for BSAM spool offload I/O.
A PP buffer is a local print/punch buffer that contains an IOB and the CCWs required to do I/O from PAGE buffers to local non-impact printers.
A PROT buffer (PBUF) is a protected buffer used for spool I/O by the HASP Access Method (HAM).
An UNPROT buffer (UBUF) is an unprotected buffer used as a staging area for HAM. No I/O is actually done using this buffer. When a UBUF being used for output is full or input needs to be replenished, an associated PBUF is used.
A CB buffer is a control block buffer used by the $CBIO service for I/O.
A HOLD buffer (HBUF) is an unprotected buffer which is used for GET/UPDATE by HAM. A GBUF is a protected HOLD buffer used for GET/UPDATE.
For additional information see $GETBUF, $CBIO and $EXCP in "JES2 Customization".

$BUFFER mapping

Table 31. Structure BFPDSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BFPDSECT	START OF BUFFER PREFIX
0	(0)	CHARACTER	4	BFPID	BUFFER INDENTIFIER
4	(4)	SIGNED	4	BFPBAT	ADDRESS OF AUXILIARY BUFFER
4	(4)	X'4'	0	BFPSWEL	"BFPBAT,,C'A'" Address of SWEL (TP buffers in process of signon only)
8	(8)	ADDRESS	4	BUFCHAIN	BUFFER CHAIN FIELD
12	(C)	BITSTRING	1	BUFTYPE	BUFFER TYPE
		....		BUFLOCAL	"B'00000000'" LOCAL BUFFER
		The BUFFIX and BUFMULT EQUs are the same as $GTB1FIX and $GTB1MUL EQUs in $PARMLST			
		1...		BUFFIX	"B'10000000'" Page-fix request
		.1..		BUFMULT	"B'01000000'" Multiple buffer request
		..1.		BUFIOB	"B'00100000'" IOB in front of the buffer
		...1		BUFRPL	"B'00010000'" RPL IN FRONT OF BUFFER
		.... 1...		BUFDECB	"B'00001000'" DECB IN FRONT OF BUFFER
		.... .111		BUFBPMT	"B'00000111'" Buffer type (see below)
		1		BPMTBSC	"B'00000001'" BSC buffer type
		.... ..1.		BPMTCB	"B'00000010'" CB buffer type
		11		BPMTHASP	"B'00000011'" HASP buffer type
		.... .1..		BPMTPAGE	"B'00000100'" PAGE buffer type

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1.1		BPMTPP	"B'00000101'" Print/Punch buffer type
		.... .11.		BPMTVTAM	"B'00000110'" VTAM buffer type
		.... .111		BPMTHAM	"B'00000111'" HAM HDB buffer
		1111 1111		BPMTUSCB	"B'11111111'" User environment CB buffer
12	(C)	X'21'	0	BUFBSC	"BUFLOCAL+BUFIOB+BPMTBSC"
12	(C)	X'22'	0	BUFCB	"BUFLOCAL+BUFIOB+BPMTCB"
12	(C)	X'23'	0	BUFHASP	"BUFLOCAL+BUFIOB+BPMTHASP"
12	(C)	X'16'	0	BUFVTAM	"BUFRPL+BPMTVTAM"
12	(C)	X'24'	0	BUFPAGE	"BUFLOCAL+BUFIOB+BPMTPAGE"
12	(C)	X'C'	0	BUFSPXFR	"BUFLOCAL+BUFDECB+BPMTPAGE"
12	(C)	X'25'	0	BUFPP	"BUFLOCAL+BUFIOB+BPMTPP"
13	(D)	CHARACTER	1	BUFECBCC	I/O COMPLETION CODE
		1		BUFCCFCB	"X'01'" HASPIMAG - BAD FCB
14	(E)	BITSTRING	1	BUFFLAG1	Buffer flag byte
		1...		BFPTHMGR	"B'10000000'" BUFFER BELONGS TO PATH MGR
	WARNING - The bit below has a different use depending on the Environment.				
		.1..		BUF1WIN	"B'01000000'" User ENV - Write in progress flag (only used by USER ENV I/O)
		.1..		BUF1EXVR	"B'01000000'" Main Task ENV - On REDO issue EXCPVR instead of EXCP (only used by MAIN TASK I/O).
		..1.		BUF1SINT	"B'00100000'" Simulated I/O error
		...1		BUF1PERM	"B'00010000'" Permanent I/O error
		.... 1...		BUF1CHEN	"B'00001000'" Channel end appendage processed buffer
		.... .1..		BUF1DASD	"B'00000100'" I/O to DASD device
		.... ..1.		BUF1REDO	"B'00000010'" Redo I/O (only used by MAIN TASK I/O).
		1		BUF1MIGO	"B'00000001'" During spool migration, override mapped volume consideration (only used by MAIN TASK I/O).
15	(F)	BITSTRING	1	BUFMIGTC	Migration transition count (only used by MAIN TASK I/O).
16	(10)	ADDRESS	4	BFPDCT	ADDRESS OF DEVICE CONTROL TABLE
20	(14)	ADDRESS	4	BFPEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
20	(14)	X'18'	0	BFPLEN	"*-BFPDSECT" LENGTH OF BUFFER PREFIX
24	(18)	BITSTRING	1	BUFIOBST	Define IOB work area
	Remapping of fields inside a standard IOB				
24	(18)	X'2C'	0	TPBMXREC	"IOBINCAM,1,C'C'" Max RJE output record count
24	(18)	X'2D'	0	IOBECBSV	"IOBINCAM+1,1" I/O COMPLETION SAVE AREA
24	(18)	X'30'	0	TPBLCCC	"IOBXTENT,1,C'C'" Last rmt output command op.
24	(18)	X'30'	0	TPBLCCAD	"IOBXTENT,4,C'A'" Addr of last remote CC

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'30'	0	IOBXTENT	"IOBM,1,C'C'" DEB extent
		Note that last 4 bytes of IOBSEEK overlap TPBFDATA, which is not used in a buffer for DASD I/O.			
60	(3C)	CHARACTER	1	TPBRECNT(0)	CURRENT REMOTE OUTPUT RECORD COUNT
60	(3C)	SIGNED	4	TPBFDATA	REMOTE DATA POINTER
64	(40)	CHARACTER	1	LCBMCB	REMOTE MODE BYTE
64	(40)	X'40'	0	PPBFLAG1	"LCBMCB" IOB BUFF WHERE LAST PCI
65	(41)	CHARACTER	1	BUFCHOFF(0)	OFFSET OF 1ST BUFFER IN TRACKCELL
65	(41)	CHARACTER	1	LCBACK	REMOTE NEXT ACKNOWLEDGEMENT
66	(42)	SIGNED	2	BUFCHNCT(0)	COUNT OF BUFFERS IN CHAIN
66	(42)	SIGNED	2	LCBRCB	REMOTE RESPONSE CONTROL BLOCK
68	(44)	SIGNED	4	BUFCHECB(0)	$EXCP ECB
68	(44)	SIGNED	4	BUFCHEQ	Channel end queue chain
72	(48)	DBL WORD	8	IOBCCW1	CHANNEL COMMAND WORD 1
80	(50)	DBL WORD	8	IOBCCW2	CHANNEL COMMAND WORD 2
88	(58)	DBL WORD	8	IOBCCW3	CHANNEL COMMAND WORD 3
96	(60)	DBL WORD	8	IOBCCW4	CHANNEL COMMAND WORD 4
		PP BUFFER SYNCHRONIZATION INFORMATION			
72	(48)	SIGNED	4	PPBPCIE	ADDRESS OF ACTIVE PCIE
76	(4C)	SIGNED	4	PPBCCWNX	ADDRESS OF NEXT CCW AREA
80	(50)	SIGNED	4	PPBLVCCN	LAST-VALID CCW IN NEXT AREA
84	(54)	BITSTRING	6	PPBCMQTR	Current punch
90	(5A)	CHARACTER	2	PPBCRCB	restart fields
92	(5C)	CHARACTER	1	PPBCBOFF	(keep together)
93	(5D)	BITSTRING	6	PPBNMQTR	Next punch
99	(63)	CHARACTER	2	PPBNRCB	restart fields
101	(65)	CHARACTER	1	PPBNBOFF	(keep together)
102	(66)	CHARACTER	2	PPBDISPL	OFFSET OF 2ND IOB BUFFER
60	(3C)	SIGNED	4	PPBLVCCC	LAST VALID CCW IN CURRENT AREA
		Define memory-only fields for control block I/O. These utility fields will be accessed using definitions in the control blocks using the fields (for example the IOT). The access will be via the use of EQU. For example IOTIOT (a memory chain pointer for the IOT) could be defined as: IOTIOT EQU BUFMEMW1-BFPDSECT+IOT The advantage of defining the fields at this point in the buffer is that this part of the buffer is never written to SPOOL and thus there is no exposure to residual data being available when the buffer is read from SPOOL later. This area is zeroed in the $CBIO support routines just before a control block is read.			
56	(38)	DBL WORD	8	BUFMEMD1	Memory-only double word
64	(40)	ADDRESS	4	BUFMEMW1	First memory-only word
68	(44)	ADDRESS	4	BUFMEMW2	Second memory-only word
72	(48)	ADDRESS	4	BUFMEMW3	Third memory-only word
76	(4C)	ADDRESS	4	BUFMEMW4	Fourth memory-only word

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Flag byte BUFMEMF1 is currently defined to use only for control block I/O (eg. IOT.) For general use (eg. HDB buffers), flag byte BUFMEMF4 should be used with neccessary bit definitions defined in corresponding DSECT.			
80	(50)	BITSTRING	1	BUFMEMF1	First memory-only flag
80	(50)	X'50'	0	BUFMFLG1	"BUFMEMF1" Memory only flag
		1...		BUFM1CKP	"B'10000000'" Control block needs to be written to SPOOL
		.1..		BUFM1CK2	"B'01000000'" Secondary CKPT flag (only set for IOTs)
81	(51)	BITSTRING	1	BUFMEMF2	Second memory-only flag
82	(52)	BITSTRING	1	BUFMEMF3	Third memory-only flag
83	(53)	BITSTRING	1	BUFMEMF4	Fourth memory-only flag. For general use, see specific control block for bit definitions.
84	(54)	ADDRESS	4	BUFMEMW5	Fifth memory-only word
88	(58)	ADDRESS	4	BUFMEMW6	Sixth memory-only word
92	(5C)	ADDRESS	4	BUFMEMW7	Seventh memory-only word
96	(60)	ADDRESS	4	BUFSJIOB	SJIOB address ($CBIO in USER environment)
100	(64)	ADDRESS	4	BUFWRTBK	Buffer backward chain pointer during CB chain write in user environment
100	(64)	X'38'	0	BUFMEM	"BUFMEMD1,*-BUFMEMD1,C'X'" Name of composite area
		An assembly error on the following statement implies that there has been too much "redefinition" of the buffer prefix area. Ensure the redefinition does not exceed 6 double words.			
104	(68)	ADDRESS	2	(0)	See above
		Start of data area in SPOOL buffers			
104	(68)	DBL WORD	8	BUFSTART(0)	START OF BUFFER WORK SPACE
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	HDBID	Eyecatcher
108	(6C)	CHARACTER	8	HDBJNAME	Job name
116	(74)	SIGNED	4	HDBJBNUM	Job number
120	(78)	BITSTRING	8	HDBKEY(0)	Record verification key
120	(78)	SIGNED	4	HDBJBKEY	Job key
124	(7C)	SIGNED	4	HDBDSKEY	Dataset key
124	(7C)	X'18'	0	HDBSPLNG	"*-HDBID"
128	(80)	SIGNED	4	HDBNXTRK	HASP DATA BLOCK CHAIN TRACK
132	(84)	SIGNED	4		Reserved
132	(84)	X'88'	0	HDBSTART	"*" HASP DATA BLOCK START

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		BSC TP buffer fields			
104	(68)	DBL WORD	8	IOBCCW5	CHANNEL COMMAND WORD 5
112	(70)	DBL WORD	8	IOBCCW6	CHANNEL COMMAND WORD 6
120	(78)	DBL WORD	8	IOBCCW7	CHANNEL COMMAND WORD 7
128	(80)	DBL WORD	8	IOBCCW8	CHANNEL COMMAND WORD 8
128	(80)	X'70'	0	BUFIOBSZ	"*-BUFIOBST" IOB LENGTH
136	(88)	SIGNED	4	TPBUFST(0)	START OF REMOTE BUFFER WORK SPACE
136	(88)	X'F78'	0	$MAXTPBS	"(4096+7-(TPBUFST-BFPDSECT))/8*8" Max bisynch buffer size
136	(88)	X'7F00'	0	$SNABFMX	"(32768-256)" Max SNA buffer size
		SPOOL OFFLOAD BUFFER FORMAT. THE FIELD SPBSTART MUST ALWAYS BE X'36' BYTES INTO THE BUFFER TO ENSURE A CONSISTENT AMOUNT OF DATA IS BEING READ OR WRITTEN.			
24	(18)	SIGNED	4	SPBCHAN2	SECONDARY BUFFER CHAIN FIELD
28	(1C)	SIGNED	4	SPBFDATA	POINTER TO NEXT RECORD
32	(20)	SIGNED	2	SPBRECNT	SPOOL TRANSFER BUFFER REC CNT
34	(22)	BITSTRING	1	SPBFLAG1	SPOOL OFFLOAD BUFFER FLAGS
54	(36)	BITSTRING	1	SPBSTART(0)	START OF DATA SECTION OF BUFFER

Table 32. Structure SPBRECD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPBRECD	, START OF LOGICAL RECORD
0	(0)	BITSTRING	1	SPBRCB	RECORD RCB
1	(1)	BITSTRING	1	SPBSRCB	RECORD SRCB
2	(2)	BITSTRING	1	SPBTYPE	RECORD TYPE
3	(3)	BITSTRING	2	SPBDLEN	RECORD LENGTH FOR DATA RECORD
5	(5)	BITSTRING	1	SPBRDATA(0)	START OF DATA PORTION OF RECORD
5	(5)	X'0'	0	SPBHDR	"SPBRCB,*-SPBRCB" DISPL AND LENGTH OF RECORD HDR
5	(5)	X'3'	0	SPBEOFID	"SPBDLEN" EOF TYPE FOR EOF RECORD
		SPBTYPE DEFINITIONS			
5	(5)	X'1'	0	SPBTYPD	"1" TYPE IS DATA RECORD
5	(5)	X'2'	0	SPBTYPEF	"2" TYPE IS EOF RECORD
5	(5)	X'3'	0	SPBTYPEB	"3" TYPE IS END OF BUFFER RECORD
		SPBEOFID DEFINITIONS			
5	(5)	X'1'	0	SPBEOFOK	"1" NORMAL EOF REACHED
5	(5)	X'2'	0	SPBEOFAB	"2" ABNORMAL EOF REACHED
		SPBFLAG1 DEFINITIONS			
		1...		SPBSYNAD	"B'10000000'" PERM I/O ERROR HAS OCCURED
		.1..		SPBEODAD	"B'01000000'" END OF DATA HAS OCCURED
		..1.		SPBSKIP	"B'00100000'" BUFFER IS TO BE SKIPPED

Table 33. Structure BFD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BFD	Start of HAM buffer prefix
0	(0)	CHARACTER	4	BFDID	Buffer identifier
4	(4)	SIGNED	4	BFDBAT	Address of auxiliary buffer
8	(8)	ADDRESS	4	BFDCHAIN	Buffer chain field
12	(C)	BITSTRING	1	BFDTYPE	Buffer type (see BUFTYPE)
13	(D)	BITSTRING	1	BFDMIGT	Migration transition count captured from DAS when I/O is queued
14	(E)	SIGNED	2	BFDLEN	Length remaining in buffer
16	(10)	DBL WORD	8	(0)	Alignment for BFDCCWS
16	(10)	BITSTRING	56	BFDCCWS	CCWs for write processing
16	(10)	CHARACTER	8	BFDFSRBA	First seg spanned RBA addr
24	(18)	SIGNED	4	BFDSPNRG(4)	Suspended GET R2-R5
40	(28)	SIGNED	4	BFDSPNR9	R9 and
44	(2C)	SIGNED	4	BFDSPNRC	R12 save area
48	(30)	ADDRESS	4	BFDSCDR	SPOOL data record in UBF (indexed DS GET)
52	(34)	BITSTRING	7	BFDSCDWK	SCDR work area (part of BUFMEMD1)
59	(3B)	BITSTRING	1	BFDCCWRK	Carriage control work area
60	(3C)	BITSTRING	1	BFDFLAG3	More flags: (also part of BUFMEMD1)
		1...		BFD3RDYR	"B'10000000'" record with result of sym substitution is in a substitution buffer in SDBYSUBF
		.1..		BFD1ULOC	"B'01000000'" Use BFDLOC in UBUF in GET (/ ROUTE XEQ case)
64	(40)	SIGNED	8	BFDCRECN	Current record number (also BUFMEMW1/ BUFMEMW2)
72	(48)	ADDRESS	4	BFDSDB	In HAM, addr of owning SDB
72	(48)	X'48'	0	BFDPCE	"BFDSDB,4,C'A'" In HAM, addr of owning PCE
76	(4C)	BITSTRING	1	BFDECBCC(0)	I/O completion code
76	(4C)	SIGNED	4	BFDECB	ECB on which to wait (also BUFMEMW4)
80	(50)	BITSTRING	1	BFDFLAG1	Flag byte 1 (also BUFMEMF1)
		1...		BFD1EOB	"B'10000000'" END-OF-BUFFER indicator
		.1..		BFD1PUAC	"B'01000000'" PUT update active
		..1.		BFD1MQTR	"B'00100000'" BFDTRK contains an MQTR
		...1		BFD1ENDR	"B'00010000'" ENDREQ created buffer
		.... 1...		BFD1RSKP	"B'00001000'" Records skipped due to I/O error on GET
BFDFLAG1 flags, for internal reader only					
		.... 1...		BFD1IEOF	"B'00001000'" PUT request for EOF
		.... .1..		BFD1IDEL	"B'00000100'" PUT req for DEL or PURGE
		.... ..1.		BFD1IERQ	"B'00000010'" ENDREQ request
		1		BFD1ICLS	"B'00000001'" CLOSE request
81	(51)	BITSTRING	1	BFDFLAG2	Flag byte 2 (also IOTFLAG5, BUFMEMF2)
		1...		BFD2CSDB	"B'10000000'" Buffer queue for HAM PUT
		.1..		BFD2CSFR	"B'01000000'" HAM PUT should free bfr

Table 33. Structure BFD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		BFD2RPBF	"B'00100000'" Try again to fill PBF
		...1		BFD2IOE	"B'00010000'" I/O error encountered
		.... 1...		BFD2PCE	"B'00001000'" PCE owns I/O
		.... .1..		BFD2SRBF	"B'00000100'" SRB failed to obtain bfr
		.... ..1.		BFD2MGSK	"B'00000010'" Skip migration processing
		1		BFD2SOVR	"B'00000001'" Source override - use source DAS for I/O
	BFDTRK/BFDTRKQ use BUFMEMF3/BUFMEMF4/BUFMEMW5				
82	(52)	BITSTRING	4	BFDTRK(0)	Track address of buffer
82	(52)	BITSTRING	6	BFDTRKQ	MQTR address of buffer
	BFDRBA uses BUFMEMW6/BUFMEMW7				
88	(58)	DBL WORD	8	(0)	Alignment for BFDRBA
88	(58)	CHARACTER	8	BFDRBA	Relative block address
96	(60)	ADDRESS	4	BFDTCB	TCB address for FREEMAIN
100	(64)	ADDRESS	4	BFDLOC	Current location in buffer
104	(68)	DBL WORD	8	BFDSTART(0)	Start of data in buffer
	Fields only used for substitution buffer (TYPE=SUBST).				
104	(68)	SIGNED	4	BFDYSLEN	Allocated buffer size
108	(6C)	CHARACTER	20	BFDYSRCN	Left adjusted printable record number (logging)
128	(80)	SIGNED	4	BFDYSRNL	Length of rec number
132	(84)	CHARACTER	12	BFDYSTRN	Printable truncate position (used for logging)
144	(90)	BITSTRING	1	BFDYSPRM(0)	Substitution service parameter list
144	(90)	BITSTRING	1	(0)	End of SUBST fields
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	X'1000'	0	BFDSIZE	"4096" Length of data set buffer
144	(90)	X'798'	0	$MINBFSZ	"(2048+7-(BUFSTART-BFPDSECT))/8*8" Min HASP buffer size
144	(90)	X'F98'	0	$MAXBFSZ	"(4096+7-(BUFSTART-BFPDSECT))/8*8" Max HASP buffer size

Table 34. Structure SCDREC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDREC	
0	(0)	ADDRESS	1	SCDLEN	Length of record
1	(1)	BITSTRING	6	SCDSTCKE	STCKE of PUT
1	(1)	X'7'	0	SCDTSLEN	"*-SCDREC" Length of PUT timestamp

Table 35. Cross Reference for $BUFFER

Name	Offset	Hex Tag
$MAXBFSZ	90	F98
$MAXTPBS	88	F78
$MINBFSZ	90	798
$SNABFMX	88	7F00
BFD	0	
BFDBAT	4	
BFDCCWRK	3B	
BFDCCWS	10	
BFDCHAIN	8	
BFDCRECN	40	
BFDECB	4C	
BFDECBCC	4C	
BFDFLAG1	50	
BFDFLAG2	51	
BFDFLAG3	3C	
BFDFSRBA	10	
BFDID	0	
BFDLEN	E	
BFDLOC	64	
BFDMIGT	D	
BFDPCE	48	48
BFDRBA	58	
BFDSCDR	30	
BFDSCDWK	34	
BFDSDB	48	
BFDSIZE	90	1000
BFDSPNRC	2C	
BFDSPNRG	18	
BFDSPNR9	28	
BFDSTART	68	
BFDTCB	60	
BFDTRK	52	
BFDTRKQ	52	
BFDTYPE	C	
BFDYSLEN	68	
BFDYSPRM	90	
BFDYSRCN	6C	
BFDYSRNL	80	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
BFDYSTRN	84	
BFD1ENDR	50	10
BFD1EOB	50	80
BFD1ICLS	50	1
BFD1IDEL	50	4
BFD1IEOF	50	8
BFD1IERQ	50	2
BFD1MQTR	50	20
BFD1PUAC	50	40
BFD1RSKP	50	8
BFD1ULOC	3C	40
BFD2CSDB	51	80
BFD2CSFR	51	40
BFD2IOE	51	10
BFD2MGSK	51	2
BFD2PCE	51	8
BFD2RPBF	51	20
BFD2SOVR	51	1
BFD2SRBF	51	4
BFD3RDYR	3C	80
BFPBAT	4	
BFPDCT	10	
BFPDSECT	0	
BFPEWF	14	
BFPID	0	
BFPLEN	14	18
BFPSWEL	4	4
BFPTHMGR	E	80
BPMTBSC	C	1
BPMTCB	C	2
BPMTHAM	C	7
BPMTHASP	C	3
BPMTPAGE	C	4
BPMTPP	C	5
BPMTUSCB	C	FF
BPMTVTAM	C	6
BUFBPMT	C	7
BUFBSC	C	21
BUFCB	C	22
BUFCCFCB	D	1
BUFCHAIN	8	
BUFCHECB	44	
BUFCHEQ	44	
BUFCHNCT	42	
BUFCHOFF	41	
BUFDECB	C	8

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
BUFECBCC	D	
BUFFIX	C	80
BUFFLAG1	E	
BUFHASP	C	23
BUFIOB	C	20
BUFIOBST	18	
BUFIOBSZ	80	70
BUFLOCAL	C	0
BUFMEM	64	38
BUFMEMD1	38	
BUFMEMF1	50	
BUFMEMF2	51	
BUFMEMF3	52	
BUFMEMF4	53	
BUFMEMW1	40	
BUFMEMW2	44	
BUFMEMW3	48	
BUFMEMW4	4C	
BUFMEMW5	54	
BUFMEMW6	58	
BUFMEMW7	5C	
BUFMFLG1	50	50
BUFMIGTC	F	
BUFMULT	C	40
BUFM1CKP	50	80
BUFM1CK2	50	40
BUFPAGE	C	24
BUFPP	C	25
BUFRPL	C	10
BUFSJIOB	60	
BUFSPXFR	C	C
BUFSTART	68	
BUFTYPE	C	
BUFVTAM	C	16
BUFWRTBK	64	
BUF1CHEN	E	8
BUF1DASD	E	4
BUF1EXVR	E	40
BUF1MIGO	E	1
BUF1PERM	E	10
BUF1REDO	E	2
BUF1SINT	E	20
BUF1WIN	E	40
HDBDSKEY	7C	
HDBID	68	
HDBJBKEY	78	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
HDBJBNUM	74	
HDBJNAME	6C	
HDBKEY	78	
HDBNXTRK	80	
HDBSPLNG	7C	18
HDBSTART	84	88
IOBCCW1	48	
IOBCCW2	50	
IOBCCW3	58	
IOBCCW4	60	
IOBCCW5	68	
IOBCCW6	70	
IOBCCW7	78	
IOBCCW8	80	
IOBECBSV	18	2D
IOBXTENT	18	30
LCBACK	41	
LCBMCB	40	
LCBRCB	42	
PPBCBOFF	5C	
PPBCCWNX	4C	
PPBCMQTR	54	
PPBCRCB	5A	
PPBDISPL	66	
PPBFLAG1	40	40
PPBLVCCC	3C	
PPBLVCCN	50	
PPBNBOFF	65	
PPBNMQTR	5D	
PPBNRCB	63	
PPBPCIE	48	
SCDLEN	0	
SCDREC	0	
SCDSTCKE	1	
SCDTSLEN	1	7
SPBCHAN2	18	
SPBDLEN	3	
SPBEODAD	5	40
SPBEOFAB	5	2
SPBEOFID	5	3
SPBEOFOK	5	1
SPBFDATA	1C	
SPBFLAG1	22	
SPBHDR	5	0
SPBRCB	0	
SPBRDATA	5	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
SPBRECD	0	
SPBRECNT	20	
SPBSKIP	5	20
SPBSRCB	1	
SPBSTART	36	
SPBSYNAD	5	80
SPBTYPD	5	1
SPBTYPE	2	
SPBTYPEB	5	3
SPBTYPEF	5	2
TPBFDATA	3C	
TPBLCCAD	18	30
TPBLCCC	18	30
TPBMXREC	18	2C
TPBRECNT	3C	
TPBUFST	88	

$CADDR information

$CADDR heading information

Common name: Common storage address table

Macro ID: $CADDR

DSECT name: CADDR

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CADD'
Offset: CADDRID-CADDR
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage can be either above or below the 16M line, in common storage.

Size: See the CADDRLEN equate.

Created by: The CADDR is created during JES2 initialization, when JES2 common storage code modules are loaded.

Pointed to by: CCTCADDR field of the $HCCT data area

Serialization: The CADDR should be considered as read-only once the initialization processing that builds it completes.

Function: The CADDR contains the addresses of all JES2 common storage service routines to which access is required from multiple assembly modules or installation exits. This table may be used by $CALL to locate routines residing in common storage in the JES2 address space. $CALL uses this table to find either the address or PC number for the called routine.
JES2 service routine addresses are normally defined using the $ENTRY macro (common storage service routine addresses MUST be defined using $ENTRY). When $ENTRY is used in base IBM JES2 product modules which are assembled using the USER assembly environment, it builds information about the entry point in the module. The information is then used during JES2 initialization to resolve the routine's address to the appropriate CADDR field.

$CADDR mapping

Table 36. Structure CADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CADDR	, JES2 Common storage routine ADDRess table dsect
0	(0)	CHARACTER	4	CADDRID	CADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	CADDRVSN	VERSION NUMBER FIELD
4	(4)	X'7'	0	CADDRVNM	"7" Current version number
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Fields from CADDREQS through CADDREQE are resolved from the MTEs ($ENTRY information) in IBM JES2 product modules loaded to common storage. They must all be either non-zero or defined in an exception table after that resolution.					
8	(8)	ADDRESS	4	CADDREQS(0)	Start of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
MODULE HASCARMS ROUTINES LISTED ALPHABETICALLY					
8	(8)	ADDRESS	4	C@CPJAFF	Set local affinity
12	(C)	ADDRESS	4	C@CPJCLINI	Initialize PJCL queue
16	(10)	ADDRESS	4	C@CPJCLTRM	Terminate PJCL queue
MODULE HASCARSO ROUTINES LISTED ALPHABETICALLY					
20	(14)	ADDRESS	4	C@ARMEOJ	Notify ARM of end of job
MODULE HASCBLDM ROUTINES LISTED ALPHABETICALLY					
24	(18)	ADDRESS	4	C@$MSGDISR	$BLDMSG default display rtn
28	(1C)	ADDRESS	4	C@$MSGSCAN	$BLDMSG service routine
32	(20)	ADDRESS	4	C@$REPLY	$REPLY service routine
36	(24)	ADDRESS	4	C@PREJOBNM	Display current jobname
40	(28)	ADDRESS	4	C@PREREPGC	Display record/page count in HASP150 routine
Module HASCCNVS routines listed alphabetically					
44	(2C)	ADDRESS	4	C@CALLCI	Convert and interpret a job
48	(30)	ADDRESS	4	C@CNVCLNUP	C/I subtask cleanup routine
52	(34)	ADDRESS	4	C@CNVSETUP	C/I subtask setup routine
56	(38)	ADDRESS	4	C@COPNPROC	PROCLIB OPEN/CLOSE routine
60	(3C)	ADDRESS	4	C@JCISUB	C/I subtask in C/I addrspac
64	(40)	ADDRESS	4	C@PROCALCS	Subtask PROCLIB allocation
68	(44)	ADDRESS	4	C@XCNRECOV	General CNVS subtask recov
72	(48)	ADDRESS	4	C@XINTKEY	Locate internal text string
76	(4C)	ADDRESS	4	C@XJDTKEY	Locate internal text string (JDT keyword)
Module HASCDAU Routines Listed Alphabetically					
80	(50)	ADDRESS	4	C@$ALLDAU	Allocate daughter IOT
84	(54)	ADDRESS	4	C@$UALDAU	Unallocate daughter IOT

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MODULE HASCDSAL ROUTINES LISTED ALPHABETICALLY					
88	(58)	ADDRESS	4	C@$DSCTBLD	Fill in DSCT
92	(5C)	ADDRESS	4	C@$PDBBLD	GET A PDDB SLOT ROUTINE
96	(60)	ADDRESS	4	C@$PDBDEFS	Default some PDDB fields
100	(64)	ADDRESS	4	C@HALFDSNR	Find data set name
104	(68)	ADDRESS	4	C@HALOMERG	Find MERGE=YES SWB
108	(6C)	ADDRESS	4	C@HALOPDBI	FINISH SYSOUT PDDB INIT
112	(70)	ADDRESS	4	C@HALR	Internal reader allocate
116	(74)	ADDRESS	4	C@HALRDCAT	Read data set catalog
120	(78)	ADDRESS	4	C@HALUNAL	UNALLOCATE A DATASET ROUTINE
124	(7C)	ADDRESS	4	C@HIOTSPIN	SPIN THE ARGUMENT IOT
128	(80)	ADDRESS	4	C@HNDUPDTE	Update SWB NOTIFY keyword
132	(84)	ADDRESS	4	C@HNOTIFY	Determine nodes/userids for notify msg
136	(88)	ADDRESS	4	C@HBSRBLDL	Rebuild syslog chain
140	(8C)	ADDRESS	4	C@JESLOGC	JESLOG conversion routine
MODULE HASCDSOC ROUTINES LISTED ALPHABETICALLY					
144	(90)	ADDRESS	4	C@DSOPEN	DATA SET OPEN ROUTINE
148	(94)	ADDRESS	4	C@HFEXFSPC	SPC Finalization
152	(98)	ADDRESS	4	C@HFEXJESL	Extend JESLOG data set
156	(9C)	ADDRESS	4	C@HFEXSDET	JESLOG/Spin-any Spin determination
160	(A0)	ADDRESS	4	C@HFEXSPIN	Spin JESLOG/Spin-any D S
164	(A4)	ADDRESS	4	C@HFOPSUB	ACB FAKE OPEN ROUTINE
168	(A8)	ADDRESS	4	C@HOCSETUP	RESTART/OPEN/CLOSE SETUP ROUTINE
172	(AC)	ADDRESS	4	C@SSVCLSC	CONVERTER FAKE CLOSE
176	(B0)	ADDRESS	4	C@SSVOPNC	CONVERTER FAKE OPEN
MODULE HASCDSS ENTRY POINT.					
180	(B4)	ADDRESS	4	C@$ALESERV	ALET management service
184	(B8)	ADDRESS	4	C@DSPSERV	Data space service entry
Module HASCEDS routines listed alphabetically					
188	(BC)	ADDRESS	4	C@EDSCBCR	Create EDSCB
192	(C0)	ADDRESS	4	C@EDSCBDL	Delete EDSCB
196	(C4)	ADDRESS	4	C@EDSCRT	Create EDS address space
200	(C8)	ADDRESS	4	C@EDSDLT	Delete EDS address space
204	(CC)	ADDRESS	4	C@EDSKILL	Kill EDS address space
208	(D0)	ADDRESS	4	C@PREEMFRG	Display email for HASP1528
212	(D4)	ADDRESS	4	C@PREHTERR	Display Toolkit error
216	(D8)	ADDRESS	4	C@PREURI	Display server URI
220	(DC)	ADDRESS	4	C@PREZFERR	Display z/OSMF error
Module HASCENF routines and tokens listed alphabetically.					

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	ADDRESS	4	C@ENFISSUE	ENF issue service
228	(E4)	ADDRESS	4	K@ENF58CDC	Copy ENF 58 info to CDCT
232	(E8)	ADDRESS	4	K@ENF70CDC	Copy ENF 70 info to CDCT
		The list of ENF routines must be contiguous and the routines must appear in the same order as the ENFREQ LISTENs appear in the $CSVLIST macro.			
236	(EC)	ADDRESS	4	CADDRENFBEG(0)	Start of ENF entries
236	(EC)	ADDRESS	4	CADDR@ENF35	Code 35 - CF structure
240	(F0)	ADDRESS	4	CADDR#ENF35	status change
244	(F4)	ADDRESS	4	CADDR@ENF41GL	Code 41 - VARY WLM,POLICY=
248	(F8)	ADDRESS	4	CADDR#ENF41GL	in goal mode done
252	(FC)	ADDRESS	4	CADDR@ENF41CP	Code 41 - VARY WLM,POLICY=
256	(100)	ADDRESS	4	CADDR#ENF41CP	in compatibality mode done
260	(104)	ADDRESS	4	CADDR@ENF42	Code 42 - MODIFY WLM,
264	(108)	ADDRESS	4	CADDR#ENF42	MODE=GOAL done
268	(10C)	ADDRESS	4	CADDR@ENF46	Code 46 - OMVS active
272	(110)	ADDRESS	4	CADDR#ENF46	or inactive
276	(114)	ADDRESS	4	CADDR@ENF51	Code 51 - GRS local ENQ
280	(118)	ADDRESS	4	CADDR#ENF51	contention
284	(11C)	ADDRESS	4	CADDR@ENF53	Code 53 - local time
288	(120)	ADDRESS	4	CADDR#ENF53	offset change
292	(124)	ADDRESS	4	CADDR@ENF56	Code 56 - RESET job
296	(128)	ADDRESS	4	CADDR#ENF56	command issued
300	(12C)	ADDRESS	4	CADDR@ENF57CM	Code 57 - MODIFY WLM,
304	(130)	ADDRESS	4	CADDR#ENF57CM	RESOURCE command issued
308	(134)	ADDRESS	4	CADDR@ENF57RV	Code 57 - Scheduling chg
312	(138)	ADDRESS	4	CADDR#ENF57RV	due to WLM recovery
316	(13C)	ADDRESS	4	CADDR@ENF58NR	Code 58 - ENF for data set
320	(140)	ADDRESS	4	CADDR#ENF58NR	event
324	(144)	ADDRESS	4	CADDR@ENF62RL	Code 62 - RACF RACLIST
328	(148)	ADDRESS	4	CADDR#ENF62RL	class change
332	(14C)	ADDRESS	4	CADDR@ENF62RF	Code 62 - RACF RACLIST
336	(150)	ADDRESS	4	CADDR#ENF62RF	REFRESH class change
340	(154)	ADDRESS	4	CADDR@ENF62NR	Code 62 - RACF NORACLIST
344	(158)	ADDRESS	4	CADDR#ENF62NR	class change
348	(15C)	ADDRESS	4	CADDR@ENF70NR	Code 70 - JES job change
352	(160)	ADDRESS	4	CADDR#ENF70NR	event
356	(164)	ADDRESS	4	CADDR@ENF83LS	Code 83 - z/OSMF
360	(168)	ADDRESS	4	CADDR#ENF83LS	event
360	(168)	X'10'	0	CADDRENFNUM	"(*-CADDRENFBEG)/8" Number of ENF entries
		MODULE HASCGGKY ROUTINES LISTED ALPHABETICALLY			
364	(16C)	ADDRESS	4	C@$GKGET	Get grouping keys
368	(170)	ADDRESS	4	C@$GKINIT	Initialize grouping keys

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	ADDRESS	4	C@$GKTERM	Terminate grouping keys
MODULE HASCGGST ROUTINES LISTED ALPHABETICALLY					
376	(178)	ADDRESS	4	C@$GASSIGN	Assign grouping token
380	(17C)	ADDRESS	4	C@$GSINIT	Initialize grouping strings
384	(180)	ADDRESS	4	C@$GSTERM	Terminate grouping strings
Module HASCHAM routines listed alphabetically					
388	(184)	ADDRESS	4	CADDR@HAMAVT	HAM appendage vector table, not for $CALL, data only
392	(188)	ADDRESS	4	C@HAMNULL	'Null' acsmeth interface
396	(18C)	ADDRESS	4	C@HAMPSTER	HAM Post Exit routine
400	(190)	ADDRESS	4	C@HASPAMI	Access method interface
404	(194)	ADDRESS	4	C@HGETCHN	Get next buffer/record
408	(198)	ADDRESS	4	C@HGETSPEC	HGETSPEC entry point
412	(19C)	ADDRESS	4	C#HGETSPEC	HGETSPEC PC number
416	(1A0)	ADDRESS	4	C@HGETSREC	HGETSPEC recovery
420	(1A4)	ADDRESS	4	K@HPOSTECB	Post a HAM ECB
Module HASCINJR routines listed alphabetically					
424	(1A8)	ADDRESS	4	C@CBOOKMRK	Create JCLIN bookmark
428	(1AC)	ADDRESS	4	C@CCLSSYSI	Common CLOSE sysin data set
432	(1B0)	ADDRESS	4	C@CEXITACT	Accounting card exit (53)
436	(1B4)	ADDRESS	4	C@CEXITCRD	RDR card exits (52 and 54)
440	(1B8)	ADDRESS	4	C@CINITJRW	Initialize new JRW
444	(1BC)	ADDRESS	4	C@CIOTCLN	Common clean up IOT service
448	(1C0)	ADDRESS	4	C@CIRDRPUT	Internal reader PUT service
452	(1C4)	ADDRESS	4	C@CJOBBLD	Common job build service
456	(1C8)	ADDRESS	4	C@CJOBVFY	Common job verification
460	(1CC)	ADDRESS	4	C@CLEANJRW	Clean storage assoc w JRW
464	(1D0)	ADDRESS	4	C@CPROCCRD	Common JCL/JECL card proc
468	(1D4)	ADDRESS	4	C@CPUT	Common JCL PUT service
472	(1D8)	ADDRESS	4	C@CSETVECT	Set routine address vector
476	(1DC)	ADDRESS	4	C@CSPLOPN	Common OPEN spool data set
480	(1E0)	ADDRESS	4	C@CXMTRTNE	Common XMIT processing rtn
484	(1E4)	ADDRESS	4	C@IRCLNUP	Internal Reader Cleanup
MODULE HASCJBST ROUTINES LISTED ALPHABETICALLY					
488	(1E8)	ADDRESS	4	C@$ASDCCLR	ASDS entry clear
492	(1EC)	ADDRESS	4	C@$ASDCUPD	ASDS entry update
496	(1F0)	ADDRESS	4	C@BLDSYSDS	Build system data sets
500	(1F4)	ADDRESS	4	C@GRPINIT	Initialize grouping strings
504	(1F8)	ADDRESS	4	C@HFJOBLOG	PLACE TITLE IN JES2 JOB LOG
508	(1FC)	ADDRESS	4	C@HFJLOGTM	Add date line to JOB LOG
512	(200)	ADDRESS	4	C@HFJDLINE	Create date line
516	(204)	ADDRESS	4	C@HJE000	COMMON JOB TERMINATION ROUTINE

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
520	(208)	ADDRESS	4	C@HJSMAKSL	MAKE A SLOT FOR A SYSTEM PDDB
524	(20C)	ADDRESS	4	C@JBFOUND	JOB SELECT SET UP ROUTINE
528	(210)	ADDRESS	4	C@JBSELECT	JOB SELECT SELECTION ROUTINE
532	(214)	ADDRESS	4	C@JOBSTATS	UPDATE JCT STATS ROUTINE
536	(218)	ADDRESS	4	C@JSOPSSDS	OPEN SUBSYSTEM DATASETS ROUTINE
540	(21C)	ADDRESS	4	C@JSREOPEN	JOB SELECT DS REOPEN RTN
544	(220)	ADDRESS	4	C@SWAREAD	SWA read/relocate service
MODULE HASCJBTR ROUTINES LISTED ALPHABETICALLY					
548	(224)	ADDRESS	4	C@$UCBINDX	Reset Attn Index in UCB
552	(228)	ADDRESS	4	C@CLEANBAT	Cleanup BATs
556	(22C)	ADDRESS	4	C@EOBLOB	Clean up BLOB
560	(230)	ADDRESS	4	C@EOTFDCON	ISSUE FSI DISCONNECT REQUEST
MODULE HASCJZDN ROUTINES LISTED ALPHABETICALLY					
564	(234)	ADDRESS	4	K@PROCJZDN	Dep Job Control request processing routine.
568	(238)	ADDRESS	4	K@JDPRWHER	WHEN=/ERROR= parser
572	(23C)	ADDRESS	4	K@JDPRRPNL	Evaluate RPN using MAXRC
MODULE HASCLINK ROUTINES LISTED ALPHABETICALLY					
576	(240)	ADDRESS	4	C@$CGETABL	$GETABLE service routine
580	(244)	ADDRESS	4	C@$CRETANY	$RETURN SERVICE ROUTINE
584	(248)	ADDRESS	4	C@$CRETRN	$RETURN SERVICE ROUTINE
588	(24C)	ADDRESS	4	C@$CSAVANY	$SAVE SERVICE ROUTINE
592	(250)	ADDRESS	4	C@$CSAVE	$SAVE SERVICE ROUTINE
596	(254)	ADDRESS	4	C@$DYNLPA	Dynamic LPA exit routine
600	(258)	ADDRESS	4	C@$ECBEXIT	ECB post processing exit
604	(25C)	ADDRESS	4	C@$ECBPOST	Post ECB from POST exit
608	(260)	ADDRESS	4	C@$FBUFRTN	Routine to free buffers with LOCAL lock held
612	(264)	ADDRESS	4	C@$FRECEL	FREE A CSA CELL
616	(268)	ADDRESS	4	C@$GETCEL	OBTAIN A CSA CELL
620	(26C)	ADDRESS	4	K@$GETHP	HIGH PRIVATE STORAGE CELLS
624	(270)	ADDRESS	4	C@$HGFMAIN	HGFMAIN GET/FREE MAIN SERVICES (REGS=SAVE/REGS=USE)
628	(274)	ADDRESS	4	K@$HGFMANK	HGFMAIN GET/FREE MAIN SERVICES (REGS=SYSTEM)
632	(278)	ADDRESS	4	C@$MLTFBUF	MULTIPLE BUFFER FREE ROUTINE
636	(27C)	ADDRESS	4	K@$MODLOC	Locate a module (MVS style)
640	(280)	ADDRESS	4	C@$MSDDUMP	Multi System Dump Routine
644	(284)	ADDRESS	4	C@$SSIAUTH	SSI authorization service
648	(288)	ADDRESS	4	C#$SSIAUTH	SSI auth PC number
652	(28C)	ADDRESS	4	C@$SSIBEGN	SSI INTERFACE BEGIN ROUTINE
656	(290)	ADDRESS	4	C@$SSIEND	SSI INTERFACE END ROUTINE
660	(294)	ADDRESS	4	C@$SYMREC	ENTRY TO $SYMREC ROUTINE
664	(298)	ADDRESS	4	C@ABNDADJ	Adjust ABEND loc for ILC

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
668	(29C)	ADDRESS	4	C@ABNDSKIP	Determine if SDUMP needed
672	(2A0)	ADDRESS	4	C@FINDMOD	Find LMT/MIT for a module containing a given address
676	(2A4)	ADDRESS	4	C@FRETRE	FREE TCB RECOVERY ELEMENT
680	(2A8)	ADDRESS	4	C@GETTRE	GET TCB RECOVERY ELEMENT
684	(2AC)	ADDRESS	4	C@FINDLMOD	Locate load module by addr
688	(2B0)	ADDRESS	4	C@MBSCATTN	BSC CTC Attention routine
692	(2B4)	ADDRESS	4	C@RECOVERY	SSI RECOVERY ROUTINE
696	(2B8)	ADDRESS	4	C@SSIFINE	SSI INTERFACE FINISH ROUTINE
700	(2BC)	ADDRESS	4	C@SSISESTA	SSI $ESTAE ROUTINE
704	(2C0)	ADDRESS	4	C@SSISETUP	SSI INTERFACE SETUP ROUTINE
708	(2C4)	ADDRESS	4	CADDR@CNTBITAB	TRT table for $CNTBIT macro
712	(2C8)	ADDRESS	4	CADDR@TRJNAME	Table for BAD_JOBNAME_CHAR
Module HASCNJAS entries listed alphabetically					
716	(2CC)	ADDRESS	4	C@$FRETBUF	$FRETBUF service
720	(2D0)	ADDRESS	4	C@$GETTBUF	$GETTBUF service
724	(2D4)	ADDRESS	4	C@$NSSTLOK	Obtain/Release NSST lock
728	(2D8)	ADDRESS	4	C@DELJ2SRV	Delete JES2 server addrspc
732	(2DC)	ADDRESS	4	C@GETJ2SRV	Start JES2 server addrspc
MODULE HASCNJE ROUTINES listed alphabetically					
736	(2E0)	ADDRESS	4	C@NJEFOPEN	NJE Fake Open
740	(2E4)	ADDRESS	4	C@NJEFREBF	Free NJE CB buffers
744	(2E8)	ADDRESS	4	C@NJEHBLD	NJE Header build routine
748	(2EC)	ADDRESS	4	C@NJEHDADD	Add NJE header section
752	(2F0)	ADDRESS	4	C@NJEHDEXP	Expand NJE header section
756	(2F4)	ADDRESS	4	C@NJEHDMAK	Create NJE header
760	(2F8)	ADDRESS	4	C@NJEHDRDU	NJE header read routine
764	(2FC)	ADDRESS	4	C@NJEHDREM	Delete NJE header section
768	(300)	ADDRESS	4	C@NJEHDVAL	HDR/TRL Validate routine
772	(304)	ADDRESS	4	C@NJEHDWRU	NJE header write routine
776	(308)	ADDRESS	4	C@NJEPORCV	NJE post-receive header rtn
780	(30C)	ADDRESS	4	C@NJEPRXMT	NJE pre-xmit header rtn
784	(310)	ADDRESS	4	C@NJETBLD	Build job trailer
788	(314)	ADDRESS	4	C@NJETRACE	NJE rolling trace
792	(318)	ADDRESS	4	C@HASPNACT	Entry to HASPNACT routine
796	(31C)	ADDRESS	4	C@PREMG529	MSG529 $BLDMSG TEXT prescan
800	(320)	ADDRESS	4	C@RNODEBAD	Entry to RNODEBAD routine
Module HASCNJEX entries listed alphabetically					
804	(324)	ADDRESS	4	C@NJEXARR	NJE/TCP recovery ARR
808	(328)	ADDRESS	4	C@NJEXASEA	Server early addrspc init
812	(32C)	ADDRESS	4	C@NJEXASIN	Server addrspc init
816	(330)	ADDRESS	4	C@NJEXASRQ	Server addrspc request
820	(334)	ADDRESS	4	C@NJEXASTM	Server addrspc term

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
824	(338)	ADDRESS	4	C@NJEXCREQ	Connection Request
828	(33C)	ADDRESS	4	C@NJEXIREC	Server inbound NCC/NMR
832	(340)	ADDRESS	4	C@NJEXISIN	Server inbound SYSIN
836	(344)	SIGNED	4	C#NJEXISIN	NJE/TCP inbound SYSIN PC
840	(348)	ADDRESS	4	C@NJEXISOT	Server inbound SYSOUT
844	(34C)	SIGNED	4	C#NJEXISOT	NJE/TCP inbound SYSOUT PC
848	(350)	ADDRESS	4	C@NJEXOSIN	Server outbound SYSIN
852	(354)	SIGNED	4	C#NJEXOSIN	NJE/TCP outbound SYSIN PC
856	(358)	ADDRESS	4	C@NJEXOSOT	Server outbound SYSOUT
860	(35C)	SIGNED	4	C#NJEXOSOT	NJE/TCP outbound SYSOUT PC
864	(360)	ADDRESS	4	C@NJEXSTIN	Server subtask init
868	(364)	ADDRESS	4	C@NJEXSTNM	Server subtask message
872	(368)	SIGNED	4	C#NJEXSTNM	NJE/TCP subtask message PC
876	(36C)	ADDRESS	4	C@NJEXSTRQ	Server subtask request
880	(370)	SIGNED	4	C#NJEXSTRQ	NJE/TCP subtask request PC
884	(374)	ADDRESS	4	C@NJEXSTTM	Server subtask term
888	(378)	ADDRESS	4	C@NJEXTRAC	Tracing routine
892	(37C)	SIGNED	4	C#NJEXTRAC	NJE/TCP general trace PC
Module HASCNJGP entries listed alphabetically					
896	(380)	ADDRESS	4	C@HA$CNJGP	Entry point for GP subtask
900	(384)	ADDRESS	4	C@NJGPRCOV	Recovery routine
904	(388)	ADDRESS	4	C@$CSUBIT	$SUBIT Routine
Module HASCNJJR entries listed alphabetically					
908	(38C)	ADDRESS	4	C@NJJRJOBH	Process NJE job header
912	(390)	ADDRESS	4	C@NJJRMAIN	NETSRV addrspc main line
916	(394)	ADDRESS	4	C@NJJRTERM	Job rcvr resource cleanup
920	(398)	ADDRESS	4	C@NJOBWTO	Job rcvr notify message
924	(39C)	ADDRESS	4	C@RNJEHDTR	Verify/expand job headers
Module HASCNJJT entries listed alphabetically					
928	(3A0)	ADDRESS	4	C@NJJTJOBH	Build job header
932	(3A4)	ADDRESS	4	C@NJJTJOBT	Build job trailer
936	(3A8)	ADDRESS	4	C@NJJTMAIN	NETSRV addrspc main line
940	(3AC)	ADDRESS	4	C@NJJTNTFY	Job Xmitter Notify Message
944	(3B0)	ADDRESS	4	C@NJJTTERM	Job Xmitter Cleanup rtn
948	(3B4)	ADDRESS	4	C@NJTAUTH	JESSPOOL class authorizatin
Module HASCNJRC entries listed alphabetically					
952	(3B8)	ADDRESS	4	C@NJEABSNP	Entry point for subtask
Module HASCNJRQ entries listed alphabetically					
956	(3BC)	ADDRESS	4	C@HA$CNJRQ	Entry point for subtask
960	(3C0)	ADDRESS	4	C@NJRQRCOV	Recovery routine

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
964	(3C4)	ADDRESS	4	C@NJRQENQ	Queue request to server
Module HASCNJSR entries listed alphabetically					
968	(3C8)	ADDRESS	4	C@NJSRJOBH	Process NJE job header
972	(3CC)	ADDRESS	4	C@NJSRJOBT	Process NJE job trailer
976	(3D0)	ADDRESS	4	C@NJSRMAIN	NETSRV addrspc main line
980	(3D4)	ADDRESS	4	C@NJSRNTFY	Process NJE notify message
984	(3D8)	ADDRESS	4	C@NJSRPDDB	Process dataset header
988	(3DC)	ADDRESS	4	C@NJSRSIGN	Build sign-on message
992	(3E0)	ADDRESS	4	C@NJSRTERM	SYSOUT Receiver Cleanup rtn
996	(3E4)	ADDRESS	4	C@NJSRNCOD	Encode nodename
1000	(3E8)	ADDRESS	4	C@NSRAUTH	NJE authority checking
1004	(3EC)	ADDRESS	4	C@NJSROPTB	Extract OPTB values to PDDB
MODULE HASCNJST ROUTINES listed alphabetically					
1008	(3F0)	ADDRESS	4	C@NJSTMAIN	NETSRV addrspc main line
1012	(3F4)	ADDRESS	4	C@NJSTOPTB	OPTB section subroutine
1016	(3F8)	ADDRESS	4	C@NJSTTERM	SYSOUT Xmitter Cleanup rtn
1020	(3FC)	ADDRESS	4	C@NSTAUTH	Data set authorization rtn.
1024	(400)	ADDRESS	4	C@NSTCDSH	Update dataset header
1028	(404)	ADDRESS	4	C@NSTCJBH	Update Job Header
1032	(408)	ADDRESS	4	C@NSTCJBT	Update Job Trailer
Module HASCOFST entries listed alphabetically					
1036	(40C)	ADDRESS	4	CADDR@OCOOFFST	Offset table for O C O code (data only, not $CALLable) O C O code cannot use this CADDR field, as the CADDR is not frozen.
Module HASCPCYC entries listed alphabetically					
1040	(410)	ADDRESS	4	C@PCYAPPCK	Policy apply pre-check
1044	(414)	ADDRESS	4	C@PCYAPPLY	Policy apply service
1048	(418)	ADDRESS	4	C@PCYEXPR	Policy expression parser
1052	(41C)	ADDRESS	4	C@PCYMAPPT	Map policy type
1056	(420)	ADDRESS	4	C@PCYOADDC	Add policy object to chain
1060	(424)	ADDRESS	4	K@PCYOCRT	Create policy object
1064	(428)	ADDRESS	4	K@PCYODEST	Destroy policy object
1068	(42C)	ADDRESS	4	C@PCYORMVC	Remove policy object from chain
1072	(430)	ADDRESS	4	C@PCYORPLC	Replace policy object in chain
1076	(434)	ADDRESS	4	C@PCYRPNEV	Policy RPN evaluator
1080	(438)	ADDRESS	4	K@PCYTERM	Policy termination cleanup
1084	(43C)	ADDRESS	4	CADDR@PCYACIT	Policy action implementation table
1088	(440)	ADDRESS	4	CADDR@PCYATMT	Policy attribute implementation table
Module HASCPHAM routines listed alphabetically					
1092	(444)	ADDRESS	4	C@ABEND722	Issue 722 ABEND

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1096	(448)	ADDRESS	4	C@ALCSSTB	Allocate substitution buf
1100	(44C)	ADDRESS	4	C#ALCSSTB	Allocate SST buf PC number
1104	(450)	ADDRESS	4	C@ALCSBRY	Allocate SST buf ARR rtn
1108	(454)	ADDRESS	4	C@CNIN2OUT	Convert SDB from input to output mode
1112	(458)	ADDRESS	4	C@FREPBLOK	Free protected block
1116	(45C)	ADDRESS	4	C@FRESDBLK	Unserialize the SDB
1120	(460)	ADDRESS	4	C@FRESDBL2	Unserialize the SDB with SDBIVSDB POST code
1124	(464)	ADDRESS	4	C@FRIRWDLK	Free IRWD lock
1128	(468)	ADDRESS	4	C@GETPBLOK	Obtain GET protected block
1132	(46C)	ADDRESS	4	C@GETSDBLK	Serialize the SDB
1136	(470)	ADDRESS	4	C@GETSDBL2	Get SDB lock with no WAIT
1140	(474)	ADDRESS	4	C@GTIRWDLK	Get IRWD lock
1144	(478)	ADDRESS	4	C@HINTRDR	Prot INTRDR service entry
1148	(47C)	ADDRESS	4	C#HINTRDR	Prot INTRDR PC number
1152	(480)	ADDRESS	4	C@HINTRREC	Prot INTRDR recovery rtn
1156	(484)	ADDRESS	4	C@HIOCHECK	Start HAM I/O if needed
1160	(488)	ADDRESS	4	C#HIOCHECK	Start HAM I/O PC number
1164	(48C)	ADDRESS	4	C@HIOCKRY	Start HAM I/O recovery rtn
1168	(490)	ADDRESS	4	C@HMIGTRK	Track processing during volume migration
1172	(494)	ADDRESS	4	C@HPUTFULL	Write complete HDB/IOT
1176	(498)	ADDRESS	4	C@HWAITBUF	Wait for all I/O to end
1180	(49C)	ADDRESS	4	C@LOGISST	Log symbol substitution
1184	(4A0)	ADDRESS	4	C#LOGISST	Log sym subst PC number
1188	(4A4)	ADDRESS	4	C@LOGSTRY	Log sym subst recovery rtn
1192	(4A8)	ADDRESS	4	C@OBTGBAT	Obtain BAT for GET request
1196	(4AC)	ADDRESS	4	C@PROTENDR	Protected Endreq entry pt
1200	(4B0)	ADDRESS	4	C#PROTENDR	Protected Endreq PC number
1204	(4B4)	ADDRESS	4	C@PRENRREC	Protected Endreq recov rtn
1208	(4B8)	ADDRESS	4	C@PROTGET	Protected Get entry point
1212	(4BC)	ADDRESS	4	C#PROTGET	Protected Get PC number
1216	(4C0)	ADDRESS	4	C@PRGETREC	Protected Get recovery rtn
1220	(4C4)	ADDRESS	4	C@PROTPUT	Protected Put entry point
1224	(4C8)	ADDRESS	4	C#PROTPUT	Protected Put PC number
1228	(4CC)	ADDRESS	4	C@PRPUTREC	Protected Put recovery rtn
1232	(4D0)	ADDRESS	4	C@PROTPNT	Protected Point entry point
1236	(4D4)	ADDRESS	4	C#PROTPNT	Protected Point PC number
1240	(4D8)	ADDRESS	4	C@PRPNTREC	Protected Point recovery rt
1244	(4DC)	ADDRESS	4	C@PROTSRB	Protected Get SRB entry pnt
1248	(4E0)	ADDRESS	4	C#PROTSRB	Protected Get SRB PC number
1252	(4E4)	ADDRESS	4	C@PRSRBREC	Protected SRB recovery rtn
1256	(4E8)	ADDRESS	4	C@RELGBAT	Release BAT for GET request
1260	(4EC)	ADDRESS	4	C@SVCADDCT	Add packed decimal
1264	(4F0)	ADDRESS	4	C@SVCADPCT	Add packed decimal to packed decimal (PHAM)

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1268	(4F4)	ADDRESS	4	C@UPDDSCA	Update current DSCA pointer
MODULE HASCPOOL ROUTINES LISTED ALPHABETICALLY					
1272	(4F8)	ADDRESS	4	C@CPBUILD	CPool build entry point
1276	(4FC)	ADDRESS	4	C#CPBUILD	CPool build PC number
1280	(500)	ADDRESS	4	C@CPBREC	CPool build recovery rtn
1284	(504)	ADDRESS	4	C@CPCONTRA	CPool contract service
1288	(508)	ADDRESS	4	C#CPCONTRA	CPool contract PC number
1292	(50C)	ADDRESS	4	C@CPCREC	CPool contract recovery rtn
1296	(510)	ADDRESS	4	C@CPDELETE	CPool delete entry point
1300	(514)	ADDRESS	4	C#CPDELETE	CPool delete PC number
1304	(518)	ADDRESS	4	C@CPDREC	CPool delete recovery rtn
1308	(51C)	ADDRESS	4	C@CPEXPAND	CPool expand entry point
1312	(520)	ADDRESS	4	C#CPEXPAND	CPool expand PC number
1316	(524)	ADDRESS	4	C@CPXREC	CPool expand recovery rtn
1320	(528)	ADDRESS	4	C@CPFREE	CPool free entry point
1324	(52C)	ADDRESS	4	C#CPFREE	CPool free PC number
1328	(530)	ADDRESS	4	C@CPFREC	CPool free recovery rtn
1332	(534)	ADDRESS	4	C@CPGET	CPool get entry point
1336	(538)	ADDRESS	4	C#CPGET	CPool get PC number
1340	(53C)	ADDRESS	4	C@CPGREC	CPool get recovery rtn
1344	(540)	ADDRESS	4	C@CPINIT	CPool initialization
1348	(544)	ADDRESS	4	C@CPMODIFY	CPool modify entry point
1352	(548)	ADDRESS	4	C#CPMODIFY	CPool modify PC number
1356	(54C)	ADDRESS	4	C@CPMREC	CPool modify recovery rtn
1360	(550)	ADDRESS	4	C@CPQCELL	CPool query cell entry pt
1364	(554)	ADDRESS	4	C#CPQCELL	CPool query call PC number
1368	(558)	ADDRESS	4	C@CPQCREC	CPool query cell recovery
1372	(55C)	ADDRESS	4	C@CPQEXT	CPool query extent entry pt
1376	(560)	ADDRESS	4	C#CPQEXT	CPool query extent PC numb
1380	(564)	ADDRESS	4	C@CPQXREC	CPool query extent recovery
1384	(568)	ADDRESS	4	C@CPQPOOL	CPool query pool entry pt
1388	(56C)	ADDRESS	4	C#CPQPOOL	CPool query pool PC number
1392	(570)	ADDRESS	4	C@CPQPREC	CPool query pool recovery
1396	(574)	ADDRESS	4	C@CPTERM	CPool termination
1400	(578)	ADDRESS	4	CADDR@CPLTABS	CPool table of JES2 pools, not for $CALL, data only
MODULE HASCQUEU ROUTINES LISTED ALPHABETICALLY					
1404	(57C)	ADDRESS	4	K@AVLINST	AVL tree - insert
1408	(580)	ADDRESS	4	K@AVLTRVS	AVL tree traversal
1412	(584)	ADDRESS	4	K@AVLDELET	AVL tree - delete
MODULE HASCRQUE ROUTINES LISTED ALPHABETICALLY					
1416	(588)	ADDRESS	4	C@$RQUEACT	Activate service
1420	(58C)	ADDRESS	4	C@$RQUECMP	Wait for completion

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1424	(590)	ADDRESS	4	C@$RQUEDEA	Deactivate service
1428	(594)	ADDRESS	4	C@$RQUEDEQ	Dequeue MTRB service
1432	(598)	ADDRESS	4	C@$RQUEEXE	Execute request
1436	(59C)	ADDRESS	4	C@$RQUEGET	Get request
1440	(5A0)	ADDRESS	4	C@$RQUERET	Return request
Module HASCSAPI Routines listed alphabetically					
1444	(5A4)	ADDRESS	4	C@CSPEOX	Scan SAPIDs for terminating TCB or memory
Module HASCSCAN Routines listed alphabetically					
1448	(5A8)	ADDRESS	4	C@$SCAN	$SCAN main routine
1452	(5AC)	ADDRESS	4	C@$SCANB	$SCANB service routine
1456	(5B0)	ADDRESS	4	C@$SCANCOM	$SCANCOM service routine
1460	(5B4)	ADDRESS	4	C@$SCAND	$SCAN Main routine
1464	(5B8)	ADDRESS	4	C@BACKRETN	BACKRETN Service Routine
1468	(5BC)	ADDRESS	4	C@PREDNAME	PRESCAN to display keyword
1472	(5C0)	ADDRESS	4	C@PREFILT	Prescan to apply filters
1476	(5C4)	ADDRESS	4	C@RESTORE	RESTORE Service Routine
1480	(5C8)	ADDRESS	4	C@SCANDIAG	$SCANDIA Service routine
1484	(5CC)	ADDRESS	4	C@SCNDBRNG	RESTORE Service Routine
1488	(5D0)	ADDRESS	4	CADDR@SCNDIAGT	Diagnostic message table
1492	(5D4)	ADDRESS	4	C@SCNDGRTN	RESTORE Service Routine
1496	(5D8)	ADDRESS	4	C@SCNDVVAL	RESTORE Service Routine
MODULE HASCSIJI ROUTINES LISTED ALPHABETICALLY					
1500	(5DC)	ADDRESS	4	C@DATASERV	JOB INFORMATION SERVICE
1504	(5E0)	ADDRESS	4	C@REFRDSRV	Refresh non-CKPT data
Module HASCSIJP routines listed alphabetically					
1508	(5E4)	ADDRESS	4	K@JPXIBLD	Build JESplex info array subroutine
1512	(5E8)	ADDRESS	4	C@PRIPRINI	Initiator processing entry
1516	(5EC)	ADDRESS	4	C@PRITORD	Initiator data SSI
1520	(5F0)	ADDRESS	4	C@PRJPCKP	CKPT information SSI
1524	(5F4)	ADDRESS	4	C@PRJPCLS	Job class data SSI
1528	(5F8)	ADDRESS	4	C@PRJPLEX	JESplex data SSI
1532	(5FC)	ADDRESS	4	C@PRJPNJN	NJE node SSI
1536	(600)	ADDRESS	4	C@PRJPROC	PROCLIB data SSI
1540	(604)	ADDRESS	4	C@PRJPSPL	Spool data SSI
1544	(608)	ADDRESS	4	K@PRSMIGD	Spool data SSI - Migration data subroutine
MODULE HASCSIRQ ROUTINES LISTED ALPHABETICALLY					
1548	(60C)	ADDRESS	4	C@$DESTCHK	AUTHORIZE TRANSMIT TO DEST
1552	(610)	ADDRESS	4	C@$NOTIFY	Send notify message
1556	(614)	ADDRESS	4	K@MCSFLUSH	MCS flush routine

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1560	(618)	ADDRESS	4	C@TSCNVJB	CONVERT EXT JOB ID TO JOB NUM
1564	(61C)	ADDRESS	4	K@USERDEST	VERIFY DESTINATION
1568	(620)	ADDRESS	4	C@USERSUB	USER/SUBTASK EXIT EFFECTOR
1572	(624)	ADDRESS	4	C@USRNEWND	Assign new node to dest
1576	(628)	ADDRESS	4	C@WTALOGQ	Flush S35D Joblog queue
1580	(62C)	ADDRESS	4	C@WTASRBQI	Schedule JOBLOG SRB immed
Module HASCSISC routines listed alphabetically					
1584	(630)	ADDRESS	4	K@CNVDEVID	Convert DEVID to EBCDIC
1588	(634)	ADDRESS	4	K@CRJOES	Create JOEs from PDDB
1592	(638)	ADDRESS	4	C@CVDEVID	Process device ID to name conversion
1596	(63C)	ADDRESS	4	K@ESWFREE	Free ESWORK area
1600	(640)	ADDRESS	4	K@MODJXACK	MODJOB ACK rsp msg exit rtn
1604	(644)	ADDRESS	4	C@PRJBCLD	Process job class info
1608	(648)	ADDRESS	4	C@PRLIMIT	Process LIMITS data req
1612	(64C)	ADDRESS	4	C@PRSPLIO	Process spool I/O info
Module HASCSJFA Routines Listed Alphabetically					
1616	(650)	ADDRESS	4	C@HSJFACC	MVS SJFACC Routine
Module HASCSJFS Routines Listed Alphabetically					
1620	(654)	ADDRESS	4	C@HASJFREQ	SJFREQ Service Routine
1624	(658)	ADDRESS	4	C@HASJIDST	IPADDR/DEST Process - CSJFS
1628	(65C)	ADDRESS	4	C@SFLOPDDB	Locate PDDB using CTOKEN
1632	(660)	ADDRESS	4	C@SJFSWBRD	SWB Read Service Routine
1636	(664)	ADDRESS	4	C@SWBTUMRG	SWB Merge Service Routine
1640	(668)	ADDRESS	4	C@TUXTRACT	TU extraction - HASCSJFS
Module HASCSRAX routines listed alphabetically					
1644	(66C)	ADDRESS	4	C@GETJ2AUX	Access aux address space
1648	(670)	ADDRESS	4	C@DELJ2AUX	Delete aux address space
1652	(674)	ADDRESS	4	C@SRXEMSG	Issue error message for JES2AUX subtasks
1656	(678)	ADDRESS	4	K@ZGLLMSG	Log message for a jobgroup
Module HASCSRCI routines listed alphabetically					
1660	(67C)	ADDRESS	4	C@CMNFCICB	Free CICB data area
1664	(680)	ADDRESS	4	C@CMNINIT	JES2 C/I address space init
1668	(684)	ADDRESS	4	C@CMNPPROC	Mange C/I addrspac PROCLIBs
1672	(688)	ADDRESS	4	C@CMNPSUBT	Mange JES2 C/I subtask
1676	(68C)	ADDRESS	4	C@DELJ2CI	Delete C/I subtask/AS
1680	(690)	ADDRESS	4	C@GETJ2CI	Create C/I subtask/AS
1684	(694)	ADDRESS	4	C@J2CIREC	JES2 C/I main task recovery
MODULE HASCSRDS ROUTINES LISTED ALPHABETICALLY					
1688	(698)	ADDRESS	4	C@$CBIO	Control block I/O routine addr

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1692	(69C)	ADDRESS	4	C@$FNDRIOT	FIND REUSEABLE SPIN IOT
1696	(6A0)	ADDRESS	4	C@$IOTBLD	BUILD AN IOT ROUTINE
1700	(6A4)	ADDRESS	4	C@$PDBFIND	FIND A PDDB ROUTINE
1704	(6A8)	ADDRESS	4	C@$PDBNEXT	Find next PDDB same key
1708	(6AC)	ADDRESS	4	C@$SDBCHEK	Verify a SDB/DCT routine
1712	(6B0)	ADDRESS	4	C@$SDBFREE	FREE AN SDB
1716	(6B4)	ADDRESS	4	C@$SDBINIT	INITIALIZE AN SDB
1720	(6B8)	ADDRESS	4	C@$VERIFY	$VERIFY SERVICE ROUTINE ADDRESS
1724	(6BC)	ADDRESS	4	C@ASOKADD	Add ASOK for SDB
1728	(6C0)	ADDRESS	4	C@ASOKDEL	Delete ASOK for SDB
1732	(6C4)	ADDRESS	4	C@ASOKGC	Garbage collect ASOKs
1736	(6C8)	ADDRESS	4	C@DSNCMP	SYSIN/SYSOUT DATASET COMPRESS
1740	(6CC)	ADDRESS	4	C@DSNVFY	SYSIN/SYSOUT DATASET VERIFY
1744	(6D0)	ADDRESS	4	C@DSNMSRV	SYSIN/SYSOUT Dataset Name service
1748	(6D4)	ADDRESS	4	C@ENF58BLD	Build ENF58 parm lists
1752	(6D8)	ADDRESS	4	C@HALCLASS	CHECK SYSOUT CLASS FOR HOLD RTN
1756	(6DC)	ADDRESS	4	C@HALUPCAT	Update data set catalog
1760	(6E0)	ADDRESS	4	CADDR@HASPVTAB	$VERIFY control block table
1764	(6E4)	ADDRESS	4	C@HCBCK	CHECKPOINT HASP CONTROL BLOCKS
1768	(6E8)	ADDRESS	4	C@HCBFM	FREEMAIN CONTROL BLOCK STORAGE
1772	(6EC)	ADDRESS	4	C@HCBGM	GETMAIN CONTROL BLOCK STORAGE
1776	(6F0)	ADDRESS	4	C@HFCLSUB	FAKE CLOSE DATASETS
1780	(6F4)	ADDRESS	4	C@HFCLTRNC	TRUNCATE A BUFFER ROUTINE
1784	(6F8)	ADDRESS	4	C@HJSRETAB	REBUILD SDB TAB
1788	(6FC)	ADDRESS	4	C@HONEWOUT	OPEN NEW OUTPUT DATASET RTN
1792	(700)	ADDRESS	4	C@HOOLDINP	OPEN OLD INPUT DATASET RTN
1796	(704)	ADDRESS	4	C@HOOLDOUT	OPEN OLD OUTPUT DATASET RTN
1800	(708)	ADDRESS	4	C@JSMTSRV	Job symbol table service
1804	(70C)	ADDRESS	4	C@MQTRVAL	Validate MQTR routine
1808	(710)	ADDRESS	4	C@MQTR0VAL	Validate MQTR (R = 0 OK)
1812	(714)	ADDRESS	4	C@MTTRVAL	VALIDATE MTTR ROUTINE
1816	(718)	ADDRESS	4	C@MTTR0VAL	Validate MTTR (R = 0 OK)
1820	(71C)	ADDRESS	4	C@OLDJOE	Old JOE
1824	(720)	ADDRESS	4	C@PDDBUPD	Update PDDB
1828	(724)	ADDRESS	4	C@PRIMEIOT	RTN Primary alloc IOT info
1832	(728)	ADDRESS	4	C@SIGIOU	Signature Rcd I/O Routine
1836	(72C)	ADDRESS	4	C@SYMTT	Generate SIGIO SYMREC rtn
1840	(730)	ADDRESS	4	C@SYSOVFY	SYSOUT validation routine
1844	(734)	ADDRESS	4	C@USENF58	User environment ENF58 rtn
MODULE HASCSRIC ROUTINES LISTED ALPHABETICALLY					
1848	(738)	ADDRESS	4	C@$$POST	POST HASP TASK
1852	(73C)	ADDRESS	4	K@$BITMAP	$BITMAP service
1856	(740)	ADDRESS	4	C@$MGIOMSG	SEND MIGRATION MESSAGE FOR BUFFER MAIN TASK I/O.

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1860	(744)	ADDRESS	4	C@$MGIOSJM	SEND MIGRATION MESSAGE FOR SJIOB MAIN TASK I/O.
1864	(748)	ADDRESS	4	C@$RACROUT	ISSUE SAF CALL
1868	(74C)	ADDRESS	4	C@$STRAK	ALLOCATE TRACK ADDRESS
1872	(750)	ADDRESS	4	C@$SVJLOK	GET JOB COM QUEUES LOCK RTN
1876	(754)	ADDRESS	4	C@$SVJLOK2	Secondary locking routine
1880	(758)	ADDRESS	4	C@$SVJTEST	TEST FOR JCQ LOCK OWNERSHIP
1884	(75C)	ADDRESS	4	C@$SVJUNLK	RELEASE JOB COM QUEUES LOCK RTN
1888	(760)	ADDRESS	4	C@$TRACER	EVENT TRACE FACILITY
1892	(764)	ADDRESS	4	C@$TRAREL	$TRACE RELEASE ENTRY POINT
1896	(768)	ADDRESS	4	C@$TRCFILT	$TRACE filter routine
1900	(76C)	ADDRESS	4	C@$VFLI	SIMULATE VFL INSTRUCTION
1904	(770)	ADDRESS	4	C@$XMPOST	CROSS MEMORY POST ROUTINE
1908	(774)	ADDRESS	4	C@$XMPOSTX	Extended cross memory post
1912	(778)	ADDRESS	4	C@BERTREAD	CSA $DOGBERT Fetch support
1916	(77C)	ADDRESS	4	C@BRTCOUNT	BERT count service
1920	(780)	ADDRESS	4	C@BRTIECNT	BERTIE count service
1924	(784)	ADDRESS	4	C@CATBFREE	Free unused $CATBERT
1928	(788)	ADDRESS	4	K@CATREAD	CSA $DOGCAT Fetch support
1932	(78C)	ADDRESS	4	C@CATTREE	CAT tree support
1936	(790)	ADDRESS	4	C@CKPTGDAT	Get checkpoint data
1940	(794)	ADDRESS	4	C@CMSFLOK	Free CMS/LOCAL lock
1944	(798)	ADDRESS	4	C@CMSGLOK	Get CMS/LOCAL lock
1948	(79C)	ADDRESS	4	K@DJBREAD	CSA $DOGDJB Fetch support
1952	(7A0)	ADDRESS	4	C@DOMCHECK	Seclabel Dominance check
1956	(7A4)	ADDRESS	4	C@FIFOBLK	FIFO Block/Release
1960	(7A8)	ADDRESS	4	C@FIFODEQ	Remove elmnt from FIFO que
1964	(7AC)	ADDRESS	4	C@FIFOENQ	Place element on FIFO queue
1968	(7B0)	ADDRESS	4	C@FIFOGTQ	Dechain entire FIFO queue
1972	(7B4)	ADDRESS	4	K@FIFOBLK8	FIFO Block/Release
1976	(7B8)	ADDRESS	4	C@FIFODEQ8	Remove elmnt from FIFO que
1980	(7BC)	ADDRESS	4	C@FIFOENQ8	Place element on FIFO queue
1984	(7C0)	ADDRESS	4	C@FIFOGTQ8	Dechain entire FIFO queue
1988	(7C4)	ADDRESS	4	K@GOFDSERV	GET/FREE DSERV addr
1992	(7C8)	ADDRESS	4	C@GRPASGN	ASSIGN GROUPING TOKEN
1996	(7CC)	ADDRESS	4	C@HCNVTIME	USED BY C/T FOR A TOD CONVERSION ROUTINE IN HASCSRIC
2000	(7D0)	ADDRESS	4	C@HKYMERGE	MERGE OUTPUT JCL KEYWORDS RTN
2004	(7D4)	ADDRESS	4	C@HOSWB	GET SWB ERROR ROUTINE
2008	(7D8)	ADDRESS	4	C@HSJFLSP	FREE SJF STORAGE ROUTINE
2012	(7DC)	ADDRESS	4	K@JOEREAD	CSA $DOGJOE Fetch support
2016	(7E0)	ADDRESS	4	K@JQEREAD	CSA $DOGJQE Fetch support
2020	(7E4)	ADDRESS	4	C@PPSOSJB	PURGE PSO FROM SJB ROUTINE
2024	(7E8)	ADDRESS	4	C@PREWTO	WTO PREPROCESSING ROUTINE
2028	(7EC)	ADDRESS	4	C@PRTAUTH	JESNEWS & SYSOUT DATA SET AUTHORIZATION

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2032	(7F0)	ADDRESS	4	C@PSQUEUE	PSO QUEUE ROUTINE
2036	(7F4)	ADDRESS	4	C@RECABORT	PSO,STATUS,CANCEL recovery
2040	(7F8)	ADDRESS	4	C@RRWTORTN	Issue chain of WTO msgs
2044	(7FC)	ADDRESS	4	C@SECLEXTR	SECLABEL extract affinity
2048	(800)	ADDRESS	4	C@SSVXDEF	EXIT DEFINITION ROUTINE
2052	(804)	ADDRESS	4	C@TBADTGBQ	Queue bad TGB to HASPSPOL
2056	(808)	ADDRESS	4	C@TOKENSR	TOKEN retrieve service
2060	(80C)	ADDRESS	4	C@TRKCELL	Track Cell allocation
2064	(810)	ADDRESS	4	C#TRKCELL	Track Cell allocation PC #
2068	(814)	ADDRESS	4	C@TRKCELLA	Track Cell allocation ARR
2072	(818)	ADDRESS	4	C@TSETLOCK	GET LOCAL AND CMS LOCKS ROUTINE
2076	(81C)	ADDRESS	4	C@TSFRELOK	FREE LOCAL AND CMS LOCKS RTN
2080	(820)	ADDRESS	4	K@WSCREAD	CSA $WSCJQE Fetch support
2084	(824)	ADDRESS	4	C@XBFPITCH	JESXCF directed PROTSRB
2088	(828)	ADDRESS	4	C@XCFXMBN	Build JESXCF member name for XSYS data rtv group
2092	(82C)	ADDRESS	4	C@XMXSRB	Extended post SRB routine
2096	(830)	ADDRESS	4	C@XMXRMTR	Extended post RMTR routine
2100	(834)	ADDRESS	4	C@XSYSINIT	Init cross system interface for data retrieval
2104	(838)	ADDRESS	4	C@XSYSTERM	Term cross system interface for data retrieval
Module HASCSRIP Routines Listed Alphabetically					
2108	(83C)	ADDRESS	4	C@$LOGMSG	JOBLOG/SYSMSGS access rtn
2112	(840)	ADDRESS	4	C@CDEFRJRW	Defer a JRW.
2116	(844)	ADDRESS	4	C@CJOBKILL	Abort job
2120	(848)	ADDRESS	4	C@CJOBEND	Job end processing
2124	(84C)	ADDRESS	4	C@CMULJEND	Job end processing
2128	(850)	ADDRESS	4	C@CMULJKIL	Abort job
2132	(854)	ADDRESS	4	C@HASPRCCS	Control Card (JECL) scan
2136	(858)	ADDRESS	4	C@HASPRDDS	Dataset services
2140	(85C)	ADDRESS	4	C@HASPRSCN	Accounting field scan rtn
2144	(860)	ADDRESS	4	C@JOBCLASV	Job class validation
2148	(864)	ADDRESS	4	C@JOBCLVAL	Job class - subtask
2152	(868)	ADDRESS	4	C@JOBVALM	Job validation
2156	(86C)	ADDRESS	4	C@RACCTSET	Parse ACCT field for SAF
2160	(870)	ADDRESS	4	C@RANLZCRD	Analyze New Card Image
2164	(874)	ADDRESS	4	C@RCARDSCN	Scan keywords on JCL/JECL
2168	(878)	ADDRESS	4	C@RDELEGRP	Delete JOBGROUP - init JRW
2172	(87C)	ADDRESS	4	C@RDELNETA	Delete area - / NET
2176	(880)	ADDRESS	4	C@RDELRJCB	Delete all queued RJCBs
2180	(884)	ADDRESS	4	C@RDELWTO	Job deleted WTO
2184	(888)	ADDRESS	4	C@REFRJRW	Refresh JRW
2188	(88C)	ADDRESS	4	C@RESTINFO	Scan keywords on JCL/JECL
2192	(890)	ADDRESS	4	C@REXTENMG	Extend msgs with FROM info

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2196	(894)	ADDRESS	4	C@RFRDEJRW	Free one/all deferred JRWs.
2200	(898)	ADDRESS	4	C@RFRERJCB	Free one/all RJCBs
2204	(89C)	ADDRESS	4	C@RGETNETA	Get area -/ NET processing
2208	(8A0)	ADDRESS	4	C@RGETRJCB	Get an RJCB
2212	(8A4)	ADDRESS	4	C@RGETSPOF	Get SPOF section
2216	(8A8)	ADDRESS	4	C@RGTDEJRW	Get a deferred JRW.
2220	(8AC)	ADDRESS	4	C@RINITGRP	Init JOBGROUP and get ZOD
2224	(8B0)	ADDRESS	4	C@RJOBDEF	Set JQE/JCT defaults
2228	(8B4)	ADDRESS	4	C@RJOBONMG	Issue ON READER message
2232	(8B8)	ADDRESS	4	C@RMSGQUE	Queue message to be issued
2236	(8BC)	ADDRESS	4	C@RNJCOMSG	NJE skipping message
2240	(8C0)	ADDRESS	4	C@RNJEONMG	NJE S&F ON READER message
2244	(8C4)	ADDRESS	4	C@RPDBBLD	Create system PDDBs
2248	(8C8)	ADDRESS	4	C@RPDBINIT	Complete system PDDBs
2252	(8CC)	ADDRESS	4	C@RPDBSEC	System PDDB init routine
2256	(8D0)	ADDRESS	4	C@RPROCGRP	Process JOBGROUP JCL stmts
2260	(8D4)	ADDRESS	4	C@RPROCJCL	Process JCL statement
2264	(8D8)	ADDRESS	4	C@RPRCRCCS	Process RCCS header
2268	(8DC)	ADDRESS	4	C@RPSTCXIT	Post exits 2,4,52,54 proc
2272	(8E0)	ADDRESS	4	C@RPSWSCAN	Scan RJCBs for passwords
2276	(8E4)	ADDRESS	4	C@RPUTSCAN	Stip PASSWORDs at PUT
MODULE HASCSRJB ROUTINES LISTED ALPHABETICALLY					
2280	(8E8)	ADDRESS	4	C@$DSELINT	Initialize a data info
2284	(8EC)	ADDRESS	4	K@$JBIDBLD	JOB ID BUILD ROUTINE
2288	(8F0)	ADDRESS	4	K@$JCORBLD	Job Correlator build rtn
2292	(8F4)	ADDRESS	4	C@$JCTINIT	Initialize a JCT
2296	(8F8)	ADDRESS	4	C@JNFYPROC	Process job NOTIFY data
2300	(8FC)	ADDRESS	4	C@$JQESERV	JQE Request service
2304	(900)	ADDRESS	4	C@M165BLD	Build HASP165 message
2308	(904)	ADDRESS	4	K@$QLOCC	Locate JQE for a job #
2312	(908)	ADDRESS	4	C@$SJBFIND	FIND AN SJB
2316	(90C)	ADDRESS	4	C@$SJBLOCK	LOCK AN SJB
2320	(910)	ADDRESS	4	C@$SJBRQ	REQUEUE AN SJB
2324	(914)	ADDRESS	4	C@$SJBUNLK	UNLOCK AN SJB
2328	(918)	ADDRESS	4	K@ARTEADD	ART Table add history entry
2332	(91C)	ADDRESS	4	K@ARTERAT	Consumption rate calc
2336	(920)	ADDRESS	4	C@AUDSAF	Audit job removal
2340	(924)	ADDRESS	4	C@ENF70BLD	Build ENF 70 parm lists
2344	(928)	ADDRESS	4	C@ENF78BLD	Build ENF 78 parm lists
2348	(92C)	ADDRESS	4	C@FREEJCT	Free JCT and related stor
2352	(930)	ADDRESS	4	C@HETSOUT	SAVES STATUS ON INTERRUPT
2356	(934)	ADDRESS	4	C@SJBFREE	FREE AN SJB
2360	(938)	ADDRESS	4	C@SJBINIT	CREATE AN SJB
2364	(93C)	ADDRESS	4	K@SJIOBINT	SJIOB initialization

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2368	(940)	ADDRESS	4	C@STEALOCK	Steal SJB/SDB lock
2372	(944)	ADDRESS	4	C@USENF70	Issue ENF 70
Module HASCSRJM routines listed alphabetically					
2376	(948)	ADDRESS	4	C@GETJ2MON	Access monitor addr space
2380	(94C)	ADDRESS	4	C@DELJ2MON	Delete monitor addr space
2384	(950)	ADDRESS	4	C@MONSSIRQ	Monitor SSI request service
Module HASCUBSR routines listed alphabetically					
2388	(954)	ADDRESS	4	C@UBSRB	Unwritten buffer SRB rtn
Module HASCXJCT routines listed alphabetically					
2392	(958)	ADDRESS	4	C@$JCTXADD	Add $JCT extension
2396	(95C)	ADDRESS	4	C@$JCTXEXP	Expand $JCT extension
2400	(960)	ADDRESS	4	C@$JCTXGET	Locate $JCT extension
2404	(964)	ADDRESS	4	C@$JCTXREM	Delete $JCT extension
MVS entry points listed alphabetically					
2408	(968)	ADDRESS	4	C@CSRC4ACT	MVS CPOOL Activate extent
2412	(96C)	ADDRESS	4	C@CSRC4BLD	MVS CPOOL Build routine
2416	(970)	ADDRESS	4	C@CSRC4CON	MVS CPOOL Connect storage
2420	(974)	ADDRESS	4	C@CSRC4DAC	MVS CPOOL Deactivate extent
2424	(978)	ADDRESS	4	C@CSRC4DIS	MVS CPOOL Disconn storage
2428	(97C)	ADDRESS	4	C@CSRC4EXP	MVS CPOOL Expand routine
2432	(980)	ADDRESS	4	C@CSRC4QCL	MVS CPOOL Query cell rtn
2436	(984)	ADDRESS	4	C@CSRC4QEX	MVS CPOOL Query extent rtn
2440	(988)	ADDRESS	4	C@CSRC4QPL	MVS CPOOL Query pool rtn
2444	(98C)	ADDRESS	4	C@CSRC4RFR	MVS CPOOL Free routine
2448	(990)	ADDRESS	4	C@CSRC4RGT	MVS CPOOL Get routine
2452	(994)	ADDRESS	4	C@IEANTCR	MVS NAME/TOKEN Create rtn
2456	(998)	ADDRESS	4	C@IEANTDL	MVS NAME/TOKEN Delete rtn
2460	(99C)	ADDRESS	4	C@IEANTRT	MVS NAME/TOKEN Retrieve rtn
2464	(9A0)	ADDRESS	4	C@IEAVM703	MVS message extract routine
2468	(9A4)	ADDRESS	4	C@IEAVH709	MVS MCS flush routine
2472	(9A8)	ADDRESS	4	C@CSNEKRR2	MVS encipher/decipher rout
RESERVED FOR FUTURE USE FIELDS--(LAST ENTRIES IN CADDR)					
2476	(9AC)	ADDRESS	4	C@CEXIVUC	Validate UCOR char (SRIP)
2480	(9B0)	ADDRESS	4	CADDREQE(0)	End of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
The following contains the entry points for routines which may or may not be present. When adding entry points above, use one of the above reserved fields to avoid requiring an assembly of modules using the entry points below.					

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2480	(9B0)	X'9B0'	0	CADDRLEN	"*-CADDR" LENGTH OF THE CADDR TABLE

Table 37. Cross Reference for $CADDR

Name	Offset	Hex Tag
C#$SSIAUTH	288	
C#ALCSSTB	44C	
C#CPBUILD	4FC	
C#CPCONTRA	508	
C#CPDELETE	514	
C#CPEXPAND	520	
C#CPFREE	52C	
C#CPGET	538	
C#CPMODIFY	548	
C#CPQCELL	554	
C#CPQEXT	560	
C#CPQPOOL	56C	
C#HGETSPEC	19C	
C#HINTRDR	47C	
C#HIOCHECK	488	
C#LOGISST	4A0	
C#NJEXISIN	344	
C#NJEXISOT	34C	
C#NJEXOSIN	354	
C#NJEXOSOT	35C	
C#NJEXSTNM	368	
C#NJEXSTRQ	370	
C#NJEXTRAC	37C	
C#PROTENDR	4B0	
C#PROTGET	4BC	
C#PROTPNT	4D4	
C#PROTPUT	4C8	
C#PROTSRB	4E0	
C#TRKCELL	810	
C@$$POST	738	
C@$ALESERV	B4	
C@$ALLDAU	50	
C@$ASDCCLR	1E8	
C@$ASDCUPD	1EC	
C@$CBIO	698	
C@$CGETABL	240	
C@$CRETANY	244	
C@$CRETRN	248	
C@$CSAVANY	24C	
C@$CSAVE	250	
C@$CSUBIT	388	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@$DESTCHK	60C	
C@$DSCTBLD	58	
C@$DSELINT	8E8	
C@$DYNLPA	254	
C@$ECBEXIT	258	
C@$ECBPOST	25C	
C@$FBUFRTN	260	
C@$FNDRIOT	69C	
C@$FRECEL	264	
C@$FRETBUF	2CC	
C@$GASSIGN	178	
C@$GETCEL	268	
C@$GETTBUF	2D0	
C@$GKGET	16C	
C@$GKINIT	170	
C@$GKTERM	174	
C@$GSINIT	17C	
C@$GSTERM	180	
C@$HGFMAIN	270	
C@$IOTBLD	6A0	
C@$JCTINIT	8F4	
C@$JCTXADD	958	
C@$JCTXEXP	95C	
C@$JCTXGET	960	
C@$JCTXREM	964	
C@$JQESERV	8FC	
C@$LOGMSG	83C	
C@$MGIOMSG	740	
C@$MGIOSJM	744	
C@$MLTFBUF	278	
C@$MSDDUMP	280	
C@$MSGDISR	18	
C@$MSGSCAN	1C	
C@$NOTIFY	610	
C@$NSSTLOK	2D4	
C@$PDBBLD	5C	
C@$PDBDEFS	60	
C@$PDBFIND	6A4	
C@$PDBNEXT	6A8	
C@$RACROUT	748	
C@$REPLY	20	
C@$RQUEACT	588	
C@$RQUECMP	58C	
C@$RQUEDEA	590	
C@$RQUEDEQ	594	
C@$RQUEEXE	598	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@$RQUEGET	59C	
C@$RQUERET	5A0	
C@$SCAN	5A8	
C@$SCANB	5AC	
C@$SCANCOM	5B0	
C@$SCAND	5B4	
C@$SDBCHEK	6AC	
C@$SDBFREE	6B0	
C@$SDBINIT	6B4	
C@$SJBFIND	908	
C@$SJBLOCK	90C	
C@$SJBRQ	910	
C@$SJBUNLK	914	
C@$SSIAUTH	284	
C@$SSIBEGN	28C	
C@$SSIEND	290	
C@$STRAK	74C	
C@$SVJLOK	750	
C@$SVJLOK2	754	
C@$SVJTEST	758	
C@$SVJUNLK	75C	
C@$SYMREC	294	
C@$TRACER	760	
C@$TRAREL	764	
C@$TRCFILT	768	
C@$UALDAU	54	
C@$UCBINDX	224	
C@$VERIFY	6B8	
C@$VFLI	76C	
C@$XMPOST	770	
C@$XMPOSTX	774	
C@ABEND722	444	
C@ABNDADJ	298	
C@ABNDSKIP	29C	
C@ALCSBRY	450	
C@ALCSSTB	448	
C@ARMEOJ	14	
C@ASOKADD	6BC	
C@ASOKDEL	6C0	
C@ASOKGC	6C4	
C@AUDSAF	920	
C@BACKRETN	5B8	
C@BERTREAD	778	
C@BLDSYSDS	1F0	
C@BRTCOUNT	77C	
C@BRTIECNT	780	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@CALLCI	2C	
C@CATBFREE	784	
C@CATTREE	78C	
C@CBOOKMRK	1A8	
C@CCLSSYSI	1AC	
C@CDEFRJRW	840	
C@CEXITACT	1B0	
C@CEXITCRD	1B4	
C@CEXIVUC	9AC	
C@CINITJRW	1B8	
C@CIOTCLN	1BC	
C@CIRDRPUT	1C0	
C@CJOBBLD	1C4	
C@CJOBEND	848	
C@CJOBKILL	844	
C@CJOBVFY	1C8	
C@CKPTGDAT	790	
C@CLEANBAT	228	
C@CLEANJRW	1CC	
C@CMNFCICB	67C	
C@CMNINIT	680	
C@CMNPPROC	684	
C@CMNPSUBT	688	
C@CMSFLOK	794	
C@CMSGLOK	798	
C@CMULJEND	84C	
C@CMULJKIL	850	
C@CNIN2OUT	454	
C@CNVCLNUP	30	
C@CNVSETUP	34	
C@COPNPROC	38	
C@CPBREC	500	
C@CPBUILD	4F8	
C@CPCONTRA	504	
C@CPCREC	50C	
C@CPDELETE	510	
C@CPDREC	518	
C@CPEXPAND	51C	
C@CPFREC	530	
C@CPFREE	528	
C@CPGET	534	
C@CPGREC	53C	
C@CPINIT	540	
C@CPJAFF	8	
C@CPJCLINI	C	
C@CPJCLTRM	10	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@CPMODIFY	544	
C@CPMREC	54C	
C@CPQCELL	550	
C@CPQCREC	558	
C@CPQEXT	55C	
C@CPQPOOL	568	
C@CPQPREC	570	
C@CPQXREC	564	
C@CPROCCRD	1D0	
C@CPTERM	574	
C@CPUT	1D4	
C@CPXREC	524	
C@CSETVECT	1D8	
C@CSNEKRR2	9A8	
C@CSPEOX	5A4	
C@CSPLOPN	1DC	
C@CSRC4ACT	968	
C@CSRC4BLD	96C	
C@CSRC4CON	970	
C@CSRC4DAC	974	
C@CSRC4DIS	978	
C@CSRC4EXP	97C	
C@CSRC4QCL	980	
C@CSRC4QEX	984	
C@CSRC4QPL	988	
C@CSRC4RFR	98C	
C@CSRC4RGT	990	
C@CVDEVID	638	
C@CXMTRTNE	1E0	
C@DATASERV	5DC	
C@DELJ2AUX	670	
C@DELJ2CI	68C	
C@DELJ2MON	94C	
C@DELJ2SRV	2D8	
C@DOMCHECK	7A0	
C@DSNCMP	6C8	
C@DSNMSRV	6D0	
C@DSNVFY	6CC	
C@DSOPEN	90	
C@DSPSERV	B8	
C@EDSCBCR	BC	
C@EDSCBDL	C0	
C@EDSCRT	C4	
C@EDSDLT	C8	
C@EDSKILL	CC	
C@ENFISSUE	E0	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@ENF58BLD	6D4	
C@ENF70BLD	924	
C@ENF78BLD	928	
C@EOBLOB	22C	
C@EOTFDCON	230	
C@FIFOBLK	7A4	
C@FIFODEQ	7A8	
C@FIFODEQ8	7B8	
C@FIFOENQ	7AC	
C@FIFOENQ8	7BC	
C@FIFOGTQ	7B0	
C@FIFOGTQ8	7C0	
C@FINDLMOD	2AC	
C@FINDMOD	2A0	
C@FREEJCT	92C	
C@FREPBLOK	458	
C@FRESDBLK	45C	
C@FRESDBL2	460	
C@FRETRE	2A4	
C@FRIRWDLK	464	
C@GETJ2AUX	66C	
C@GETJ2CI	690	
C@GETJ2MON	948	
C@GETJ2SRV	2DC	
C@GETPBLOK	468	
C@GETSDBLK	46C	
C@GETSDBL2	470	
C@GETTRE	2A8	
C@GRPASGN	7C8	
C@GRPINIT	1F4	
C@GTIRWDLK	474	
C@HA$CNJGP	380	
C@HA$CNJRQ	3BC	
C@HALCLASS	6D8	
C@HALFDSNR	64	
C@HALOMERG	68	
C@HALOPDBI	6C	
C@HALR	70	
C@HALRDCAT	74	
C@HALUNAL	78	
C@HALUPCAT	6DC	
C@HAMNULL	188	
C@HAMPSTER	18C	
C@HASJFREQ	654	
C@HASJIDST	658	
C@HASPAMI	190	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@HASPNACT	318	
C@HASPRCCS	854	
C@HASPRDDS	858	
C@HASPRSCN	85C	
C@HBSRBLDL	88	
C@HCBCK	6E4	
C@HCBFM	6E8	
C@HCBGM	6EC	
C@HCNVTIME	7CC	
C@HETSOUT	930	
C@HFCLSUB	6F0	
C@HFCLTRNC	6F4	
C@HFEXFSPC	94	
C@HFEXJESL	98	
C@HFEXSDET	9C	
C@HFEXSPIN	A0	
C@HFJDLINE	200	
C@HFJLOGTM	1FC	
C@HFJOBLOG	1F8	
C@HFOPSUB	A4	
C@HGETCHN	194	
C@HGETSPEC	198	
C@HGETSREC	1A0	
C@HINTRDR	478	
C@HINTRREC	480	
C@HIOCHECK	484	
C@HIOCKRY	48C	
C@HIOTSPIN	7C	
C@HJE000	204	
C@HJSMAKSL	208	
C@HJSRETAB	6F8	
C@HKYMERGE	7D0	
C@HMIGTRK	490	
C@HNDUPDTE	80	
C@HNOTIFY	84	
C@HOCSETUP	A8	
C@HONEWOUT	6FC	
C@HOOLDINP	700	
C@HOOLDOUT	704	
C@HOSWB	7D4	
C@HPUTFULL	494	
C@HSJFACC	650	
C@HSJFLSP	7D8	
C@HWAITBUF	498	
C@IEANTCR	994	
C@IEANTDL	998	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@IEANTRT	99C	
C@IEAVH709	9A4	
C@IEAVM703	9A0	
C@IRCLNUP	1E4	
C@JBFOUND	20C	
C@JBSELECT	210	
C@JCISUB	3C	
C@JESLOGC	8C	
C@JNFYPROC	8F8	
C@JOBCLASV	860	
C@JOBCLVAL	864	
C@JOBSTATS	214	
C@JOBVALM	868	
C@JSMTSRV	708	
C@JSOPSSDS	218	
C@JSREOPEN	21C	
C@J2CIREC	694	
C@LOGISST	49C	
C@LOGSTRY	4A4	
C@MBSCATTN	2B0	
C@MONSSIRQ	950	
C@MQTRVAL	70C	
C@MQTR0VAL	710	
C@MTTRVAL	714	
C@MTTR0VAL	718	
C@M165BLD	900	
C@NJEABSNP	3B8	
C@NJEFOPEN	2E0	
C@NJEFREBF	2E4	
C@NJEHBLD	2E8	
C@NJEHDADD	2EC	
C@NJEHDEXP	2F0	
C@NJEHDMAK	2F4	
C@NJEHDRDU	2F8	
C@NJEHDREM	2FC	
C@NJEHDVAL	300	
C@NJEHDWRU	304	
C@NJEPORCV	308	
C@NJEPRXMT	30C	
C@NJETBLD	310	
C@NJETRACE	314	
C@NJEXARR	324	
C@NJEXASEA	328	
C@NJEXASIN	32C	
C@NJEXASRQ	330	
C@NJEXASTM	334	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@NJEXCREQ	338	
C@NJEXIREC	33C	
C@NJEXISIN	340	
C@NJEXISOT	348	
C@NJEXOSIN	350	
C@NJEXOSOT	358	
C@NJEXSTIN	360	
C@NJEXSTNM	364	
C@NJEXSTRQ	36C	
C@NJEXSTTM	374	
C@NJEXTRAC	378	
C@NJGPRCOV	384	
C@NJJRJOBH	38C	
C@NJJRMAIN	390	
C@NJJRTERM	394	
C@NJJTJOBH	3A0	
C@NJJTJOBT	3A4	
C@NJJTMAIN	3A8	
C@NJJTNTFY	3AC	
C@NJJTTERM	3B0	
C@NJOBWTO	398	
C@NJRQENQ	3C4	
C@NJRQRCOV	3C0	
C@NJSRJOBH	3C8	
C@NJSRJOBT	3CC	
C@NJSRMAIN	3D0	
C@NJSRNCOD	3E4	
C@NJSRNTFY	3D4	
C@NJSROPTB	3EC	
C@NJSRPDDB	3D8	
C@NJSRSIGN	3DC	
C@NJSRTERM	3E0	
C@NJSTMAIN	3F0	
C@NJSTOPTB	3F4	
C@NJSTTERM	3F8	
C@NJTAUTH	3B4	
C@NSRAUTH	3E8	
C@NSTAUTH	3FC	
C@NSTCDSH	400	
C@NSTCJBH	404	
C@NSTCJBT	408	
C@OBTGBAT	4A8	
C@OLDJOE	71C	
C@PCYAPPCK	410	
C@PCYAPPLY	414	
C@PCYEXPR	418	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@PCYMAPPT	41C	
C@PCYOADDC	420	
C@PCYORMVC	42C	
C@PCYORPLC	430	
C@PCYRPNEV	434	
C@PDDBUPD	720	
C@PPSOSJB	7E4	
C@PREDNAME	5BC	
C@PREEMFRG	D0	
C@PREFILT	5C0	
C@PREHTERR	D4	
C@PREJOBNM	24	
C@PREMG529	31C	
C@PRENRREC	4B4	
C@PREREPGC	28	
C@PREURI	D8	
C@PREWTO	7E8	
C@PREZFERR	DC	
C@PRGETREC	4C0	
C@PRIMEIOT	724	
C@PRIPRINI	5E8	
C@PRITORD	5EC	
C@PRJBCLD	644	
C@PRJPCKP	5F0	
C@PRJPCLS	5F4	
C@PRJPLEX	5F8	
C@PRJPNJN	5FC	
C@PRJPROC	600	
C@PRJPSPL	604	
C@PRLIMIT	648	
C@PROCALCS	40	
C@PROTENDR	4AC	
C@PROTGET	4B8	
C@PROTPNT	4D0	
C@PROTPUT	4C4	
C@PROTSRB	4DC	
C@PRPNTREC	4D8	
C@PRPUTREC	4CC	
C@PRSPLIO	64C	
C@PRSRBREC	4E4	
C@PRTAUTH	7EC	
C@PSQUEUE	7F0	
C@RACCTSET	86C	
C@RANLZCRD	870	
C@RCARDSCN	874	
C@RDELEGRP	878	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@RDELNETA	87C	
C@RDELRJCB	880	
C@RDELWTO	884	
C@RECABORT	7F4	
C@RECOVERY	2B4	
C@REFRDSRV	5E0	
C@REFRJRW	888	
C@RELGBAT	4E8	
C@RESTINFO	88C	
C@RESTORE	5C4	
C@REXTENMG	890	
C@RFRDEJRW	894	
C@RFRERJCB	898	
C@RGETNETA	89C	
C@RGETRJCB	8A0	
C@RGETSPOF	8A4	
C@RGTDEJRW	8A8	
C@RINITGRP	8AC	
C@RJOBDEF	8B0	
C@RJOBONMG	8B4	
C@RMSGQUE	8B8	
C@RNJCOMSG	8BC	
C@RNJEHDTR	39C	
C@RNJEONMG	8C0	
C@RNODEBAD	320	
C@RPDBBLD	8C4	
C@RPDBINIT	8C8	
C@RPDBSEC	8CC	
C@RPRCRCCS	8D8	
C@RPROCGRP	8D0	
C@RPROCJCL	8D4	
C@RPSTCXIT	8DC	
C@RPSWSCAN	8E0	
C@RPUTSCAN	8E4	
C@RRWTORTN	7F8	
C@SCANDIAG	5C8	
C@SCNDBRNG	5CC	
C@SCNDGRTN	5D4	
C@SCNDVVAL	5D8	
C@SECLEXTR	7FC	
C@SFLOPDDB	65C	
C@SIGIOU	728	
C@SJBFREE	934	
C@SJBINIT	938	
C@SJFSWBRD	660	
C@SRXEMSG	674	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@SSIFINE	2B8	
C@SSISESTA	2BC	
C@SSISETUP	2C0	
C@SSVCLSC	AC	
C@SSVOPNC	B0	
C@SSVXDEF	800	
C@STEALOCK	940	
C@SVCADDCT	4EC	
C@SVCADPCT	4F0	
C@SWAREAD	220	
C@SWBTUMRG	664	
C@SYMTT	72C	
C@SYSOVFY	730	
C@TBADTGBQ	804	
C@TOKENSR	808	
C@TRKCELL	80C	
C@TRKCELLA	814	
C@TSCNVJB	618	
C@TSETLOCK	818	
C@TSFRELOK	81C	
C@TUXTRACT	668	
C@UBSRB	954	
C@UPDDSCA	4F4	
C@USENF58	734	
C@USENF70	944	
C@USERSUB	620	
C@USRNEWND	624	
C@WTALOGQ	628	
C@WTASRBQI	62C	
C@XBFPITCH	824	
C@XCFXMBN	828	
C@XCNRECOV	44	
C@XINTKEY	48	
C@XJDTKEY	4C	
C@XMXRMTR	830	
C@XMXSRB	82C	
C@XSYSINIT	834	
C@XSYSTERM	838	
CADDR	0	
CADDR#ENF35	F0	
CADDR#ENF41CP	100	
CADDR#ENF41GL	F8	
CADDR#ENF42	108	
CADDR#ENF46	110	
CADDR#ENF51	118	
CADDR#ENF53	120	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
CADDR#ENF56	128	
CADDR#ENF57CM	130	
CADDR#ENF57RV	138	
CADDR#ENF58NR	140	
CADDR#ENF62NR	158	
CADDR#ENF62RF	150	
CADDR#ENF62RL	148	
CADDR#ENF70NR	160	
CADDR#ENF83LS	168	
CADDR@CNTBITAB	2C4	
CADDR@CPLTABS	578	
CADDR@ENF35	EC	
CADDR@ENF41CP	FC	
CADDR@ENF41GL	F4	
CADDR@ENF42	104	
CADDR@ENF46	10C	
CADDR@ENF51	114	
CADDR@ENF53	11C	
CADDR@ENF56	124	
CADDR@ENF57CM	12C	
CADDR@ENF57RV	134	
CADDR@ENF58NR	13C	
CADDR@ENF62NR	154	
CADDR@ENF62RF	14C	
CADDR@ENF62RL	144	
CADDR@ENF70NR	15C	
CADDR@ENF83LS	164	
CADDR@HAMAVT	184	
CADDR@HASPVTAB	6E0	
CADDR@OCOOFFST	40C	
CADDR@PCYACIT	43C	
CADDR@PCYATMT	440	
CADDR@SCNDIAGT	5D0	
CADDR@TRJNAME	2C8	
CADDRENFBEG	EC	
CADDRENFNUM	168	10
CADDREQE	9B0	
CADDREQS	8	
CADDRID	0	C3C1C4C4
CADDRLEN	9B0	9B0
CADDRVNM	4	7
CADDRVSN	4	
K@$BITMAP	73C	
K@$GETHP	26C	
K@$HGFMANK	274	
K@$JBIDBLD	8EC	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
K@$JCORBLD	8F0	
K@$MODLOC	27C	
K@$QLOCC	904	
K@ARTEADD	918	
K@ARTERAT	91C	
K@AVLDELET	584	
K@AVLINST	57C	
K@AVLTRVS	580	
K@CATREAD	788	
K@CNVDEVID	630	
K@CRJOES	634	
K@DJBREAD	79C	
K@ENF58CDC	E4	
K@ENF70CDC	E8	
K@ESWFREE	63C	
K@FIFOBLK8	7B4	
K@GOFDSERV	7C4	
K@HPOSTECB	1A4	
K@JDPRRPNL	23C	
K@JDPRWHER	238	
K@JOEREAD	7DC	
K@JPXIBLD	5E4	
K@JQEREAD	7E0	
K@MCSFLUSH	614	
K@MODJXACK	640	
K@PCYOCRT	424	
K@PCYODEST	428	
K@PCYTERM	438	
K@PROCJZDN	234	
K@PRSMIGD	608	
K@SJIOBINT	93C	
K@USERDEST	61C	
K@WSCREAD	820	
K@ZGLLMSG	678	

$CAT information

$CAT programming interface information

$CAT is a programming interface.

$CAT heading information

Common name: Class Attribute Table

Macro ID: $CAT

DSECT name: CAT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See CATLEN, CATLLEN

Created by: JES2 Initialization
$DOGCAT

Pointed to by: $CATABLE field of the $HCT data area (during JES2 initialization only).
Constructed dynamically from data in BERTs

Serialization: None Required

Function: The CAT defines the attributes of the JES2 job classes. There are 64 CAT entries arranged contiguously. The appropriate CAT entry for a particular class is found by taking the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A = '01') multipying by the CATLEN equate, and adding the contents of $CATABLE.

$CAT mapping

Table 38. Structure CAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CAT	HASP CLASS ATTRIBUTE TABLE ELEMENT
		Start of memory-only segment (not checkpointed) NOTE: - This section also exists in GRPOBJ elements (see $CLASGRP).			
0	(0)	SIGNED	2	CATMEM(0)	Start of memory-only sect
		CAT cache binary AVL tree 'node' data : - For performance, each checkpointed (BERT resident) CAT is cached in memory as part of a balanced binary AVL tree. - The tree is rebuilt whenever a CAT is added or removed.			
0	(0)	ADDRESS	4	CATLEFT	Pointer to lower CAT in binary tree.
4	(4)	ADDRESS	4	CATRIGHT	Pointer to higher CAT in binary tree.
8	(8)	SIGNED	2	CATAVBAL	AVL tree balance factor - used while building the binary tree.
		Memory only flags :			
10	(A)	BITSTRING	1	CATFLAG5	Memory-only flags
		1...		CAT5ANOM	"B'10000000'" ON = This job class has anomalies. Set in HASPJQS::CATHMAX.
		.1..		CAT5NOWK	"B'01000000'" ON = No selectable work exists for this job class (within the current checkpoint cycle). Set by $QGET processing and cleared by HASPJQS::CATHMAX (at ckpt cycle) and when a job is added to the class.
		..1.		CAT5CKPT	"B'00100000'" ON = BERT resident CAT fields have changed. Alerts checkpoint cycle processing to write this CAT. SET by $DOGCAT when a CAT is updated. RESET by the checkpoint cycle when written (see $CATCWRT routine).
		Other bookkeeping data :			

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
11	(B)	BITSTRING	1	CATPSQTP	The associated JQETYPE of this CAT.
12	(C)	SIGNED	4	CATELNUM	One-based element number of this cache element.
		CAT/GRPOBJ cache element name. This will be equal to CATCLASS if a CAT element or GRPNAME if a GRPOBJ element.			
16	(10)	CHARACTER	8	CATELNAM	CAT cache element name.
		FETCHNEXT Class group (GRPOBJ) bookkeeping info: - CATGRP@ : FETCHNEXT group address/indicator : o If NOT ZERO - Processing a group and this addr points to the corresponding GRPOBJ. A FETCHNEXT= will locate the next CAT in the group. o If ZERO - The CAT is NOT part of group processing. A FETCHNEXT= will locate the next 'sequential' CAT. - CATGRPC1 : The first CAT visited in the group. Since the GRPOBJ is a circular chain, this is used as the end condition to determine when group processing is complete.			
24	(18)	ADDRESS	4	CATGRP@	FETCHNEXT GRPOBJ address/ indicator.
28	(1C)	CHARACTER	8	CATGRPC1	First CAT processed in GRPOBJ circular chain.
28	(1C)	X'24'	0	CATMEMLN	"*-CATMEM" Size of memory only section
		Start of CATBASE BERT segment.			
28	(1C)	X'7'	0	CATVERSN	"7" CAT version
36	(24)	BITSTRING	1	CATJOBFL	HASP JOB FLAGS, COPIED INTO THE JCTJOBFL FIELD, FLAG VALUES ARE DEFINED IN $JCT
37	(25)	BITSTRING	1	CATJBOPT	HASP JOB OPTIONS, COPIED INTO THE JCTJBOPT FIELD, FLAG VALUES ARE DEFINED IN $JCT
38	(26)	CHARACTER	2	CATPROCN	PROCEDURE LIBRARY NUMBER
40	(28)	BITSTRING	1	CATSMFLG	HASP SMF FLAGS, COPIED INTO THE JCTSMFLG FIELD, FLAG VALUES ARE DEFINED IN $JCT
41	(29)	CHARACTER	3	CATPERFM	DEFAULT PERFORMANCE GROUP
		The following fields are defined in aggregate by the CATCONVP symbol (below) and represent the converter defaults mapped by the converter parameter list (IEFCNPRM). The fields covered by CATCONVP must match those mapped by IEFCNPRM.			
44	(2C)	SIGNED	4	CATCPBGN(0)	START OF CONVERTER PARMS
44	(2C)	CHARACTER	1	CATCACCT	ACCOUNTING INFO REQUIRED
		....		CATCNONE	"B'00000000'" NO INFO IS REQUIRED
		1		CATCNAME	"B'00000001'" PROGRAMMER NAME REQ'D
		.... ..1.		CATCNUMB	"B'00000010'" ACCOUNT NUMBER REQUIRED
44	(2C)	X'3'	0	CATCALL	"CATCNAME+CATCNUMB" JOB AND NUMBER REQUIRED
		.... .1..		CATCSWAL	"B'00000100'" SWA ABOVE 16M LINE
45	(2D)	CHARACTER	2		RESERVED
47	(2F)	CHARACTER	8	CATCTIME(0)	DFLT JOB STEP INTL TIME

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
47	(2F)	CHARACTER	6	CATCMNTE	MAXIMUM MINUTES
53	(35)	CHARACTER	2	CATCSECS	MAXIMUM SECONDS
55	(37)	CHARACTER	5	CATCREGN(0)	DEFAULT JOB STEP REGION
55	(37)	CHARACTER	4	CATCRGN	NUMERIC SPECIFICATION
59	(3B)	CHARACTER	1	CATCRGA	KILOBYTES OR MEGABYTES SPECIFICATION
60	(3C)	CHARACTER	1	CATCMND	COMMAND DISPOSITION
60	(3C)	X'F0'	0	CATCEXEC	"C'0'" PASS THE COMMAND THROUGH
60	(3C)	X'F1'	0	CATCDSPL	"C'1'" DISPLAY AND THEN PASS CMND
60	(3C)	X'F2'	0	CATCVER	"C'2'" ASK OPERATOR DISPOSITION
60	(3C)	X'F3'	0	CATCIGN	"C'3'" IGNORE THE COMMAND
61	(3D)	CHARACTER	1	CATCBLP	BYPASS LABEL PROCESSING OPT.
		1		CATCBLPY	"B'00000001'" PROCESS BYPASS LABEL PARM
62	(3E)	CHARACTER	1	CATCOCG(4)	OPERATOR COMMAND GROUP
		.... .1..		CATCGSYS	"B'00000100'" GROUP 1 COMMANDS (SYS)
		.... ..1.		CATCGIO	"B'00000010'" GROUP 2 COMMANDS (I/O)
		1		CATCGCON	"B'00000001'" GROUP 3 COMMANDS (CONS)
62	(3E)	X'7'	0	CATCGALL	"CATCGSYS+CATCGIO+CATCGCON" ALL GROUPS
66	(42)	CHARACTER	1	CATCLJCL	DEFAULT MSGLEVEL, JCL LISTED IF NO MSGLEVEL
67	(43)	CHARACTER	1	CATCTMSG	ALLOCATION TERMINATION MSGS
67	(43)	X'2C'	0	CATCONVP	"CATCPBGN,*-CATCPBGN" FULL CONVERTER PARAMETERS
68	(44)	BITSTRING	1	CATCFLG1	Converter parm byte
		1...		CATCNQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE
		.1..		CATCNQDS	"B'01000000'" - Do not allow the DSENQSHR JCL keyword on a job statement. This disables the SYSDSN ENQ downgrade function. - Both bits off allows the function (ALLOW)
		..1.		CATSYSYM	"B'00100000'" - System symbols substitution in batch jobs is supported
		...1		CATGDGST	"B'00010000'" - GDGBIAS=STEP default has been set
69	(45)	BITSTRING	7		Reserved for potential expansion of IEFCNPRM
End of converter parameters mapped by IEFCNPRM					
76	(4C)	BITSTRING	1	CATOPSWT	CONVERTER OPTION SWITCHES
77	(4D)	BITSTRING	1	CATFLAG1	NORMAL OUTDISP FOR JESDS
		1...		CAT1CDP	"B'10000000'" CONDITIONALLY PURGE OUTPUT FOR JOBS IN THIS CLASS
77	(4D)	X'10'	0	CAT1NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
77	(4D)	X'8'	0	CAT1NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
77	(4D)	X'4'	0	CAT1NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
77	(4D)	X'2'	0	CAT1NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
77	(4D)	X'1'	0	CAT1NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
78	(4E)	BITSTRING	1	CATFLAG2	ABNORMAL OUTDISP FOR JESDS
78	(4E)	X'10'	0	CAT2AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
78	(4E)	X'8'	0	CAT2AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
78	(4E)	X'4'	0	CAT2AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
78	(4E)	X'2'	0	CAT2AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
78	(4E)	X'1'	0	CAT2AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
79	(4F)	BITSTRING	1	CATFLAG3	Processing flags
		1...		CAT3WLM	"B'10000000'" WLM managed class
		.1..		CAT3SPEC	"B'01000000'" Special class (STC/TSU)
		..1.		CAT3PSEU	"B'00100000'" Pseudo-class queue (not set in real CATs)
		...1		CAT3RBLD	"B'00010000'" Pseudo-class queue for rebuild queue
		.... 1...		CAT3RECO	"B'00001000'" Pseudo CAT used for JQE and CAT reconciliation
		.... .1..		CAT3SINV	"B'00000100'" Default SCHENV (CATSCHED) no longer defined
		.... ..1.		CAT3DUOK	"B'00000010'" Duplicate job names OK this job class
		1		CAT3LSRC	"B'00000001'" JOBRC=LASTRC specified for this job class
80	(50)	CHARACTER	8	CATXBM	PROCNAME FOR XBM/2 JOB
88	(58)	CHARACTER	8	CATCLASS	Name of this job class.
96	(60)	SIGNED	4	CATMAXJ	Max executing jobs in this class in the JESPlex
CATCURJ is altered by $QBUSY, QADCHAIN and QDECHAIN only					
100	(64)	SIGNED	4	CATCURJ	Current executing jobs in this class in the JESPlex
104	(68)	SIGNED	4	CATMAXT	TOD when Max executing jobs reached
108	(6C)	SIGNED	4	CATJQER	Number of JQEs waiting for timer reconciliation (only present in CATs with CAT3RECO on)
112	(70)	SIGNED	4	CATIMER	TOD when queue held
116	(74)	ADDRESS	4	CATQHDI	First JQE in class; CKPT only (index)
120	(78)	CHARACTER	16	CATSCHED	Default SCHENV, JOB classes only
136	(88)	CHARACTER	1	CATMCLAS	Default message class, TSU and STC classes only
137	(89)	BITSTRING	6	CATJLOG	JES log control
144	(90)	ADDRESS	4	(0)	Word align
144	(90)	SIGNED	4	CATXITD1	Reserved for Exit use
148	(94)	SIGNED	4	CATXITD2	Reserved for Exit use
152	(98)	SIGNED	4	(0)	Align section length
152	(98)	X'74'	0	CATLEN1	"*-CATJOBFL" Length of main CATBASE BERT segment.
Start of CATQAFF BERT segment.					
152	(98)	BITSTRING	4	CATQAFF	Members to which the class has affinity
156	(9C)	BITSTRING	1	CATMBRMX	Members on which CATJACT is less than CATJMACT

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	X'8'	0	CATLEN4	"*-CATQAFF" Length of affinity/max CATQAFF BERT segment.
		Start of CATACT BERT segment.			
160	(A0)	BITSTRING	1	CATFLAG4	Flags
		1...		CAT4JDUP	"B'10000000'" At least one duplicate job in this class
		.1..		CAT4INAC	"B'01000000'" This CAT is inactive and no new work can be selected from it.
		..1.		CAT4PERM	"B'00100000'" Permanent CAT (cannot be deleted).
		...1		CAT4DFLT	"B'00010000'" This is default job class (cannot delete/inact)
161	(A1)	BITSTRING	1	CATPRMRT	STARTBY promotion rate
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	CATJACT(0)	Batch jobs active
164	(A4)	X'84'	0	CATLEN2	"*-CATFLAG4" Length of job active CATACT BERT segment.
		Start of CATGROUP BERT segment.			
292	(124)	CHARACTER	8	CATGPNAM	If not all zeroes, this CAT belongs to a class group and this is the name of the group.
300	(12C)	CHARACTER	8	CATGPNXT	If not all zeroes, this CAT belongs to a class group and this is the name of the NEXT CAT in this class group
300	(12C)	X'10'	0	CATLEN5	"*-CATGPNAM" Length of class group CATGROUP BERT segment.
		Start of CATMACT BERT segment.			
308	(134)	SIGNED	4	CATJMACT(0)	Batch job activity maximum
308	(134)	X'80'	0	CATLEN3	"*-CATJMACT" Length of max active CATMACT BERT segment.
		Start of CATDESC BERT segment.			
440	(1B8)	DBL WORD	8	(0)	Alignment
440	(1B8)	CHARACTER	80	CATDESC	Description of class
520	(208)	DBL WORD	8	(0)	Ensure double word bdy
520	(208)	X'208'	0	CATLEN	"*-CAT" Length of CAT
520	(208)	X'208'	0	CATLLEN	"*-CAT" Full length of CAT
		SPECIAL CLASS DEFINITIONS			
		11.1		CATSTCCL	"X'D0'" SYSTEM TASK CLASS
		111.		CATTSUCL	"X'E0'" FOREGROUND TIME SHARING CLASS
520	(208)	X'5B'	0	CATSTCID	"C'$'" SYSTEM TASK DISPLAY ID
520	(208)	X'7C'	0	CATTSUID	"C'@'" FORGROUND TIME SHARING DISPLAY ID
		.1..		CATNENT	"X'FF'-X'C0'+1" NUMBER OF ENTRIES IN CAT

Table 39. Structure CATCHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATCHDR	CACHE HEADER
0	(0)	SIGNED	4	CATCHNUM	Number of elements in cache
4	(4)	SIGNED	4	CATCHESZ	Byte size of a cache element. Includes PREBERT, CAT/GRPOBJ, and additional user BERT data
8	(8)	SIGNED	4	CATCHSIZ	Total size of the cache - in BYTES.
12	(C)	SIGNED	2	CATCHCNT	JNTCATCT value captured when the cache is built. Used to determine if the cache is current.
14	(E)	BITSTRING	1	CATFLAG6	CAT Cache header flags
		1...		CAT6TREE	"B'10000000'" Binary tree has been successfully built
15	(F)	BITSTRING	1		Reserved
16	(10)	ADDRESS	4	CATCROOT	Root node in cache AVL tree. Points to CAT cache entry.
20	(14)	BITSTRING	64	CATIPATH	Array of 2 byte elements used to track path taken when inserting a cache element within AVL tree. 0 -> left subtree path 1 -> right subtree path Supports 2 to the 32th distinct values and tree depths up to 32. Only used when tree is built.
20	(14)	X'40'	0	CATIPATL	"*-CATIPATH" Length
20	(14)	CHARACTER	8	CATPRVCN	Prev CAT/GRP name before CAT cache entry refresh
28	(1C)	ADDRESS	4	CATPRVLE	Previous pointer to lower CAT in tree before CAT cache entry refresh
32	(20)	ADDRESS	4	CATPRVRI	Previous pointer to higher CAT in tree before CAT cache entry refresh
36	(24)	SIGNED	2	CATPRVBL	Previous cache entry balance factor before CAT cache entry refresh
84	(54)	CHARACTER	8	CATCHSRC	Search value (job class name) used to locate a cache element.
84	(54)	X'5C'	0	CATCHLEN	"*-CATCHDR" Size of cache header.
92	(5C)	SIGNED	2	CATCHELM(0)	Cache elements start here.
92	(5C)	X'32'	0	CATCINEL	"50" Storage will be created for CATCINEL # of elements the first time the cache is created.

Table 40. Cross Reference for $CAT

Name	Offset	Hex Tag
CAT	0	
CATAVBAL	8	
CATCACCT	2C	
CATCALL	2C	3
CATCBLP	3D	
CATCBLPY	3D	1
CATCDSPL	3C	F1
CATCEXEC	3C	F0
CATCFLG1	44	
CATCGALL	3E	7
CATCGCON	3E	1
CATCGIO	3E	2

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CATCGSYS	3E	4
CATCHCNT	C	
CATCHDR	0	
CATCHELM	5C	
CATCHESZ	4	
CATCHLEN	54	5C
CATCHNUM	0	
CATCHSIZ	8	
CATCHSRC	54	
CATCIGN	3C	F3
CATCINEL	5C	32
CATCLASS	58	
CATCLJCL	42	
CATCMND	3C	
CATCMNTE	2F	
CATCNAME	2C	1
CATCNONE	2C	0
CATCNQAU	44	80
CATCNQDS	44	40
CATCNUMB	2C	2
CATCOCG	3E	
CATCONVP	43	2C
CATCPBGN	2C	
CATCREGN	37	
CATCRGA	3B	
CATCRGN	37	
CATCROOT	10	
CATCSECS	35	
CATCSWAL	2C	4
CATCTIME	2F	
CATCTMSG	43	
CATCURJ	64	
CATCVER	3C	F2
CATDESC	1B8	
CATELNAM	10	
CATELNUM	C	
CATFLAG1	4D	
CATFLAG2	4E	
CATFLAG3	4F	
CATFLAG4	A0	
CATFLAG5	A	
CATFLAG6	E	
CATGDGST	44	10
CATGPNAM	124	
CATGPNXT	12C	
CATGRP@	18	

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CATGRPC1	1C	
CATIMER	70	
CATIPATH	14	
CATIPATL	14	40
CATJACT	A4	
CATJBOPT	25	
CATJLOG	89	
CATJMACT	134	
CATJOBFL	24	
CATJQER	6C	
CATLEFT	0	
CATLEN	208	208
CATLEN1	98	74
CATLEN2	A4	84
CATLEN3	134	80
CATLEN4	9C	8
CATLEN5	12C	10
CATLLEN	208	208
CATMAXJ	60	
CATMAXT	68	
CATMBRMX	9C	
CATMCLAS	88	
CATMEM	0	
CATMEMLN	1C	24
CATNENT	208	40
CATOPSWT	4C	
CATPERFM	29	
CATPRMRT	A1	
CATPROCN	26	
CATPRVBL	24	
CATPRVCN	14	
CATPRVLE	1C	
CATPRVRI	20	
CATPSQTP	B	
CATQAFF	98	
CATQHDI	74	
CATRIGHT	4	
CATSCHED	78	
CATSMFLG	28	
CATSTCCL	208	D0
CATSTCID	208	5B
CATSYSYM	44	20
CATTSUCL	208	E0
CATTSUID	208	7C
CATVERSN	1C	7
CATXBM	50	

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CATXITD1	90	
CATXITD2	94	
CAT1CDP	4D	80
CAT1NODH	4D	4
CAT1NODK	4D	2
CAT1NODL	4D	1
CAT1NODP	4D	10
CAT1NODW	4D	8
CAT2AODH	4E	4
CAT2AODK	4E	2
CAT2AODL	4E	1
CAT2AODP	4E	10
CAT2AODW	4E	8
CAT3DUOK	4F	2
CAT3LSRC	4F	1
CAT3PSEU	4F	20
CAT3RBLD	4F	10
CAT3RECO	4F	8
CAT3SINV	4F	4
CAT3SPEC	4F	40
CAT3WLM	4F	80
CAT4DFLT	A0	10
CAT4INAC	A0	40
CAT4JDUP	A0	80
CAT4PERM	A0	20
CAT5ANOM	A	80
CAT5CKPT	A	20
CAT5NOWK	A	40
CAT6TREE	E	80

$CATBERT information

$CATBERT heading information

Common name: Collector Attribute Table for BERTs

Macro ID: $CATBERT

DSECT name: CATBERT

Owning component: JES2 (SC1BH)

Eye-catcher ID: CATB
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual storage is anywhere (below or above 16M)
in ECSA. Real storage is anywhere.

Size: See CBRSIZE (plus an 8 byte prefix)

Created by: JES2 initialization processing

Pointed to by: CCTCBRT field of the HCCT data area
CVCB_$CATBERT_ADDR field of the CVCB data area

Serialization: This control block is updated during JES2 initializaion processing and not updated after that.

Function: This control block maps the common storage data area used by the $DOGBERT (and related) services.

$CATBERT mapping

Table 41. Structure CATBERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATBERT	, Collector Attribute table for BERTs
0	(0)	ADDRESS	1	CBRVERS	Version number
0	(0)	X'1'	0	CBRVERSN	"1" Current version
1	(1)	SIGNED	1	CBRNTYPE	Number of table entries
2	(2)	SIGNED	1	CBRMSTRV	CKPT level of last BERTMAP
3	(3)	BITSTRING	1		Reserved
4	(4)	SIGNED	4	CBRVERCT	Number of CKPT versions using this $CATBERT
	The following table points to the BERT maps for the supported types of BERTs. The entries in this table must match the CB numbers assigned in $PARMLST and in the $BERT CB type field.				
4	(4)	X'0'	0	CBRMAPE	"0,12,C'X'" BERT map entry
4	(4)	X'0'	0	CBRMADDR	"0,4,C'A'" Address of BERT translate table
4	(4)	X'4'	0	CBRMCNT	"4,1,C'F'" Number of table entries (Not including id 0 record)
4	(4)	X'5'	0	CBRMFLAG	"5,1,C'B'" Flags
		1...		CBRMFJ2	"B'10000000'" Type is JES2-defined
4	(4)	X'6'	0	CBRMSIZE	"6,2,C'H'" Max entry size (highest offset set)
4	(4)	X'8'	0	CBRMBYTE	"8,2,C'H'" Bytes of BERT data needed
4	(4)	X'C'	0	CBRMLEN	"L'CBRMAPE" Size of BERT map tabl entry
	Note for internal BERTs, the BERT translation table is used to store the number assigned to the BERT. Other fields are not used.				
8	(8)	SIGNED	4	CBRMAPS(0)	--+ Table of BERT maps
8	(8)	ADDRESS	4	CBRMINT	| Internal CB
12	(C)	SIGNED	1	CBRNINT	| Number of entries
13	(D)	BITSTRING	1	CBRINTF	| Flag byte
14	(E)	SIGNED	2	CBRINTL	| Max size (always zero)
16	(10)	SIGNED	2	CBRINTS	| Bytes in BERTs (zero)
18	(12)	SIGNED	2		| Reserved
20	(14)	ADDRESS	4	CBRMJQE	| JQE extensions
24	(18)	SIGNED	1	CBRNJQE	| Number of entries
25	(19)	BITSTRING	1	CBRJQEF	| Flag byte
26	(1A)	SIGNED	2	CBRJQEL	| Max JQE size
28	(1C)	SIGNED	2	CBRJQES	| Bytes in BERTs
30	(1E)	SIGNED	2		| Reserved
32	(20)	ADDRESS	4	CBRMCAT	| CAT control blocks
36	(24)	SIGNED	1	CBRNCAT	| Number of entries

Table 41. Structure CATBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
37	(25)	BITSTRING	1	CBRCATF	| Flag byte
38	(26)	SIGNED	2	CBRCATL	| Max CAT size
40	(28)	SIGNED	2	CBRCATS	| Bytes in BERTs
42	(2A)	SIGNED	2		| Reserved
44	(2C)	ADDRESS	4	CBRMWSCQ	| WSCQ control blocks
48	(30)	SIGNED	1	CBRNWSCQ	| Number of entries
49	(31)	BITSTRING	1	CBRWSCQF	| Flag byte
50	(32)	SIGNED	2	CBRWSCQL	| Max WSCQ size
52	(34)	SIGNED	2	CBRWSCQS	| Bytes in BERTs
54	(36)	SIGNED	2		| Reserved
56	(38)	SIGNED	4	(0)	--+ End of table
56	(38)	X'4'	0	CBRMAPCT	"(*-CBRMAPS)/CBRMLEN" Number of table entries
56	(38)	X'FE'	0	CBRMAXID	"$DGBDYN-1" Max usable CB type
56	(38)	X'BFC'	0	CBRDYNPT	"CBRMAPS+CBRMADDR+ ($DGBDYN*CBRMLEN),4,C'A'" Dynamic BRTRANS pointer
56	(38)	X'C08'	0	CBRSIZE	"(CBRMAPS-CATBERT)+ (CBRMAXID+1+1)*CBRMLEN" Size of CATBERT
		BERT translation table Bert translation tables are obtained in CSA and consist of a prefix area, containing storage pointers from area to area, followed by several (up to 253) BRTRANS areas. The prefix area contains a chain pointer that is used to free the CSA on a clean shutdown of JES2.			
56	(38)	X'0'	0	CBRBMPFX	"0,8" Prefix area
56	(38)	X'0'	0	CBRBMPTR	"0,4" Prefix area chain pointer

Table 42. Structure BRTRANS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTRANS	, BERT translation table
0	(0)	CHARACTER	8	BRTRNAME	Name (Zero if not in use)
8	(8)	BITSTRING	1	BRTRID	BERTIE id
8	(8)	X'FD'	0	BRTRMAXI	"BRTIICNT-1" Max usable BERTIE ID
9	(9)	BITSTRING	1	BRTRCBT	CB type (same as $PARMLST)
10	(A)	SIGNED	2	BRTRCOFF	Offset into CB of data
12	(C)	BITSTRING	1	BRTRLEN	Length of data
13	(D)	BITSTRING	1	BRTRFLG1	Flag bytes
		1...		BRTRF1OL	"B'10000000'" Offset overlaps allowed
		.1..		BRTRF1J2	"B'01000000'" Type is JES2-defined
		..1.		BRTRF1DF	"B'00100000'" BERTTAB found
14	(E)	X'F'	0	BRTRFILL	"BRTRFCLI+1,1" Fill character
18	(12)	SIGNED	2		Reserved
20	(14)	SIGNED	4	BRTRCNT	Count of this BERTIE type used in the MAS
20	(14)	X'18'	0	BRTRSIZE	"*-BRTRANS" Length of a table entry

Table 43. Cross Reference for $CATBERT

Name	Offset	Hex Tag
BRTRANS	0	
BRTRCBT	9	
BRTRCNT	14	
BRTRCOFF	A	
BRTRFILL	E	F
BRTRFLG1	D	
BRTRF1DF	D	20
BRTRF1J2	D	40
BRTRF1OL	D	80
BRTRID	8	
BRTRLEN	C	
BRTRMAXI	8	FD
BRTRNAME	0	
BRTRSIZE	14	18
CATBERT	0	
CBRBMPFX	38	0
CBRBMPTR	38	0
CBRCATF	25	
CBRCATL	26	
CBRCATS	28	
CBRDYNPT	38	BFC
CBRINTF	D	
CBRINTL	E	
CBRINTS	10	
CBRJQEF	19	
CBRJQEL	1A	
CBRJQES	1C	
CBRMADDR	4	0
CBRMAPCT	38	4
CBRMAPE	4	0
CBRMAPS	8	
CBRMAXID	38	FE
CBRMBYTE	4	8
CBRMCAT	20	
CBRMCNT	4	4
CBRMFJ2	4	80
CBRMFLAG	4	5
CBRMINT	8	
CBRMJQE	14	
CBRMLEN	4	C
CBRMSIZE	4	6
CBRMSTRV	2	
CBRMWSCQ	2C	
CBRNCAT	24	
CBRNINT	C	
CBRNJQE	18	

Table 43. Cross Reference for $CATBERT (continued)

Name	Offset	Hex Tag
CBRNTYPE	1	
CBRNWSCQ	30	
CBRSIZE	38	C08
CBRVERCT	4	
CBRVERS	0	
CBRVERSN	0	1
CBRWSCQF	31	
CBRWSCQL	32	
CBRWSCQS	34	

$CCE information

$CCE heading information

Common name: Cell Control Element

Macro ID: $CCE

DSECT name: CCE

Owning component: JES2 (SC1BH)

Eye-catcher ID: CCE
Offset: CCEID-CCE
Length: L'CCEID

Storage attributes: Subpool: 231
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.

Size: See CCEL

Created by: $GETCEL in HASCLINK

Pointed to by: CCTCSACH field of the HCCT data area
CCECCE field of the CCE data area
PSOCCE field of the PSO data area
S35DCCE field of the S35D data area

Serialization: Compare and swap logic is used to place CCEs on the CCTCSACH chain. Once on the chain, they are never removed. Compare and swap logic must also be used to update field CCEKEY1. CCEKEY1 is a claim field that must be obtained prior to modifying any other CCE field. If CCEKEY1 field is 0 then there is no owner of the CCE.

Function: CCE's represent CSA cells of variable length (allocated in blocks of 256 bytes). The CCEs are chain from the CCTCSACH field in the HCCT control block. Once on this chain, a CCE will never be removed. The cell represented by each CCE is chained from the CCECLOC field of the CCE. The CCE describes who the owner of the cell is and what properties are associated with the cell (how large it is, whether it is a primary cell or not, how the cell may be freed). For more information on the CCEs, look at routines $GETCEL and $FRECEL in HASCLINK.

$CCE mapping

Table 44. Structure CCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CCE	THE $CCE CONTROL BLOCK
0	(0)	CHARACTER	4	CCEID	CCE IDENTIFICATION

Table 44. Structure CCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	1	CCEVRSN	CCE VERSION FIELD
4	(4)	X'1'	0	CCEVERSN	"1" CURRENT VERSION LEVEL
5	(5)	BITSTRING	1	CCEFLAG1	CCE FLAG FIELD
		1...		CCE1PRIM	"B'10000000'" CELL WAS ALLOCATED WITH CCES--DO NOT FREE THE ASSOCIATED CELL
6	(6)	ADDRESS	2	CCECSIZ	ASSOCIATED CELL SIZE IN BYTES
8	(8)	ADDRESS	4	CCECCE	NEXT CCE
12	(C)	ADDRESS	4	CCECLOC	ADDRESS OF ASSOCIATED CELL
16	(10)	ADDRESS	4	CCEKEY1	PRIMARY KEY (CLAIM ID)--USUALLY AN SJB ADDRESS (USE CS INSTR)
20	(14)	ADDRESS	4	CCEKEY2	SECONDARY KEY--USUALLY A TCB ADDRESS OR 0
20	(14)	X'18'	0	CCEL	"*-CCE"

Table 45. Cross Reference for $CCE

Name	Offset	Hex Tag
CCE	0	
CCECCE	8	
CCECLOC	C	
CCECSIZ	6	
CCEFLAG1	5	
CCEID	0	C3C3C540
CCEKEY1	10	
CCEKEY2	14	
CCEL	14	18
CCEVERSN	4	1
CCEVRSN	4	
CCE1PRIM	5	80

$CCW information

$CCW programming interface information

$CCW is a programming interface.

$CCW heading information

Common name: CCW mapping and operation code equates

Macro ID: $CCW

DSECT name: None

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: N/A
Key: N/A
Residency: N/A

Size: N/A

Created by: N/A

Pointed to by: N/A

Serialization: N/A

Function: These equates define the fields within format 0 and format 1 CCWs as well as the operation codes and flags. Basic command codes may have to be combined with modifiers to produce CCW operation codes for specific devices.
Not all combinations of basic opcodes and modifiers are valid CCW opcodes for all types of devices. See specific device documentation for valid combinations.

$CCW mapping

Table 46. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 47. Structure $CCWS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	$CCWS	, CCW equates DSECT
	Basic CCW fields (format 0)				
0	(0)	X'0'	0	CCWOP	"0,1" OPERATION
0	(0)	X'0'	0	CCWCMD	"0,1" (ALIAS COMMAND CODE)
0	(0)	X'1'	0	CCWADDR	"1,3" DATA (TARGET) ADDRESS
0	(0)	X'4'	0	CCWFLAG	"4,1" FLAG BYTES
0	(0)	X'5'	0	CCWRESVD	"5,1" RESERVED
0	(0)	X'6'	0	CCWCOUNT	"6,2" LENGTH
0	(0)	X'6'	0	CCWLEN	"6,2" LENGTH
	Basic CCW fields (format 1)				
0	(0)	X'0'	0	CCW1OP	"0,1" Operation
0	(0)	X'0'	0	CCW1CMD	"0,1" (Alias command code)
0	(0)	X'1'	0	CCW1FLAG	"1,1" Flag byte
0	(0)	X'2'	0	CCW1CNT	"2,2" Length
0	(0)	X'2'	0	CCW1LEN	"2,2" (Alias length)
0	(0)	X'1'	0	CCW1RESV	"CCW1FLAG,L'CCW1FLAG+L'CCW1CNT" Area that must be zero in a TIC
0	(0)	X'4'	0	CCW1ADDR	"4,4" Data (target) address
	BASIC COMMAND CODES				
		1		WRITE	"X'01'" WRITE
		1		PRINT	"X'01'" PRINT (ON PRINTERS)
		1		PUNCH	"X'01'" PUNCH (ON PUNCHES)
		1		SRCH	"X'01'" SEARCH (USED WITH MODIFIER)
		.... ..1.		READ	"X'02'" READ
		11		CNTRL	"X'03'" CONTROL
		11		NOP	"X'03'" NO OPERATION
		.... .1..		SNS	"X'04'" SENSE
		.... 1...		TIC	"X'08'" TRANSFER IN CHANNEL
0	(0)	X'6'	0	READIO	"READ+SNS" READ AND SENSE COMMAND
0	(0)	X'5'	0	WRITEIO	"WRITE+SNS" WRITE AND SENSE COMMAND

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CCW FLAG VALUES			
		1...		DC	"X'80'" DATA CHAINING
		.1..		CC	"X'40'" COMMAND CHAINING
		..1.		SLI	"X'20'" SURPRESS INCORRECT LENGTH
		...1		SKIP	"X'10'" SUPRESS DATA TRANSFER
		.... 1...		PCI	"X'08'" PGM CONTROLLED INTERRUPT
		.... .1..		IDA	"X'04'" CHANNEL INDIRECT ADDRESSING
		.... ..1.		SUS	"X'02'" Suspend
		1		MIDA	"X'01'" Modified indirect data addr
		DIRECT ACCESS DEVICE -- CONTROL COMMANDS			
		..1. 1.11		ORIENT	"X'28'+CNTRL" ORIENT - (2305 0NLY)
		...1 ..11		RECALIB	"X'10'+CNTRL" RECALIBRATE
		.... .111		SEEK	"X'04'+CNTRL" SEEK
		.... 1.11		SEEKCYL	"X'08'+CNTRL" SEEK CYLINDER
		...1 1.11		SEEKHD	"X'18'+CNTRL" SEEK HEAD
		 1111		SPACNT	"X'0C'+CNTRL" SPACE COUNT
		...1 1111		SETFMSK	"X'1C'+CNTRL" SET FILE MASK
		..1. ..11		SETS	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		..1. ..11		SETSECTR	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		...1 .111		RESTORE	"X'14'+CNTRL" RESTORE
		..1. .111		VARYSNS	"X'24'+CNTRL" VARY SENSING - (2305 ONLY)
		.1.. .111		LOCRCD	"X'44'+CNTRL" LOCATE RECORD - (EXT. C-K-D)
		.11. ..11		DEFXTNT	"X'60'+CNTRL" Define Extent
		Direct Access Device -- Track operations			
		1.1. .11.		READTRD	"X'A4'+READ" Read track data
		1.1. .1.1		WRITETRD	"X'A4'+WRITE" Write track data
		DIRECT ACCESS DEVICE -- SEARCH COMMAND MODIFIERS			
		..1.		EQ	"X'20'" SEARCH EQUAL MODIFIER
		.1..		HI	"X'40'" SEARCH HI MODIFIER
		.11.		HIEQ	"X'60'" SEARCH HI OR EQUAL MODIFIER
		.... .1..		CNTNU	"X'04'" SEARCH CONTINUE (2314 ONLY)
		DIRECT ACCESS DEVICE -- SENSE COMMAND MODIFIERS			
		1..1		RSVDISK	"X'90'" DEVICE RESERVE
		1.11		RLSDISK	"X'B0'" DEVICE RELEASE
		DIRECT ACCESS DEVICE -- FIELD MODIFIERS			
		...1 1...		HA	"X'18'" HOME ADDRESS FIELD
		...1		CNT	"X'10'" COUNT (ID) FIELD
		...1		ID	"X'10'" ID (COUNT) FIELD

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .1..		REC0	"X'14'" RECORD ZERO
		.... .1..		DATA	"X'04'" DATA FIELD
		.... 1...		KEY	"X'08'" KEY FIELD
		.... 11..		KD	"X'0C'" KEY AND DATA FIELD
		...1 11..		CKD	"X'1C'" COUNT, KEY AND DATA FIELDS
		....		IPL	"X'00'" IPL RECORD
		..1.		SECTOR	"X'20'" SECTOR
		1...		UPDT	"X'80'" Update
		1...		MT	"X'80'" MULTI-TRACK OPERATION
PRINTER DEVICE -- CONTROL COMMANDS					
		1111 1.11		LOADUCS	"X'F8'+CNTRL" LOAD UCS BUFFER
		1111 ..11		LOADUSCF	"X'F0'+CNTRL" LOAD UCS BUFFER (FOLDED)
		.1.. ..11		FOLDUCS	"X'40'+CNTRL" FOLD UCS BUFFER
		..1. ..11		UNFLDUCS	"X'20'+CNTRL" UNFOLD UCS BUFFER
		111. 1.11		GATEUCS	"X'E8'+CNTRL" GATE/LOAD UCS BUFFER
		.111 ..11		BLKDATAC	"X'70'+CNTRL" BLOCK DATA CHECK
		.111 1.11		ALWDATAC	"X'78'+CNTRL" ALLOW DATA CHECK
		.11. ..11		LOADFCB	"X'60'+CNTRL" LOAD FCB
		.11. 1.11		RAISCOVR	"X'68'+CNTRL" RAISE COVER
PRINTER DEVICE -- READ COMMANDS					
		.... ..1.		READPLB	"X'00'+READ" READ PRINT INE BUFFER
		.... 1.1.		READUCS	"X'08'+READ" READ UCS BUFFER
		...1 ..1.		READFCB	"X'10'+READ" READ FCB
PRINTER DEVICE -- SPACING AND CHANNEL MODIFIERS					
		11		IMED	"X'03'" IMMEDIATE COMMAND (FORMS CONTROL)
		.... 1...		SPAC1	"X'08'" PRINT WITH 1 SPACE
		...1		SPAC2	"X'10'" PRINT WITH 2 SPACES
		...1 1...		SPAC3	"X'18'" PRINT WITH 3 SPACES
		1...		SKPCH0	"X'00'+X'80'" SKIP TO CHANNEL 0
		1... 1...		SKPCH1	"X'08'+X'80'" SKIP TO CHANNEL 1
		1..1		SKPCH2	"X'10'+X'80'" SKIP TO CHANNEL 2
		1..1 1...		SKPCH3	"X'18'+X'80'" SKIP TO CHANNEL 3
		1.1.		SKPCH4	"X'20'+X'80'" SKIP TO CHANNEL 4
		1.1. 1...		SKPCH5	"X'28'+X'80'" SKIP TO CHANNEL 5
		1.11		SKPCH6	"X'30'+X'80'" SKIP TO CHANNEL 6
		1.11 1...		SKPCH7	"X'38'+X'80'" SKIP TO CHANNEL 7
		11..		SKPCH8	"X'40'+X'80'" SKIP TO CHANNEL 8
		11.. 1...		SKPCH9	"X'48'+X'80'" SKIP TO CHANNEL 9
		11.1		SKPCH10	"X'50'+X'80'" SKIP TO CHANNEL 10
		11.1 1...		SKPCH11	"X'58'+X'80'" SKIP TO CHANNEL 11
		111.		SKPCH12	"X'60'+X'80'" SKIP TO CHANNEL 12

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		NON-IMPACT PRINTER DEVICE (3800) -- CONTROL COMMANDS			
		..11 .111		INITPRT	"X'34'+CNTRL" INITIALIZE PRINTER
		.1.. .111		SELXTAB0	"X'44'+CNTRL" SELECT TRANSLATE TABLE 0
		.1.1 .111		SELXTAB1	"X'54'+CNTRL" SELECT TRANSLATE TABLE 1
		.11. .111		SELXTAB2	"X'64'+CNTRL" SELECT TRANSLATE TABLE 2
		.111 .111		SELXTAB3	"X'74'+CNTRL" SELECT TRANSLATE TABLE 3
		1... .111		CLEARPRT	"X'84'+CNTRL" CLEAR PRINTER
		.... .111		PRTEOT	"X'04'+CNTRL" END-OF-TRANSMISSION
		.... .111		OFFSTACK	"X'04'+CNTRL" OR OFFSET-STACK
		...1 .111		MARKFORM	"X'14'+CNTRL" MARK FORM
		.1.1 ..11		LOADWCGM	"X'50'+CNTRL" LOAD CHARACTER MODULE
		..1. ..11		LDCOPYNO	"X'20'+CNTRL" LOAD COPY NUMBER
		.1.. ..11		SETFLASH	"X'40'+CNTRL" LOAD FLASH FRAME
		.1.. ..11		SETOVRLY	"X'40'+CNTRL" OR OVERLAY CONTROL SEQ.
		NON-IMPACT PRINTER DEVICE (3800) -- SPECAIL WRITE COMMANDS			
		..1. .1.1		LDCHARMD	"X'24'+WRITE" LOAD CHARACTER MODIFICATION
		..11 .1.1		LDCOPYMD	"X'34'+WRITE" LOAD COPY MODIFICATION
		MIDA - Modified indirect data addressing mapping NOTE: MIDAWs must start on a quadword boundary			
0	(0)	X'0'	0	MIDAW	"0,16" Midaw definition
		EQU 0,5 Reserved			
0	(0)	X'5'	0	MIDAWFLG	"5,1" Flag byte
		1...		MIDAWFLS	"B'10000000'" Last MIDAW
		.1..		MIDAWFSK	"B'01000000'" Skip (read only)
		..1.		MIDAWFIN	"B'00100000'" Data-transfer-interruption
0	(0)	X'6'	0	MIDAWCNT	"6,2" Count of data to transfer
0	(0)	X'8'	0	MIDAWADR	"8,8" Address of data

Table 48. Structure LRPD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LRPD	, Locate rec data area DSECT
0	(0)	BITSTRING	16	LRPARM(0)	Locate record parm list
0	(0)	BITSTRING	1	LRPOPER	Operation byte
		1		LROWRITE	"X'01'" - Write data
		11		LROFMT	"X'03'" - Format write
		.... .11.		LROREAD	"X'06'" - Read data
		.... 1.11		LROWTRAK	"X'0B'" - Write Track

Table 48. Structure LRPD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 11..		LRORTRAK	"X'0C'" - Read Track
1	(1)	BITSTRING	1	LRPAUX	Auxiliary byte
		1...		LRPAXTL	"X'80'" -Use transfer lngth factor
2	(2)	BITSTRING	1		Reserved (must be 0)
3	(3)	BITSTRING	1	LRPNREC	# of records to process
4	(4)	BITSTRING	4	LRPCCHH	(CCHH) Seek address (CCHH)
8	(8)	BITSTRING	5	LRPCCHR1(0)	(CCHHR) Search address
8	(8)	BITSTRING	4	LRPCCHH1	(CCHH) Cylinder and head numbers
12	(C)	BITSTRING	1	LRPREC1	(R) Record number
13	(D)	BITSTRING	1	LRPSECT1	Sector number
14	(E)	BITSTRING	2	LRPTLEN	Transfer length factor
14	(E)	X'10'	0	LRPLEN1	"*-LRPARM" Len of standard data packet

Table 49. Cross Reference for $CCW

Name	Offset	Hex Tag
$CCWS	0	
ALWDATAC	0	7B
BLKDATAC	0	73
CC	0	40
CCWADDR	0	1
CCWCMD	0	0
CCWCOUNT	0	6
CCWFLAG	0	4
CCWLEN	0	6
CCWOP	0	0
CCWRESVD	0	5
CCW1ADDR	0	4
CCW1CMD	0	0
CCW1CNT	0	2
CCW1FLAG	0	1
CCW1LEN	0	2
CCW1OP	0	0
CCW1RESV	0	1
CKD	0	1C
CLEARPRT	0	87
CNT	0	10
CNTNU	0	4
CNTRL	0	3
DATA	0	4
DC	0	80
DEFXTNT	0	63
EQ	0	20
FOLDUCS	0	43
GATEUCS	0	EB
HA	0	18

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
HI	0	40
HIEQ	0	60
ID	0	10
IDA	0	4
IMED	0	3
INITPRT	0	37
IPL	0	0
KD	0	C
KEY	0	8
LDCHARMD	0	25
LDCOPYMD	0	35
LDCOPYNO	0	23
LOADFCB	0	63
LOADUCS	0	FB
LOADUSCF	0	F3
LOADWCGM	0	53
LOCRCD	0	47
LROFMT	0	3
LROREAD	0	6
LRORTRAK	0	C
LROWRITE	0	1
LROWTRAK	0	B
LRPARM	0	
LRPAUX	1	
LRPAXTL	1	80
LRPCCHH	4	
LRPCCHH1	8	
LRPCCHR1	8	
LRPD	0	
LRPLEN1	E	10
LRPNREC	3	
LRPOPER	0	
LRPREC1	C	
LRPSECT1	D	
LRPTLEN	E	
MARKFORM	0	17
MIDA	0	1
MIDAW	0	0
MIDAWADR	0	8
MIDAWCNT	0	6
MIDAWFIN	0	20
MIDAWFLG	0	5
MIDAWFLS	0	80
MIDAWFSK	0	40
MT	0	80
NOP	0	3

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
OFFSTACK	0	7
ORIENT	0	2B
PCI	0	8
PRINT	0	1
PRTEOT	0	7
PUNCH	0	1
RAISCOVR	0	6B
READ	0	2
READFCB	0	12
READIO	0	6
READPLB	0	2
READTRD	0	A6
READUCS	0	A
RECALIB	0	13
REC0	0	14
RESTORE	0	17
RLSDISK	0	B0
RSVDISK	0	90
SECTOR	0	20
SEEK	0	7
SEEKCYL	0	B
SEEKHD	0	1B
SELXTAB0	0	47
SELXTAB1	0	57
SELXTAB2	0	67
SELXTAB3	0	77
SETFLASH	0	43
SETFMSK	0	1F
SETOVRLY	0	43
SETS	0	23
SETSECTR	0	23
SKIP	0	10
SKPCH0	0	80
SKPCH1	0	88
SKPCH10	0	D0
SKPCH11	0	D8
SKPCH12	0	E0
SKPCH2	0	90
SKPCH3	0	98
SKPCH4	0	A0
SKPCH5	0	A8
SKPCH6	0	B0
SKPCH7	0	B8
SKPCH8	0	C0
SKPCH9	0	C8
SLI	0	20

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
SNS	0	4
SPACNT	0	F
SPAC1	0	8
SPAC2	0	10
SPAC3	0	18
SRCH	0	1
SUS	0	2
TIC	0	8
UNFLDUCS	0	23
UPDT	0	80
VARYSNS	0	27
WRITE	0	1
WRITEIO	0	5
WRITETRD	0	A5

$CDCWORK information

$CDCWORK heading information

Common name: JES2 Cross-member device status PCE work area

Macro ID: $CDCWORK

DSECT name: PCE ($CDCWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol CDCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $CDCPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 CDC Processor and by its support routines and exits. $CDCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CDCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECDCID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$CDCWORK mapping

Table 50. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	CHARACTER	16	CDCMBNAM	Mailbox name for dev data

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
344	(158)	SIGNED	4	CDCXCECB(0)	XECB for XCF posts
368	(170)	ADDRESS	4	CDCXBUFA	Address of current XREQ
372	(174)	ADDRESS	4	CDCXBUFP	Current data area pointer
376	(178)	SIGNED	4	CDCXBUFL	Current data area length
380	(17C)	BITSTRING	8	CDCXTOKN	Current XCF message token
388	(184)	ADDRESS	4	CDCACKPT	Acknowledgement XREQ ptr
392	(188)	ADDRESS	4	CDCSNDBF	Address of send buffer
396	(18C)	SIGNED	4	CDCERRCT	ABEND count
400	(190)	BITSTRING	4	CDCMEMUP	Previous member up mask
404	(194)	BITSTRING	4	CDCCDCUP	Previous CDC up mask
408	(198)	BITSTRING	4	CDCWRKAF	Working affinity mask
412	(19C)	BITSTRING	4	CDCNITAF	Aff mask for NIT updates
416	(1A0)	ADDRESS	4	CDCSHEAD	Head/Tail of
420	(1A4)	ADDRESS	4	CDCSTAIL	synch elements
424	(1A8)	ADDRESS	8	CDCNITCP	Ptr to copy of local CNITs
		List form macros for JESXCF services			
432	(1B0)	DBL WORD	8	(0)	
432	(1B0)	BITSTRING	160	CDCIXLST	JESXCF list form macros
592	(250)	DBL WORD	8	CDCIXEND(0)	End of list form area
		------- IXZXIXAC MF=(L,CDCXIXAC) Acknowledge message MACDATE -11/12/03-<1>			
0	(0)	X'1B0'	0	M00M1148	"CDCXIXAC" ++ IXZXIXAC NAME
432	(1B0)	DBL WORD	8	CDCXIXAC(0)	++ IXZXIXAC PARM LIST
432	(1B0)	BITSTRING	1	CDCXIXAC_XVERSION	++ INPUT XVERSION
433	(1B1)	CHARACTER	6	CDCXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
439	(1B7)	BITSTRING	1	CDCXIXAC_XSTB	++ INPUT
		1...		CDCXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CDCXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
440	(1B8)	BITSTRING	8	CDCXIXAC_XMSGTOKEN	++ XMSGTOKEN
448	(1C0)	ADDRESS	4	CDCXIXAC_XDATA	++ XDATA
452	(1C4)	SIGNED	4	CDCXIXAC_XDATALEN	++ XDATALEN
456	(1C8)	SIGNED	4	CDCXIXAC_XUSERRC	++ XUSERRC
460	(1CC)	SIGNED	4	CDCXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
464	(1D0)	SIGNED	4	CDCXIXAC_XSYSRC	++ XSYSRC
468	(1D4)	SIGNED	4	CDCXIXAC_XSYSRSN	++ XSYSRSN
472	(1D8)	BITSTRING	1	CDCXIXAC_XKEYS	++ FIELD_LABEL
		1...		CDCXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		CDCXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CDCXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CDCXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CDCXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
473	(1D9)	BITSTRING	1	CDCXIXAC_XMSGATTR	++ INPUT
		1...		CDCXIXAC_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CDCXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
473	(1D9)	X'2A'	0	CDCXIXACL	"*-CDCXIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
474	(1DA)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,CDCXIXMB) Create mailbox MACDATE -93/05/10-<1>					
432	(1B0)	SIGNED	2	M00M1150(0)	IXZXIXMB-1
432	(1B0)	DBL WORD	8	CDCXIXMB(0)	++ IXZXIXMB PARM LIST
432	(1B0)	BITSTRING	1	CDCXIXMB_XVERSION	++ INPUT XVERSION
433	(1B1)	CHARACTER	6	CDCXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
439	(1B7)	CHARACTER	1	CDCXIXMB_XRSV0001	++ RESERVED XRSV0001
440	(1B8)	CHARACTER	16	CDCXIXMB_XMBOXNAME	++ XMBOXNAME
456	(1C8)	ADDRESS	4	CDCXIXMB_XPOSTXIT	++ XPOSTXIT
460	(1CC)	ADDRESS	4	CDCXIXMB_XPOSTDATA	++ XPOSTDATA
464	(1D0)	SIGNED	4	CDCXIXMB_XPOSTALET	++ XPOSTALET
468	(1D4)	SIGNED	4	CDCXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
472	(1D8)	BITSTRING	1	CDCXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CDCXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		CDCXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
472	(1D8)	X'29'	0	CDCXIXMBL	"*-CDCXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
474	(1DA)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,CDCXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
432	(1B0)	SIGNED	2	M00M1151(0)	IXZXIXMD-1
432	(1B0)	DBL WORD	8	CDCXIXMD(0)	++ IXZXIXMD PARM LIST
432	(1B0)	BITSTRING	1	CDCXIXMD_XVERSION	++ INPUT XVERSION
433	(1B1)	CHARACTER	6	CDCXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
439	(1B7)	BITSTRING	1	CDCXIXMD_XSTB	++ INPUT
		1...		CDCXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CDCXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
440	(1B8)	CHARACTER	16	CDCXIXMD_XMBOXNAME	++ XMBOXNAME
456	(1C8)	SIGNED	4	CDCXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
456	(1C8)	X'1C'	0	CDCXIXMDL	"*-CDCXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
460	(1CC)	ADDRESS	2	(0)	Ensure area fits

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXRM MF=(L,CDCXIXRM) Receive message MACDATE -93/05/10-<1>					
432	(1B0)	SIGNED	2	M00M1152(0)	IXZXIXRM-1
432	(1B0)	DBL WORD	8	CDCXIXRM(0)	++ IXZXIXRM PARM LIST
432	(1B0)	BITSTRING	1	CDCXIXRM_XVERSION	++ INPUT XVERSION
433	(1B1)	CHARACTER	6	CDCXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
439	(1B7)	CHARACTER	1	CDCXIXRM_XRSV0001	++ RESERVED XRSV0001
440	(1B8)	CHARACTER	16	CDCXIXRM_XMBOXNAME	++ XMBOXNAME
456	(1C8)	ADDRESS	4	CDCXIXRM_XDATA	++ XDATA
460	(1CC)	SIGNED	4	CDCXIXRM_XDATALEN	++ XDATALEN
464	(1D0)	BITSTRING	8	CDCXIXRM_XMSGTOKEN	++ XMSGTOKEN
472	(1D8)	SIGNED	4	CDCXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
476	(1DC)	BITSTRING	1	CDCXIXRM_XMSGFETCH	++ INPUT
		1...		CDCXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CDCXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CDCXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CDCXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
477	(1DD)	BITSTRING	1	CDCXIXRM_XKEYS	++ FIELD_LABEL
		1...		CDCXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
477	(1DD)	X'2E'	0	CDCXIXRML	"*-CDCXIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
478	(1DE)	ADDRESS	2	(0)	Ensure area fits
592	(250)	DBL WORD	8	(0)	Force double-word alignment
592	(250)	X'108'	0	CDCPCEWS	"*-PCEWORK" Length of work area

Table 51. Structure CDCSYN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CDCSYN	
0	(0)	ADDRESS	4	CDCSYNNX	Next pointer ($FIFOENQ)
4	(4)	ADDRESS	4	CDCSYNPR	Prev pointer ($FIFOENQ)
8	(8)	BITSTRING	1	CDCSYNTY	Type (See CDCTTYPE)
9	(9)	BITSTRING	1	CDCSYNFG	Flags
		1...		CDCSYNFC	"B'10000000'" CREATE the control block
10	(A)	BITSTRING	1	CDCBUSY	Member ID sending request
11	(B)	BITSTRING	1		Reserved
12	(C)	ADDRESS	4	CDCSYNAD	Control block address
16	(10)	ADDRESS	8	CDCSYN64	64 bit control block addr
16	(10)	X'18'	0	CDCSYNLN	"*-CDCSYN" Length of element

Table 52. Cross Reference for $CDCWORK

Name	Offset	Hex Tag
CDCACKPT	184	
CDCBUSY	A	
CDCCDCUP	194	
CDCERRCT	18C	
CDCIXEND	250	
CDCIXLST	1B0	
CDCMBNAM	148	E2E8E2D1
CDCMEMUP	190	
CDCNITAF	19C	
CDCNITCP	1A8	
CDCPCEWS	250	108
CDCSHEAD	1A0	
CDCSNDBF	188	
CDCSTAIL	1A4	
CDCSYN	0	
CDCSYNAD	C	
CDCSYNFC	9	80
CDCSYNFG	9	
CDCSYNLN	10	18
CDCSYNNX	0	
CDCSYNPR	4	
CDCSYNTY	8	
CDCSYN64	10	
CDCWRKAF	198	
CDCXBUFA	170	
CDCXBUFL	178	
CDCXBUFP	174	
CDCXCECB	158	
CDCXIXAC	1B0	
CDCXIXAC_KEYUSED_DATA	1D8	80
CDCXIXAC_KEYUSED_DATALEN	1D8	40
CDCXIXAC_KEYUSED_SYSRC	1D8	10
CDCXIXAC_KEYUSED_SYSRSN	1D8	8
CDCXIXAC_KEYUSED_USERRC	1D8	20
CDCXIXAC_XDATA	1C0	
CDCXIXAC_XDATALEN	1C4	
CDCXIXAC_XEYECATCH	1B1	
CDCXIXAC_XGROUPTOKEN	1CC	
CDCXIXAC_XKEYS	1D8	
CDCXIXAC_XMSGATTR	1D9	
CDCXIXAC_XMSGATTR_EXPRESS	1D9	40
CDCXIXAC_XMSGATTR_J3CONNECT	1D9	80
CDCXIXAC_XMSGTOKEN	1B8	
CDCXIXAC_XSTB	1B7	
CDCXIXAC_XSTB_NO	1B7	80
CDCXIXAC_XSTB_YES	1B7	40

Table 52. Cross Reference for $CDCWORK (continued)

Name	Offset	Hex Tag
CDCXIXAC_XSYSRC	1D0	
CDCXIXAC_XSYSRSN	1D4	
CDCXIXAC_XUSERRC	1C8	
CDCXIXAC_XVERSION	1B0	
CDCXIXACL	1D9	2A
CDCXIXMB	1B0	
CDCXIXMB_XEYECATCH	1B1	
CDCXIXMB_XGROUPTOKEN	1D4	
CDCXIXMB_XMBOXNAME	1B8	
CDCXIXMB_XPOSTALET	1D0	
CDCXIXMB_XPOSTDATA	1CC	
CDCXIXMB_XPOSTXIT	1C8	
CDCXIXMB_XRSV0001	1B7	
CDCXIXMB_XSYSEVENT_NO	1D8	40
CDCXIXMB_XSYSEVENT_YES	1D8	80
CDCXIXMB_XSYSEVENTS	1D8	
CDCXIXMB_XVERSION	1B0	
CDCXIXMBL	1D8	29
CDCXIXMD	1B0	
CDCXIXMD_XEYECATCH	1B1	
CDCXIXMD_XGROUPTOKEN	1C8	
CDCXIXMD_XMBOXNAME	1B8	
CDCXIXMD_XSTB	1B7	
CDCXIXMD_XSTB_NO	1B7	80
CDCXIXMD_XSTB_YES	1B7	40
CDCXIXMD_XVERSION	1B0	
CDCXIXMDL	1C8	1C
CDCXIXRM	1B0	
CDCXIXRM_KEYUSED_MSGFETCH	1DD	80
CDCXIXRM_XDATA	1C8	
CDCXIXRM_XDATALEN	1CC	
CDCXIXRM_XEYECATCH	1B1	
CDCXIXRM_XGROUPTOKEN	1D8	
CDCXIXRM_XKEYS	1DD	
CDCXIXRM_XMBOXNAME	1B8	
CDCXIXRM_XMSGFETCH	1DC	
CDCXIXRM_XMSGFETCH_ACKS	1DC	10
CDCXIXRM_XMSGFETCH_ALL	1DC	80
CDCXIXRM_XMSGFETCH_MESSAGES	1DC	40
CDCXIXRM_XMSGFETCH_SYSEVENT	1DC	20
CDCXIXRM_XMSGTOKEN	1D0	
CDCXIXRM_XRSV0001	1B7	
CDCXIXRM_XVERSION	1B0	
CDCXIXRML	1DD	2E
CDCXTOKN	17C	
M00M1148	0	1B0

Table 52. Cross Reference for $CDCWORK (continued)

Name	Offset	Hex Tag
M00M1150	1B0	
M00M1151	1B0	
M00M1152	1B0	
PCE	0	

$CHK information

$CHK programming interface information

$CHK is a programming interface.

$CHK heading information

Common name: JES2 FSI Checkpoint Record

Macro ID: $CHK

DSECT name: CHK

Owning component: JES2 (SC1BH)

Eye-catcher ID: CHK
Offset: CHKID-CHK
Length: L'CHKID

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage below 16 meg line

Size: See CHKAZLNG

Created by: HASPPRPU (via $GETWORK)
$#ALCHK allocated SPOOL space.

Pointed to by: WRMCHKBF field of the $WARMWRK data area
PPPCHKBF field of the $PPPWORK data area
PSPCKPTB field of the $PSOWORK data area
SPOOL MTTR kept in JOECPADR

Serialization: Serialized by standard JES2 Main task serialization.

Function: Maps the data area describing that information needed to understand where a printing or PSO function was when it reached a significant point in logic.
This is used to reposition printers when they are resume working on a piece of output.

$CHK mapping

Table 53. Structure CHKDSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CHKDSECT	HASP FSI CKPT RECORD DSECT
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	CHKSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	CHKJID	Eyecatcher
108	(6C)	CHARACTER	8	CHKJNAME	Job name

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	SIGNED	4	CHKJBNUM	Job number
120	(78)	SIGNED	4	CHKJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	CHKSPLNG	"*-CHKJID"

```
  %CHKPRO: ;
  01 CHANGE ACTIVITY:
                 MVS/SP RELEASE 3 LEVEL 3 (SP1.3.3, JBB1329)
   $VC1PXXX=PTM HBB5530 950915 VLC: BCP PTM xxx Ext Classifi
   $R04LWLM=WLM HBB6604 970317 J_K2: Misc fixes
   $R04P498=WLM HBB6604 970331 J_S1:
   $Z05LENF=ENVIRON HBB7708 021003 .: ENF 58 for checkpoints
   A000000-999999 CREATED FOR MVS 1.3.3
01 NOTES:
     None
  %GOTO CHKDCL;
```

128	(80)	DBL WORD	8	(0)	
128	(80)	X'80'	0	IAZCHK	"*,0,C'J'"
128	(80)	X'80'	0	CHK	"IAZCHK,0,C'J'" Alternate DSECT name
128	(80)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
132	(84)	SIGNED	2	CHKLNGTH	CHKPT LENGTH
134	(86)	SIGNED	2		RESERVED
136	(88)	CHARACTER	64	CHKJESWK	TO BE FILLED IN BY JES
200	(C8)	CHARACTER	8	CHKRBA	JES EQUIVALENT OF A RBA
208	(D0)	SIGNED	4	CHKDEV	DEVICE TYPE
212	(D4)	SIGNED	4	CHKMOD	MODEL NUMBER
216	(D8)	SIGNED	4	CHKCOPY	COPY COUNT
220	(DC)	SIGNED	4	CHKTRNC	TRANSMISSION COUNT
224	(E0)	SIGNED	4	CHKREC	LOGICAL RECORD COUNT(FROM SPOOL)
228	(E4)	SIGNED	4	CHKPAGE	PHYSICAL SHEET COUNT
232	(E8)	CHARACTER	8	CHKPROD	PRODUCT THAT CREATED CKPT REC
240	(F0)	SIGNED	4	CHKVER	VERSION OF PRODUCT
244	(F4)	SIGNED	4	CHKRELS	RELEASE OF PRODUCT
248	(F8)	SIGNED	4	CHKMODF	MODIFICATION LEVEL OF PRODUCT
252	(FC)	SIGNED	4	CHKSERV	SERVICE LEVEL OF PRODUCT
252	(FC)	X'80'	0	CHKLEN	"*-CHK"

```
      The following fields overlay the 64 byte CHKJESWK
      area generated by IAZCHK.
```

136	(88)	SIGNED	2	CHKJRCB	OFFSET TO RCB IN BUFFER
138	(8A)	SIGNED	2	CHKPDDB	DISPLACEMENT OF PDDB INTO IOT
140	(8C)	SIGNED	4	CHKPPCT	PDDB PAGE COUNT
144	(90)	SIGNED	4	CHKTLNC	TOTAL JOE LINE COUNT
148	(94)	SIGNED	4	CHKTPCT	TOTAL JOE PAGE COUNT (PHYSICAL)
152	(98)	BITSTRING	4	CHKMTTR_Z11	Data buffer track address (MQTR) Only valid at version CHKVER0.
156	(9C)	BITSTRING	4	CHKIOTTC_Z11	IOT track address (MQTR). (MQTR) Only valid at version CHKVER0.
160	(A0)	BITSTRING	1	CHKCOPYC	CURRENT COPY NUMBER
161	(A1)	BITSTRING	1	CHKBOFF	CURRENT OFFSET INTO TRACKCELL
162	(A2)	BITSTRING	1	CHKCPYG	CURRENT OFFSET INTO COPY GROUP

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
163	(A3)	BITSTRING	1	CHKTNDS	TOTAL JOE DATASET COUNT
	KEEP NEXT TWO FIELDS TOGETHER FOR $DU COMMAND				
164	(A4)	SIGNED	4	CHKCRECN	CURRENT RECORD NUMBER
168	(A8)	SIGNED	4	CHKCPAGN	CURRENT PAGE NUMBER
172	(AC)	CHARACTER	12	CHKJOID(0)	JOE ID BLOCK FOR CHK VALIDATION
172	(AC)	CHARACTER	8	CHKJOENM	JOE OUTPUT GROUP NAME(JOENAME)
180	(B4)	CHARACTER	2	CHKJOID1	JOE OUTPUT GROUP ID (JOEID1)
182	(B6)	CHARACTER	2	CHKJOID2	JOE OUTPUT GROUP ID (JOEID2)
184	(B8)	BITSTRING	1		Reserved for future use
185	(B9)	SIGNED	1	CHKVERS	CHK version:
185	(B9)	X'0'	0	CHKVER0	"0" Pre-z/OS 1.12 (MTTRs)
185	(B9)	X'C'	0	CHKVER12	"12" z/OS 1.12+ (MQTRs)
186	(BA)	SIGNED	2	CHKPPHPC	PDDB PHYSICAL PAGE COUNT
188	(BC)	BITSTRING	6	CHKMQTR	Data buffer track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	BITSTRING	6	CHKIOTTK	IOT track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	X'88'	0	CHKDATA	"CHKJESWK,*-CHKJESWK" CHK DATA AREA
	The following fields overlay the 8 byte CHKRBA area generated by IAZCHK.				
200	(C8)	BITSTRING	1		Reserved
201	(C9)	BITSTRING	4	CHKRBATA	Data buffer Track Address (MTTR)
205	(CD)	BITSTRING	3	CHKRBARN	RECORD NUMBER WITHIN BUFFER
256	(100)	SIGNED	4	(0)	PRESERVE FULL WORD ALIGNMENT
256	(100)	X'100'	0	CHKAZLNG	"*-CHKDSECT" Length of DSECT
	FLAG EQUATES FOR $#CHK MACRO INLINE PARM LIST				
		1...		CHK1RD	"B'10000000'" TYPE=READ OPTION $#CHK MACRO
		.1..		CHK1WR	"B'01000000'" TYPE=WRITE OPTION $#CHK MACRO
		..1.		CHK1YW	"B'00100000'" WAIT=YES OPTION $#CHK MACRO
		...1		CHK1NW	"B'00010000'" WAIT=NO OPTION $#CHK MACRO
		.... 1...		CHK1RS5	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		CHK1RS6	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		CHK1RS7	"B'00000010'" RESERVED FOR FUTURE USE
		1		CHK1RS8	"B'00000001'" RESERVED FOR FUTURE USE
	FLAG EQUATES FOR $#ALCHK MACRO INLINE PARM LIST				
		1...		CHK2WRI	"B'10000000'" WRIOT=YES OPTION $#ALCHK MACRO
		.1..		CHK2WRJ	"B'01000000'" WRJCT=YES OPTION $#ALCHK MACRO
		..1.		CHK2IOT	"B'00100000'" IOT ADDR PASSED TO $#ALCHK

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CHK2JCT	"B'00010000'" JCT ADDR PASSED TO $#ALCHK
		.... 1...		CHK2YJL	"B'00001000'" LOCK=YES OPTION $#ALCHK MACRO
		.... .1..		CHK2QUE	"B'00000100'" Use $CKPTQUE to update JOE
		.... ..1.		CHK2RS7	"B'00000010'" RESERVED FOR FUTURE USE
		1		CHK2RS8	"B'00000001'" RESERVED FOR FUTURE USE

Table 54. Cross Reference for $CHK

Name	Offset	Hex Tag
CHK	80	80
CHKAZLNG	100	100
CHKBOFF	A1	
CHKCOPY	D8	
CHKCOPYC	A0	
CHKCPAGN	A8	
CHKCPYG	A2	
CHKCRECN	A4	
CHKDATA	C2	88
CHKDEV	D0	
CHKDSECT	0	
CHKID	80	
CHKIOTTC_Z11	9C	
CHKIOTTK	C2	
CHKJBKEY	78	
CHKJBNUM	74	
CHKJESWK	88	
CHKJID	68	
CHKJNAME	6C	
CHKJOENM	AC	
CHKJOID	AC	
CHKJOID1	B4	
CHKJOID2	B6	
CHKJRCB	88	
CHKLEN	FC	80
CHKLNGTH	84	
CHKMOD	D4	
CHKMODF	F8	
CHKMQTR	BC	
CHKMTTR_Z11	98	
CHKPAGE	E4	
CHKPDDB	8A	
CHKPPCT	8C	
CHKPPHPC	BA	
CHKPROD	E8	
CHKRBA	C8	

Table 54. Cross Reference for $CHK (continued)

Name	Offset	Hex Tag
CHKRBARN	CD	
CHKRBATA	C9	
CHKREC	E0	
CHKRELS	F4	
CHKSERV	FC	
CHKSPLNG	7C	18
CHKSTART	0	68
CHKTLNC	90	
CHKTNDS	A3	
CHKTPCT	94	
CHKTRNC	DC	
CHKVER	F0	
CHKVERS	B9	
CHKVER0	B9	0
CHKVER12	B9	C
CHK1NW	100	10
CHK1RD	100	80
CHK1RS5	100	8
CHK1RS6	100	4
CHK1RS7	100	2
CHK1RS8	100	1
CHK1WR	100	40
CHK1YW	100	20
CHK2IOT	100	20
CHK2JCT	100	10
CHK2QUE	100	4
CHK2RS7	100	2
CHK2RS8	100	1
CHK2WRI	100	80
CHK2WRJ	100	40
CHK2YJL	100	8
IAZCHK	80	80

$CICB information

$CICB heading information

Common name: C/I address space control block

Macro ID: $CICB

DSECT name: CICB

Owning component: JES2 (SC1BH)

Eye-catcher ID: CICB
Offset: CCBID-CICB
Length: L'CCBID

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $CICB resides in common storage.

Size:	See CCBLEN
Created by:	HASPCNVT PCE
Pointed to by:	CCBNEXT field of the $CICB data area CIPCICB field of the $CNVWORK data area DCNVCICB field of the $DTECNV data area CCTCICB field of the $HCCT data area
Serialization:	Created when a C/I address space is being started. Otherwise it is updated by the C/I address space main task and only updated by it.
Function:	This DSECT maps the CSA data associated with a JES2 C/I address space. It serves as an anchor for all data areas related to the C/I subtasks.

$CICB mapping

Table 55. Structure CICB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CICB	, JES2 C/I address space CB
0	(0)	CHARACTER	8	CCBID	Eyecatcher
8	(8)	ADDRESS	1	CCBVER	CB version
8	(8)	X'1'	0	CCBVERN	"1" Current version number
9	(9)	SIGNED	1	CCBSEQ	Address space sequence number
10	(A)	BITSTRING	1	CCBSTAT	Status flags for the address
		1...		CCBSTERM	"B'10000000'" Terminate address space
		.1..		CCBSEOM	"B'01000000'" Address space went through EOM
		..1.		CCBSFAIL	"B'00100000'" Addr space start failed
11	(B)	BITSTRING	1	CCBREQS	Requests flags for main task
		1...		CCBRPROC	"B'10000000'" Scan for PROCLIBs to process
		.1..		CCBRSUBS	"B'01000000'" Scan for subtask work
12	(C)	ADDRESS	4	CCBNEXT	Next CICB on CCTCCB chain
16	(10)	ADDRESS	4	CCBCIWRK	CI work area in JES2 CI addr space
20	(14)	CHARACTER	8	CCBNAME	Address space name
28	(1C)	CHARACTER	8	CCBPROG	PROG= to run the address space
36	(24)	BITSTRING	8	CCBPRTKN	Token for CSVDYLPA DELETE request
44	(2C)	BITSTRING	24	CCBODA	ASCRE output area (IHAASEO)
68	(44)	SIGNED	4	CCBCECB	Completion ECB (from subtask)
72	(48)	SIGNED	4	CCBWECB	Work ECB (to subtask)
76	(4C)	ADDRESS	4	CCBCIPRM	Address space CIPARM chain
80	(50)	ADDRESS	4	CCBCIPWR	CIPARM work queue
84	(54)	ADDRESS	4	CCBPAD	PROCLIB PAD to be allocated
88	(58)	DBL WORD	8	(0)	Alignment
88	(58)	X'58'	0	CCBLEN	"*-CICB" Length of work area

Table 56. Cross Reference for $CICB

Name	Offset	Hex Tag
CCBCECB	44	
CCBCIPRM	4C	
CCBCIPWR	50	
CCBCIWRK	10	
CCBID	0	C3C9C3C2

Table 56. Cross Reference for $CICB (continued)

Name	Offset	Hex Tag
CCBLEN	58	58
CCBNAME	14	D1C5E2F2
CCBNEXT	C	
CCBODA	2C	
CCBPAD	54	
CCBPROG	1C	C8C1E291
CCBPRTKN	24	
CCBREQS	B	
CCBRPROC	B	80
CCBRSUBS	B	40
CCBSEOM	A	40
CCBSEQ	9	
CCBSFAIL	A	20
CCBSTAT	A	
CCBSTERM	A	80
CCBVER	8	
CCBVERN	8	1
CCBWECB	48	
CICB	0	

$CID information

$CID heading information

Common name: Connect ID cell

Macro ID: $CID

DSECT name: CID

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CID'
Offset: CIDEYE-CID
Length: 4

Storage attributes: Subpool: see CIDPOOL
Key: 1
Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of the JES2 address space.
In a JES2 NJE Server address sPace

Size: See CIDSIZE

Created by: HASPCON under WTO subtask

Pointed to by: CSACIDCH field of the $DTEWTO data area
CSACID field of the $DTEWTO data area

Serialization: Used by $HASPWTO subtask only.

Function: Contains the connect id for a multiline WTO.

$CID mapping

Table 57. Structure CID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CID	
0	(0)	CHARACTER	4	CIDEYE	NSCT eyecatcher

Table 57. Structure CID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	4	CIDNEXT	Chain pointer
8	(8)	ADDRESS	4	CIDPCE	PCE address
12	(C)	SIGNED	4	CIDCONCT	Connect id for MLWTO
16	(10)	BITSTRING	1	CIDFLAG1	Flags
		1...		CID1LONG	"B'10000000'" Consoles truncated MLWTO for being too long
		.1..		CID1TRNC	"B'01000000'" Most recent line was truncated
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	CIDSIZE	"*-CID" Length of data area

Table 58. Cross Reference for $CID

Name	Offset	Hex Tag
CID	0	
CIDCONCT	C	
CIDEYE	0	C3C9C440
CIDFLAG1	10	
CIDNEXT	4	
CIDPCE	8	
CIDSIZE	11	14
CID1LONG	10	80
CID1TRNC	10	40

$CIPARM information

$CIPARM heading information

Common name: C/I subtask parm list

Macro ID: $CIPARM

DSECT name: CIPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: CIPARM
Offset: CIPID-CIPARM
Length: L'CIPID

Storage attributes: Subpool: N/A
Key: 1
Residency: Located in the PAD JES2 $CPOOL in the PSO data space.

Size: See CIPLEN

Created by: HASPCNVT PCE

Pointed to by: CIPCIPA field of the $CIPARM data area
JPCECIP field of the $CNVWORK data area
DCNVCIP field of the $DTECNV data area
CCTCIP field of the $HCCT data area

Serialization: Fields are access by the CNVT PCE when the C/I subtask is waiting for work and by the C/I subtask while the PCE is waiting for conversion to complete.

Function: This data area is used to pass information about jobs to be processed by C/I from the main task to the C/I subtask (either in the JES2 address space or in a JES2 C/I address space). This area should only be used to pass data not as a generic work area.

$CIPARM mapping

Table 59. Structure CIPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIPARM	, JES2 C/I subtask parm list
0	(0)	CHARACTER	8	CIPID	Eyecatcher
8	(8)	ADDRESS	1	CIPVER	CB version
8	(8)	X'1'	0	CIPVERN	"1" Current version number
		There are 3 sequence numbers for each subtask, all are zero based. For subtasks in the JES2 address space, only CIPSEQ is set. CIPSEQ - Overall sequence number, corresponds to PCESEQ. Set by PCE. CIPASSEQ - Sequence number of owning JES2CI address space. Corresponds to CCBSEQ. Set by GETJ2CI service when address space is created. CIPSTSEQ - Sequence number of C/I subtask within the JES2CI address space. Set by GETJ2CI service when subtask is created.			
9	(9)	SIGNED	1	CIPSEQ	Converter sequence number
10	(A)	SIGNED	1	CIPASSEQ	Address space sequence nubmer
11	(B)	SIGNED	1	CIPSTSEQ	Subtask seqence number
12	(C)	ADDRESS	4	CIPCIPA	Next CIPARM on CCTCIP chain
16	(10)	ADDRESS	4	CIPPCE	Related PCE address
20	(14)	ADDRESS	4	CIPCICB	CICB for owning address space (zero if JES2 subtask)
24	(18)	ADDRESS	4	CIPCCBNX	Next CIPARM on CICB CCBCIPRM chain
28	(1C)	ADDRESS	4	CIPCCBWR	Next CIPARM on CICB CCBCIPWR chain
32	(20)	ADDRESS	1	CIPWRFUN	Work request
32	(20)	X'1'	0	CIPWRSTR	"1" Subtask start processeing
32	(20)	X'2'	0	CIPWREND	"2" Subtask terminate request
33	(21)	BITSTRING	1		Reserved
34	(22)	BITSTRING	2	CIPASID	Owning CI address space
36	(24)	ADDRESS	4	CIPDTEA	Associated DTE address
40	(28)	BITSTRING	16	CIPTTOKN	CI subtask TTOKEN
56	(38)	ADDRESS	4	CIPWECBA	Work ECB address (PCE->subtask)
60	(3C)	ADDRESS	4	CIPCECBA	Completion ECB addr (subtask->PCE)
64	(40)	BITSTRING	1	CIPFLG1	Serialized flag byte (Update using OIL/NIL only)
		1...		CIP1REO	"B'10000000'" Reopen PROCLIB data set
		.1..		CIP1CPRC	"B'01000000'" Close all PROCLIB DDs
		..1.		CIP1CRTM	"B'00100000'" CALLRTM requested
		...1		CIP1CRDP	"B'00010000'" CALLRTM w DUMP requested
		.... 1...		CIP1SHTD	"B'00001000'" Shutdown subtask request
		.... .1..		CIP1TERM	"B'00000100'" Subtask has terminated
		.... ..1.		CIP1COMP	"B'00000010'" Subtask completed request
65	(41)	BITSTRING	7		Reserved
		Parameters passed into subtask			

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	SIGNED	4	CIPINPST(0)	Start of input area
72	(48)	SIGNED	4	CIPJQEOF	Offset to JQE to process
76	(4C)	ADDRESS	4	CIPJQEA	JQE address (in CKPT)
80	(50)	SIGNED	4	CIPJBKEY	Job key of job to process
84	(54)	CHARACTER	8	CIPJCLAS	JOBCLASS of the job
92	(5C)	ADDRESS	4	CIPJPAD	PROCLIB PAD address in data space
96	(60)	BITSTRING	1	CIPOFLAG	Option flags
		1...		CIPOINTR	"B'10000000'" Invoke the interpreter after conversion
		.1..		CIPONWAT	"B'01000000'" This is a no wait CNVTR
		..1.		CIPOWEE	"B'00100000'" Wait for Exclusive ENQ
		...1		CIPNOCLS	"B'00010000'" PCE did not find JOBCLASS - subtask must cut proper messages
		.... 1...		CIPOPTRC	"B'00001000'" PCE tracing is active
		.... .1..		CIPDJC	"B'00000100'" Job is associated with a DJC network and is not a logging job. CIPJOBGR contains logging job name.
		.... ..1.		CIPREQUE	"B'00000010'" Job is associated with a JEC job group and is not a logging job. The associated logging was found to be on conversion queue or in process of conversion - Job with schedule card should be re-queued to converter.
97	(61)	BITSTRING	1		Reserved
98	(62)	SIGNED	2	CIPJASID	ASID copied from PCE
100	(64)	BITSTRING	4		Reserved
100	(64)	X'48'	0	CIPINPCL	"CIPINPST,*-CIPINPST" Input area to clear
	Assigned PROCLIB addresses				
104	(68)	ADDRESS	4	CIPOPAD	PROCLIB PAD subtask has OPEN
108	(6C)	ADDRESS	4	CIPPAD0	PROC00 PAD address in data space
112	(70)	BITSTRING	4		Reserved
	Input/Output fields section - subtask. If CIPOFLAG -> CIPDJC then CIPJOBGR contains Job Group Name. If CIPDJC not on - then CIPJOBGR is an OUTPUT field.				
116	(74)	CHARACTER	8	CIPJOBGR	Job group name
116	(74)	X'74'	0	CIPINOCL	"CIPJOBGR,*-CIPJOBGR" Input/output area to clear
	Parameters returned from the subtask				
124	(7C)	SIGNED	4	CIPOUTST(0)	Start of output area
124	(7C)	SIGNED	4	CIPMNBCP	Minimum MVS level for job
128	(80)	CHARACTER	8	CIPPERF	Performance Group for job from //JOB JCL statement (left justified, blank fill)
136	(88)	CHARACTER	16	CIPSCHE	Scheduling environment for job (left justified, blank fill)
152	(98)	BITSTRING	1	CIPSTAT	Status flags

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIPSAOPN	"B'10000000'" ACBs successfully 'fake' opened
		.1..		CIPSJLSP	"B'01000000'" Set spin eligible in JQA
		..1.		CIPSINTR	"B'00100000'" Job was interpreted
		Converter processing return codes in CIPJRETN are displayed in text format in message HASP305. New reason code should be added there.			
153	(99)	BITSTRING	1	CIPJRETN	JES processing return code
153	(99)	X'0'	0	CIPJROK	"0" Processing successful
153	(99)	X'4'	0	CIPJRAER	"4" $DOGJQE/$DOGCAT error
153	(99)	X'8'	0	CIPJRIOE	"8" I/O error reading CBs
153	(99)	X'C'	0	CIPJWIOE	"12" I/O error writing CBs
153	(99)	X'10'	0	CIPJROPE	"16" Data set open error
153	(99)	X'14'	0	CIPJEXIT	"20" Exit indicated error
153	(99)	X'18'	0	CIPJABND	"24" Subtask ABEND
153	(99)	X'1C'	0	CIPJBCAN	"28" Job canceled
153	(99)	X'20'	0	CIPJBEGR	"32" Job with same name already exists in job group.
153	(99)	X'24'	0	CIPJBMGR	"36" Valid job group not found (ZOD not found)
153	(99)	X'28'	0	CIPJBNJB	"40" Job not associated with the job group
153	(99)	X'2C'	0	CIPJBJGW	"44" WITH= points to a job in the same job group
153	(99)	X'30'	0	CIPJBCRW	"48" Circular WITH= dependency
153	(99)	X'34'	0	CIPJBCKL	"52" JOBGROUP requires z22
154	(9A)	BITSTRING	3	CIPFRSN	Fake open failure info
157	(9D)	BITSTRING	1	CIPJFLAG	Job flags for communication between PCE and subtask
		1...		CIPJFSY	"B'10000000'" Subtask captured system symbol table
		.1..		CIPJFIN	"B'01000000'" Job has datasets with symbol substitution
		..1.		CIPJFSTB	"B'00100000'" STARTBY specified (see CIPSTBY)
		...1		CIPJFUNT	"B'00010000'" HOLDUNTL specified (see CIPUNTL)
		.... 1...		CIPJFJGR	"B'00001000'" JOBGROUP specified (see CIPJOBGR)
		.... .1..		CIPJFUNU	"B'00000100'" HOLDUNTL time is in UTC (OFF - local time)
		.... ..1.		CIPJFSTU	"B'00000010'" STARTBY time is in UTC (OFF - local time)
		1		CIPJFWTH	"B'00000001'" WITH= specified (see CIPWITH)
158	(9E)	BITSTRING	6	CIPUNTL	HOLDUNTL timestamp in ETOD format
164	(A4)	BITSTRING	6	CIPSTBY	STARTBY timestamp in ETOD format
172	(AC)	SIGNED	4	CIPJOBID	Logging job ID
176	(B0)	CHARACTER	8	CIPWITH	WITH= job name
184	(B8)	CHARACTER	8	CIPBEFOR	BEFORE= job name

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	CHARACTER	8	CIPAFTER	AFTER= job name
200	(C8)	BITSTRING	1	CIPJFLG2	Job flags for communication between PCE and subtask
		1...		CIPJ2BEF	"B'10000000'" BEFORE= specified (see CIPBEFOR)
		.1..		CIPJ2AFT	"B'01000000'" AFTER= specified (see CIPAFTER)
		..1.		CIPJ2DLY	"B'00100000'" DELAY=YES specified.
		...1		CIPJ2HGR	"B'00010000'" HOLDUNTL time granularity (see CIPUNTL) : ON = seconds OFF = minutes
201	(C9)	BITSTRING	3		Reserved
204	(CC)	SIGNED	4	CIPUNTLI	For HOLDUNTL time in UTC interval in seconds
208	(D0)	DBL WORD	8	CIPPRFST(0)	Performance stats for SUBSPERF
208	(D0)	DBL WORD	8	CIPQTIME	C/I queue time (micro)
216	(D8)	DBL WORD	8	CIPRTIME	C/I run time (micro)
224	(E0)	DBL WORD	8	CIPCTIME	C/I CPU time (micro)
		Converter processing - HASP305 message text substitution options.			
232	(E8)	BITSTRING	1	CIPSUBOP	HASP305 substitution opt
232	(E8)	X'0'	0	CIPSUBNO	"0" None
232	(E8)	X'4'	0	CIPGRPNM	"4" Display JOBGROUP name
233	(E9)	BITSTRING	3		Reserved
236	(EC)	SIGNED	4	CIPPGMLN	Length of program list
236	(EC)	X'7C'	0	CIPOUTCL	"CIPOUTST,*-CIPOUTST" Output area to clear
		This line deleted by APAR OA57476 This line deleted by APAR OA57476			
240	(F0)	DBL WORD	8	(0)	Allignment
240	(F0)	X'F0'	0	CIPLEN	"*-CIPARM" Length of work area
		Program list Format of each entry: - 1 byte length - 1 to 8 character PGM name from EXEC PGM=			
240	(F0)	DBL WORD	8	(0)	
240	(F0)	BITSTRING	2304	CIPPGMLS	Start of program list
2544	(9F0)	DBL WORD	8	CIPJCTST(0)	Start of JCT area

Table 60. Cross Reference for $CIPARM

Name	Offset	Hex Tag
CIPAFTER	C0	
CIPARM	0	
CIPASID	22	
CIPASSEQ	A	
CIPBEFOR	B8	
CIPCCBNX	18	
CIPCCBWR	1C	

Table 60. Cross Reference for $CIPARM (continued)

Name	Offset	Hex Tag
CIPCECBA	3C	
CIPCICB	14	
CIPCIPA	C	
CIPCTIME	E0	
CIPDJC	60	4
CIPDTEA	24	
CIPFLG1	40	
CIPFRSN	9A	
CIPGRPNM	E8	4
CIPID	0	C3C9D7C1
CIPINOCL	74	74
CIPINPCL	64	48
CIPINPST	48	
CIPJABND	99	18
CIPJASID	62	
CIPJBCAN	99	1C
CIPJBCKL	99	34
CIPJBCRW	99	30
CIPJBEGR	99	20
CIPJBJGW	99	2C
CIPJBKEY	50	
CIPJBMGR	99	24
CIPJBNJB	99	28
CIPJCLAS	54	
CIPJCTST	9F0	
CIPJEXIT	99	14
CIPJFIN	9D	40
CIPJFJGR	9D	8
CIPJFLAG	9D	
CIPJFLG2	C8	
CIPJFSTB	9D	20
CIPJFSTU	9D	2
CIPJFSY	9D	80
CIPJFUNT	9D	10
CIPJFUNU	9D	4
CIPJFWTH	9D	1
CIPJOBGR	74	
CIPJOBID	AC	
CIPJPAD	5C	
CIPJQEA	4C	
CIPJQEOF	48	
CIPJRAER	99	4
CIPJRETN	99	
CIPJRIOE	99	8
CIPJROK	99	0
CIPJROPE	99	10

Table 60. Cross Reference for $CIPARM (continued)

Name	Offset	Hex Tag
CIPJWIOE	99	C
CIPJ2AFT	C8	40
CIPJ2BEF	C8	80
CIPJ2DLY	C8	20
CIPJ2HGR	C8	10
CIPLEN	F0	F0
CIPMNBCP	7C	
CIPNOCLS	60	10
CIPOFLAG	60	
CIPOINTR	60	80
CIPONWAT	60	40
CIPOPAD	68	
CIPOPTRC	60	8
CIPOUTCL	EC	7C
CIPOUTST	7C	
CIPOWEE	60	20
CIPPAD0	6C	
CIPPCE	10	
CIPPERF	80	
CIPPGMLN	EC	
CIPPGMLS	F0	
CIPPRFST	D0	
CIPQTIME	D0	
CIPREQUE	60	2
CIPRTIME	D8	
CIPSAOPN	98	80
CIPSCHE	88	
CIPSEQ	9	
CIPSINTR	98	20
CIPSJLSP	98	40
CIPSTAT	98	
CIPSTBY	A4	
CIPSTSEQ	B	
CIPSUBNO	E8	0
CIPSUBOP	E8	
CIPTTOKN	28	
CIPUNTL	9E	
CIPUNTLI	CC	
CIPVER	8	
CIPVERN	8	1
CIPWECBA	38	
CIPWITH	B0	
CIPWREND	20	2
CIPWRFUN	20	
CIPWRSTR	20	1
CIP1COMP	40	2

Table 60. Cross Reference for $CIPARM (continued)

Name	Offset	Hex Tag
CIP1CPRC	40	40
CIP1CRDP	40	10
CIP1CRTM	40	20
CIP1REO	40	80
CIP1SHTD	40	8
CIP1TERM	40	4

$CIRWORK information

$CIRWORK programming interface information

The following field is **NOT** programming interface information:

- CIRPRMWR

$CIRWORK heading information

Common name: JES2 Common Initialization Routines PCE Work Area

Macro ID: $CIRWORK

DSECT name: PCE ($CIRWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: The subpool of the HASPIRA module
Key: 1
Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See symbol CIRWLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: The initialization base PCE along with this work area is assembled into the HASPIRA module, which is contained in the HASPINIT or HASJES20 load module. The base PCE is defined statically using constants and this work area is generated by coding this macro with a DSECT=NO operand.

Pointed to by: See $PCE for other pointer fields that apply to all PCE types.

Serialization: None

Function: The fields in this work area are used by the JES2 Initialization Processor and by its support routines and exits. $CIRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CIRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEINTID in the second byte of field PCEID.
The CIR PCE Work Area is used by the Initialization Routines (IR's) for temporary work areas, routine addresses, and various constants and values. Values required by multiple Initialization Routines are kept there.

$CIRWORK mapping

Table 61. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
		GENERAL FLAG BYTES AND FIELDS COMMON TO ALL IRS			
328	(148)	BITSTRING	1	CIRFLAG1	GENERAL USAGE FLAG 1
		1...		CIRF1HPI	"B'10000000'" Current IRPL stmt from PARMLIB
		.1..		CIRF1INC	"B'01000000'" Current IRPL stmt INCLUDEd
		..1.		CIRF1CI	"B'00100000'" CURRENT IRPL STMT FROM CONSOLE
		...1		CIRF1XI	"B'00010000'" CURRENT IRPL STMT FROM EXIT 19
		.... 1...		CIRF1PER	"B'00001000'" ERROR(S) IN SOME IRPL STMTS
		.... .1..		CIRF1CAN	"B'00000100'" CANCEL STATEMENT PROCESSED
		.... ..1.		CIRF1SSW	"B'00000010'" SINGLE SYSTEM WARM START
		1		CIRF1SER	"B'00000001'" SCAN PROCESSING DIAG ERROR MSG
329	(149)	BITSTRING	1	CIRFLAG2	GENERAL USAGE FLAG 2
		1...		CIRF2JEX	"B'10000000'" JQE extensions rebuilt
		.1..		CIRF2RRD	"B'01000000'" REREAD NECESSARY FOR PARMLIB
		..1.		CIRF2HPO	"B'00100000'" HASPPARM (FIRST) OPEN DONE
		...1		CIRF2CM	"B'00010000'" IRPL IN CONSOLE MODE
		.... 1...		CIRF2ECM	"B'00001000'" IRPL IN 'ERROR' CONSOLE MODE
		.... .1..		CIRF2SSE	"B'00000100'" IRPL, SUPPRESS INITSTMT ERRORS
		.... ..1.		CIRF2CMA	"B'00000010'" ENDING COMMA ON INIT PARM
		1		CIRF2CMT	"B'00000001'" NON-COMPLETE COMMENT ON INIT PARM
330	(14A)	ADDRESS	1	CIRFLAG3	GENERAL USAGE FLAG 3
		1...		CIRF3LST	"B'10000000'" IRPL 'LIST' IN EFFECT
		.1..		CIRF3LOG	"B'01000000'" IRPL 'LOG' IN EFFECT
		..1.		CIRF3MID	"B'00100000'" MSGID NOT SUPPL. IN DIAG TEXT
		...1		CIRF3BDV	"B'00010000'" Bad Verify during patching
		.... 1...		CIRF3IO1	"B'00001000'" I/O error on CKPT1
		.... .1..		CIRF3IO2	"B'00000100'" I/O error on CKPT2
		.... ..1.		CIRF3VE1	"B'00000010'" Validation error on CKPT1
		1		CIRF3VE2	"B'00000001'" Validation error on CKPT2
330	(14A)	X'F'	0	CIRF3ERR	"CIRF3IO1+CIRF3IO2+CIRF3VE1+CIRF3VE2" Mask to test for any CKPT errors
330	(14A)	X'C'	0	CIRF3I12	"CIRF3IO1+CIRF3IO2" I/O error on both datasets

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
330	(14A)	X'3'	0	CIRF3V12	"CIRF3VE1+CIRF3VE2" Validation error on both
330	(14A)	X'9'	0	CIRF3I1V	"CIRF3IO1+CIRF3VE2" I/O error on CKPT1, val. error on CKPT2
330	(14A)	X'6'	0	CIRF3V1I	"CIRF3VE1+CIRF3IO2" Val. error on CKPT1, I/O error on CKPT2
331	(14B)	BITSTRING	1	CIRFLAG4	GENERAL USAGE FLAG 4
		1...		CIRF4ILL	"B'10000000'" INIT LMOD LOADED, NOT HASJES20
		.1..		CIRF4XER	"B'01000000'" ERRORS IN EXIT ROUTINE ADDRS
		..1.		CIRF4SCN	"B'00100000'" $STMTLOG CALLED FROM NPLDISP
		...1		CIRF4RES	"B'00010000'" EXIT RTN NOT IN CSA/LPA
		.... 1...		CIRF4RER	"B'00001000'" Error in reader route code
		.... .1..		CIRF4CHM	"B'00000100'" Chain current DCT via MDCTDCT
		.... ..1.		CIRF4CHD	"B'00000010'" Chain Current DCT via DCTDCB
		1		CIRF4RTE	"B'00000001'" Invalid Route code found
332	(14C)	ADDRESS	4	CIRCKPVR	CKPT VER-REP requests
336	(150)	DBL WORD	8	CIRREPLY	WTOR REPLY AREA
344	(158)	DBL WORD	8	CIRDWORK	DOUBLE WORD WORK AREA
352	(160)	ADDRESS	4	CIRHCT	ADDR OF THE HCT
356	(164)	SIGNED	4	CIRECB	ECB FOR GENERAL INIT USAGE
		IROPTS FIELDS REQUIRED THROUGHOUT INITIALIZATION			
360	(168)	ADDRESS	4	CIRWXIT0	"V(HASPXIT0)" HASPXIT0 ADDR IN HASPINIT LMOD
364	(16C)	ADDRESS	4	CIREXIT0	HASPXIT0 LOAD MODULE ADDR OR 0
368	(170)	ADDRESS	4	CIROPTPF	ADDR OF THE OS PARM FIELD
372	(174)	BITSTRING	100	CIROPTS	HASP OPTIONS STRING
		INIT fields for Priority aging and jesplex resource thresholds			
472	(1D8)	ADDRESS	2	CIRJQRAT	Priority aging rate
474	(1DA)	ADDRESS	1	CIRJQHI	Job priority aging upper
475	(1DB)	ADDRESS	1	CIRJQLOW	and lower limits
476	(1DC)	ADDRESS	2	CIRJORAT	Output priority aging rate
478	(1DE)	ADDRESS	2	CIRJOHI	Output priority aging upper
480	(1E0)	ADDRESS	2	CIRJOLOW	and lower limits
482	(1E2)	ADDRESS	2	CIRJQPRC	JQE threshold percentage
484	(1E4)	ADDRESS	2	CIRJOPRC	JOE threshold percentage
486	(1E6)	ADDRESS	2	CIRJNPRC	Job num threshold percent
488	(1E8)	ADDRESS	2	CIRTGPRC	Track grp threshold percent
490	(1EA)	ADDRESS	2	CIRBTPRC	BERT threshold percentage
492	(1EC)	ADDRESS	2	CIRZJPRC	ZJC threshold percentage

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		IRPL GENERAL PROCESSING FIELDS			
496	(1F0)	ADDRESS	4	CIRSTMTW	ADDRESS OF IRPL STMT BUFFER
500	(1F4)	ADDRESS	4	CIRSTMTT	Address of IRPL translated statement buffer
504	(1F8)	SIGNED	4	CIRSYMBP(0)	Symbol service parm list
516	(204)	ADDRESS	4		Addr of translated length
528	(210)	ADDRESS	4		Addr of return code
532	(214)	SIGNED	4	CIRTRANL	Length of translated str.
536	(218)	SIGNED	4	CIRTRANR	RC from translation service
540	(21C)	SIGNED	2	CIRSTMTC	CURRENT IRPL STATEMENT COUNT
542	(21E)	SIGNED	2	CIRNLLCT	NPLLOG LINE COUNTER (50-1)
544	(220)	SIGNED	2	CIRNLPCT	NPLLOG CURRENT PAGE NUMBER
546	(222)	BITSTRING	1	CIRIRPL1	Flag used in IRPL
		.1..		CIRP1RSM	"B'01000000'" Resuming previous data set
547	(223)	BITSTRING	1		Reserved for future use
548	(224)	SIGNED	4	CIRSDLCT	$SCAN DISPLAY LINE COUNT
552	(228)	ADDRESS	4	CIRX0XRT	ADDR OF XRT FOR EXIT 0
556	(22C)	SIGNED	1	CIRX0#RT	# of exit 0 routines
557	(22D)	ADDRESS	3		RESERVED FOR FUTURE USE
560	(230)	ADDRESS	4	CIRPLWRK	IRPL 24 bit work area
564	(234)	SIGNED	4	CIRS99PT(0)	SVC 99 Request Block pointer
568	(238)	BITSTRING	1	CIRS99RB	SVC 99 Request Block
		SUBROUTINE ADDRESSES			
588	(24C)	ADDRESS	4	CIRNPLLG	"V(NPLLOG)" ADDRESS OF IRPL LOGGING ROUTINE
592	(250)	ADDRESS	4		RESERVED FOR FUTURE USE
596	(254)	ADDRESS	4		RESERVED For Future Use
600	(258)	ADDRESS	4	CIRNQMSG	"V(NQUERY)" ADDRESS FOR QUERY MESSAGE
604	(25C)	ADDRESS	4	CIRNDLAY	"V(NDELAY)" Address for NDELAY routine
		DCT PROCESSING FIELDS			
608	(260)	ADDRESS	4	CIRPDCT	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOOL DCTS
612	(264)	ADDRESS	4	CIRPDCT2	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOL2 DCTS
		NDELAY processing fields STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88			
616	(268)	BITSTRING	24	CIRSTIMS	REMOTE STIMERM SET PARM LIST
616	(268)	X'18'	0	CIRSTMSL	"*-CIRSTIMS" Length of parm list
		STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88			
640	(280)	BITSTRING	16	CIRSTIMC	REMOTE STIMERM TEST/CANCEL PARM LIST

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
640	(280)	X'10'	0	CIRSTMCL	"*-CIRSTIMC" Length of parm list
656	(290)	SIGNED	4	CIRNDCHN	Chain of NDELAY elements
656	(290)	X'0'	0	CIRNDEYE	"0,4,C'C'" Eyecatcher
656	(290)	X'4'	0	CIRNDNXT	"4,4,C'A'" Addr of next element
656	(290)	X'8'	0	CIRNDSTI	"8,4,C'F'" STIMERM ID=id-area
656	(290)	X'C'	0	CIRNDMSG	"12,4,C'A'" Addr of message text
656	(290)	X'10'	0	CIRNDDOM	"16,4,C'F'" NDELAY DOM id
656	(290)	X'14'	0	CIRNDLEN	"20" NDELAY element length
664	(298)	DBL WORD	8		Reserved for future use
	NPLLOG processing fields				
672	(2A0)	CHARACTER	121	CIRNLLNE(0)	NPLLOG output line
672	(2A0)	CHARACTER	1	CIRNLLCC	Carriage control
673	(2A1)	CHARACTER	10	CIRNLLSR	Statement/diagnostic source
686	(2AE)	CHARACTER	5	CIRNLLSH	Statement number text
691	(2B3)	CHARACTER	6	CIRNLLSN	Statement number
691	(2B3)	X'1E'	0	CIRNLLL1	"*-CIRNLLSR" Length of first part of line
703	(2BF)	CHARACTER	10		Blanks
713	(2C9)	CHARACTER	80	CIRNLLST	Statement (all or part)
796	(31C)	ADDRESS	4	CIRMLTEP	Pointer to MLTE parm list
800	(320)	CHARACTER	48	CIRMLTE	MLTE parm list work area
800	(320)	X'320'	0	CIRCNVWK	"CIRMLTE,16" Edit work area
	MISCELLANEOUS FIELDS				
848	(350)	DBL WORD	8	CIRCMTSV	HOLD THE ADDR AND LEN OF STMT CURRENTLY RUNNING IN COMMENT-SCAN
856	(358)	SIGNED	2		Reserved for future use
858	(35A)	BITSTRING	1	CIRFLAG5	General usage flag 5
		1...		CIR5HPDD	"B'10000000'" Have a PARMLIB DD
		..1.		CIR5DSEQ	"B'00100000'" Parmlib Dataset is Seq.
		...1		CIR5HPRM	"B'00010000'" HASPPARM specified
		.1..		CIR5QWIK	"B'01000000'" Jobqueue or JOT rebuilt
		.... 1...		CIR5DMEM	"B'00001000'" Default member specified
		.... .1..		CIR5LPRM	"B'00000100'" Logical Parmlib at EOF
		.... ..1.		CIR5BRTE	"B'00000010'" BERT errors detected
		1		CIR5RRTE	"B'00000001'" Error building RRT
859	(35B)	BITSTRING	1	CIRFLAG6	General usage flag 6
		1...		CIR6DERR	"B'10000000'" Device build error
		.1..		CIR6CLSE	"B'01000000'" Default job class error
		..1.		CIR6SKZL	"B'00100000'" Do not issue z/OS level WTOR when mismatch
		...1		CIR6IRPL	"B'00010000'" IRPL routine in control
860	(35C)	ADDRESS	4	CIRJBMIN	MINIMUM LOCAL JOB NUMBER
864	(360)	ADDRESS	4	CIRJBMAX	MAXIMUM LOCAL JOB NUMBER

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
864	(360)	X'3C'	0	CIRXEMN	"WPLHTXT-WPL+47,2" EXIT NUMBER IN INIT MSG864
864	(360)	X'48'	0	CIRXEMNM	"WPLHTXT-WPL+59,8" EXIT ROUTINE NAME IN MSG864
864	(360)	X'39'	0	CIRGEMR	"WPLHTXT-WPL+44,10" GETMAIN ERROR MSG REASON
864	(360)	X'3D'	0	CIRINFMR	"WPLTXT-WPL+9+48,45" Reason text in MSG HASP448
868	(364)	ADDRESS	4	CIRACCTJ	ADDR OF JES2-TO-NET NETACCT ELEMENTS
872	(368)	ADDRESS	4	CIRACCTN	ADDR OF NET-TO-JES2 NETACCT ELEMENTS
876	(36C)	CHARACTER	8	CIRCURRC	$CKVTAB current value for $HASP496 message
884	(374)	CHARACTER	8	CIRPREVC	$CKVTAB previous value for $HASP496 message
		The TSUCLASS, STCCLASS and JOBCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions must be updated if the corresponding data definition in the converter parameter list is changed.			
892	(37C)	CHARACTER	24	CIRROPSL	TSUCLASS DEFAULTS
916	(394)	CHARACTER	24	CIRROPST	STCCLASS DEFAULTS
940	(3AC)	CHARACTER	24	CIRROPSU	JOBCLASS DEFAULTS
964	(3C4)	SIGNED	2		RESERVED FOR FUTURE USE
968	(3C8)	ADDRESS	4	CIRVOLTB	ADDR OF VOLUME ALLOCATION TABLE
972	(3CC)	ADDRESS	4	CIRCMDTB	ADDR OF 1ST TEMP COMMAND AREA
976	(3D0)	ADDRESS	4	CIRTSTOR	ADDR OF TEMPORARY STORAGE
980	(3D4)	ADDRESS	4	CIRTDCTS	ADDR OF PERMANENT DCT STORAGE
984	(3D8)	SIGNED	4	CIRBSCLC	COUNT OF UNIT=nnn LINES
988	(3DC)	SIGNED	4	CIRSNALC	COUNT OF UNIT=SNA LINES
992	(3E0)	SIGNED	4	CIRTCPLC	COUNT OF UNIT=TCP LINES
996	(3E4)	ADDRESS	4	CIRZIP	ZAPJOB ZIP chain
1000	(3E8)	ADDRESS	4	CIRBTGFA	ADDR OF FIRST BTG TABLE ENTRY
1004	(3EC)	ADDRESS	4	CIRBTGLA	ADDR OF LAST BTG TABLE ENTRY
1008	(3F0)	BITSTRING	0	CIRSPT(0)	SMF IDs for CPU 1-32
1136	(470)	SIGNED	4	CIRX0PS(0)	PARAMETER LIST FOR EXIT 0
1136	(470)	ADDRESS	4	CIROPTA	ADDR OF OPTIONS (OS OR WTOR)
1140	(474)	ADDRESS	4	CIROPTL	LENGTH OF OPTIONS (OS OR WTOR)
1144	(478)	ADDRESS	4	CIRDOMID	$$WTO DOM ID
1148	(47C)	ADDRESS	4	CIRCNECT	WTO CONNECT message number
1152	(480)	CHARACTER	8	CIRIQNAM	ENQ queue/resource name,
1160	(488)	CHARACTER	8	CIRIRNAM	used for most of init time
1168	(490)	ADDRESS	2		Reserved for future use
1170	(492)	SIGNED	2	CIRLNENM	Number of lines with dedicated sub-devices
1172	(494)	SIGNED	4	CIRNUMJT	Total number of NJTs
1176	(498)	SIGNED	4	CIRNUMJR	Total number of NJRs
1180	(49C)	SIGNED	4	CIRNUMST	Total number of NSTs
1184	(4A0)	SIGNED	4	CIRNUMSR	Total number of NSRs
1188	(4A4)	SIGNED	4	CIRN3800	Number of 3800 printers

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1192	(4A8)	SIGNED	4	CIRNFSSP	Number of printers in FSS mode
1196	(4AC)	SIGNED	4	CIRNTCLF	Number of FSS printer with TRKCELL=YES
1200	(4B0)	SIGNED	4	CIRNTCLP	Number of printer with TRKCELL=YES
	Fields used by the init deck checker				
1204	(4B4)	SIGNED	4	CIRIJBNF	Free job numbers (JNTFRCNT)
1208	(4B8)	SIGNED	4	CIRILCMN	Local min job # (JNTLCMIN)
1212	(4BC)	SIGNED	4	CIRILCMX	Local max job # (JNTLCMAX)
1216	(4C0)	SIGNED	4	CIRIJOEF	Free JOE count (JOTFREC)
1220	(4C4)	SIGNED	4	CIRIBRTF	Free BERT count (BRTPFNUM)
1224	(4C8)	SIGNED	4	CIRITGF	Free TG count ($TGFREEB) (on active volumes)
1228	(4CC)	SIGNED	4	CIRITGIU	In use TG count (on all non-mapped vols)
1232	(4D0)	ADDRESS	4	CIRJQECT	JQE usage count table
1236	(4D4)	ADDRESS	4	CIRJOECT	JOE usage count table
1240	(4D8)	ADDRESS	4	CIRZJCCT	ZJC usage count table
1244	(4DC)	ADDRESS	4	CIRBRTCT	BERT usage count table
1248	(4E0)	ADDRESS	4	CIRTGCT	TG usage count table
1252	(4E4)	ADDRESS	4	CIRJBNTB	Job number setting table
1256	(4E8)	ADDRESS	4	CIRRSUTB	Recommended setting table
1260	(4EC)	SIGNED	4	CIRBLDM(0)	Control block ID
1264	(4F0)	BITSTRING	4		Console ID
1268	(4F4)	ADDRESS	4		Address of the CART
1272	(4F8)	ADDRESS	4		Pointer for JOBID
1276	(4FC)	ADDRESS	4		Control block address
1280	(500)	ADDRESS	4		Display routine address
1284	(504)	ADDRESS	4	(6)	6 word work area
1308	(51C)	ADDRESS	4		Caller's R11 value
1312	(520)	BITSTRING	2		ROUT code for Message
1314	(522)	BITSTRING	2		Not used
1316	(524)	CHARACTER	4		Message ID
1320	(528)	CHARACTER	1		Separator character
1321	(529)	ADDRESS	1		Flag byte 1
1322	(52A)	ADDRESS	1		'DISPER'
1323	(52B)	ADDRESS	1		Flag byte 2
1324	(52C)	ADDRESS	1		Flag byte 3
1325	(52D)	ADDRESS	1		Severity of message
1326	(52E)	CHARACTER	8		Symbolic name of dest.
1334	(536)	BITSTRING	14		Not used
1348	(544)	ADDRESS	4	(0)	Ensure multiple of 4
1348	(544)	ADDRESS	2	(0)	
1348	(544)	CHARACTER	300	CIRMWORK	Message building work area
1648	(670)	DBL WORD	8	(0)	Ensure double alignment

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		General work area for short-term usage by IRs			
1648	(670)	BITSTRING	1	CIRGWORK	General work area
		First mapping of CIRGWORK used by IROPTS			
1648	(670)	BITSTRING	2	CIRSCMLN	Scan message length
1650	(672)	CHARACTER	80	CIRSCMSG	Scan message text
1730	(6C2)	BITSTRING	2		Reserved
1732	(6C4)	SIGNED	4	CIRRUB(0)	HASP.$EXIT0 parameters
1732	(6C4)	BITSTRING	2		Regs to set (0,1,11,13)
1734	(6C6)	BITSTRING	2		Unused, must be 0
1736	(6C8)	SIGNED	4	CIRRUBR0	R0 on entry to HASP.$EXIT0
1740	(6CC)	SIGNED	4	CIRRUBR1	R1 on entry to HASP.$EXIT0
1744	(6D0)	SIGNED	4	CIRRUBRB	R11 on entry to HASP.$EXIT0
1748	(6D4)	SIGNED	4	CIRRUBRD	R13 on entry to HASP.$EXIT0
1752	(6D8)	DBL WORD	8	CIRNXTOK	NEXTTOKEN value
1760	(6E0)	CHARACTER	8	CIRX0RNM	Name of last routine
1768	(6E8)	BITSTRING	32	CIRCSRET	Return parameters, enough for one routine.
1800	(708)	ADDRESS	4	CIRANSA	Address of CSVDYNEX LIST answer area
1804	(70C)	SIGNED	4	CIRANSAL	Length of answer area MACDATE -03/02/17-<1>
0	(0)	X'710'	0	M00M1170	"CIREXDYN" ++ CSVDYNEX NAME
1808	(710)	DBL WORD	8	CIREXDYN(0)	++ CSVDYNEX PARM LIST
1808	(710)	BITSTRING	1	CIREXDYN_XVERSION	++ INPUT XVERSION
1809	(711)	BITSTRING	1	CIREXDYN_XREQUEST	++ XREQUEST
1809	(711)	X'0'	0	CIREXDYN_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1809	(711)	X'1'	0	CIREXDYN_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1809	(711)	X'2'	0	CIREXDYN_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1809	(711)	X'3'	0	CIREXDYN_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1809	(711)	X'4'	0	CIREXDYN_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1809	(711)	X'5'	0	CIREXDYN_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1809	(711)	X'6'	0	CIREXDYN_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1809	(711)	X'7'	0	CIREXDYN_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1809	(711)	X'8'	0	CIREXDYN_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1809	(711)	X'9'	0	CIREXDYN_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1809	(711)	X'A'	0	CIREXDYN_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1809	(711)	X'B'	0	CIREXDYN_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1809	(711)	X'C'	0	CIREXDYN_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1810	(712)	BITSTRING	1	CIREXDYN_XFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIREXDYN_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CIREXDYN_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIREXDYN_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIREXDYN_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIREXDYN_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIREXDYN_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		1		CIREXDYN_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1811	(713)	BITSTRING	1	CIREXDYN_XAMODE	++ XAMODE
1811	(713)	X'0'	0	CIREXDYN_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1811	(713)	X'1'	0	CIREXDYN_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1811	(713)	X'2'	0	CIREXDYN_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1812	(714)	SIGNED	4	CIREXDYN_XKEY	++
1816	(718)	BITSTRING	1	CIREXDYN_XFLAGS2	++ FIELD_LABEL
		1...		CIREXDYN_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIREXDYN_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD
		..1.		CIREXDYN_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIREXDYN_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD
		.... 1...		CIREXDYN_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIREXDYN_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIREXDYN_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		1		CIREXDYN_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1817	(719)	BITSTRING	1	CIREXDYN_XFLAGS3	++ FIELD_LABEL
		1...		CIREXDYN_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIREXDYN_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIREXDYN_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIREXDYN_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIREXDYN_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIREXDYN_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIREXDYN_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		1		CIREXDYN_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1818	(71A)	BITSTRING	1	CIREXDYN_XPOS	++ XPOS
1818	(71A)	X'0'	0	CIREXDYN_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1818	(71A)	X'1'	0	CIREXDYN_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1818	(71A)	X'2'	0	CIREXDYN_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1818	(71A)	X'3'	0	CIREXDYN_XPOS_KEEPFIRST	"3" ++ XPOS.KEEPFIRST KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1818	(71A)	X'4'	0	CIREXDYN_XPOS_KEEPLAST	"4" ++ XPOS.KEEPLAST KEYWORD
1818	(71A)	X'5'	0	CIREXDYN_XPOS_CONDFIRST	"5" ++ XPOS.CONDFIRST KEYWORD
1818	(71A)	X'6'	0	CIREXDYN_XPOS_CONDLAST	"6" ++ XPOS.CONDLAST KEYWORD
1819	(71B)	BITSTRING	1	CIREXDYN_XEXAAVER	++ XEXAAVER
1819	(71B)	X'0'	0	CIREXDYN_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1819	(71B)	X'1'	0	CIREXDYN_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1819	(71B)	X'2'	0	CIREXDYN_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1819	(71B)	X'3'	0	CIREXDYN_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1820	(71C)	CHARACTER	3	CIREXDYN_XRSV0002	++ RESERVED
1823	(71F)	BITSTRING	1	CIREXDYN_XFLAGS5	++ FIELD_LABEL
		1...		CIREXDYN_XPOSCOND_YES	"B'10000000'" ++ XPOSCOND.YES KEYWORD
1824	(720)	CHARACTER	16	CIREXDYN_XEXITNAME	++
1840	(730)	CHARACTER	8	CIREXDYN_XMODNAME	++
1848	(738)	ADDRESS	4	CIREXDYN_XCMDINFO_ADDR	++ ADDR
1852	(73C)	SIGNED	4	CIREXDYN_XABENDNUM	++
1856	(740)	SIGNED	4	CIREXDYN_XRCTO	++
1860	(744)	SIGNED	4	CIREXDYN_XRCFROM	++
1864	(748)	SIGNED	4	CIREXDYN_XKEEPRC	++
1868	(74C)	BITSTRING	1	CIREXDYN_XKEEPRCCOMP	++ XKEEPRCCOMP
1868	(74C)	X'0'	0	CIREXDYN_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1868	(74C)	X'1'	0	CIREXDYN_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1868	(74C)	X'2'	0	CIREXDYN_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1868	(74C)	X'3'	0	CIREXDYN_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1868	(74C)	X'4'	0	CIREXDYN_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1868	(74C)	X'5'	0	CIREXDYN_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1869	(74D)	BITSTRING	1	CIREXDYN_XRCCOMPARE	++ XRCCOMPARE
1869	(74D)	X'0'	0	CIREXDYN_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1869	(74D)	X'1'	0	CIREXDYN_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1869	(74D)	X'2'	0	CIREXDYN_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1869	(74D)	X'3'	0	CIREXDYN_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1869	(74D)	X'4'	0	CIREXDYN_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1869	(74D)	X'5'	0	CIREXDYN_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1870	(74E)	BITSTRING	1	CIREXDYN_XFLAGS4	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIREXDYN_XEXITTYPE_INSTALLATION	"B'01000000'" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIREXDYN_XEXITTYPE_PROGRAM	"B'00100000'" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIREXDYN_XEXITTYPE_NOTPROGRAM	"B'00010000'" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIREXDYN_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CIREXDYN_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIREXDYN_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD
		1		CIREXDYN_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1871	(74F)	BITSTRING	1	CIREXDYN_XEXRETVER	++ XEXRETVER
1871	(74F)	X'0'	0	CIREXDYN_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1871	(74F)	X'1'	0	CIREXDYN_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1872	(750)	SIGNED	4	CIREXDYN_XCALLSTOPRC	++
1876	(754)	CHARACTER	44	CIREXDYN_XRSVNNNN	++ RESERVED
1876	(754)	X'780'	0	CIREXDYN_PL_END	"*" ++ END OF BASE PLIST
1816	(718)	BITSTRING	1	CIREXDYN_XFLAGS2DF	++ FIELD_LABEL
		.1..		CIREXDYN_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1852	(73C)	SIGNED	4	CIREXDYN_XADDABENDNUM	++
1868	(74C)	BITSTRING	1	CIREXDYN_XKEEPRCCVAL	++
1869	(74D)	BITSTRING	1	CIREXDYN_XRCCVAL	++
1876	(754)	ADDRESS	4	CIREXDYN_XWORKAREA_ADDR	++ ADDR
1880	(758)	ADDRESS	4	CIREXDYN_XRETAREA_ADDR	++ ADDR
1884	(75C)	SIGNED	4	CIREXDYN_XRETAREA_ALET	++ ALET
1888	(760)	SIGNED	4	CIREXDYN_XRETLEN	++
1892	(764)	ADDRESS	4	CIREXDYN_XRUB_ADDR	++ ADDR
1896	(768)	SIGNED	4	CIREXDYN_XRUB_ALET	++ ALET
1900	(76C)	CHARACTER	8	CIREXDYN_XNEXTTOKEN	++
1908	(774)	ADDRESS	4	CIREXDYN_XSDWA_ADDR	++ ADDR
1912	(778)	ADDRESS	4	CIREXDYN_XPRECALLWA_ADDR	++ ADDR
1876	(754)	ADDRESS	4	CIREXDYN_XANSAREA_ADDR	++ ADDR
1880	(758)	SIGNED	4	CIREXDYN_XANSAREA_ALET	++ ALET
1884	(75C)	SIGNED	4	CIREXDYN_XANSLEN	++
1876	(754)	ADDRESS	4	CIREXDYN_XPRECALLADDR	++
1876	(754)	ADDRESS	4	CIREXDYN_XDSNAME_ADDR	++ ADDR
1880	(758)	SIGNED	4	CIREXDYN_XDSNAME_ALET	++ ALET
1884	(75C)	CHARACTER	8	CIREXDYN_XJOBNAME	++
1892	(764)	ADDRESS	4	CIREXDYN_XMODADDR	++
1896	(768)	CHARACTER	8	CIREXDYN_XPARAM	++
1904	(770)	CHARACTER	8	CIREXDYN_XSERVICEMASK	++
1912	(778)	BITSTRING	1	CIREXDYN_XAMRFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
		.1..		CIREXDYN_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1913	(779)	CHARACTER	3	CIREXDYN_XRSV0003	++ RESERVED
1884	(75C)	CHARACTER	8	CIREXDYN_XSTOKEN	++
1904	(770)	CHARACTER	8	CIREXDYN_XSERVICEMASKM	++
1912	(778)	BITSTRING	1	CIREXDYN_XAMRFLAGSM	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASKM	

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1904	(770)	CHARACTER	8	CIREXDYN_XSERVICEMASKR	++
1912	(778)	BITSTRING	1	CIREXDYN_XAMRFLAGSR	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASKR	
					"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1920	(780)	X'70'	0	CIREXDYNL	"*-CIREXDYN" ++ LENGTH OF PLIST
				CSVDYNEX-1	
1920	(780)	DBL WORD	8	CIRXAREA(0)	CSVDYNEX WORKAREA= area
2432	(980)	SIGNED	4	CIRX0SAV(18)	CSVDYNEX FASTPATH save area
2432	(980)	X'358'	0	CIRGW1LN	"*-CIRGWORK" Length of first mapping
				Second mapping of CIRGWORK used by IRPL and IRSETUP	
1648	(670)	SIGNED	4	CIRX19PS(0)	PARAMETER LIST FOR EXIT 19
1648	(670)	ADDRESS	4	CIRSTMTA	IRPL PARM STATEMENT ADDR
1652	(674)	ADDRESS	4	CIRSTMTL	IRPL PARM STATEMENT LEN
1656	(678)	ADDRESS	4	CIRINSSA	EXIT 19 INSERT STATEMENT ADDR
1660	(67C)	ADDRESS	4	CIRINSSL	EXIT 19 INSERT STATEMENT LEN
1664	(680)	ADDRESS	1	CIRSWARN	$SCAN WARNING MASK
1665	(681)	ADDRESS	3		RESERVED FOR FUTURE USE
1668	(684)	ADDRESS	4	CIRPRDCB	Original PARMLIB DCB
1672	(688)	ADDRESS	4	CIRPRMWR	Alt PARMLIB work areas
1676	(68C)	ADDRESS	4	CIRLPARM	Logical parmlib Readbuf adr
1680	(690)	SIGNED	4	CIRLRCNT	Logical dataset rec counter
				Fields used to save the current PARMLIB data set name.	
1684	(694)	BITSTRING	204	CIRIPRW	Init PRW data area
1888	(760)	ADDRESS	4	CIRIDSNE	Current INIDSNE address -1 ind no free slots
1892	(764)	ADDRESS	4	CIRCONDS	Console INIDSNE address
				UCBLOOK MF=(L,CIRUCLK) MACDATE -03/18/08-<3>	
0	(0)	X'768'	0	M00M1172	"CIRUCLK" ++ UCBLOOK NAME
1896	(768)	DBL WORD	8	CIRUCLK(0)	++ UCBLOOK PARM LIST
1896	(768)	BITSTRING	1	CIRUCLK_XVERSION	++ INPUT XVERSION
1897	(769)	BITSTRING	1	CIRUCLK_XSCHSET	++
1898	(76A)	BITSTRING	2	CIRUCLK_XDEVN	++
1900	(76C)	CHARACTER	4	CIRUCLK_XDEVNCHAR	++
1904	(770)	CHARACTER	6	CIRUCLK_XVOLSER	++
1910	(776)	BITSTRING	1	CIRUCLK_XDEVCLASS	++ XDEVCLASS
1910	(776)	X'0'	0	CIRUCLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1910	(776)	X'1'	0	CIRUCLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1910	(776)	X'2'	0	CIRUCLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1911	(777)	BITSTRING	1	CIRUCLK_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1912	(778)	ADDRESS	4	CIRUCLK_XUCBPTR	++
1916	(77C)	CHARACTER	5	CIRUCLK_XCOMPID	++
1921	(781)	BITSTRING	1	CIRUCLK_XMASK	++ FIELD_LABEL
		1...		CIRUCLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		CIRUCLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1922	(782)	BITSTRING	1	CIRUCLK_XFLAGS	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		CIRUCLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		CIRUCLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1923	(783)	BITSTRING	1	CIRUCLK_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		CIRUCLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		CIRUCLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1924	(784)	ADDRESS	4	CIRUCLK_XTEXT_ADDR	++ ADDR
1928	(788)	SIGNED	4	CIRUCLK_XTEXT_ALET	++ ALET
1932	(78C)	CHARACTER	8	CIRUCLK_XPTOKEN	++
1940	(794)	CHARACTER	8	CIRUCLK_XHELP	++
1948	(79C)	ADDRESS	4	CIRUCLK_XIOCTOKEN_ADDR	++ ADDR
1952	(7A0)	SIGNED	4	CIRUCLK_XIOCTOKEN_ALET	++ ALET
1956	(7A4)	ADDRESS	4	CIRUCLK_XUCBPAREA_ADDR	++ ADDR
1960	(7A8)	SIGNED	4	CIRUCLK_XUCBPAREA_ALET	++ ALET
1964	(7AC)	ADDRESS	4	CIRUCLK_XUCBCXPTR	++
1968	(7B0)	ADDRESS	4	CIRUCLK_XUCBPXPTR	++
1972	(7B4)	CHARACTER	5	CIRUCLK_XLDEVNCHAR	++
1977	(7B9)	CHARACTER	3	CIRUCLK_XRESERVED1	++ FIELD_LABEL
1977	(7B9)	X'54'	0	CIRUCLKL	"*-CIRUCLK" ++ LENGTH OF PLIST

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				UCBLOOK-3	
0	(0)	X'14C'	0	CIRGW2LN	"*-CIRGWORK" Length of second mapping
		Third mapping of CIRGWORK used by IRPOSTPL			
1648	(670)	X'0'	0	CIRGW3LN	"*-CIRGWORK" Length of third mapping
		Fourth mapping of CIRGWORK used by IRDA			
1648	(670)	SIGNED	4	CIRJQENC	$CKVTAB cur number of JQEs
1652	(674)	SIGNED	4	CIRJQENP	$CKVTAB prev number of JQEs
1656	(678)	ADDRESS	4	CIRSPLF	FIRST SPL IN WORK CHAIN
1660	(67C)	ADDRESS	4	CIRSPLL	LAST SPL IN WORK CHAIN
1664	(680)	ADDRESS	4	CIRMSTRS	ADDR OF MSTR REC SAVE AREA
1668	(684)	ADDRESS	4	CIRTOTA	ADDR OF TEMP TRACK-1 TABLE
1672	(688)	ADDRESS	4	CIRTVECT	Addr of DAS temp vector
1676	(68C)	ADDRESS	4	CIRCURDS	CKG ADDRESS OF CURRENT DS
1680	(690)	ADDRESS	4	CIRALTDS	CKG address of other DS
1684	(694)	ADDRESS	4	CIRLFJQE	Address of last JQE put on free queue ($QREBLD only)
1688	(698)	ADDRESS	4	CIRCTENT	CTENT table used by IRDA
1692	(69C)	ADDRESS	4	CIRCTEND	End of CTENT table
1696	(6A0)	SIGNED	4	CIRCOUNT	LOCK RETRY COUNT
1700	(6A4)	SIGNED	2	CIRCLREC	SIZE OF CHLOG FROM INIT
1702	(6A6)	BITSTRING	1	CIRIRDA2	IRDA flags 2
		CIRIRDA2 bit definitions			
		1...		CIRCKVWR	"B'10000000'" Init deck error encountered
		.1..		CIRCKVER	"B'01000000'" Only a warning is needed
		..1.		CIRCKVTM	"B'00100000'" Terminating error detected
1703	(6A7)	BITSTRING	1		Reserved
		CTRACE PLISTVER=1,MF=L CTRACE parameter list MACDATE -02/18/16-<3>			
0	(0)	X'6A8'	0	M00M1173	"CIRCTLST" ++ CTRACE NAME
1704	(6A8)	DBL WORD	8	CIRCTLST(0)	++ CTRACE PARM LIST
1704	(6A8)	BITSTRING	1	CIRCTLST_XVERSION	++ INPUT XVERSION
1705	(6A9)	CHARACTER	3	CIRCTLST_XRSV0000	++ RESERVED
1708	(6AC)	SIGNED	4	CIRCTLST_XSERVICE	++ XSERVICE
1708	(6AC)	X'1'	0	CIRCTLST_DEFINE	"1" ++ XSERVICE.DEFINE KEYWORD
1708	(6AC)	X'2'	0	CIRCTLST_DELETE	"2" ++ XSERVICE.DELETE KEYWORD
1712	(6B0)	CHARACTER	8	CIRCTLST_XNAME	++
1720	(6B8)	CHARACTER	8	CIRCTLST_XSTARTNAM	++
1728	(6C0)	CHARACTER	8	CIRCTLST_XFMTTAB	++
1736	(6C8)	BITSTRING	1	CIRCTLST_XFLG1	++ FIELD_LABEL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIRCTLST_XASIDS_YES	"B'10000000'" ++ XASIDS.YES KEYWORD
		.1..		CIRCTLST_XBUFFER_YES	"B'01000000'" ++ XBUFFER.YES KEYWORD
		..1.		CIRCTLST_XJOBS_YES	"B'00100000'" ++ XJOBS.YES KEYWORD
		...1		CIRCTLST_KEYUSED_MINOPS	"B'00010000'" ++ KEYUSED.MINOPS KEYWORD
		.... 1...		CIRCTLST_XMOD_YES	"B'00001000'" ++ XMOD.YES KEYWORD
		.... .1..		CIRCTLST_XBUFDEFIN_YES	"B'00000100'" ++ XBUFDEFIN.YES KEYWORD
		.... ..1.		CIRCTLST_XWTR_YES	"B'00000010'" ++ XWTR.YES KEYWORD
		1		CIRCTLST_XMNFMSG_NO	"B'00000001'" ++ XMNFMSG.NO KEYWORD
1737	(6C9)	BITSTRING	1	CIRCTLST_XFLG2	++ FIELD_LABEL
		1...		CIRCTLST_XLIKEHEAD_YES	"B'10000000'" ++ XLIKEHEAD.YES KEYWORD
		.1..		CIRCTLST_XHEAD_YES	"B'01000000'" ++ XHEAD.YES KEYWORD
		..1.		CIRCTLST_XHEADOPTS_YES	"B'00100000'" ++ XHEADOPTS.YES KEYWORD
		...1		CIRCTLST_XMANYSUBS_YES	"B'00010000'" ++ XMANYSUBS.YES KEYWORD
		.... 1...		CIRCTLST_XWTRMODE_PAGEABLE	"B'00001000'" ++ XWTRMODE.PAGEABLE KEYWORD
		.... .1..		CIRCTLST_XWTRMODE_DREF	"B'00000100'" ++ XWTRMODE.DREF KEYWORD
		.... ..1.		CIRCTLST_XWTRMODE_FIXED	"B'00000010'" ++ XWTRMODE.FIXED KEYWORD
		1		CIRCTLST_XON_NOTMIN	"B'00000001'" ++ XON.NOTMIN KEYWORD
1738	(6CA)	BITSTRING	1	CIRCTLST_XFLG3	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_SUB	"B'10000000'" ++ KEYUSED.SUB KEYWORD
		.1..		CIRCTLST_KEYUSED_PARM	"B'01000000'" ++ KEYUSED.PARM KEYWORD
		..1.		CIRCTLST_KEYUSED_BUFMIN	"B'00100000'" ++ KEYUSED.BUFMIN KEYWORD
		...1		CIRCTLST_KEYUSED_BUFMAX	"B'00010000'" ++ KEYUSED.BUFMAX KEYWORD
		.... 1...		CIRCTLST_KEYUSED_BUFDFLT	"B'00001000'" ++ KEYUSED.BUFDFLT KEYWORD
		.... .1..		CIRCTLST_KEYUSED_SSRC	"B'00000100'" ++ KEYUSED.SSRC KEYWORD
		.... ..1.		CIRCTLST_KEYUSED_SSRSNC	"B'00000010'" ++ KEYUSED.SSRSNC KEYWORD
		1		CIRCTLST_KEYUSED_IFNOSUBS	"B'00000001'" ++ KEYUSED.IFNOSUBS KEYWORD
1739	(6CB)	BITSTRING	1	CIRCTLST_XFLG4	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_USERDATA	"B'10000000'" ++ KEYUSED.USERDATA KEYWORD
1740	(6CC)	ADDRESS	4	CIRCTLST_XLNKPARM	++ FIELD_LABEL
1744	(6D0)	ADDRESS	4	CIRCTLST_XMINOPS_ADDR	++ ADDR
1748	(6D4)	BITSTRING	2	CIRCTLST_XMINOPS_LEN	++ FIELD_LABEL
1750	(6D6)	CHARACTER	16	CIRCTLST_XUSERDATA	++
1766	(6E6)	CHARACTER	2	CIRCTLST_XRVS0002	++ FIELD_LABEL
1768	(6E8)	SIGNED	4	CIRCTLST_XBUFMIN	++
1772	(6EC)	SIGNED	4	CIRCTLST_XBUFMAX	++
1776	(6F0)	SIGNED	4	CIRCTLST_XBUFDFLT	++
1780	(6F4)	ADDRESS	4	CIRCTLST_XSUB_ADDR	++ ADDR

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1784	(6F8)	BITSTRING	2	CIRCTLST_XSUB_LEN	++ FIELD_LABEL
1786	(6FA)	CHARACTER	2	CIRCTLST_XRVS0003	++ FIELD_LABEL
1788	(6FC)	CHARACTER	8	CIRCTLST_XPARM	++
1796	(704)	SIGNED	4	CIRCTLST_XSSRC	++
1800	(708)	SIGNED	4	CIRCTLST_XSSRSNC	++
1800	(708)	X'70C'	0	CIRCTLST_PL_END	"*" ++ END OF BASE PLIST
1800	(708)	X'64'	0	CIRCTLSTL	"*-CIRCTLST" ++ LENGTH OF PLIST

```
                                        CTRACE-3
IARV64 PLISTVER=MAX,MF=L CTRACE parameter list
                MACDATE -03/01/19-<6>
```

0	(0)	X'710'	0	M00M1174	"CIRIARV" ++ IARV64 NAME
1808	(710)	DBL WORD	8	CIRIARV(0)	++ IARV64 PARM LIST
1808	(710)	BITSTRING	1	CIRIARV_XVERSION	++ INPUT XVERSION
1809	(711)	BITSTRING	1	CIRIARV_XREQUEST	++ XREQUEST
1809	(711)	X'1'	0	CIRIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
1809	(711)	X'2'	0	CIRIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
1809	(711)	X'3'	0	CIRIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
1809	(711)	X'4'	0	CIRIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
1809	(711)	X'5'	0	CIRIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
1809	(711)	X'6'	0	CIRIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
1809	(711)	X'7'	0	CIRIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
1809	(711)	X'8'	0	CIRIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
1809	(711)	X'9'	0	CIRIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
1809	(711)	X'A'	0	CIRIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
1809	(711)	X'B'	0	CIRIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
1809	(711)	X'C'	0	CIRIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
1809	(711)	X'D'	0	CIRIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
1809	(711)	X'E'	0	CIRIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
1809	(711)	X'F'	0	CIRIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
1809	(711)	X'10'	0	CIRIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
1809	(711)	X'11'	0	CIRIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
1809	(711)	X'12'	0	CIRIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
1810	(712)	BITSTRING	1	CIRIARV_XFLAGS0	++ FIELD_LABEL
		1...		CIRIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CIRIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CIRIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1811	(713)	BITSTRING	1	CIRIARV_XKEY	++
1812	(714)	BITSTRING	1	CIRIARV_XFLAGS1	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CIRIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CIRIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CIRIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CIRIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CIRIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CIRIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		CIRIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
1813	(715)	BITSTRING	1	CIRIARV_XFLAGS2	++ FIELD_LABEL
		1...		CIRIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CIRIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CIRIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CIRIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CIRIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CIRIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CIRIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		CIRIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
1814	(716)	BITSTRING	1	CIRIARV_XFLAGS3	++ FIELD_LABEL
		1...		CIRIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CIRIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CIRIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		CIRIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CIRIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CIRIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CIRIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CIRIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
1815	(717)	BITSTRING	1	CIRIARV_XFLAGS4	++ FIELD_LABEL
		1...		CIRIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CIRIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CIRIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CIRIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CIRIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CIRIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CIRIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		CIRIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
1816	(718)	DBL WORD	8	CIRIARV_XSEGMENTS	++
1824	(720)	CHARACTER	16	CIRIARV_XTTOKEN	++
1840	(730)	DBL WORD	8	CIRIARV_XUSERTKN	++
1848	(738)	ADDRESS	8	CIRIARV_XORIGIN	++
1856	(740)	ADDRESS	8	CIRIARV_XRANGLIST	++
1864	(748)	ADDRESS	8	CIRIARV_XMEMOBJSTART	++
1872	(750)	SIGNED	4	CIRIARV_XGUARDSIZE	++
1876	(754)	SIGNED	4	CIRIARV_XCONVERTSIZE	++
1880	(758)	SIGNED	4	CIRIARV_XALETVALUE	++
1884	(75C)	SIGNED	4	CIRIARV_XNUMRANGE	++
1888	(760)	ADDRESS	4	CIRIARV_XV64LISTPTR	++
1892	(764)	SIGNED	4	CIRIARV_XV64LISTLENGTH	++
1896	(768)	DBL WORD	8	CIRIARV_XCONVERTSTART	++
1904	(770)	DBL WORD	8	CIRIARV_XCONVERTSIZE64	++
1912	(778)	DBL WORD	8	CIRIARV_XGUARDSIZE64	++
1920	(780)	CHARACTER	8	CIRIARV_XUSERTOKEN	++
1928	(788)	BITSTRING	1	CIRIARV_XDUMPPRIORITY	++
1929	(789)	BITSTRING	1	CIRIARV_XFLAGS5	++ FIELD_LABEL
		1...		CIRIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CIRIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CIRIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CIRIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CIRIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CIRIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CIRIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		CIRIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1930	(78A)	BITSTRING	1	CIRIARV_XFLAGS6	++ FIELD_LABEL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIRIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CIRIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CIRIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CIRIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CIRIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CIRIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CIRIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		CIRIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1931	(78B)	BITSTRING	1	CIRIARV_XFLAGS7	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CIRIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CIRIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		CIRIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CIRIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CIRIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CIRIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		CIRIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1932	(78C)	BITSTRING	1	CIRIARV_XDUMP	++ XDUMP
1932	(78C)	X'0'	0	CIRIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1932	(78C)	X'1'	0	CIRIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1932	(78C)	X'2'	0	CIRIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1932	(78C)	X'3'	0	CIRIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1932	(78C)	X'20'	0	CIRIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1932	(78C)	X'21'	0	CIRIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1932	(78C)	X'FF'	0	CIRIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1933	(78D)	BITSTRING	1	CIRIARV_XFLAGS8	++ FIELD_LABEL
		1...		CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CIRIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		CIRIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		CIRIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRIARV_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		CIRIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		CIRIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		1		CIRIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
1934	(78E)	BITSTRING	2	CIRIARV_XOWNERASID	++
1936	(790)	BITSTRING	1	CIRIARV_XOPTIONVALUE	++
1937	(791)	CHARACTER	8	CIRIARV_XRSV0001	++ RESERVED
1945	(799)	CHARACTER	8	CIRIARV_XOWNERJOBNAME	++
1953	(7A1)	CHARACTER	7	CIRIARV_XRSV0004	++ RESERVED
1960	(7A8)	ADDRESS	8	CIRIARV_XDMAPAGETABLE	++
1968	(7B0)	DBL WORD	8	CIRIARV_XUNITS	++
1976	(7B8)	BITSTRING	1	CIRIARV_XFLAGS9	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CIRIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CIRIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CIRIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		CIRIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CIRIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1977	(7B9)	BITSTRING	1	CIRIARV_XFLAGS10	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		CIRIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		CIRIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
1978	(7BA)	CHARACTER	6	CIRIARV_XRSV0005	++ RESERVED
1978	(7BA)	X'7C0'	0	CIRIARV_PL_END	"*" ++ END OF BASE PLIST
1840	(730)	DBL WORD	8	CIRIARV_XOUTMOTKN	++
1840	(730)	DBL WORD	8	CIRIARV_XMOTKN	++
1864	(748)	ADDRESS	8	CIRIARV_XINORIGIN	++
1984	(7C0)	X'B0'	0	CIRIARVL	"*-CIRIARV" ++ LENGTH OF PLIST
				IARV64-6	
1984	(7C0)	DBL WORD	8	(0)	Force work alignment
1984	(7C0)	BITSTRING	16	CIRCTUSR(0)	CTRACE userdata
1984	(7C0)	ADDRESS	8	CIRCTBUF	Addr of data area
1992	(7C8)	ADDRESS	4	CIRCTBLN	Length of data area
1996	(7CC)	SIGNED	2	CIRCTASI	Address space id of data
1998	(7CE)	BITSTRING	2		Reserved
2000	(7D0)	CHARACTER	8	CIRCTNAM	CTRACE component name
2008	(7D8)	BITSTRING	1	CIRJOTES	JOT ERROR SWITCH
2009	(7D9)	BITSTRING	1	CIRIRDAF	IRDA ERROR SWITCH

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CIRIRDAF BIT DEFINITIONS			
		1...		CIRWMER	"B'10000000'" SPL VOL ERROR DURING WARM START
		.1..		CIREXPRF	"B'01000000'" EXTRA VOLUMES WITH SPOOL PREFIX
		..1.		CIRMAXQT	"B'00100000'" MAX VOLUMES, OPERATOR SAID QUIT
		...1		CIRSPLGE	"B'00010000'" EXTENT TOO LARGE FOR TRCK GRPS
		.... 1...		CIRCLGSZ	"B'00001000'" LOG SIZE MUST BE CALCULATED
		.... ..1.		CIRJOTEC	"B'00000010'" JOT Error correction comp.
		1		CIRJOTRB	"B'00000001'" JOT rebuild completed
2009	(7D9)	X'3'	0	CIRJOTV	"CIRJOTEC+CIRJOTRB" JOT Verification Completed
2010	(7DA)	BITSTRING	1	CIRIRDA1	IRDA FLAG BYTE
		CIRIRDA1 BIT DEFINITIONS			
		1...		CIRMSGIS	"B'10000000'" HASP488 MESSAGE ISSUED
		.1..		CIRFWDDS	"B'01000000'" A FORWARDED DATASET FOUND
		..1.		CIRDONFW	"B'00100000'" FORWARDED DS PROC DONE
		...1		CIRFFWD	"B'00010000'" A DS HAS BEEN FORWARDED
		.... 1...		CIRCHIUS	"B'00001000'" INUSE INDICATOR HAS CHANGED
		.... .1..		CIRI460	"B'00000100'" HASP460 was issued
		.... ..1.		CIRI416	"B'00000010'" Need to issue HASP416
		1		CIRNODAT	"B'00000001'" CKPT data not useable
2011	(7DB)	BITSTRING	1	CIRPARMF	PARAMETER FLAG BYTE
2012	(7DC)	SIGNED	4	CIRPARML(0)	GENERIC PARM LIST
2012	(7DC)	SIGNED	4	CIRPARM1	PARM 1
2016	(7E0)	SIGNED	4	CIRPARM2	PARM 2
2020	(7E4)	SIGNED	4	CIRPARM3	PARM 3
2024	(7E8)	SIGNED	4	CIRPARM4	PARM 4
2028	(7EC)	SIGNED	4	CIRPARM5	PARM 5
2032	(7F0)	SIGNED	4	CIRPARM6	PARM 6
2032	(7F0)	X'7DB'	0	CIRPARMS	"CIRPARMF,*-CIRPARMF" FULL PARAMETER LIST
2036	(7F4)	SIGNED	4	CIRFWCNT	COUNT FORWARDED DATA SET
2040	(7F8)	CHARACTER	72	CIRCKPT1	CKPT1 SPEC SAVE AREA
2112	(840)	CHARACTER	72	CIRCKPT2	CKPT2 SPEC SAVE AREA
2184	(888)	CHARACTER	144	CIRCHFES	CURRENT STATE OF CKPT ALOC
2328	(918)	BITSTRING	4	CIRIDMEM	'In-Doubt' members mask
2332	(91C)	ADDRESS	4	CIRM791W	CBADDR for HASP791 message
2336	(920)	SIGNED	4	CIRECBLS(0)	List of ECBs to wait on
2336	(920)	ADDRESS	4	CIRECBA1	Pointer to ECB 1
2340	(924)	ADDRESS	4	CIRECBA2	Pointer to ECB 2

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2344	(928)	SIGNED	4	CIRECB1	1st ECB
2348	(92C)	SIGNED	4	CIRECB2	2nd ECB

```
UCBLOOK MF=(L,CIRUCBL)
           MACDATE -03/18/08-<3>
```

0	(0)	X'930'	0	M00M1175	"CIRUCBL" ++ UCBLOOK NAME
2352	(930)	DBL WORD	8	CIRUCBL(0)	++ UCBLOOK PARM LIST
2352	(930)	BITSTRING	1	CIRUCBL_XVERSION	++ INPUT XVERSION
2353	(931)	BITSTRING	1	CIRUCBL_XSCHSET	++
2354	(932)	BITSTRING	2	CIRUCBL_XDEVN	++
2356	(934)	CHARACTER	4	CIRUCBL_XDEVNCHAR	++
2360	(938)	CHARACTER	6	CIRUCBL_XVOLSER	++
2366	(93E)	BITSTRING	1	CIRUCBL_XDEVCLASS	++ XDEVCLASS
2366	(93E)	X'0'	0	CIRUCBL_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
2366	(93E)	X'1'	0	CIRUCBL_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
2366	(93E)	X'2'	0	CIRUCBL_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
2367	(93F)	BITSTRING	1	CIRUCBL_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCBL_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
2368	(940)	ADDRESS	4	CIRUCBL_XUCBPTR	++
2372	(944)	CHARACTER	5	CIRUCBL_XCOMPID	++
2377	(949)	BITSTRING	1	CIRUCBL_XMASK	++ FIELD_LABEL
		1...		CIRUCBL_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCBL_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCBL_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCBL_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCBL_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		CIRUCBL_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
2378	(94A)	BITSTRING	1	CIRUCBL_XFLAGS	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCBL_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCBL_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCBL_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		CIRUCBL_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCBL_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCBL_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		CIRUCBL_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
2379	(94B)	BITSTRING	1	CIRUCBL_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCBL_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		CIRUCBL_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CIRUCBL_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
2380	(94C)	ADDRESS	4	CIRUCBL_XTEXT_ADDR	++ ADDR
2384	(950)	SIGNED	4	CIRUCBL_XTEXT_ALET	++ ALET
2388	(954)	CHARACTER	8	CIRUCBL_XPTOKEN	++
2396	(95C)	CHARACTER	8	CIRUCBL_XHELP	++
2404	(964)	ADDRESS	4	CIRUCBL_XIOCTOKEN_ADDR	++ ADDR
2408	(968)	SIGNED	4	CIRUCBL_XIOCTOKEN_ALET	++ ALET
2412	(96C)	ADDRESS	4	CIRUCBL_XUCBPAREA_ADDR	++ ADDR
2416	(970)	SIGNED	4	CIRUCBL_XUCBPAREA_ALET	++ ALET
2420	(974)	ADDRESS	4	CIRUCBL_XUCBCXPTR	++
2424	(978)	ADDRESS	4	CIRUCBL_XUCBPXPTR	++
2428	(97C)	CHARACTER	5	CIRUCBL_XLDEVNCHAR	++
2433	(981)	CHARACTER	3	CIRUCBL_XRESERVED1	++ FIELD_LABEL
2433	(981)	X'54'	0	CIRUCBLL	"*-CIRUCBL" ++ LENGTH OF PLIST
				UCBLOOK-3	
0	(0)	X'314'	0	CIRGW4LN	"*-CIRGWORK" Length of fourth mapping
				Fifth mapping of CIRGWORK used by IRURDEV	
				CIRCAPU IOSCAPU MF=(L,CIRCAPU) IOSCAPU parm list MACDATE -01/22/01-<1>	
0	(0)	X'670'	0	M00M1176	"CIRCAPU" ++ IOSCAPU NAME
1648	(670)	DBL WORD	8	CIRCAPU(0)	++ IOSCAPU PARM LIST
1648	(670)	BITSTRING	1	CIRCAPU_XVERSION	++ INPUT XVERSION
1649	(671)	BITSTRING	1	CIRCAPU_XFLAGS1	++ FIELD_LABEL
		1...		CIRCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		CIRCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		CIRCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		CIRCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		CIRCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		CIRCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1650	(672)	CHARACTER	2	CIRCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1652	(674)	ADDRESS	4	CIRCAPU_XUCBPTR	++ XUCBPTR
1656	(678)	ADDRESS	4	CIRCAPU_XCAPTPTR	++ XCAPTPTR
1660	(67C)	CHARACTER	1	CIRCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1661	(67D)	BITSTRING	1	CIRCAPU_XMASK	++ FIELD_LABEL
		1...		CIRCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		CIRCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		CIRCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		CIRCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1662	(67E)	BITSTRING	2	CIRCAPU_XASID	++ XASID

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1664	(680)	CHARACTER	16	CIRCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1664	(680)	X'20'	0	CIRCAPUL	"*-CIRCAPU" ++ LENGTH OF PLIST
				IOSCAPU-1	
0	(0)	X'20'	0	CIRGW5LN	"*-CIRGWORK" Length of fifth mapping
				Sixth mapping of CIRGWORK used by IRMVS	
1648	(670)	ADDRESS	4	CIRSJLSP	SJF LOCAL STORAGE POINTER
1652	(674)	ADDRESS	4	CIRSJPTR	SWB SJF POINTER
1656	(678)	BITSTRING	256	CIRSJEXP	SJF EXTRACT PARAMETER LIST
1912	(778)	CHARACTER	32	CIRFPTX	FOOTPRINT AREA FOR $GKINIT
1944	(798)	SIGNED	1	CIRFPLN	FOOTPRINT LENGTH
1945	(799)	CHARACTER	3	CIRRSV1	RESERVED FOR FUTURE USE
1945	(799)	X'12C'	0	CIRGW6LN	"*-CIRGWORK" Length of sixth mapping
				Seventh mapping of CIRGWORK used indirectly by IRNJE (IRNJE $CALLs NCOMMREQ, which $CALLs NPDDMSG to display a diagnostic message in error scenarios)	
1648	(670)	CHARACTER	120	CIRM500A	
1648	(670)	X'78'	0	CIRGW7LN	"*-CIRGWORK" Length of seventh mapping
				Eighth mapping of CIRGWORK used by IRFINAL, IRNJE and IRRJE.	
1648	(670)	SIGNED	4	CIRCMSTR(0)	Full word alignment
1648	(670)	CHARACTER	4		CPLTAB ID
1652	(674)	ADDRESS	1		CPLTAB Version
1653	(675)	ADDRESS	1		Sub Pool ID (non-JES2 AS)
1654	(676)	ADDRESS	1		Sub Pool number (JES2 AS)
1655	(677)	ADDRESS	1		Storage Key
1656	(678)	ADDRESS	4		CPINDEX offset
1660	(67C)	CHARACTER	8		Cell Type
1668	(684)	CHARACTER	8		Data space name
1676	(68C)	ADDRESS	4		Cell size
1680	(690)	ADDRESS	1		General flags
1681	(691)	ADDRESS	1		Location flags
1682	(692)	ADDRESS	1		Data space flags
1683	(693)	ADDRESS	1		Attribute flags
1684	(694)	ADDRESS	4		Limit of num of cells
1688	(698)	ADDRESS	4		Primary cell count
1692	(69C)	ADDRESS	4		Secondary cell count
				IARVSERV MF=(L,CIRVSERV) List form of IARVSERV macro MACDATE -03/01/19-<0>	
0	(0)	X'6A0'	0	M00M1180	"CIRVSERV" ++ IARVSERV NAME
1696	(6A0)	DBL WORD	8	CIRVSERV(0)	++ IARVSERV PARM LIST
1696	(6A0)	BITSTRING	1	CIRVSERV_XVERSION	++ INPUT XVERSION

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1697	(6A1)	BITSTRING	1	CIRVSERV_XSERVICE	++ XSERVICE
1697	(6A1)	X'1'	0	CIRVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1697	(6A1)	X'2'	0	CIRVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1697	(6A1)	X'3'	0	CIRVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1697	(6A1)	X'4'	0	CIRVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1697	(6A1)	X'5'	0	CIRVSERV_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
1697	(6A1)	X'6'	0	CIRVSERV_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
1698	(6A2)	BITSTRING	1	CIRVSERV_XFLAGS1	++ FIELD_LABEL
		1...		CIRVSERV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		CIRVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CIRVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CIRVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CIRVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CIRVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CIRVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		1		CIRVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1699	(6A3)	BITSTRING	1	CIRVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CIRVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		CIRVSERV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		CIRVSERV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		CIRVSERV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		CIRVSERV_XSINGLESPACE_YES	"B'00001000'" ++ XSINGLESPACE.YES KEYWORD
1700	(6A4)	SIGNED	4	CIRVSERV_XNUMRANGE	++
1704	(6A8)	ADDRESS	4	CIRVSERV_XRANGLIST	++
1704	(6A8)	X'6AC'	0	CIRVSERV_PL_END	"*" ++ END OF BASE PLIST
1704	(6A8)	ADDRESS	4	CIRVSERV_XRANGLIST64	++
1708	(6AC)	X'C'	0	CIRVSERVL	"*-CIRVSERV" ++ LENGTH OF PLIST
				IARVSERV-0	
1708	(6AC)	ADDRESS	4	CIRVRLP	Pointer to range list
1712	(6B0)	SIGNED	4	CIRVRL(7)	IARVSERV range list
1740	(6CC)	ADDRESS	4	CIRVRETC	Return code for $HASP564
1744	(6D0)	ADDRESS	4	CIRVRSNC	Reason code for $HASP564
1748	(6D4)	BITSTRING	1	CIRFLAGV	NIT Data space error flag
		1...		CIRFV$DS	"B'10000000'" $DSPSERV service failed

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CIRFVIAR	"B'01000000'" IARVSERV service failed
		..1.		CIRFVNBL	"B'00100000'" 'NOT EXTEND' message
		...1		CIRFVNFD	"B'00010000'" 'NOT FOUND' message
		.... 1...		CIRFVNSH	"B'00001000'" 'NOT SHARED' message
		.... .1..		CIRFVRC	"B'00000100'" Include return code
		.... ..1.		CIRFVRS	"B'00000010'" Include reason code
1749	(6D5)	BITSTRING	1	CIRASKEY	ASDS data space storage key
1750	(6D6)	BITSTRING	2		Reserved for future use
1752	(6D8)	SIGNED	4	CIRASALT	ALET for ASDS data space
1756	(6DC)	ADDRESS	4	CIRASDSB	Addr of ASDS CSA DSB
1760	(6E0)	CHARACTER	8	CIRASNAM	Gen name of ASDS data space
1760	(6E0)	X'78'	0	CIRGW8LN	"*-CIRGWORK" Length of eighth mapping
	Ninth mapping of CIRGWORK used by IRSSI				
1648	(670)	ADDRESS	4	CIRETDEF	Local ETDEF work area
	This is mapping of CIRGWORK used by CSVDYNEX for Multi System Dump MACDATE -03/02/17-<1>				
0	(0)	X'678'	0	M00M1181	"CIRDYNEX" ++ CSVDYNEX NAME
1656	(678)	DBL WORD	8	CIRDYNEX(0)	++ CSVDYNEX PARM LIST
1656	(678)	BITSTRING	1	CIRDYNEX_XVERSION	++ INPUT XVERSION
1657	(679)	BITSTRING	1	CIRDYNEX_XREQUEST	++ XREQUEST
1657	(679)	X'0'	0	CIRDYNEX_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1657	(679)	X'1'	0	CIRDYNEX_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1657	(679)	X'2'	0	CIRDYNEX_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1657	(679)	X'3'	0	CIRDYNEX_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1657	(679)	X'4'	0	CIRDYNEX_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1657	(679)	X'5'	0	CIRDYNEX_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1657	(679)	X'6'	0	CIRDYNEX_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1657	(679)	X'7'	0	CIRDYNEX_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1657	(679)	X'8'	0	CIRDYNEX_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1657	(679)	X'9'	0	CIRDYNEX_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1657	(679)	X'A'	0	CIRDYNEX_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1657	(679)	X'B'	0	CIRDYNEX_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1657	(679)	X'C'	0	CIRDYNEX_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1658	(67A)	BITSTRING	1	CIRDYNEX_XFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIRDYNEX_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIRDYNEX_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIRDYNEX_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRDYNEX_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIRDYNEX_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIRDYNEX_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		1		CIRDYNEX_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1659	(67B)	BITSTRING	1	CIRDYNEX_XAMODE	++ XAMODE
1659	(67B)	X'0'	0	CIRDYNEX_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1659	(67B)	X'1'	0	CIRDYNEX_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1659	(67B)	X'2'	0	CIRDYNEX_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1660	(67C)	SIGNED	4	CIRDYNEX_XKEY	++
1664	(680)	BITSTRING	1	CIRDYNEX_XFLAGS2	++ FIELD_LABEL
		1...		CIRDYNEX_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIRDYNEX_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD
		..1.		CIRDYNEX_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIRDYNEX_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD
		.... 1...		CIRDYNEX_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIRDYNEX_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIRDYNEX_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		1		CIRDYNEX_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1665	(681)	BITSTRING	1	CIRDYNEX_XFLAGS3	++ FIELD_LABEL
		1...		CIRDYNEX_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIRDYNEX_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIRDYNEX_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIRDYNEX_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIRDYNEX_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIRDYNEX_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIRDYNEX_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		1		CIRDYNEX_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1666	(682)	BITSTRING	1	CIRDYNEX_XPOS	++ XPOS
1666	(682)	X'0'	0	CIRDYNEX_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1666	(682)	X'1'	0	CIRDYNEX_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1666	(682)	X'2'	0	CIRDYNEX_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1666	(682)	X'3'	0	CIRDYNEX_XPOS_KEEPFIRST	"3" ++ XPOS.KEEPFIRST KEYWORD
1666	(682)	X'4'	0	CIRDYNEX_XPOS_KEEPLAST	"4" ++ XPOS.KEEPLAST KEYWORD
1666	(682)	X'5'	0	CIRDYNEX_XPOS_CONDFIRST	"5" ++ XPOS.CONDFIRST KEYWORD
1666	(682)	X'6'	0	CIRDYNEX_XPOS_CONDLAST	"6" ++ XPOS.CONDLAST KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1667	(683)	BITSTRING	1	CIRDYNEX_XEXAAVER	++ XEXAAVER
1667	(683)	X'0'	0	CIRDYNEX_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1667	(683)	X'1'	0	CIRDYNEX_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1667	(683)	X'2'	0	CIRDYNEX_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1667	(683)	X'3'	0	CIRDYNEX_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1668	(684)	CHARACTER	3	CIRDYNEX_XRSV0002	++ RESERVED
1671	(687)	BITSTRING	1	CIRDYNEX_XFLAGS5	++ FIELD_LABEL
		1...		CIRDYNEX_XPOSCOND_YES	"B'10000000'" ++ XPOSCOND.YES KEYWORD
1672	(688)	CHARACTER	16	CIRDYNEX_XEXITNAME	++
1688	(698)	CHARACTER	8	CIRDYNEX_XMODNAME	++
1696	(6A0)	ADDRESS	4	CIRDYNEX_XCMDINFO_ADDR	++ ADDR
1700	(6A4)	SIGNED	4	CIRDYNEX_XABENDNUM	++
1704	(6A8)	SIGNED	4	CIRDYNEX_XRCTO	++
1708	(6AC)	SIGNED	4	CIRDYNEX_XRCFROM	++
1712	(6B0)	SIGNED	4	CIRDYNEX_XKEEPRC	++
1716	(6B4)	BITSTRING	1	CIRDYNEX_XKEEPRCCOMP	++ XKEEPRCCOMP
1716	(6B4)	X'0'	0	CIRDYNEX_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1716	(6B4)	X'1'	0	CIRDYNEX_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1716	(6B4)	X'2'	0	CIRDYNEX_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1716	(6B4)	X'3'	0	CIRDYNEX_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1716	(6B4)	X'4'	0	CIRDYNEX_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1716	(6B4)	X'5'	0	CIRDYNEX_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1717	(6B5)	BITSTRING	1	CIRDYNEX_XRCCOMPARE	++ XRCCOMPARE
1717	(6B5)	X'0'	0	CIRDYNEX_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1717	(6B5)	X'1'	0	CIRDYNEX_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1717	(6B5)	X'2'	0	CIRDYNEX_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1717	(6B5)	X'3'	0	CIRDYNEX_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1717	(6B5)	X'4'	0	CIRDYNEX_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1717	(6B5)	X'5'	0	CIRDYNEX_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1718	(6B6)	BITSTRING	1	CIRDYNEX_XFLAGS4	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIRDYNEX_XEXITTYPE_INSTALLATION	"B'01000000'" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIRDYNEX_XEXITTYPE_PROGRAM	"B'00100000'" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIRDYNEX_XEXITTYPE_NOTPROGRAM	"B'00010000'" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIRDYNEX_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... .1..		CIRDYNEX_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIRDYNEX_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CIRDYNEX_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1719	(6B7)	BITSTRING	1	CIRDYNEX_XEXRETVER	++ XEXRETVER
1719	(6B7)	X'0'	0	CIRDYNEX_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1719	(6B7)	X'1'	0	CIRDYNEX_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1720	(6B8)	SIGNED	4	CIRDYNEX_XCALLSTOPRC	++
1724	(6BC)	CHARACTER	44	CIRDYNEX_XRSVNNNN	++ RESERVED
1724	(6BC)	X'6E8'	0	CIRDYNEX_PL_END	"*" ++ END OF BASE PLIST
1664	(680)	BITSTRING	1	CIRDYNEX_XFLAGS2DF	++ FIELD_LABEL
		.1..		CIRDYNEX_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1700	(6A4)	SIGNED	4	CIRDYNEX_XADDABENDNUM	++
1716	(6B4)	BITSTRING	1	CIRDYNEX_XKEEPRCCVAL	++
1717	(6B5)	BITSTRING	1	CIRDYNEX_XRCCVAL	++
1724	(6BC)	ADDRESS	4	CIRDYNEX_XWORKAREA_ADDR	++ ADDR
1728	(6C0)	ADDRESS	4	CIRDYNEX_XRETAREA_ADDR	++ ADDR
1732	(6C4)	SIGNED	4	CIRDYNEX_XRETAREA_ALET	++ ALET
1736	(6C8)	SIGNED	4	CIRDYNEX_XRETLEN	++
1740	(6CC)	ADDRESS	4	CIRDYNEX_XRUB_ADDR	++ ADDR
1744	(6D0)	SIGNED	4	CIRDYNEX_XRUB_ALET	++ ALET
1748	(6D4)	CHARACTER	8	CIRDYNEX_XNEXTTOKEN	++
1756	(6DC)	ADDRESS	4	CIRDYNEX_XSDWA_ADDR	++ ADDR
1760	(6E0)	ADDRESS	4	CIRDYNEX_XPRECALLWA_ADDR	++ ADDR
1724	(6BC)	ADDRESS	4	CIRDYNEX_XANSAREA_ADDR	++ ADDR
1728	(6C0)	SIGNED	4	CIRDYNEX_XANSAREA_ALET	++ ALET
1732	(6C4)	SIGNED	4	CIRDYNEX_XANSLEN	++
1724	(6BC)	ADDRESS	4	CIRDYNEX_XPRECALLADDR	++
1724	(6BC)	ADDRESS	4	CIRDYNEX_XDSNAME_ADDR	++ ADDR
1728	(6C0)	SIGNED	4	CIRDYNEX_XDSNAME_ALET	++ ALET
1732	(6C4)	CHARACTER	8	CIRDYNEX_XJOBNAME	++
1740	(6CC)	ADDRESS	4	CIRDYNEX_XMODADDR	++
1744	(6D0)	CHARACTER	8	CIRDYNEX_XPARAM	++
1752	(6D8)	CHARACTER	8	CIRDYNEX_XSERVICEMASK	++
1760	(6E0)	BITSTRING	1	CIRDYNEX_XAMRFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
		.1..		CIRDYNEX_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1761	(6E1)	CHARACTER	3	CIRDYNEX_XRSV0003	++ RESERVED
1732	(6C4)	CHARACTER	8	CIRDYNEX_XSTOKEN	++
1752	(6D8)	CHARACTER	8	CIRDYNEX_XSERVICEMASKM	++
1760	(6E0)	BITSTRING	1	CIRDYNEX_XAMRFLAGSM	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_SERVICEMASKM	"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1752	(6D8)	CHARACTER	8	CIRDYNEX_XSERVICEMASKR	++
1760	(6E0)	BITSTRING	1	CIRDYNEX_XAMRFLAGSR	++ FIELD_LABEL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIRDYNEX_KEYUSED_SERVICEMASKR	
					"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1768	(6E8)	X'70'	0	CIRDYNEXL	"*-CIRDYNEX" ++ LENGTH OF PLIST
				CSVDYNEX-1	
0	(0)	X'78'	0	CIRGW9LN	"*-CIRGWORK" Length of ninth mapping
		End of CIRGWORK mappings.			
1768	(6E8)	ADDRESS	2	(0)	Ensure that
1768	(6E8)	ADDRESS	2	(0)	CIRGWORK is
1768	(6E8)	ADDRESS	2	(0)	larger than
1768	(6E8)	ADDRESS	2	(0)	each of the
1768	(6E8)	ADDRESS	2	(0)	individual
1768	(6E8)	ADDRESS	2	(0)	mappings of
1768	(6E8)	ADDRESS	2	(0)	the data
1768	(6E8)	ADDRESS	2	(0)	area
1768	(6E8)	ADDRESS	2	(0)	
2548	(9F4)	SIGNED	4	(0)	
2548	(9F4)	X'8AC'	0	CIRWLEN	"*-PCEWORK" LENGTH OF CIR PCE WORK
2548	(9F4)	X'9F4'	0	CIRLEN	"*-PCE" LENGTH OF INIT PCE

Table 62. Structure NGDAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGDAS	
0	(0)	CHARACTER	3	NGDEYE	Eye catcher
3	(3)	BITSTRING	1	NGDFLAG1	Universal flag byte
		1...		NGD1RBLD	"B'10000000'" Rebuild has been performed
3	(3)	X'4'	0	NGDHDR	"*-NGDAS" Header length
4	(4)	SIGNED	2	NGDDATA(0)	
4	(4)	CHARACTER	6	NGDVOLID	EBCDIC VOLSER ID
10	(A)	BITSTRING	1	NGDFLAG2	Individual volume flag byte
		1...		NGD2TRKQ	"B'10000000'" Should be on TRAK q
		.1..		NGD2WRKQ	"B'01000000'" Should be on WORK q
		..1.		NGD2CORR	"B'00100000'" DAS is corrupted
11	(B)	BITSTRING	1	NGDRBLDR	DAS rebuild reason
12	(C)	SIGNED	4	NGDTKCYL	Number of tracks per cyl
16	(10)	SIGNED	2	NGDNORTK	Number of recs per track
20	(14)	SIGNED	4	NGDTRKRC	RECY based tracks in DS
24	(18)	SIGNED	4	NGDMAPSZ	Number of bytes in map
28	(1C)	SIGNED	2	NGDMTCSZ	Minimum trackcell size
30	(1E)	SIGNED	2	NGDTGSIZ	Trackgroup size
32	(20)	BITSTRING	4	NGDEDONE	Expected DONE mask
36	(24)	CHARACTER	44	NGDDSN	Data set name work area
36	(24)	X'4C'	0	NGDASLEN	"*-NGDDATA" Size of temp vector entry

Table 63. Structure NGRSU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGRSU	, Resource usage area
0	(0)	CHARACTER	4	NGRID	Eyecatcher
4	(4)	SIGNED	2	NGRTBLCT	Count of output areas
6	(6)	SIGNED	2	NGRTBLLN	Length of an entry
8	(8)	SIGNED	2	NGRTBLOF	Offset to 1st entry
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	4	NGRWJOE	Work JOE count
16	(10)	SIGNED	4	NGRCJQE	Completed JQE count
20	(14)	SIGNED	4	NGRTSTRT(0)	Start of output areas
20	(14)	BITSTRING	36	NGRJQELN	JQE data line
56	(38)	BITSTRING	36	NGRJBNLN	Job number data line
92	(5C)	BITSTRING	36	NGRJOELN	JOE data line
128	(80)	BITSTRING	36	NGRTGRLN	TG data line
164	(A4)	BITSTRING	36	NGRBRTLN	BERT data line
200	(C8)	BITSTRING	1	NGRQBRLN	JQE BERT data line
200	(C8)	X'D8'	0	NGRJQBRT	"NGREUSE-NGRE+NGRQBRLN,4" JQE BERT count
236	(EC)	BITSTRING	1	NGROBRLN	JOE BERT data line
236	(EC)	X'FC'	0	NGRJOBRT	"NGREUSE-NGRE+NGROBRLN,4" JOE BERT count
236	(EC)	X'7'	0	NGRTCNT	"(*-NGRTSTRT)/NGREDATA" Entry count
236	(EC)	X'110'	0	NGRSULEN	"*-NGRSU" Length of resource struct

Table 64. Structure NGRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGRE	NGR output data entry
0	(0)	CHARACTER	12	NGRENAME	Name of entry
12	(C)	SIGNED	4	NGRELMT	Resource limit
16	(10)	SIGNED	4	NGREUSE	Current usage
20	(14)	SIGNED	4	NGREPCT	Percent in use (*100)
24	(18)	SIGNED	4	NGRERTO	Ratio per JQE/JOE (*100)
28	(1C)	SIGNED	4	NGREMAX	Max with max JQE/JOE
32	(20)	SIGNED	4	NGREMIN	Recommended minimum
32	(20)	X'24'	0	NGREDATA	"*-NGRE" Size of an entry

Table 65. Structure IBD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IBD	, IRPL below the line DSECT
0	(0)	CHARACTER	4	IBDID	Eyecatcher
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
8	(8)	SIGNED	4	IBDPRDCL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
8	(8)	ADDRESS	4		DCBE ADDRESS
12	(C)	BITSTRING	12		FDAD, DVTBL

Table 65. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
28	(1C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
29	(1D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
32	(20)	ADDRESS	2		BUFL, BUFFER LENGTH
34	(22)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
36	(24)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
40	(28)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
41	(29)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
44	(2C)	BITSTRING	1		RECFM (RECORD FORMAT)
45	(2D)	ADDRESS	3		
48	(30)	CHARACTER	8		DDNAME
56	(38)	BITSTRING	1		OFLGS (OPEN FLAGS)
57	(39)	BITSTRING	1		IFLGS (IOS FLAGS)
58	(3A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
60	(3C)	BITSTRING	1		OPTCD, OPTION CODES
61	(3D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
64	(40)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
68	(44)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
70	(46)	ADDRESS	2		BLKSIZE, BLOCK SIZE
72	(48)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
76	(4C)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
80	(50)	ADDRESS	4		EOBAD
84	(54)	ADDRESS	4		RECAD
88	(58)	SIGNED	2		QSWS (FLAGS) AND EITHER DIRCT OR BUFOFF
90	(5A)	ADDRESS	2		LRECL
92	(5C)	BITSTRING	1		EROPT, ERROR OPTION
93	(5D)	ADDRESS	3		CNTRL
96	(60)	SIGNED	2	(2)	RESERVED AND PRECL
100	(64)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
104	(68)	SIGNED	4	(0)	0 Alignment and identifier
108	(6C)	SIGNED	2		4 Length of DCBE, minimum is 56
110	(6E)	BITSTRING	2		6 Reserved, should be zero
112	(70)	ADDRESS	4		8 0 if not open, OPEN points to DCB
116	(74)	BITSTRING	4		C Disk address of current member
120	(78)	BITSTRING	1		10 Flags set by system
121	(79)	BITSTRING	1		11 Flags set by user
122	(7A)	SIGNED	2		12 Number of stripes if extended format
124	(7C)	BITSTRING	1		14 Flags set by user

Table 65. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
125	(7D)	BITSTRING	3		15 Reserved
128	(80)	BITSTRING	4		18 Reserved
132	(84)	SIGNED	4		1C Block size
136	(88)	BITSTRING	8		20 Reserved & number of blocks in ds
144	(90)	ADDRESS	4		28 End of data routine address or 0
148	(94)	ADDRESS	4		2C I/O error routine (synchronous) or 0
152	(98)	BITSTRING	6		30 Reserved, should be zero
158	(9E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
158	(9E)	X'8'	0	IBDPRDCB	"IBDPRDCL,*-IBDPRDCL" Unopened HASPPARM DCB
160	(A0)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
160	(A0)	SIGNED	4	HPARMDCL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
160	(A0)	ADDRESS	4		DCBE ADDRESS
164	(A4)	BITSTRING	12		FDAD, DVTBL
176	(B0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
180	(B4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
181	(B5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
184	(B8)	ADDRESS	2		BUFL, BUFFER LENGTH
186	(BA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
188	(BC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
192	(C0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
193	(C1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
196	(C4)	BITSTRING	1		RECFM (RECORD FORMAT)
197	(C5)	ADDRESS	3		
200	(C8)	CHARACTER	8		DDNAME
208	(D0)	BITSTRING	1		OFLGS (OPEN FLAGS)
209	(D1)	BITSTRING	1		IFLGS (IOS FLAGS)
210	(D2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
212	(D4)	BITSTRING	1		OPTCD, OPTION CODES
213	(D5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
216	(D8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
220	(DC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
222	(DE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
224	(E0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
228	(E4)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
232	(E8)	ADDRESS	4		EOBAD
236	(EC)	ADDRESS	4		RECAD
240	(F0)	SIGNED	2		QSWS (FLAGS) AND EITHER DIRCT OR BUFOFF

Table 65. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
242	(F2)	ADDRESS	2		LRECL
244	(F4)	BITSTRING	1		EROPT, ERROR OPTION
245	(F5)	ADDRESS	3		CNTRL
248	(F8)	SIGNED	2	(2)	RESERVED AND PRECL
252	(FC)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
256	(100)	SIGNED	4	(0)	0 Alignment and identifier
260	(104)	SIGNED	2		4 Length of DCBE, minimum is 56
262	(106)	BITSTRING	2		6 Reserved, should be zero
264	(108)	ADDRESS	4		8 0 if not open, OPEN points to DCB
268	(10C)	BITSTRING	4		C Disk address of current member
272	(110)	BITSTRING	1		10 Flags set by system
273	(111)	BITSTRING	1		11 Flags set by user
274	(112)	SIGNED	2		12 Number of stripes if extended format
276	(114)	BITSTRING	1		14 Flags set by user
277	(115)	BITSTRING	3		15 Reserved
280	(118)	BITSTRING	4		18 Reserved
284	(11C)	SIGNED	4		1C Block size
288	(120)	BITSTRING	8		20 Reserved & number of blocks in ds
296	(128)	ADDRESS	4		28 End of data routine address or 0
300	(12C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
304	(130)	BITSTRING	6		30 Reserved, should be zero
310	(136)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
310	(136)	X'A0'	0	HPARMDCB	"HPARMDCL,*-HPARMDCL" HASPPARM DCB
312	(138)	BITSTRING	1	HPARMFLG	DCB EOF ind X'FF' -> EOF
320	(140)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
320	(140)	SIGNED	4	HLISTDCL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
320	(140)	ADDRESS	4		DCBE ADDRESS
324	(144)	BITSTRING	12		FDAD, DVTBL
336	(150)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
340	(154)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
341	(155)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
344	(158)	ADDRESS	2		BUFL, BUFFER LENGTH
346	(15A)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
348	(15C)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
352	(160)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
353	(161)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
356	(164)	BITSTRING	1		RECFM (RECORD FORMAT)
357	(165)	ADDRESS	3		

Table 65. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
360	(168)	CHARACTER	8		DDNAME
368	(170)	BITSTRING	1		OFLGS (OPEN FLAGS)
369	(171)	BITSTRING	1		IFLGS (IOS FLAGS)
370	(172)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
372	(174)	BITSTRING	1		OPTCD, OPTION CODES
373	(175)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
376	(178)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
380	(17C)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
382	(17E)	ADDRESS	2		BLKSIZE, BLOCK SIZE
384	(180)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
388	(184)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
392	(188)	ADDRESS	4		EOBAD
396	(18C)	ADDRESS	4		RECAD
400	(190)	SIGNED	2		QSWS (FLAGS) AND EITHER DIRCT OR BUFOFF
402	(192)	ADDRESS	2		LRECL
404	(194)	BITSTRING	1		EROPT, ERROR OPTION
405	(195)	ADDRESS	3		CNTRL
408	(198)	SIGNED	2	(2)	RESERVED AND PRECL
412	(19C)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
416	(1A0)	SIGNED	4	(0)	0 Alignment and identifier
420	(1A4)	SIGNED	2		4 Length of DCBE, minimum is 56
422	(1A6)	BITSTRING	2		6 Reserved, should be zero
424	(1A8)	ADDRESS	4		8 0 if not open, OPEN points to DCB
428	(1AC)	BITSTRING	4		C Disk address of current member
432	(1B0)	BITSTRING	1		10 Flags set by system
433	(1B1)	BITSTRING	1		11 Flags set by user
434	(1B2)	SIGNED	2		12 Number of stripes if extended format
436	(1B4)	BITSTRING	1		14 Flags set by user
437	(1B5)	BITSTRING	3		15 Reserved
440	(1B8)	BITSTRING	4		18 Reserved
444	(1BC)	SIGNED	4		1C Block size
448	(1C0)	BITSTRING	8		20 Reserved & number of blocks in ds
456	(1C8)	ADDRESS	4		28 End of data routine address or 0
460	(1CC)	ADDRESS	4		2C I/O error routine (synchronous) or 0
464	(1D0)	BITSTRING	6		30 Reserved, should be zero
470	(1D6)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
470	(1D6)	X'140'	0	HLISTDCB	"HLISTDCL,*-HLISTDCL" HASPLIST DCB

Table 65. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	SIGNED	4	NPLEXLST(0)	DCB exits
472	(1D8)	ADDRESS	1	NPLEXOPN	DCB open
476	(1DC)	ADDRESS	1	NPLEXJFC	JFCB
480	(1E0)	ADDRESS	1	NPLEXABN	ABEND
		The following code is copied into the data area because it must be below the line.			
484	(1E4)	BITSTRING	0	IBDCODE(0)	Start of code stub
492	(1EC)	ADDRESS	4	IBDOPAD	stub
504	(1F8)	ADDRESS	4	IBDAPAD	stub
504	(1F8)	X'18'	0	IBDCODEL	"*-IBDCODE" Length of code segment
508	(1FC)	ADDRESS	2	(0)	Ensure code segments
508	(1FC)	ADDRESS	2	(0)	are the same size
508	(1FC)	SIGNED	4	IBDOP(0)	ALIGN LIST TO WORD
508	(1FC)	ADDRESS	1		Option byte
509	(1FD)	ADDRESS	3		Reserved
512	(200)	ADDRESS	4		DCB or ACB address
512	(200)	X'1FC'	0	IBDOPEN	"IBDOP,*-IBDOP"
516	(204)	SIGNED	4	IBDCL(0)	ALIGN LIST TO FULLWORD
516	(204)	ADDRESS	1		OPTION BYTE
517	(205)	ADDRESS	3		RESERVED BYTES
520	(208)	ADDRESS	4		DCB OR ACB ADDRESS
520	(208)	X'204'	0	IBDCLOSE	"IBDCL,*-IBDCL"
524	(20C)	SIGNED	4	(0)	
524	(20C)	BITSTRING	1	IBDJFCB(176)	JFCB work area
524	(20C)	X'2BC'	0	IBDLEN	"*-IBD" Length of work area

Table 66. Cross Reference for $CIRWORK

Name	Offset	Hex Tag
CIRACCTJ	364	
CIRACCTN	368	
CIRALTDS	690	
CIRANSA	708	
CIRANSAL	70C	
CIRASALT	6D8	
CIRASDSB	6DC	
CIRASKEY	6D5	
CIRASNAM	6E0	
CIRBLDM	4EC	C2D3C440
CIRBRTCT	4DC	
CIRBSCLC	3D8	0
CIRBTGFA	3E8	
CIRBTGLA	3EC	
CIRBTPRC	1EA	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRCAPU	670	
CIRCAPU_KEYUSED_ASID	671	10
CIRCAPU_KEYUSED_CAPTOACT	671	20
CIRCAPU_KEYUSED_CAPTPTR	671	4
CIRCAPU_KEYUSED_CAPTUCB	671	80
CIRCAPU_KEYUSED_UCAPTUCB	671	40
CIRCAPU_KEYUSED_UCBPTR	671	8
CIRCAPU_XASID	67E	
CIRCAPU_XCAPTCOM_NEVER	67D	10
CIRCAPU_XCAPTCOM_YES	67D	20
CIRCAPU_XCAPTPTR	678	
CIRCAPU_XFLAGS1	671	
CIRCAPU_XLASTING_YES	67D	40
CIRCAPU_XMASK	67D	
CIRCAPU_XMSIFREE_YES	67D	80
CIRCAPU_XRESERVED1	672	
CIRCAPU_XRESERVED2	67C	
CIRCAPU_XRESERVED3	680	
CIRCAPU_XUCBPTR	674	
CIRCAPU_XVERSION	670	
CIRCAPUL	680	20
CIRCHFES	888	
CIRCHIUS	7DA	8
CIRCKPT1	7F8	
CIRCKPT2	840	
CIRCKPVR	14C	
CIRCKVER	6A6	40
CIRCKVTM	6A6	20
CIRCKVWR	6A6	80
CIRCLGSZ	7D9	8
CIRCLREC	6A4	
CIRCMDTB	3CC	
CIRCMSTR	670	
CIRCMTSV	350	0
CIRCNECT	47C	
CIRCNVWK	320	320
CIRCONDS	764	
CIRCOUNT	6A0	
CIRCSRET	6E8	
CIRCTASI	7CC	
CIRCTBLN	7C8	
CIRCTBUF	7C0	
CIRCTEND	69C	
CIRCTENT	698	
CIRCTLST	6A8	
CIRCTLST_DEFINE	6AC	1

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRCTLST_DELETE	6AC	2
CIRCTLST_KEYUSED_BUFDFLT	6CA	8
CIRCTLST_KEYUSED_BUFMAX	6CA	10
CIRCTLST_KEYUSED_BUFMIN	6CA	20
CIRCTLST_KEYUSED_IFNOSUBS	6CA	1
CIRCTLST_KEYUSED_MINOPS	6C8	10
CIRCTLST_KEYUSED_PARM	6CA	40
CIRCTLST_KEYUSED_SSRC	6CA	4
CIRCTLST_KEYUSED_SSRSNC	6CA	2
CIRCTLST_KEYUSED_SUB	6CA	80
CIRCTLST_KEYUSED_USERDATA	6CB	80
CIRCTLST_PL_END	708	70C
CIRCTLST_XASIDS_YES	6C8	80
CIRCTLST_XBUFDEFIN_YES	6C8	4
CIRCTLST_XBUFDFLT	6F0	
CIRCTLST_XBUFFER_YES	6C8	40
CIRCTLST_XBUFMAX	6EC	
CIRCTLST_XBUFMIN	6E8	
CIRCTLST_XFLG1	6C8	
CIRCTLST_XFLG2	6C9	
CIRCTLST_XFLG3	6CA	
CIRCTLST_XFLG4	6CB	
CIRCTLST_XFMTTAB	6C0	
CIRCTLST_XHEAD_YES	6C9	40
CIRCTLST_XHEADOPTS_YES	6C9	20
CIRCTLST_XJOBS_YES	6C8	20
CIRCTLST_XLIKEHEAD_YES	6C9	80
CIRCTLST_XLNKPARM	6CC	
CIRCTLST_XMANYSUBS_YES	6C9	10
CIRCTLST_XMINOPS_ADDR	6D0	
CIRCTLST_XMINOPS_LEN	6D4	
CIRCTLST_XMNFMSG_NO	6C8	1
CIRCTLST_XMOD_YES	6C8	8
CIRCTLST_XNAME	6B0	
CIRCTLST_XON_NOTMIN	6C9	1
CIRCTLST_XPARM	6FC	
CIRCTLST_XRSV0000	6A9	
CIRCTLST_XRVS0002	6E6	
CIRCTLST_XRVS0003	6FA	
CIRCTLST_XSERVICE	6AC	
CIRCTLST_XSSRC	704	
CIRCTLST_XSSRSNC	708	
CIRCTLST_XSTARTNAM	6B8	
CIRCTLST_XSUB_ADDR	6F4	
CIRCTLST_XSUB_LEN	6F8	
CIRCTLST_XUSERDATA	6D6	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRCTLST_XVERSION	6A8	
CIRCTLST_XWTR_YES	6C8	2
CIRCTLST_XWTRMODE_DREF	6C9	4
CIRCTLST_XWTRMODE_FIXED	6C9	2
CIRCTLST_XWTRMODE_PAGEABLE	6C9	8
CIRCTLSTL	708	64
CIRCTNAM	7D0	
CIRCTUSR	7C0	
CIRCURDS	68C	
CIRCURRC	36C	
CIRDOMID	478	
CIRDONFW	7DA	20
CIRDWORK	158	0
CIRDYNEX	678	
CIRDYNEX_KEYUSED_CALLSTOPRC	67A	80
CIRDYNEX_KEYUSED_KEEPRC	67A	20
CIRDYNEX_KEYUSED_PRECALLADDR	6B6	80
CIRDYNEX_KEYUSED_RCFROM	67A	40
CIRDYNEX_KEYUSED_SERVICEID	6B6	2
CIRDYNEX_KEYUSED_SERVICEMASK	6E0	80
CIRDYNEX_KEYUSED_SERVICEMASKM	6E0	80
CIRDYNEX_KEYUSED_SERVICEMASKR	6E0	80
CIRDYNEX_KEYUSED_STOKEN	680	1
CIRDYNEX_PL_END	6BC	6E8
CIRDYNEX_XABENDCONSEC_YES	680	4
CIRDYNEX_XABENDNUM	6A4	
CIRDYNEX_XADDABENDNUM	6A4	
CIRDYNEX_XADDRSPACE_ANY	6B6	4
CIRDYNEX_XAMODE	67B	
CIRDYNEX_XAMODE_DEFINED	67B	2
CIRDYNEX_XAMODE_24	67B	1
CIRDYNEX_XAMODE_31	67B	0
CIRDYNEX_XAMRFLAGS	6E0	
CIRDYNEX_XAMRFLAGSM	6E0	
CIRDYNEX_XAMRFLAGSR	6E0	
CIRDYNEX_XANSAREA_ADDR	6BC	
CIRDYNEX_XANSAREA_ALET	6C0	
CIRDYNEX_XANSLEN	6C4	
CIRDYNEX_XANYKEY_YES	680	8
CIRDYNEX_XCALLSTOPRC	6B8	
CIRDYNEX_XCMDINFO_ADDR	6A0	
CIRDYNEX_XDELETEFORCE_YES	680	40
CIRDYNEX_XDISABLEDCALL_OK	6E0	40
CIRDYNEX_XDSNAME_ADDR	6BC	
CIRDYNEX_XDSNAME_ALET	6C0	
CIRDYNEX_XEXAAVER	683	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XEXAAVER_0	683	0
CIRDYNEX_XEXAAVER_1	683	1
CIRDYNEX_XEXAAVER_2	683	2
CIRDYNEX_XEXAAVER_3	683	3
CIRDYNEX_XEXITNAME	688	
CIRDYNEX_XEXITTYPE_INSTALLATION	6B6	40
CIRDYNEX_XEXITTYPE_NOTPROGRAM	6B6	10
CIRDYNEX_XEXITTYPE_PROGRAM	6B6	20
CIRDYNEX_XEXRETVER	6B7	
CIRDYNEX_XEXRETVER_0	6B7	0
CIRDYNEX_XEXRETVER_1	6B7	1
CIRDYNEX_XFASTPATH_YES	67A	10
CIRDYNEX_XFLAGS	67A	
CIRDYNEX_XFLAGS2	680	
CIRDYNEX_XFLAGS2DF	680	
CIRDYNEX_XFLAGS3	681	
CIRDYNEX_XFLAGS4	6B6	
CIRDYNEX_XFLAGS5	687	
CIRDYNEX_XFORCE_YES	680	40
CIRDYNEX_XJOBNAME	6C4	
CIRDYNEX_XKEEPRC	6B0	
CIRDYNEX_XKEEPRCCOMP	6B4	
CIRDYNEX_XKEEPRCCOMP_EQ	6B4	0
CIRDYNEX_XKEEPRCCOMP_GE	6B4	4
CIRDYNEX_XKEEPRCCOMP_GT	6B4	2
CIRDYNEX_XKEEPRCCOMP_LE	6B4	5
CIRDYNEX_XKEEPRCCOMP_LT	6B4	3
CIRDYNEX_XKEEPRCCOMP_NE	6B4	1
CIRDYNEX_XKEEPRCCVAL	6B4	
CIRDYNEX_XKEY	67C	
CIRDYNEX_XLINKSTACKOK_NO	680	2
CIRDYNEX_XLOADAPF_YES	6B6	1
CIRDYNEX_XLOCAL_YES	681	4
CIRDYNEX_XMESSAGE_ERROR	67A	4
CIRDYNEX_XMESSAGE_FOUNDBUTERROR	6B6	8
CIRDYNEX_XMODADDR	6CC	
CIRDYNEX_XMODNAME	698	
CIRDYNEX_XNEXTTOKEN	6D4	
CIRDYNEX_XONEMODULE_YES	680	80
CIRDYNEX_XPARAM	6D0	
CIRDYNEX_XPERSIST_ADDRESSSPACE	680	20
CIRDYNEX_XPERSIST_IPL	680	10
CIRDYNEX_XPERSIST_JOBSTEPTASK	681	2
CIRDYNEX_XPOS	682	
CIRDYNEX_XPOS_CONDFIRST	682	5
CIRDYNEX_XPOS_CONDLAST	682	6

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XPOS_FIRST	682	2
CIRDYNEX_XPOS_KEEPFIRST	682	3
CIRDYNEX_XPOS_KEEPLAST	682	4
CIRDYNEX_XPOS_LAST	682	1
CIRDYNEX_XPOS_SYSTEM	682	0
CIRDYNEX_XPOSCOND_YES	687	80
CIRDYNEX_XPRECALLADDR	6BC	
CIRDYNEX_XPRECALLWA_ADDR	6E0	
CIRDYNEX_XQTYPE_ADD	681	8
CIRDYNEX_XRCCOMPARE	6B5	
CIRDYNEX_XRCCOMPARE_EQ	6B5	0
CIRDYNEX_XRCCOMPARE_GE	6B5	4
CIRDYNEX_XRCCOMPARE_GT	6B5	2
CIRDYNEX_XRCCOMPARE_LE	6B5	5
CIRDYNEX_XRCCOMPARE_LT	6B5	3
CIRDYNEX_XRCCOMPARE_NE	6B5	1
CIRDYNEX_XRCCVAL	6B5	
CIRDYNEX_XRCFROM	6AC	
CIRDYNEX_XRCTO	6A8	
CIRDYNEX_XREENTRANT_REQ	67A	8
CIRDYNEX_XREQUEST	679	
CIRDYNEX_XREQUEST_ACTIVATE	679	A
CIRDYNEX_XREQUEST_ADD	679	1
CIRDYNEX_XREQUEST_ATTRIB	679	5
CIRDYNEX_XREQUEST_CALL	679	7
CIRDYNEX_XREQUEST_DEFINE	679	0
CIRDYNEX_XREQUEST_DELETE	679	3
CIRDYNEX_XREQUEST_LIST	679	6
CIRDYNEX_XREQUEST_MODIFY	679	2
CIRDYNEX_XREQUEST_PROCESSDP	679	9
CIRDYNEX_XREQUEST_QUERY	679	B
CIRDYNEX_XREQUEST_RECOVER	679	8
CIRDYNEX_XREQUEST_REPLACE	679	C
CIRDYNEX_XREQUEST_UNDEFINE	679	4
CIRDYNEX_XRETAREA_ADDR	6C0	
CIRDYNEX_XRETAREA_ALET	6C4	
CIRDYNEX_XRETINFO_ALL	681	20
CIRDYNEX_XRETINFO_HIGHEST	681	80
CIRDYNEX_XRETINFO_LAST	681	10
CIRDYNEX_XRETINFO_LOWEST	681	40
CIRDYNEX_XRETLEN	6C8	
CIRDYNEX_XRSVNNNN	6BC	
CIRDYNEX_XRSV0002	684	
CIRDYNEX_XRSV0003	6E1	
CIRDYNEX_XRUB_ADDR	6CC	
CIRDYNEX_XRUB_ALET	6D0	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XSDWA_ADDR	6DC	
CIRDYNEX_XSERVICEMASK	6D8	
CIRDYNEX_XSERVICEMASKM	6D8	
CIRDYNEX_XSERVICEMASKR	6D8	
CIRDYNEX_XSTATE_ACTIVE	67A	2
CIRDYNEX_XSTATE_INACTIVE	67A	1
CIRDYNEX_XSTOKEN	6C4	
CIRDYNEX_XVERSION	678	
CIRDYNEX_XWILDCARDSTAR_NO	681	1
CIRDYNEX_XWORKAREA_ADDR	6BC	
CIRDYNEXL	6E8	70
CIRECB	164	0
CIRECBA1	920	
CIRECBA2	924	
CIRECBLS	920	
CIRECB1	928	
CIRECB2	92C	
CIRETDEF	670	
CIREXDYN	710	
CIREXDYN_KEYUSED_CALLSTOPRC	712	80
CIREXDYN_KEYUSED_KEEPRC	712	20
CIREXDYN_KEYUSED_PRECALLADDR	74E	80
CIREXDYN_KEYUSED_RCFROM	712	40
CIREXDYN_KEYUSED_SERVICEID	74E	2
CIREXDYN_KEYUSED_SERVICEMASK	778	80
CIREXDYN_KEYUSED_SERVICEMASKM	778	80
CIREXDYN_KEYUSED_SERVICEMASKR	778	80
CIREXDYN_KEYUSED_STOKEN	718	1
CIREXDYN_PL_END	754	780
CIREXDYN_XABENDCONSEC_YES	718	4
CIREXDYN_XABENDNUM	73C	
CIREXDYN_XADDABENDNUM	73C	
CIREXDYN_XADDRSPACE_ANY	74E	4
CIREXDYN_XAMODE	713	
CIREXDYN_XAMODE_DEFINED	713	2
CIREXDYN_XAMODE_24	713	1
CIREXDYN_XAMODE_31	713	0
CIREXDYN_XAMRFLAGS	778	
CIREXDYN_XAMRFLAGSM	778	
CIREXDYN_XAMRFLAGSR	778	
CIREXDYN_XANSAREA_ADDR	754	
CIREXDYN_XANSAREA_ALET	758	
CIREXDYN_XANSLEN	75C	
CIREXDYN_XANYKEY_YES	718	8
CIREXDYN_XCALLSTOPRC	750	
CIREXDYN_XCMDINFO_ADDR	738	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XDELETEFORCE_YES	718	40
CIREXDYN_XDISABLEDCALL_OK	778	40
CIREXDYN_XDSNAME_ADDR	754	
CIREXDYN_XDSNAME_ALET	758	
CIREXDYN_XEXAAVER	71B	
CIREXDYN_XEXAAVER_0	71B	0
CIREXDYN_XEXAAVER_1	71B	1
CIREXDYN_XEXAAVER_2	71B	2
CIREXDYN_XEXAAVER_3	71B	3
CIREXDYN_XEXITNAME	720	
CIREXDYN_XEXITTYPE_INSTALLATION	74E	40
CIREXDYN_XEXITTYPE_NOTPROGRAM	74E	10
CIREXDYN_XEXITTYPE_PROGRAM	74E	20
CIREXDYN_XEXRETVER	74F	
CIREXDYN_XEXRETVER_0	74F	0
CIREXDYN_XEXRETVER_1	74F	1
CIREXDYN_XFASTPATH_YES	712	10
CIREXDYN_XFLAGS	712	
CIREXDYN_XFLAGS2	718	
CIREXDYN_XFLAGS2DF	718	
CIREXDYN_XFLAGS3	719	
CIREXDYN_XFLAGS4	74E	
CIREXDYN_XFLAGS5	71F	
CIREXDYN_XFORCE_YES	718	40
CIREXDYN_XJOBNAME	75C	
CIREXDYN_XKEEPRC	748	
CIREXDYN_XKEEPRCCOMP	74C	
CIREXDYN_XKEEPRCCOMP_EQ	74C	0
CIREXDYN_XKEEPRCCOMP_GE	74C	4
CIREXDYN_XKEEPRCCOMP_GT	74C	2
CIREXDYN_XKEEPRCCOMP_LE	74C	5
CIREXDYN_XKEEPRCCOMP_LT	74C	3
CIREXDYN_XKEEPRCCOMP_NE	74C	1
CIREXDYN_XKEEPRCCVAL	74C	
CIREXDYN_XKEY	714	
CIREXDYN_XLINKSTACKOK_NO	718	2
CIREXDYN_XLOADAPF_YES	74E	1
CIREXDYN_XLOCAL_YES	719	4
CIREXDYN_XMESSAGE_ERROR	712	4
CIREXDYN_XMESSAGE_FOUNDBUTERROR	74E	8
CIREXDYN_XMODADDR	764	
CIREXDYN_XMODNAME	730	
CIREXDYN_XNEXTTOKEN	76C	
CIREXDYN_XONEMODULE_YES	718	80
CIREXDYN_XPARAM	768	
CIREXDYN_XPERSIST_ADDRESSSPACE	718	20

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XPERSIST_IPL	718	10
CIREXDYN_XPERSIST_JOBSTEPTASK	719	2
CIREXDYN_XPOS	71A	
CIREXDYN_XPOS_CONDFIRST	71A	5
CIREXDYN_XPOS_CONDLAST	71A	6
CIREXDYN_XPOS_FIRST	71A	2
CIREXDYN_XPOS_KEEPFIRST	71A	3
CIREXDYN_XPOS_KEEPLAST	71A	4
CIREXDYN_XPOS_LAST	71A	1
CIREXDYN_XPOS_SYSTEM	71A	0
CIREXDYN_XPOSCOND_YES	71F	80
CIREXDYN_XPRECALLADDR	754	
CIREXDYN_XPRECALLWA_ADDR	778	
CIREXDYN_XQTYPE_ADD	719	8
CIREXDYN_XRCCOMPARE	74D	
CIREXDYN_XRCCOMPARE_EQ	74D	0
CIREXDYN_XRCCOMPARE_GE	74D	4
CIREXDYN_XRCCOMPARE_GT	74D	2
CIREXDYN_XRCCOMPARE_LE	74D	5
CIREXDYN_XRCCOMPARE_LT	74D	3
CIREXDYN_XRCCOMPARE_NE	74D	1
CIREXDYN_XRCCVAL	74D	
CIREXDYN_XRCFROM	744	
CIREXDYN_XRCTO	740	
CIREXDYN_XREENTRANT_REQ	712	8
CIREXDYN_XREQUEST	711	
CIREXDYN_XREQUEST_ACTIVATE	711	A
CIREXDYN_XREQUEST_ADD	711	1
CIREXDYN_XREQUEST_ATTRIB	711	5
CIREXDYN_XREQUEST_CALL	711	7
CIREXDYN_XREQUEST_DEFINE	711	0
CIREXDYN_XREQUEST_DELETE	711	3
CIREXDYN_XREQUEST_LIST	711	6
CIREXDYN_XREQUEST_MODIFY	711	2
CIREXDYN_XREQUEST_PROCESSDP	711	9
CIREXDYN_XREQUEST_QUERY	711	B
CIREXDYN_XREQUEST_RECOVER	711	8
CIREXDYN_XREQUEST_REPLACE	711	C
CIREXDYN_XREQUEST_UNDEFINE	711	4
CIREXDYN_XRETAREA_ADDR	758	
CIREXDYN_XRETAREA_ALET	75C	
CIREXDYN_XRETINFO_ALL	719	20
CIREXDYN_XRETINFO_HIGHEST	719	80
CIREXDYN_XRETINFO_LAST	719	10
CIREXDYN_XRETINFO_LOWEST	719	40
CIREXDYN_XRETLEN	760	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XRSVNNNN	754	
CIREXDYN_XRSV0002	71C	
CIREXDYN_XRSV0003	779	
CIREXDYN_XRUB_ADDR	764	
CIREXDYN_XRUB_ALET	768	
CIREXDYN_XSDWA_ADDR	774	
CIREXDYN_XSERVICEMASK	770	
CIREXDYN_XSERVICEMASKM	770	
CIREXDYN_XSERVICEMASKR	770	
CIREXDYN_XSTATE_ACTIVE	712	2
CIREXDYN_XSTATE_INACTIVE	712	1
CIREXDYN_XSTOKEN	75C	
CIREXDYN_XVERSION	710	
CIREXDYN_XWILDCARDSTAR_NO	719	1
CIREXDYN_XWORKAREA_ADDR	754	
CIREXDYNL	780	70
CIREXIT0	16C	
CIREXPRF	7D9	40
CIRFFWD	7DA	10
CIRFLAGV	6D4	
CIRFLAG1	148	0
CIRFLAG2	149	0
CIRFLAG3	14A	
CIRFLAG4	14B	0
CIRFLAG5	35A	0
CIRFLAG6	35B	0
CIRFPLN	798	
CIRFPTX	778	
CIRFV$DS	6D4	80
CIRFVIAR	6D4	40
CIRFVNBL	6D4	20
CIRFVNFD	6D4	10
CIRFVNSH	6D4	8
CIRFVRC	6D4	4
CIRFVRS	6D4	2
CIRFWCNT	7F4	
CIRFWDDS	7DA	40
CIRF1CAN	148	4
CIRF1CI	148	20
CIRF1HPI	148	80
CIRF1INC	148	40
CIRF1PER	148	8
CIRF1SER	148	1
CIRF1SSW	148	2
CIRF1XI	148	10
CIRF2CM	149	10

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRF2CMA	149	2
CIRF2CMT	149	1
CIRF2ECM	149	8
CIRF2HPO	149	20
CIRF2JEX	149	80
CIRF2RRD	149	40
CIRF2SSE	149	4
CIRF3BDV	14A	10
CIRF3ERR	14A	F
CIRF3IO1	14A	8
CIRF3IO2	14A	4
CIRF3I1V	14A	9
CIRF3I12	14A	C
CIRF3LOG	14A	40
CIRF3LST	14A	80
CIRF3MID	14A	20
CIRF3VE1	14A	2
CIRF3VE2	14A	1
CIRF3V1I	14A	6
CIRF3V12	14A	3
CIRF4CHD	14B	2
CIRF4CHM	14B	4
CIRF4ILL	14B	80
CIRF4RER	14B	8
CIRF4RES	14B	10
CIRF4RTE	14B	1
CIRF4SCN	14B	20
CIRF4XER	14B	40
CIRGEMR	360	39
CIRGWORK	670	
CIRGW1LN	980	358
CIRGW2LN	0	14C
CIRGW3LN	670	0
CIRGW4LN	0	314
CIRGW5LN	0	20
CIRGW6LN	799	12C
CIRGW7LN	670	78
CIRGW8LN	6E0	78
CIRGW9LN	0	78
CIRHCT	160	
CIRIARV	710	
CIRIARV_KEYUSED_CONVERTSIZE64	714	4
CIRIARV_KEYUSED_CONVERTSTART	714	10
CIRIARV_KEYUSED_DUMP	78B	80
CIRIARV_KEYUSED_GUARDSIZE64	714	8
CIRIARV_KEYUSED_INORIGIN	7B9	80

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_KEYUSED_KEY	714	80
CIRIARV_KEYUSED_MOTKN	714	2
CIRIARV_KEYUSED_OPTIONVALUE	78B	40
CIRIARV_KEYUSED_OWNERJOBNAME	714	1
CIRIARV_KEYUSED_SVCDUMPRGN	78B	20
CIRIARV_KEYUSED_TTOKEN	714	20
CIRIARV_KEYUSED_UNITS	7B8	80
CIRIARV_KEYUSED_USERTKN	714	40
CIRIARV_PL_END	7BA	7C0
CIRIARV_XAFFINITY_SYSTEM	716	40
CIRIARV_XALETVALUE	758	
CIRIARV_XAMOUNTSIZE_1MEG	78A	2
CIRIARV_XAMOUNTSIZE_4K	78A	4
CIRIARV_XATTRIBUTE_DEFS	78B	10
CIRIARV_XATTRIBUTE_NOTOWNERGONE	78B	4
CIRIARV_XATTRIBUTE_OWNERGONE	78B	8
CIRIARV_XCHANGEACCESS_GLOBAL	715	8
CIRIARV_XCLEAR_NO	717	40
CIRIARV_XCOND_YES	715	80
CIRIARV_XCONTROL_AUTH	715	20
CIRIARV_XCONVERT_FROMGUARD	717	2
CIRIARV_XCONVERT_TOGUARD	717	4
CIRIARV_XCONVERTSIZE	754	
CIRIARV_XCONVERTSIZE64	770	
CIRIARV_XCONVERTSTART	768	
CIRIARV_XDETACHFIXED_YES	78A	20
CIRIARV_XDISCARDPAGES_YES	0	4
CIRIARV_XDMAPAGETABLE	7A8	
CIRIARV_XDOAUTHCHECKS_YES	78A	10
CIRIARV_XDUMP	78C	
CIRIARV_XDUMP_ALL	78C	FF
CIRIARV_XDUMP_LIKECSA	78C	3
CIRIARV_XDUMP_LIKELSQA	78C	21
CIRIARV_XDUMP_LIKERGN	78C	20
CIRIARV_XDUMP_LIKESQA	78C	2
CIRIARV_XDUMP_NO	78C	1
CIRIARV_XDUMP_NONE	78C	0
CIRIARV_XDUMPPRIORITY	788	
CIRIARV_XDUMPPROTOCOL_YES	789	80
CIRIARV_XEXECUTABLE_NO	0	1
CIRIARV_XEXECUTABLE_YES	0	2
CIRIARV_XFLAGS0	712	
CIRIARV_XFLAGS1	714	
CIRIARV_XFLAGS10	7B9	
CIRIARV_XFLAGS2	715	
CIRIARV_XFLAGS3	716	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XFLAGS4	717	
CIRIARV_XFLAGS5	789	
CIRIARV_XFLAGS6	78A	
CIRIARV_XFLAGS7	78B	
CIRIARV_XFLAGS8	78D	
CIRIARV_XFLAGS9	7B8	
CIRIARV_XFPROT_NO	715	40
CIRIARV_XGUARDLOC_HIGH	715	10
CIRIARV_XGUARDSIZE	750	
CIRIARV_XGUARDSIZE64	778	
CIRIARV_XINORIGIN	748	
CIRIARV_XKEEPREAL_NO	717	1
CIRIARV_XKEY	713	
CIRIARV_XLOCALSYSAREA_YES	78A	8
CIRIARV_XLONG_NO	717	80
CIRIARV_XMATCH_MOTOKEN	712	20
CIRIARV_XMATCH_USERTOKEN	716	80
CIRIARV_XMEMLIMIT_COND	78A	1
CIRIARV_XMEMLIMIT_NO	78A	40
CIRIARV_XMEMOBJSTART	748	
CIRIARV_XMOTKN	730	
CIRIARV_XMOTKNCREATOR_SYSTEM	712	40
CIRIARV_XMOTKNSOURCE_SYSTEM	712	80
CIRIARV_XNUMRANGE	75C	
CIRIARV_XOPTIONVALUE	790	
CIRIARV_XORDER_DUMPPRIORITY	789	40
CIRIARV_XORIGIN	738	
CIRIARV_XOUTMOTKN	730	
CIRIARV_XOWNER_NO	716	10
CIRIARV_XOWNERASID	78E	
CIRIARV_XOWNERCOM_BYASID	789	1
CIRIARV_XOWNERCOM_HOME	789	8
CIRIARV_XOWNERCOM_PRIMARY	789	4
CIRIARV_XOWNERCOM_SYSTEM	789	2
CIRIARV_XOWNERJOBNAME	799	
CIRIARV_XPAGEFRAMESIZE_ALL	715	1
CIRIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CIRIARV_XPAGEFRAMESIZE_MAX	715	2
CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	78D	80
CIRIARV_XPAGEFRAMESIZE_1M	7B8	10
CIRIARV_XPAGEFRAMESIZE_1MEG	715	4
CIRIARV_XPAGEFRAMESIZE_2G	7B8	8
CIRIARV_XRANGLIST	740	
CIRIARV_XREQUEST	711	
CIRIARV_XREQUEST_CHANGEACCESS	711	B
CIRIARV_XREQUEST_CHANGEGUARD	711	D

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XREQUEST_COUNTPAGES	711	10
CIRIARV_XREQUEST_DETACH	711	3
CIRIARV_XREQUEST_DISCARDDATA	711	7
CIRIARV_XREQUEST_GETCOMMON	711	F
CIRIARV_XREQUEST_GETSHARED	711	2
CIRIARV_XREQUEST_GETSTOR	711	1
CIRIARV_XREQUEST_LIST	711	E
CIRIARV_XREQUEST_PAGEFIX	711	4
CIRIARV_XREQUEST_PAGEIN	711	8
CIRIARV_XREQUEST_PAGEOUT	711	6
CIRIARV_XREQUEST_PAGEUNFIX	711	5
CIRIARV_XREQUEST_PCIEFIX	711	11
CIRIARV_XREQUEST_PCIEUNFIX	711	12
CIRIARV_XREQUEST_PROTECT	711	9
CIRIARV_XREQUEST_SHAREMEMOBJ	711	A
CIRIARV_XREQUEST_UNPROTECT	711	C
CIRIARV_XRSV0001	791	
CIRIARV_XRSV0004	7A1	
CIRIARV_XRSV0005	7BA	
CIRIARV_XSADMP_NO	0	10
CIRIARV_XSADMP_YES	0	20
CIRIARV_XSEGMENTS	718	
CIRIARV_XSENSITIVE_NO	7B9	20
CIRIARV_XSENSITIVE_YES	7B9	40
CIRIARV_XSVCDUMPRGN_ALL	716	1
CIRIARV_XSVCDUMPRGN_NO	716	4
CIRIARV_XTRACKINFO_YES	78B	2
CIRIARV_XTTOKEN	720	
CIRIARV_XTYPE_DREF	789	10
CIRIARV_XTYPE_FIXED	7B8	4
CIRIARV_XTYPE_PAGEABLE	789	20
CIRIARV_XUNITS	7B0	
CIRIARV_XUNITSIZE_1M	7B8	40
CIRIARV_XUNITSIZE_2G	7B8	20
CIRIARV_XUNLOCKED_YES	78B	1
CIRIARV_XUSERTKN	730	
CIRIARV_XUSERTOKEN	780	
CIRIARV_XUSE2GTO32G_YES	716	20
CIRIARV_XUSE2GTO64G_YES	0	8
CIRIARV_XVERSION	710	
CIRIARV_XVIEW_HIDDEN	717	8
CIRIARV_XVIEW_READONLY	717	20
CIRIARV_XVIEW_SHAREDWRITE	717	10
CIRIARV_XV64COMMON_NO	78A	80
CIRIARV_XV64LISTLENGTH	764	
CIRIARV_XV64LISTPTR	760	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XV64SELECT_NO	716	8
CIRIARV_XV64SHARED_NO	716	2
CIRIARVL	7C0	B0
CIRIBRTF	4C4	0
CIRIDMEM	918	
CIRIDSNE	760	
CIRIJBNF	4B4	0
CIRIJOEF	4C0	0
CIRILCMN	4B8	0
CIRILCMX	4BC	0
CIRINFMR	360	3D
CIRINSSA	678	
CIRINSSL	67C	
CIRIPRW	694	0
CIRIQNAM	480	E2E8E2E9
CIRIRDAF	7D9	0
CIRIRDA1	7DA	0
CIRIRDA2	6A6	0
CIRIRNAM	488	C9D5C9E3
CIRIRPL1	222	0
CIRITGF	4C8	0
CIRITGIU	4CC	0
CIRI416	7DA	2
CIRI460	7DA	4
CIRJBMAX	360	
CIRJBMIN	35C	
CIRJBNTB	4E4	
CIRJNPRC	1E6	
CIRJOECT	4D4	
CIRJOHI	1DE	FF0
CIRJOLOW	1E0	0
CIRJOPRC	1E4	
CIRJORAT	1DC	0
CIRJOTEC	7D9	2
CIRJOTES	7D8	
CIRJOTRB	7D9	1
CIRJOTV	7D9	3
CIRJQECT	4D0	
CIRJQENC	670	
CIRJQENP	674	
CIRJQHI	1DA	
CIRJQLOW	1DB	
CIRJQPRC	1E2	
CIRJQRAT	1D8	0
CIRLEN	9F4	9F4
CIRLFJQE	694	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRLNENM	492	0
CIRLPARM	68C	
CIRLRCNT	690	
CIRMAXQT	7D9	20
CIRMLTE	320	
CIRMLTEP	31C	
CIRMSGIS	7DA	80
CIRMSTRS	680	
CIRMWORK	544	
CIRM500A	670	
CIRM791W	91C	
CIRNDCHN	290	0
CIRNDDOM	290	10
CIRNDEYE	290	0
CIRNDLAY	25C	
CIRNDLEN	290	14
CIRNDMSG	290	C
CIRNDNXT	290	4
CIRNDSTI	290	8
CIRNFSSP	4A8	0
CIRNLLCC	2A0	
CIRNLLCT	21E	1
CIRNLLL1	2B3	1E
CIRNLLNE	2A0	
CIRNLLSH	2AE	
CIRNLLSN	2B3	
CIRNLLSR	2A1	
CIRNLLST	2C9	
CIRNLPCT	220	0
CIRNODAT	7DA	1
CIRNPLLG	24C	
CIRNQMSG	258	
CIRNTCLF	4AC	0
CIRNTCLP	4B0	0
CIRNUMJR	498	0
CIRNUMJT	494	0
CIRNUMSR	4A0	0
CIRNUMST	49C	0
CIRNXTOK	6D8	
CIRN3800	4A4	0
CIROPTA	470	
CIROPTL	474	
CIROPTPF	170	
CIROPTS	174	0
CIRPARMF	7DB	
CIRPARML	7DC	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRPARMS	7F0	7DB
CIRPARM1	7DC	
CIRPARM2	7E0	
CIRPARM3	7E4	
CIRPARM4	7E8	
CIRPARM5	7EC	
CIRPARM6	7F0	
CIRPDCT	260	
CIRPDCT2	264	
CIRPLWRK	230	
CIRPRDCB	684	
CIRPREVC	374	
CIRPRMWR	688	
CIRP1RSM	222	40
CIRREPLY	150	0
CIRROPSL	37C	F0F0F0F0
CIRROPST	394	F0F0F0F0
CIRROPSU	3AC	F0F0F0F0
CIRRSUTB	4E8	
CIRRSV1	799	
CIRRUB	6C4	
CIRRUBRB	6D0	
CIRRUBRD	6D4	
CIRRUBR0	6C8	
CIRRUBR1	6CC	
CIRSCMLN	670	
CIRSCMSG	672	
CIRSDLCT	224	0
CIRSJEXP	678	
CIRSJLSP	670	
CIRSJPTR	674	
CIRSNALC	3DC	0
CIRSPLF	678	
CIRSPLGE	7D9	10
CIRSPLL	67C	
CIRSPT	3F0	0
CIRSTIMC	280	0
CIRSTIMS	268	0
CIRSTMCL	280	10
CIRSTMSL	268	18
CIRSTMTA	670	
CIRSTMTC	21C	0
CIRSTMTL	674	
CIRSTMTT	1F4	
CIRSTMTW	1F0	
CIRSWARN	680	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRSYMBP	1F8	0
CIRS99PT	234	
CIRS99RB	238	
CIRTCPLC	3E0	0
CIRTDCTS	3D4	
CIRTGCT	4E0	
CIRTGPRC	1E8	
CIRTOTA	684	
CIRTRANL	214	0
CIRTRANR	218	0
CIRTSTOR	3D0	
CIRTVECT	688	
CIRUCBL	930	
CIRUCBL_KEYUSED_COMPID	94A	8
CIRUCBL_KEYUSED_DEVN	94A	80
CIRUCBL_KEYUSED_DEVNCHAR	94A	40
CIRUCBL_KEYUSED_HELP	94A	4
CIRUCBL_KEYUSED_LASTING	94A	10
CIRUCBL_KEYUSED_LDEVNCHAR	94B	20
CIRUCBL_KEYUSED_PIN	94A	2
CIRUCBL_KEYUSED_PINPATHS	94A	1
CIRUCBL_KEYUSED_SCHSET	94B	10
CIRUCBL_KEYUSED_UCBCXPTR	94B	80
CIRUCBL_KEYUSED_UCBPXPTR	94B	40
CIRUCBL_KEYUSED_VOLSER	94A	20
CIRUCBL_XCOMPID	944	
CIRUCBL_XDEVCLASS	93E	
CIRUCBL_XDEVCLASS_DASD	93E	2
CIRUCBL_XDEVCLASS_DASDTAPE	93E	0
CIRUCBL_XDEVCLASS_TAPE	93E	1
CIRUCBL_XDEVN	932	
CIRUCBL_XDEVNCHAR	934	
CIRUCBL_XDYNAMIC_NO	949	40
CIRUCBL_XFLAGS	94A	
CIRUCBL_XFLAGS2	94B	
CIRUCBL_XHELP	95C	
CIRUCBL_XIOCTOKEN_ADDR	964	
CIRUCBL_XIOCTOKEN_ALET	968	
CIRUCBL_XLDEVNCHAR	97C	
CIRUCBL_XLOC_ANY	949	10
CIRUCBL_XMASK	949	
CIRUCBL_XNONBASE_YES	949	80
CIRUCBL_XNOTFIND_YES	93F	80
CIRUCBL_XPTOKEN	954	
CIRUCBL_XRANGE_3DIGIT	949	20
CIRUCBL_XRESERVED1	981	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCBL_XRESERVED2	93F	
CIRUCBL_XSCHSET	931	
CIRUCBL_XSPECIAL_YES	949	8
CIRUCBL_XTEXT_ADDR	94C	
CIRUCBL_XTEXT_ALET	950	
CIRUCBL_XUCBCXPTR	974	
CIRUCBL_XUCBPAREA_ADDR	96C	
CIRUCBL_XUCBPAREA_ALET	970	
CIRUCBL_XUCBPTR	940	
CIRUCBL_XUCBPXPTR	978	
CIRUCBL_XUNBOUND_ALIAS_YES	949	1
CIRUCBL_XVERSION	930	
CIRUCBL_XVOLSER	938	
CIRUCBLL	981	54
CIRUCLK	768	
CIRUCLK_KEYUSED_COMPID	782	8
CIRUCLK_KEYUSED_DEVN	782	80
CIRUCLK_KEYUSED_DEVNCHAR	782	40
CIRUCLK_KEYUSED_HELP	782	4
CIRUCLK_KEYUSED_LASTING	782	10
CIRUCLK_KEYUSED_LDEVNCHAR	783	20
CIRUCLK_KEYUSED_PIN	782	2
CIRUCLK_KEYUSED_PINPATHS	782	1
CIRUCLK_KEYUSED_SCHSET	783	10
CIRUCLK_KEYUSED_UCBCXPTR	783	80
CIRUCLK_KEYUSED_UCBPXPTR	783	40
CIRUCLK_KEYUSED_VOLSER	782	20
CIRUCLK_XCOMPID	77C	
CIRUCLK_XDEVCLASS	776	
CIRUCLK_XDEVCLASS_DASD	776	2
CIRUCLK_XDEVCLASS_DASDTAPE	776	0
CIRUCLK_XDEVCLASS_TAPE	776	1
CIRUCLK_XDEVN	76A	
CIRUCLK_XDEVNCHAR	76C	
CIRUCLK_XDYNAMIC_NO	781	40
CIRUCLK_XFLAGS	782	
CIRUCLK_XFLAGS2	783	
CIRUCLK_XHELP	794	
CIRUCLK_XIOCTOKEN_ADDR	79C	
CIRUCLK_XIOCTOKEN_ALET	7A0	
CIRUCLK_XLDEVNCHAR	7B4	
CIRUCLK_XLOC_ANY	781	10
CIRUCLK_XMASK	781	
CIRUCLK_XNONBASE_YES	781	80
CIRUCLK_XNOTFIND_YES	777	80
CIRUCLK_XPTOKEN	78C	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCLK_XRANGE_3DIGIT	781	20
CIRUCLK_XRESERVED1	7B9	
CIRUCLK_XRESERVED2	777	
CIRUCLK_XSCHSET	769	
CIRUCLK_XSPECIAL_YES	781	8
CIRUCLK_XTEXT_ADDR	784	
CIRUCLK_XTEXT_ALET	788	
CIRUCLK_XUCBCXPTR	7AC	
CIRUCLK_XUCBPAREA_ADDR	7A4	
CIRUCLK_XUCBPAREA_ALET	7A8	
CIRUCLK_XUCBPTR	778	
CIRUCLK_XUCBPXPTR	7B0	
CIRUCLK_XUNBOUND_ALIAS_YES	781	1
CIRUCLK_XVERSION	768	
CIRUCLK_XVOLSER	770	
CIRUCLKL	7B9	54
CIRVOLTB	3C8	
CIRVRETC	6CC	
CIRVRL	6B0	
CIRVRLP	6AC	
CIRVRSNC	6D0	
CIRVSERV	6A0	
CIRVSERV_CHANGEACCESS	6A1	3
CIRVSERV_COPYNOW	6A2	2
CIRVSERV_KEYUSED_RANGLIST64	6A3	10
CIRVSERV_PL_END	6A8	6AC
CIRVSERV_RETAIN_YES	6A2	1
CIRVSERV_SHARE	6A1	1
CIRVSERV_SHARESEG	6A1	4
CIRVSERV_SHARE64	6A1	5
CIRVSERV_TARGET_VIEW_LS	6A2	8
CIRVSERV_TARGET_VIEW_NA	6A2	4
CIRVSERV_TARGET_VIEW_RO	6A2	80
CIRVSERV_TARGET_VIEW_SW	6A2	40
CIRVSERV_TARGET_VIEW_TW	6A2	10
CIRVSERV_TARGET_VIEW_UW	6A2	20
CIRVSERV_UNSHARE	6A1	2
CIRVSERV_UNSHARE64	6A1	6
CIRVSERV_XFLAGS1	6A2	
CIRVSERV_XFLAGS2	6A3	
CIRVSERV_XMAKETARGETWRITE_YES	6A3	20
CIRVSERV_XNUMRANGE	6A4	
CIRVSERV_XPARTIALPAGE_YES	6A3	80
CIRVSERV_XRANGLIST	6A8	
CIRVSERV_XRANGLIST64	6A8	
CIRVSERV_XSERVICE	6A1	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRVSERV_XSINGLESPACE_YES	6A3	8
CIRVSERV_XTARGETMAYBEREAD_YES	6A3	40
CIRVSERV_XVERSION	6A0	
CIRVSERVL	6AC	C
CIRWLEN	9F4	8AC
CIRWMER	7D9	80
CIRWXIT0	168	
CIRXAREA	780	
CIRXEMN	360	3C
CIRXEMNM	360	48
CIRX0#RT	22C	
CIRX0PS	470	
CIRX0RNM	6E0	
CIRX0SAV	980	
CIRX0XRT	228	
CIRX19PS	670	
CIRZIP	3E4	
CIRZJCCT	4D8	
CIRZJPRC	1EC	
CIR5BRTE	35A	2
CIR5DMEM	35A	8
CIR5DSEQ	35A	20
CIR5HPDD	35A	80
CIR5HPRM	35A	10
CIR5LPRM	35A	4
CIR5QWIK	35A	40
CIR5RRTE	35A	1
CIR6CLSE	35B	40
CIR6DERR	35B	80
CIR6IRPL	35B	10
CIR6SKZL	35B	20
HLISTDCB	1D6	140
HLISTDCL	140	
HPARMDCB	136	A0
HPARMDCL	A0	
HPARMFLG	138	
IBD	0	
IBDAPAD	1F8	
IBDCL	204	
IBDCLOSE	208	204
IBDCODE	1E4	
IBDCODEL	1F8	18
IBDID	0	C9C2C440
IBDJFCB	20C	
IBDLEN	20C	2BC
IBDOP	1FC	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
IBDOPAD	1EC	
IBDOPEN	200	1FC
IBDPRDCB	9E	8
IBDPRDCL	8	
M00M1170	0	710
M00M1172	0	768
M00M1173	0	6A8
M00M1174	0	710
M00M1175	0	930
M00M1176	0	670
M00M1180	0	6A0
M00M1181	0	678
NGDAS	0	
NGDASLEN	24	4C
NGDDATA	4	
NGDDSN	24	40404040
NGDEDONE	20	0
NGDEYE	0	
NGDFLAG1	3	
NGDFLAG2	A	
NGDHDR	3	4
NGDMAPSZ	18	
NGDMTCSZ	1C	
NGDNORTK	10	
NGDRBLDR	B	
NGDTGSIZ	1E	
NGDTKCYL	C	
NGDTRKRC	14	
NGDVOLID	4	
NGD1RBLD	3	80
NGD2CORR	A	20
NGD2TRKQ	A	80
NGD2WRKQ	A	40
NGRBRTLN	A4	
NGRCJQE	10	
NGRE	0	
NGREDATA	20	24
NGRELMT	C	
NGREMAX	1C	
NGREMIN	20	
NGRENAME	0	
NGREPCT	14	
NGRERTO	18	
NGREUSE	10	
NGRID	0	
NGRJBNLN	38	

Table 66. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
NGRJOBRT	EC	FC
NGRJOELN	5C	
NGRJQBRT	C8	D8
NGRJQELN	14	
NGROBRLN	EC	
NGRQBRLN	C8	
NGRSU	0	
NGRSULEN	EC	110
NGRTBLCT	4	
NGRTBLLN	6	
NGRTBLOF	8	
NGRTCNT	EC	7
NGRTGRLN	80	
NGRTSTRT	14	
NGRWJOE	C	
NPLEXABN	1E0	
NPLEXJFC	1DC	
NPLEXLST	1D8	
NPLEXOPN	1D8	
PCE	0	

$CIWORK information

$CIWORK heading information

Common name: C/I subtask work areas

Macro ID: $CIWORK

DSECT name: CIWORK and CIWORKB

Owning component: JES2 (SC1BH)

Eye-catcher ID: CIWORK CIWORKB
Offset: CIWID-CIWORK CIWBID-CIWORKB
Length: L'CIWID L'CIWBID

Storage attributes: Subpool: 10
Key: 1
Residency: Private storage is in either the JES2 address space or the JES2 CI address space. The CIW is located in 31 bit virtual and 64 bit real storage. The CIWB is located in 24 bit virtual and 64 bit real (due to requirments of DFSMS and the interpreter).

Size: See CIWLEN (31 bit) and CIWBLEN (24 bit)

Created by: HASPCNVS C/I subtask

Pointed to by: DCNVCIW field of the $DTECNV data area
DCNVCIWB field of the $DTECNV data area

Serialization: None required

Function: This part maps two private data areas used by the JES2 converter interpreter subtasks. The CIWB is the 24 bit storage work area that contains paramters to services that must be in 24 bit storage. The CIW contains all the other work areas (in 31 bit storage).

$CIWORK mapping

Table 67. Structure CIWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIWORK	, JES2 C/I 31 bit work area
0	(0)	CHARACTER	8	CIWID	Eyecatcher
8	(8)	ADDRESS	1	CIWVER	CB version
8	(8)	X'1'	0	CIWVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWDTE	Related DTE address
16	(10)	ADDRESS	4	CIWCIWB	Related CIWB address
20	(14)	ADDRESS	4		
MACDATE 12/25/13					
24	(18)	ADDRESS	4	CIWPOSTE	. 1ST WORD - ECB ADDRESS
28	(1C)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
32	(20)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
36	(24)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
36	(24)	X'18'	0	CIWPECB	"CIWPOSTE" Address of ECB
36	(24)	X'1C'	0	CIWPASCB	"CIWPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
36	(24)	X'24'	0	CIWPECBK	"CIWPOSTE+12,1" Storage key of HASP ECB
36	(24)	X'10'	0	CIWPSTLN	"*-CIWPOSTE" Length of POST MF=L
40	(28)	BITSTRING	1	CIWSTAT	Processor status byte
		1...		CIWSJCTV	"B'10000000'" Valid JCT read
		.1..		CIWSDST	"B'01000000'" Data set type - bit on -> SYSIN bit off -> SYSOUT
		..1.		CIWSCAS	"B'00100000'" Alternate system symbols must be captured
		...1		CIWSHOLD	"B'00010000'" Job is/to be held
		.... 1...		CIWSXSCH	"B'00001000'" Exit 6 altered SCHENV
		.... .1..		CIWSPPTH	"B'00000100'" PROCLIB includes a path
		.... ..1.		CIWSINTR	"B'00000010'" call interpreter
41	(29)	BITSTRING	3	CIWFRSN(0)	Fake open failure info
See HASCDSOC for values					
41	(29)	BITSTRING	1	CIWDSKY	Data set failure occured on
42	(2A)	BITSTRING	1	CIWROUT	Routine that found error
43	(2B)	BITSTRING	1	CIWFAIL	Return code from routine
44	(2C)	ADDRESS	4	CIWADDR	Address of JCL converter
48	(30)	ADDRESS	4	CIWINTA	Address of JCL interpreter
52	(34)	ADDRESS	4	CIWSPLR	Address of SWA SPOOOLer
56	(38)	ADDRESS	4	CIWSJBP	Address of conversion task SJB
60	(3C)	ADDRESS	4	CIWACEE	Save area for ACEE pointer
64	(40)	ADDRESS	4	CIWJSCBO	Save area for old JSCB
68	(44)	ADDRESS	4	CIWJSCBN	Save area for new JSCB
72	(48)	ADDRESS	4	CIWCPTR	Pointer to converter's message buffer
76	(4C)	ADDRESS	4	CIWWAVE	Addr of the WAVE control block for $SEAS calls

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	ADDRESS	4	CIWDSRVA	Address of DSERV area
84	(54)	BITSTRING	4		Reserved
88	(58)	DBL WORD	8	CIWSTIME	CALLCI start time
96	(60)	DBL WORD	8	CIWSCPU	CALLCI start CPU
		Work Area for date/time manipulation (see TIME, CONVTOD and STCKCONV macros)			
104	(68)	BITSTRING	16	CIWETOD	TOD value in STCKE format
120	(78)	BITSTRING	16	CIWTDVAL	Decimal time/date
		MACDATE 02/15/04			
136	(88)	SIGNED	4	CIWTML(0)	
136	(88)	BITSTRING	28		
136	(88)	X'88'	0	CIWTIMEL	"CIWTML,*-CIWTML" Equate for list form
		MACDATE 05/30/98			
136	(88)	SIGNED	4	CIWCTL(0)	
136	(88)	BITSTRING	32		
136	(88)	X'88'	0	CIWCONVL	"CIWCTL,*-CIWCTL" Equate for list form
		XPL and parameter list for exits 6, 59, and 60. Field CIWPARM thru CIWCIWA make up the exit 6/60 paramater list for compatibility and should be kept together.			
168	(A8)	SIGNED	4	(0)	Ensure alignment
168	(A8)	BITSTRING	64	CIWXPL	Exit 6/59 work area
184	(B8)	SIGNED	4	CIWPARM(0)	Exit 6 parameter list
184	(B8)	ADDRESS	4	CIWUWAA	Addr of exit 6 user work area
188	(BC)	ADDRESS	4	CIWP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
192	(C0)	ADDRESS	4	CIWDTEA	Address of DTE
196	(C4)	ADDRESS	4	CIWJCTA	Address of JCT buffer
200	(C8)	ADDRESS	4	CIWCNMB	Address of converter message buffer
204	(CC)	ADDRESS	4	CIWCIWA	Address of C/I work area
208	(D0)	CHARACTER	8	CIWJCLS	Job class of job
216	(D8)	CHARACTER	16	CIWSCHE	Scheduling environment
232	(E8)	BITSTRING	20		Reserved
		Start of general work areas, cleared en mass at startup.			
252	(FC)	SIGNED	4	CIWCLR(0)	Start of work area cleared in converter sub-task initialization
252	(FC)	ADDRESS	4	CIWCATA	Address of CAT for job
256	(100)	CHARACTER	8	CIWJCLAS	JOBCLASS of job
264	(108)	CHARACTER	1	CIW1CLAS	1 character JOBCLASS of job
265	(109)	BITSTRING	3		Reserved
268	(10C)	CHARACTER	16	CIWJSCHE	Scheduling environment

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	CHARACTER	16	CIWISCHE	Internal text SCHENV before exit 6/60 called
300	(12C)	CHARACTER	16	CIWISCRT	Work area for SCHENV
316	(13C)	ADDRESS	4	CIWJQAA	Address of JQA for job
320	(140)	BITSTRING	6	CIWJCTRK	MQTR of JCT
326	(146)	SIGNED	1	CIWJPRIO	JOBCLASS of job
327	(147)	ADDRESS	1		Reserved
328	(148)	SIGNED	4	CIWJKEY	Job key save area
332	(14C)	ADDRESS	4	CIWPAD	Addr of current(open) PAD
336	(150)	SIGNED	4	CIWPADL	and PAD data space ALET
340	(154)	BITSTRING	8	CIWPCRT	Open PAD create time
348	(15C)	ADDRESS	4		Reserved
352	(160)	ADDRESS	4	CIWJPAD	Address of PAD for job
356	(164)	CHARACTER	144	CIWCNPR	Converter entry list
500	(1F4)	BITSTRING	32	CIWITSPP	SWA SPOOLer parm list
532	(214)	SIGNED	4	CIWSYMA(0)	System symbolics data area
532	(214)	CHARACTER	7	CIWSYM1	&SYSUID keyword
539	(21B)	CHARACTER	8	CIWSYMU	&SYSUID parameter value
547	(223)	CHARACTER	9	CIWSYM2	&SYSJOBNM keyword
556	(22C)	CHARACTER	8	CIWSYMJN	&SYSJOBNM value
564	(234)	CHARACTER	9	CIWSYM3	&SYSJOBID keyword
573	(23D)	CHARACTER	9	CIWSYMJI	&SYSJOBID value
582	(246)	SIGNED	2	CIWCOM	Console id for conversion
584	(248)	BITSTRING	1	CIWINTF1	Int text processing flag
		1...		CIWI1DSN	"B'10000000'" Valid DSN= on JES DD stmt
585	(249)	BITSTRING	1		Reserved
588	(24C)	ADDRESS	4	CIWIOT	Address of allocation IOT
592	(250)	ADDRESS	4	CIWIOT1	Addr of IOT containing last PDDB before 1st input stream PDDB
596	(254)	SIGNED	4	CIWPDB1	Offset of above CIWIOT1 PDDB
600	(258)	SIGNED	4	CIWLIND	Index value of last input stream data set processed
604	(25C)	SIGNED	4	CIWISNR	Index value of current input stream data set
608	(260)	ADDRESS	4	CIWIOTA	Input IOT for text exit
612	(264)	SIGNED	4	CIWPDBO	Offset of last input PDDB
616	(268)	ADDRESS	1	CIWUIDL	USERID length + value
616	(268)	X'269'	0	CIWUID	"CIWUIDL+1,8,C'C'" USERID for this job
625	(271)	ADDRESS	1	CIWGRPL	GROUP length + value
625	(271)	X'272'	0	CIWGRP	"CIWGRPL+1,8,C'C'" GROUP for this job
634	(27A)	ADDRESS	1	CIWPASL	PASSWORD length + value
634	(27A)	X'27B'	0	CIWPAS	"CIWPASL+1,8,C'C'" PASSWORD for this job
643	(283)	ADDRESS	1	CIWNPASL	New PASSWORD len + value
643	(283)	X'284'	0	CIWNPAS	"CIWNPASL+1,8,C'C'" New PASSWORD for this job

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
652	(28C)	CHARACTER	1	CIWRD	Job card RD= parameter
653	(28D)	BITSTRING	1	CIWFLG1	Serialized flag byte (Update using OIL/NIL only)
		.1..		CIW1CLR	"B'01000000'" CLOSE has been issued once for job in XCNVRTY
654	(28E)	SIGNED	2	CIWITDL	Length of internal text
656	(290)	ADDRESS	4	CIWAR0	XRT @ for trace ID 13
660	(294)	SIGNED	4	CIWERC1	User exit return code 1
664	(298)	SIGNED	4	CIWERC2	User exit return code 2
668	(29C)	SIGNED	4	CIWERC3	User exit return code 3
672	(2A0)	BITSTRING	176	CIWESV1	CNVT exit save area 1
848	(350)	DBL WORD	8	(0)	
848	(350)	CHARACTER	200	CIWWORK	Message work area
848	(350)	X'350'	0	CIWETXT	"CIWWORK" End of text address
848	(350)	X'358'	0	CIWUDSN	"CIWWORK+8" User DSN address
848	(350)	X'35C'	0	CIWITXT	"CIWWORK+12" Internal text address
848	(350)	X'360'	0	CIWIDSN	"CIWWORK+16" Internal text DSN address
848	(350)	X'364'	0	CIWPDDB	"CIWWORK+20" SYSIN PDDB address
1048	(418)	BITSTRING	16	CIWUWA	Exit user work area
1064	(428)	BITSTRING	6	CIWJLOG	JES log control
	CONVERSION EXIT LIST				
1072	(430)	SIGNED	4	CIWXLST(0)	Conversion exit list
1072	(430)	BITSTRING	1	CIWXLHD	Exit list header
	Converter exit entries				
1080	(438)	BITSTRING	8	CIWXLTE	Internal text exit entry
1088	(440)	BITSTRING	8	CIWXOPN	SYSIN open exit
1096	(448)	BITSTRING	8	CIWXPUT	SYSIN put exit
1104	(450)	BITSTRING	1	CIWXCLS	SYSIN close exit.
1104	(450)	X'20'	0	CIWXLEN	"*-CIWXLTE" Len of exit list entries
1112	(458)	DBL WORD	8	(0)	Alighnment
1112	(458)	BITSTRING	1	CIWSAVE2	Save area for SYSIN exits
	Work Area for SYSIN open exit				
1288	(508)	ADDRESS	4	CIWSPDDB	SYSIN PDDB address
1292	(50C)	BITSTRING	1	CIWDEVTP	1st Byte of device type
1293	(50D)	BITSTRING	3		Reserved
1296	(510)	ADDRESS	4	CIWIOTL	Address of last IOT
1300	(514)	SIGNED	2	CIWIOTCT	Instream IOT count
1302	(516)	SIGNED	2	CIWCDLRL	Card lrecl (always 80 for SYSIN exit)
1304	(518)	SIGNED	2	CIWDEFLR	Default LRECL (80)
1306	(51A)	BITSTRING	1	CIWDEFRF	Default record format
1307	(51B)	BITSTRING	1	CIWINFLG	Input flag value
1308	(51C)	SIGNED	4	CIWDSKEY	Dataset key

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1312	(520)	BITSTRING	1	CIWDELRS	Failure reason code
1313	(521)	BITSTRING	1	CIWPRLBE	PROCLIB failure reason
1313	(521)	X'1'	0	CIWEROPN	"1" Open failure
1313	(521)	X'2'	0	CIWERDEF	"2" Not defined
1313	(521)	X'3'	0	CIWERLRL	"3" LRECL not valid
1313	(521)	X'4'	0	CIWERBLK	"4" BLKSIZE not valid
1313	(521)	X'5'	0	CIWERBLC	"5" BLKSIZE/LRECL combo
1314	(522)	BITSTRING	6		Reserved
1320	(528)	CHARACTER	8	CIWPROCL	PROCLIB DD name for message
1328	(530)	DBL WORD	8	(0)	Force Dword alignment
1328	(530)	BITSTRING	48	CIWCRTSY	Parm block for HASPRDDS.
1376	(560)	BITSTRING	32	CIWOPNSP	Open SPOOL parm list
1408	(580)	BITSTRING	128	CIWPUTPL	JRWPUTPL for sysin dataset
1536	(600)	ADDRESS	4	CIWSYTBL	Ptr to symbol table for converter use (see macro IEFSJSYD)
1540	(604)	SIGNED	4	CIWBLDM(0)	Control block ID
1544	(608)	BITSTRING	4		Console ID
1548	(60C)	ADDRESS	4		Address of the CART
1552	(610)	ADDRESS	4		Pointer for JOBID
1556	(614)	ADDRESS	4		Control block address
1560	(618)	ADDRESS	4		Display routine address
1564	(61C)	ADDRESS	4	(6)	6 word work area
1588	(634)	ADDRESS	4		Caller's R11 value
1592	(638)	BITSTRING	2		ROUT code for Message
1594	(63A)	BITSTRING	2		Not used
1596	(63C)	CHARACTER	4		Message ID
1600	(640)	CHARACTER	1		Separator character
1601	(641)	ADDRESS	1		Flag byte 1
1602	(642)	ADDRESS	1		'DISPER'
1603	(643)	ADDRESS	1		Flag byte 2
1604	(644)	ADDRESS	1		Flag byte 3
1605	(645)	ADDRESS	1		Severity of message
1606	(646)	CHARACTER	8		Symbolic name of dest.
1614	(64E)	BITSTRING	14		Not used
1628	(65C)	ADDRESS	4	(0)	Ensure multiple of 4
1628	(65C)	ADDRESS	2	(0)	
	Work Area for Job Group keyword on SCHEDULE stmt				
1628	(65C)	CHARACTER	8	CIWGRPNM	Job group name
1640	(668)	DBL WORD	8	CIWGRNUM	Associated logging job - number
	Work Area for HAMEGET special processing				
1648	(670)	BITSTRING	3		Alignment
1651	(673)	BITSTRING	1	CIWSPEC	Special processing flags

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIWDELAY	"B'10000000'" Delay I/O to JECJCL until next JESJCLIN record seen. Record to write is in CIWSBUFF.
1652	(674)	CHARACTER	96	CIWSBUFF	Record to write to JESJCL
1748	(6D4)	SIGNED	4	CIWJACB(0)	
1748	(6D4)	BITSTRING	1		. ACB IDENTIFICATION
1749	(6D5)	ADDRESS	1		ACB SUBTYPE X04SVHS
1750	(6D6)	ADDRESS	2		. ACB LENGTH X03004HS
1752	(6D8)	ADDRESS	4		. AMB LIST POINTER
1756	(6DC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1760	(6E0)	BITSTRING	1		MACRF(1) X04SVHS
1761	(6E1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1762	(6E2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1763	(6E3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1764	(6E4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1766	(6E6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1768	(6E8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1769	(6E9)	ADDRESS	1		SHARED RESOURCE POOL ID
1770	(6EA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1772	(6EC)	BITSTRING	1		. RECFM=A
1773	(6ED)	BITSTRING	1		READ INTEGRITY OPTIONS
1774	(6EE)	BITSTRING	2		. DSORG=ACB
1776	(6F0)	ADDRESS	4		X04SVHS
1780	(6F4)	ADDRESS	4		. PASSWORD POINTER
1784	(6F8)	ADDRESS	4		. EXIT LIST POINTER
1788	(6FC)	CHARACTER	8		
1796	(704)	BITSTRING	1		OFLAGS
1797	(705)	ADDRESS	1		. ERFLAGS
1798	(706)	BITSTRING	1		INFLGS(1) X04SVHS
1799	(707)	BITSTRING	1		INFLGS(2) X04SVHS
1800	(708)	ADDRESS	4		. OPENJ JFCB POINTER
1804	(70C)	ADDRESS	4		BUFFER SPACE
1808	(710)	ADDRESS	2		. BLOCK SIZE
1810	(712)	ADDRESS	2		. RECORD SIZE
1812	(714)	ADDRESS	4		. USER WORKAREA POINTER
1816	(718)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1820	(71C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1824	(720)	SIGNED	4	CIWJRPL(0)	
1824	(720)	ADDRESS	1		RPL IDENTIFICATION
1825	(721)	ADDRESS	1		RPL SUBTYPE X04SVHS
1826	(722)	ADDRESS	1		RPL REQUEST TYPE

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1827	(723)	ADDRESS	1		RPL LENGTH X03004
1828	(724)	ADDRESS	4		. POINTER TO PLACEHOLDER
1832	(728)	ADDRESS	4		. ECB
1836	(72C)	BITSTRING	1		. STATUS BYTE
1837	(72D)	BITSTRING	3		FEEDBACK CODES
1840	(730)	ADDRESS	2		. KEY LENGTH
1842	(732)	ADDRESS	2		. TRANSID
1844	(734)	ADDRESS	4		POINTER TO CONTROL CHARACTER
1848	(738)	ADDRESS	4		
1852	(73C)	ADDRESS	4		. POINTER TO TCB
1856	(740)	ADDRESS	4		. POINTER TO RECORD AREA
1860	(744)	ADDRESS	4		. POINTER TO ARGUMENT
1864	(748)	BITSTRING	1		. OPTCD BYTE 1
1865	(749)	BITSTRING	1		
1866	(74A)	BITSTRING	1		OPTCD BYTE 3
1867	(74B)	BITSTRING	1		OPTCD BYTE 4
1868	(74C)	ADDRESS	4		. POINTER TO NEXT RPL
1872	(750)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
1876	(754)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
1880	(758)	BITSTRING	1		
1881	(759)	BITSTRING	1		
1882	(75A)	BITSTRING	1		
1883	(75B)	BITSTRING	1		
1884	(75C)	BITSTRING	8		. RBA
1892	(764)	BITSTRING	1		
1893	(765)	ADDRESS	1		ACTIVE INDICATOR
1894	(766)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
1896	(768)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
	Work Area for Job Correlator				
1900	(76C)	CHARACTER	1	CIWJCOR	PCEJQE Job Correlator
	General ENQ work area MACRO-DATE = 03/16/15				
1964	(7AC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1964	(7AC)	X'7AC'	0	CIWENQ	"*" X02113
1964	(7AC)	ADDRESS	1		PELLAST flag byte. X02113
1965	(7AD)	ADDRESS	1		PELMILEN - RNAME length.
1966	(7AE)	BITSTRING	1		
	PELFLAG - flag byte 2.				
1967	(7AF)	ADDRESS	1		PELRET - return code byte.
1968	(7B0)	ADDRESS	4		QNAME ADDRESS
1972	(7B4)	ADDRESS	4		RNAME ADDRESS

Table 67. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1972	(7B4)	X'7AC'	0	CIWENQLS	"CIWENQ,*-CIWENQ" Symbol for ENQ list form
1976	(7B8)	CHARACTER	44	CIWENQMN	ENQ minor name work area
	Work Area for BPX calls				
2020	(7E4)	SIGNED	4	CIWBPXRV	BPX return value
2024	(7E8)	SIGNED	4	CIWBPXRC	BPX return code
2028	(7EC)	SIGNED	4	CIWBPXRS	BPX reason code
2032	(7F0)	ADDRESS	4	CIWBPXPL(12)	BPX Parameter list
2032	(7F0)	X'724'	0	CIWCLRL	"*-CIWCLR" END OF WORK AREA CLEARED IN CONVERTER SUBTASK INITIALIZATION
2032	(7F0)	X'820'	0	CIWLEN	"*-CIWORK" Length of work area

Table 68. Structure CIWORKB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIWORKB	, JES2 C/I 24 bit work area
0	(0)	CHARACTER	8	CIWBID	Eyecatcher
8	(8)	ADDRESS	1	CIWBVER	CB version
8	(8)	X'1'	0	CIWBVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWBDTE	Related DTE address
	Interpreter processing work areas				
16	(10)	BITSTRING	96	CIWBNEL	Interpreter parm list
112	(70)	BITSTRING	256	CIWBJICA	JES/Interpreter comm area
368	(170)	BITSTRING	176	CIWBSAV	24 bit save area
544	(220)	BITSTRING	36	CIWBQMPA	Queue mngr parm area
580	(244)	BITSTRING	8	CIWBJDVT	JDVT name
588	(24C)	SIGNED	4	CIWBDEBS(0)	Address of DEB's for ACB's
588	(24C)	BITSTRING	32	CIWBDEBJ	DEB for JCL data set
620	(26C)	BITSTRING	32	CIWBDEBI	DEB for JCL image data set
652	(28C)	BITSTRING	32	CIWBDEBM	DEB for system msg data set
684	(2AC)	BITSTRING	32	CIWBDEBT	DEB for internal text data set
716	(2CC)	BITSTRING	32	CIWBDEBA	DEB for SWA blocks DS
748	(2EC)	BITSTRING	32	CIWBDEBE	DEB for EVENTLOG DS
780	(30C)	BITSTRING	148	CIWBJMR	JMR work area
928	(3A0)	SIGNED	4	CIWBCL(0)	ALIGN LIST TO FULLWORD
928	(3A0)	ADDRESS	1		OPTION BYTE
929	(3A1)	ADDRESS	3		DCB OR ACB ADDRESS
929	(3A1)	X'3A0'	0	CIWBCLOS	"CIWBCL,*-CIWBCL"
932	(3A4)	SIGNED	4	CIWBOP(0)	ALIGN LIST TO WORD
932	(3A4)	ADDRESS	1		Option byte
933	(3A5)	ADDRESS	3		DCB or ACB address
933	(3A5)	X'3A4'	0	CIWBOPEN	"CIWBOP,*-CIWBOP"

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		DCB for PROCLIB, and ACBs for the JES datasets. CIWBPROC DCB for PROCLIB data set IWBPROC DCB DSORG=PO,MACRF=R,RECFM=FB,LRECL=80, DDNAME= ,EXLST= -			
936	(3A8)	SIGNED	4	(0)	CIWBPROC Origin DATA CONTROL BLOCK
936	(3A8)	SIGNED	4	CIWBPROC(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
936	(3A8)	BITSTRING	16		FDAD, DVTBL
952	(3B8)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
956	(3BC)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
957	(3BD)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
960	(3C0)	ADDRESS	2		BUFL, BUFFER LENGTH
962	(3C2)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
964	(3C4)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
968	(3C8)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
969	(3C9)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
972	(3CC)	BITSTRING	1		RECFM (RECORD FORMAT)
973	(3CD)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
976	(3D0)	CHARACTER	8		DDNAME
984	(3D8)	BITSTRING	1		OFLGS (OPEN FLAGS)
985	(3D9)	BITSTRING	1		IFLGS (IOS FLAGS)
986	(3DA)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
988	(3DC)	BITSTRING	1		OPTCD, OPTION CODES
989	(3DD)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
992	(3E0)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
996	(3E4)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
998	(3E6)	ADDRESS	2		BLKSIZE, BLOCK SIZE
1000	(3E8)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1004	(3EC)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1008	(3F0)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1009	(3F1)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1012	(3F4)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1016	(3F8)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1018	(3FA)	ADDRESS	2		LRECL
1020	(3FC)	ADDRESS	4		CNTRL, NOTE, POINT
		CIWBJCL ACB for JCL data set			
1024	(400)	SIGNED	4	(0)	CIWBJCL Origin
1024	(400)	SIGNED	4	CIWBJCL(0)	
1024	(400)	BITSTRING	1		. ACB IDENTIFICATION
1025	(401)	ADDRESS	1		ACB SUBTYPE X04SVHS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1026	(402)	ADDRESS	2		. ACB LENGTH X03004HS
1028	(404)	ADDRESS	4		. AMB LIST POINTER
1032	(408)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1036	(40C)	BITSTRING	1		MACRF(1) X04SVHS
1037	(40D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1038	(40E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1039	(40F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1040	(410)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1042	(412)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1044	(414)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1045	(415)	ADDRESS	1		SHARED RESOURCE POOL ID
1046	(416)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1048	(418)	BITSTRING	1		. RECFM=A
1049	(419)	BITSTRING	1		READ INTEGRITY OPTIONS
1050	(41A)	BITSTRING	2		. DSORG=ACB
1052	(41C)	ADDRESS	4		X04SVHS
1056	(420)	ADDRESS	4		. PASSWORD POINTER
1060	(424)	ADDRESS	4		. EXIT LIST POINTER
1064	(428)	CHARACTER	8		
1072	(430)	BITSTRING	1		OFLAGS
1073	(431)	ADDRESS	1		. ERFLAGS
1074	(432)	BITSTRING	1		INFLGS(1) X04SVHS
1075	(433)	BITSTRING	1		INFLGS(2) X04SVHS
1076	(434)	ADDRESS	4		. OPENJ JFCB POINTER
1080	(438)	ADDRESS	4		BUFFER SPACE
1084	(43C)	ADDRESS	2		. BLOCK SIZE
1086	(43E)	ADDRESS	2		. RECORD SIZE
1088	(440)	ADDRESS	4		. USER WORKAREA POINTER
1092	(444)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1096	(448)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
	CIWBJCLI ACB for JCL images data set				
1100	(44C)	SIGNED	4	(0)	CIWBJCLI origin
1100	(44C)	SIGNED	4	CIWBJCLI(0)	
1100	(44C)	BITSTRING	1		. ACB IDENTIFICATION
1101	(44D)	ADDRESS	1		ACB SUBTYPE X04SVHS
1102	(44E)	ADDRESS	2		. ACB LENGTH X03004HS
1104	(450)	ADDRESS	4		. AMB LIST POINTER
1108	(454)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1112	(458)	BITSTRING	1		MACRF(1) X04SVHS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1113	(459)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1114	(45A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1115	(45B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1116	(45C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1118	(45E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1120	(460)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1121	(461)	ADDRESS	1		SHARED RESOURCE POOL ID
1122	(462)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1124	(464)	BITSTRING	1		. RECFM=A
1125	(465)	BITSTRING	1		READ INTEGRITY OPTIONS
1126	(466)	BITSTRING	2		. DSORG=ACB
1128	(468)	ADDRESS	4		X04SVHS
1132	(46C)	ADDRESS	4		. PASSWORD POINTER
1136	(470)	ADDRESS	4		. EXIT LIST POINTER
1140	(474)	CHARACTER	8		
1148	(47C)	BITSTRING	1		OFLAGS
1149	(47D)	ADDRESS	1		. ERFLAGS
1150	(47E)	BITSTRING	1		INFLGS(1) X04SVHS
1151	(47F)	BITSTRING	1		INFLGS(2) X04SVHS
1152	(480)	ADDRESS	4		. OPENJ JFCB POINTER
1156	(484)	ADDRESS	4		BUFFER SPACE
1160	(488)	ADDRESS	2		. BLOCK SIZE
1162	(48A)	ADDRESS	2		. RECORD SIZE
1164	(48C)	ADDRESS	4		. USER WORKAREA POINTER
1168	(490)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1172	(494)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBMSG ACB for system msgs data set					
1176	(498)	SIGNED	4	(0)	CIWBMSG Origin
1176	(498)	SIGNED	4	CIWBMSG(0)	
1176	(498)	BITSTRING	1		. ACB IDENTIFICATION
1177	(499)	ADDRESS	1		ACB SUBTYPE X04SVHS
1178	(49A)	ADDRESS	2		. ACB LENGTH X03004HS
1180	(49C)	ADDRESS	4		. AMB LIST POINTER
1184	(4A0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1188	(4A4)	BITSTRING	1		MACRF(1) X04SVHS
1189	(4A5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1190	(4A6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1191	(4A7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1192	(4A8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1194	(4AA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1196	(4AC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1197	(4AD)	ADDRESS	1		SHARED RESOURCE POOL ID
1198	(4AE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1200	(4B0)	BITSTRING	1		. RECFM=A
1201	(4B1)	BITSTRING	1		READ INTEGRITY OPTIONS
1202	(4B2)	BITSTRING	2		. DSORG=ACB
1204	(4B4)	ADDRESS	4		X04SVHS
1208	(4B8)	ADDRESS	4		. PASSWORD POINTER
1212	(4BC)	ADDRESS	4		. EXIT LIST POINTER
1216	(4C0)	CHARACTER	8		
1224	(4C8)	BITSTRING	1		OFLAGS
1225	(4C9)	ADDRESS	1		. ERFLAGS
1226	(4CA)	BITSTRING	1		INFLGS(1) X04SVHS
1227	(4CB)	BITSTRING	1		INFLGS(2) X04SVHS
1228	(4CC)	ADDRESS	4		. OPENJ JFCB POINTER
1232	(4D0)	ADDRESS	4		BUFFER SPACE
1236	(4D4)	ADDRESS	2		. BLOCK SIZE
1238	(4D6)	ADDRESS	2		. RECORD SIZE
1240	(4D8)	ADDRESS	4		. USER WORKAREA POINTER
1244	(4DC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1248	(4E0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
	CIWBTXT ACB for internal text data set				
1252	(4E4)	SIGNED	4	(0)	CIWBTXT Origin
1252	(4E4)	SIGNED	4	CIWBTXT(0)	
1252	(4E4)	BITSTRING	1		. ACB IDENTIFICATION
1253	(4E5)	ADDRESS	1		ACB SUBTYPE X04SVHS
1254	(4E6)	ADDRESS	2		. ACB LENGTH X03004HS
1256	(4E8)	ADDRESS	4		. AMB LIST POINTER
1260	(4EC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1264	(4F0)	BITSTRING	1		MACRF(1) X04SVHS
1265	(4F1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1266	(4F2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1267	(4F3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1268	(4F4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1270	(4F6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1272	(4F8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1273	(4F9)	ADDRESS	1		SHARED RESOURCE POOL ID
1274	(4FA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1276	(4FC)	BITSTRING	1		. RECFM=A
1277	(4FD)	BITSTRING	1		READ INTEGRITY OPTIONS
1278	(4FE)	BITSTRING	2		. DSORG=ACB
1280	(500)	ADDRESS	4		X04SVHS
1284	(504)	ADDRESS	4		. PASSWORD POINTER
1288	(508)	ADDRESS	4		. EXIT LIST POINTER
1292	(50C)	CHARACTER	8		
1300	(514)	BITSTRING	1		OFLAGS
1301	(515)	ADDRESS	1		. ERFLAGS
1302	(516)	BITSTRING	1		INFLGS(1) X04SVHS
1303	(517)	BITSTRING	1		INFLGS(2) X04SVHS
1304	(518)	ADDRESS	4		. OPENJ JFCB POINTER
1308	(51C)	ADDRESS	4		BUFFER SPACE
1312	(520)	ADDRESS	2		. BLOCK SIZE
1314	(522)	ADDRESS	2		. RECORD SIZE
1316	(524)	ADDRESS	4		. USER WORKAREA POINTER
1320	(528)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1324	(52C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBSWA ACB for SWA blocks data set					
1328	(530)	SIGNED	4	(0)	CIWBSWA origin
1328	(530)	SIGNED	4	CIWBSWA(0)	
1328	(530)	BITSTRING	1		. ACB IDENTIFICATION
1329	(531)	ADDRESS	1		ACB SUBTYPE X04SVHS
1330	(532)	ADDRESS	2		. ACB LENGTH X03004HS
1332	(534)	ADDRESS	4		. AMB LIST POINTER
1336	(538)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1340	(53C)	BITSTRING	1		MACRF(1) X04SVHS
1341	(53D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1342	(53E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1343	(53F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1344	(540)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1346	(542)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1348	(544)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1349	(545)	ADDRESS	1		SHARED RESOURCE POOL ID
1350	(546)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1352	(548)	BITSTRING	1		. RECFM=A
1353	(549)	BITSTRING	1		READ INTEGRITY OPTIONS
1354	(54A)	BITSTRING	2		. DSORG=ACB
1356	(54C)	ADDRESS	4		X04SVHS
1360	(550)	ADDRESS	4		. PASSWORD POINTER
1364	(554)	ADDRESS	4		. EXIT LIST POINTER
1368	(558)	CHARACTER	8		
1376	(560)	BITSTRING	1		OFLAGS
1377	(561)	ADDRESS	1		. ERFLAGS
1378	(562)	BITSTRING	1		INFLGS(1) X04SVHS
1379	(563)	BITSTRING	1		INFLGS(2) X04SVHS
1380	(564)	ADDRESS	4		. OPENJ JFCB POINTER
1384	(568)	ADDRESS	4		BUFFER SPACE
1388	(56C)	ADDRESS	2		. BLOCK SIZE
1390	(56E)	ADDRESS	2		. RECORD SIZE
1392	(570)	ADDRESS	4		. USER WORKAREA POINTER
1396	(574)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1400	(578)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBEVT ACB for EVENTLOG data set					
1404	(57C)	SIGNED	4	(0)	CIWBEVT origin
1404	(57C)	SIGNED	4	CIWBEVT(0)	
1404	(57C)	BITSTRING	1		. ACB IDENTIFICATION
1405	(57D)	ADDRESS	1		ACB SUBTYPE X04SVHS
1406	(57E)	ADDRESS	2		. ACB LENGTH X03004HS
1408	(580)	ADDRESS	4		. AMB LIST POINTER
1412	(584)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1416	(588)	BITSTRING	1		MACRF(1) X04SVHS
1417	(589)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1418	(58A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1419	(58B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1420	(58C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1422	(58E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1424	(590)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1425	(591)	ADDRESS	1		SHARED RESOURCE POOL ID
1426	(592)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1428	(594)	BITSTRING	1		. RECFM=A
1429	(595)	BITSTRING	1		READ INTEGRITY OPTIONS
1430	(596)	BITSTRING	2		. DSORG=ACB
1432	(598)	ADDRESS	4		X04SVHS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1436	(59C)	ADDRESS	4		. PASSWORD POINTER
1440	(5A0)	ADDRESS	4		. EXIT LIST POINTER
1444	(5A4)	CHARACTER	8		
1452	(5AC)	BITSTRING	1		OFLAGS
1453	(5AD)	ADDRESS	1		. ERFLAGS
1454	(5AE)	BITSTRING	1		INFLGS(1) X04SVHS
1455	(5AF)	BITSTRING	1		INFLGS(2) X04SVHS
1456	(5B0)	ADDRESS	4		. OPENJ JFCB POINTER
1460	(5B4)	ADDRESS	4		BUFFER SPACE
1464	(5B8)	ADDRESS	2		. BLOCK SIZE
1466	(5BA)	ADDRESS	2		. RECORD SIZE
1468	(5BC)	ADDRESS	4		. USER WORKAREA POINTER
1472	(5C0)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1476	(5C4)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1480	(5C8)	SIGNED	4	(0)	
1480	(5C8)	SIGNED	4	CSOLACBS(0)	
1480	(5C8)	BITSTRING	1		. ACB IDENTIFICATION
1481	(5C9)	ADDRESS	1		ACB SUBTYPE X04SVHS
1482	(5CA)	ADDRESS	2		. ACB LENGTH X03004HS
1484	(5CC)	ADDRESS	4		. AMB LIST POINTER
1488	(5D0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1492	(5D4)	BITSTRING	1		MACRF(1) X04SVHS
1493	(5D5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1494	(5D6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1495	(5D7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1496	(5D8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1498	(5DA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1500	(5DC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1501	(5DD)	ADDRESS	1		SHARED RESOURCE POOL ID
1502	(5DE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1504	(5E0)	BITSTRING	1		. RECFM=A
1505	(5E1)	BITSTRING	1		READ INTEGRITY OPTIONS
1506	(5E2)	BITSTRING	2		. DSORG=ACB
1508	(5E4)	ADDRESS	4		X04SVHS
1512	(5E8)	ADDRESS	4		. PASSWORD POINTER
1516	(5EC)	ADDRESS	4		. EXIT LIST POINTER
1520	(5F0)	CHARACTER	8		
1528	(5F8)	BITSTRING	1		OFLAGS
1529	(5F9)	ADDRESS	1		. ERFLAGS
1530	(5FA)	BITSTRING	1		INFLGS(1) X04SVHS

Table 68. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1531	(5FB)	BITSTRING	1		INFLGS(2) X04SVHS
1532	(5FC)	ADDRESS	4		. OPENJ JFCB POINTER
1536	(600)	ADDRESS	4		BUFFER SPACE
1540	(604)	ADDRESS	2		. BLOCK SIZE
1542	(606)	ADDRESS	2		. RECORD SIZE
1544	(608)	ADDRESS	4		. USER WORKAREA POINTER
1548	(60C)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1552	(610)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1552	(610)	X'5C8'	0	CSOLACB	"CSOLACBS,*-CSOLACBS" ACB prototype equate
1552	(610)	X'614'	0	CIWBLEN	"*-CIWORKB" Length of work area

Table 69. Cross Reference for $CIWORK

Name	Offset	Hex Tag
CIWACEE	3C	
CIWADDR	2C	
CIWAR0	290	
CIWBCL	3A0	
CIWBCLOS	3A1	3A0
CIWBDEBA	2CC	
CIWBDEBE	2EC	
CIWBDEBI	26C	
CIWBDEBJ	24C	
CIWBDEBM	28C	
CIWBDEBS	24C	
CIWBDEBT	2AC	
CIWBDTE	C	
CIWBEVT	57C	
CIWBID	0	C3C9E6D6
CIWBJCL	400	
CIWBJCLI	44C	
CIWBJDVT	244	
CIWBJICA	70	
CIWBJMR	30C	
CIWBLDM	604	C2D3C440
CIWBLEN	610	614
CIWBMSG	498	
CIWBNEL	10	
CIWBOP	3A4	
CIWBOPEN	3A5	3A4
CIWBPROC	3A8	
CIWBPXPL	7F0	
CIWBPXRC	7E8	
CIWBPXRS	7EC	
CIWBPXRV	7E4	

Table 69. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWBQMPA	220	
CIWBSAV	170	
CIWBSWA	530	
CIWBTXT	4E4	
CIWBVER	8	
CIWBVERN	8	1
CIWCATA	FC	
CIWCDLRL	516	
CIWCIWA	CC	
CIWCIWB	10	
CIWCLR	FC	
CIWCLRL	7F0	724
CIWCNMB	C8	
CIWCNPR	164	
CIWCOM	246	0
CIWCONVL	88	88
CIWCPTR	48	
CIWCRTSY	530	0
CIWCTL	88	
CIWDEFLR	518	
CIWDEFRF	51A	
CIWDELAY	673	80
CIWDELRS	520	
CIWDEVTP	50C	
CIWDSKEY	51C	
CIWDSKY	29	
CIWDSRVA	50	
CIWDTE	C	
CIWDTEA	C0	
CIWENQ	7AC	7AC
CIWENQLS	7B4	7AC
CIWENQMN	7B8	
CIWERBLC	521	5
CIWERBLK	521	4
CIWERC1	294	
CIWERC2	298	
CIWERC3	29C	
CIWERDEF	521	2
CIWERLRL	521	3
CIWEROPN	521	1
CIWESV1	2A0	
CIWETOD	68	
CIWETXT	350	350
CIWFAIL	2B	
CIWFLG1	28D	
CIWFRSN	29	

Table 69. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWGRNUM	668	
CIWGRP	271	272
CIWGRPL	271	
CIWGRPNM	65C	
CIWID	0	C3C9E6D6
CIWIDSN	350	360
CIWINFLG	51B	
CIWINTA	30	
CIWINTF1	248	
CIWIOT	24C	
CIWIOTA	260	
CIWIOTCT	514	
CIWIOTL	510	
CIWIOT1	250	
CIWISCHE	11C	
CIWISCRT	12C	
CIWISNR	25C	
CIWITDL	28E	
CIWITSPP	1F4	
CIWITXT	350	35C
CIWI1DSN	248	80
CIWJACB	6D4	
CIWJCLAS	100	
CIWJCLS	D0	
CIWJCOR	76C	
CIWJCTA	C4	
CIWJCTRK	140	
CIWJKEY	148	
CIWJLOG	428	
CIWJPAD	160	
CIWJPRIO	146	
CIWJQAA	13C	
CIWJRPL	720	
CIWJSCBN	44	
CIWJSCBO	40	
CIWJSCHE	10C	
CIWLEN	7F0	820
CIWLIND	258	
CIWNPAS	283	284
CIWNPASL	283	
CIWOPNSP	560	
CIWORK	0	
CIWORKB	0	
CIWPAD	14C	
CIWPADL	150	
CIWPARM	B8	

Table 69. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWPAS	27A	27B
CIWPASCB	24	1C
CIWPASL	27A	
CIWPCRT	154	
CIWPDBO	264	
CIWPDB1	254	
CIWPDDB	350	364
CIWPECB	24	18
CIWPECBK	24	24
CIWPOSTE	18	
CIWPRLBE	521	
CIWPROCL	528	
CIWPSTLN	24	10
CIWPUTPL	580	
CIWP2A	BC	
CIWRD	28C	
CIWROUT	2A	
CIWSAVE2	458	
CIWSBUFF	674	
CIWSCAS	28	20
CIWSCHE	D8	
CIWSCPU	60	
CIWSDST	28	40
CIWSHOLD	28	10
CIWSINTR	28	2
CIWSJBP	38	
CIWSJCTV	28	80
CIWSPDDB	508	
CIWSPEC	673	
CIWSPLR	34	
CIWSPPTH	28	4
CIWSTAT	28	
CIWSTIME	58	
CIWSXSCH	28	8
CIWSYMA	214	
CIWSYMJI	23D	
CIWSYMJN	22C	
CIWSYMU	21B	
CIWSYM1	214	
CIWSYM2	223	
CIWSYM3	234	
CIWSYTBL	600	
CIWTDVAL	78	
CIWTIMEL	88	88
CIWTML	88	
CIWUDSN	350	358

Table 69. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWUID	268	269
CIWUIDL	268	
CIWUWA	418	
CIWUWAA	B8	
CIWVER	8	
CIWVERN	8	1
CIWWAVE	4C	
CIWWORK	350	
CIWXCLS	450	
CIWXLEN	450	20
CIWXLHD	430	
CIWXLST	430	
CIWXLTE	438	
CIWXOPN	440	
CIWXPL	A8	
CIWXPUT	448	
CIW1CLAS	108	
CIW1CLR	28D	40
CSOLACB	610	5C8
CSOLACBS	5C8	

$CK information

$CK programming interface information

$CK is a programming interface.

$CK heading information

Common name: HASP Checkpoint block and CCW DSECTS

Macro ID: $CK

DSECT name: CKA CKAE CKB CKDDSECT

Owning component: JES2 (SC1BH)

Eye-catcher ID: CKB
Offset: CKBID-CKB
Length: L'CKBID

Storage attributes: Subpool: CKBPOOL (See $HASPEQU)
Key: 1
Residency: For CKBs that represent checkpoint data sets on DASD:
Virtual storage of the CKB, CKA, and CKAE is 31 bit private storage of the JES2 address space. The CKB is page fixed for the life of JES2 and must lie on a 2K boundary to ensure that the check and lock buffers do not cross a 2K boundary. The data areas can be backed with 64 bit real storage.
The CKI contains the data areas (DCB, IOB, etc) used for checkpoint I/O that must be located in 24 bit virtual storage. The CKI can be backed with 64 bit real storage.
For CKBs that represent checkpoint data sets on a coupling facility:
Virtual storage of the CKB is 31 bit private storage of the JES2 address space. The CKB can be backed with 64 bit real storage.

Size:
CKB for data set on DASD
CKBDASZE
CKB for data set on Coupling Facility
CKBCFSZE
CKA+CKAE for data set on DASD only
CKAPLEN + number_of_4K_records in CKPT data set
* CKAELEN
CKBSIZE in the CK contains the total length.

Created by:
CKPTALOC called during initialization or from the checkpoint dialog.

Pointed to by:
CKB
- The $CKBCRNT field in the $HCT data area
- The CKGCKB field in the $CKGPAR data area
CKA
- The CKBCKA field in the CKB data area

Serialization:
These control blocks are used to direct I/O to the checkpoint data set. Checkpoint I/O should only be issued by the initialization and checkpoint PCEs. They are not used by other subtasks or PCEs.

Function:
Control block for I/O operations directed to a checkpoint data set.
A CKB exists for each checkpoint data set allocated.
The CKB contains:
:xmp.
- Checkpoint IOB
- Checkpoint status and flags
- CCW packets for track 1 data
- Data packets for track 1 data
- IDAWS for master record
:exmp.

$CK mapping

Table 70. Structure CKB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKB	
0	(0)	CHARACTER	4	CKBID	CKB eyecatcher
4	(4)	BITSTRING	1	CKBFLAG1	CKB I/O Flags
		.1..		CKB1SHFL	"B'01000000'" CCW PACKETS SHUFFLED
		..1.		CKB1SPCI	"B'00100000'" PCI flag to be turned on
5	(5)	BITSTRING	1	CKBFLAG2	CKB Processing flags
		CKBFLAG2 DEFINITIONS ARE PASSED AS INPUT TO KTRK1IO ROUTINE. THEY INDICATE THE OPERATIONS TO BE PERFORMED BY KTRK1IO. CKB2TLCK IMPLIES READ OF LOCK RECORD IF TEST-LOCK FAILS.			
		1...		CKB2RCHK	"B'10000000'" READ OF CHECK RECD REQ'D
		.1..		CKB2WCHK	"B'01000000'" WRITE OF CHECK RECD REQ'D
		..1.		CKB2TLCK	"B'00100000'" TEST OF LOCK RECD REQ'D
		...1		CKB2RLCK	"B'00010000'" READ OF LOCK RECD REQ'D
		.... 1...		CKB2RMST	"B'00001000'" READ OF MASTER RECD REQ'D
		.... .1..		CKB2RLOG	"B'00000100'" READ OF CHANGE LOG REQ'D
		.... ..1.		CKB2WLCK	"B'00000010'" WRITE OF LOCK RECD REQ'D
		1		CKB2MSLI	"B'00000001'" SUPPRESS LENGTH ERROR ON MASTER RECORD READ
6	(6)	BITSTRING	1	CKBFLAG3	Reserved for future IBM Use
7	(7)	BITSTRING	1	CKBNREC	RECORD COUNT FROM CKDNREC

Table 70. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	CKBSIZE(0)	SIZE OF ENTIRE CKB
8	(8)	SIGNED	1	CKBSUBP	Subpool CKB is in
9	(9)	SIGNED	3	CKBSIZEL	Length of CKB
12	(C)	ADDRESS	4	CKBTRK1T	ADDR OF TRACK ONE TABLE
	Key data area used in the search key operations				
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	8	CKBKEY	SEARCH KEY CCW ARGUMENT
	Lock record read buffer				
24	(18)	DBL WORD	8	(0)	
24	(18)	BITSTRING	8	CKBLRKEY	Key portion of lock record
32	(20)	BITSTRING	372	CKBLRDAT	LOCK DATA INPUT AREA
32	(20)	SIGNED	4	CKBLRSYS	Member ID ($SIDBUSY) Fld
36	(24)	SIGNED	4	CKBLRLVI	Level indicator field
40	(28)	CHARACTER	4	CKBLRSID	$SID field
44	(2C)	CHARACTER	360	CKBLROTH(0)	Area to copy to check record if CKPT on CF
	Any changes to the equates CKBLRPLN to CKBLRMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCF module. The data is required to be mapped together.				
44	(2C)	CHARACTER	8	CKBLRPLN	MVS sysplex name
52	(34)	BITSTRING	4	CKBLRSYT	MVS system id/token
56	(38)	BITSTRING	8	CKBLRPLI	MVS sysplex id
64	(40)	BITSTRING	8	CKBLRMTK	XCF member token
72	(48)	CHARACTER	8	CKBLRMVS	MVS System Name
	End of data to be mapped together for XCFQSTAT.				
404	(194)	X'168'	0	CKBLROTL	"*-CKBLROTH" Size of lock data to be moved to "check record" when CKPT is on CF
404	(194)	ADDRESS	2	(0)	Ensure hard coded
404	(194)	ADDRESS	2	(0)	length is correct
404	(194)	X'174'	0	CKBLKRLN	"*-CKBLRDAT" SIZE OF DATA AREA OF LOCK
	Lock record write buffer				
408	(198)	DBL WORD	8	CKBLWKEY	STORAGE AREA FOR WRITING
408	(198)	X'198'	0	CKBLWKYP	"CKBLWKEY,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
416	(1A0)	BITSTRING	372	CKBLWDAT	LOCK RECORD KEY AND DATA
416	(1A0)	SIGNED	4	CKBLWSYS	Member ID ($SIDBUSY) Fld
420	(1A4)	SIGNED	4	CKBLWLVI	Level indicator field
424	(1A8)	CHARACTER	4	CKBLWSID	$SID field
428	(1AC)	CHARACTER	360	CKBLWOTH(0)	Area to copy to check record if CKPT on CF

Table 70. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Any changes to the equates CKBLWPLN to CKBLWMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCF module. The data is required to be mapped together.			
428	(1AC)	CHARACTER	8	CKBLWPLN	MVS sysplex name
436	(1B4)	BITSTRING	4	CKBLWSYT	MVS system id/token
440	(1B8)	BITSTRING	8	CKBLWPLI	MVS sysplex id
448	(1C0)	BITSTRING	8	CKBLWMTK	XCF member token
456	(1C8)	CHARACTER	8	CKBLWMVS	MVS System Name
		End of data to be mapped together for XCFQSTAT.			
788	(314)	X'168'	0	CKBLWOTL	"*-CKBLWOTH" Size of lock data to be moved to "check record" when CKPT is on CF
788	(314)	ADDRESS	2	(0)	Ensure hard coded
788	(314)	ADDRESS	2	(0)	length is correct
		Check record buffer			
792	(318)	DBL WORD	8	CKBCKDAT(0)	START OF CHECK RECORD DATA
792	(318)	CHARACTER	372	CKBCKREC(0)	Size of Check record (Offset table needs hard coded values)
792	(318)	BITSTRING	1	CKBCKHFM	CKPT DS FILE NAMES, FLAGS
792	(318)	X'318'	0	CKBCKHFP	"CKBCKHFM,308,C'C'" Get character version for offset table
1100	(44C)	ADDRESS	2	(0)	Ensure lengths are
1100	(44C)	ADDRESS	2	(0)	correct
1100	(44C)	SIGNED	1	CKBFORWD	Dataset forwarded indicator
1101	(44D)	BITSTRING	1	CKBCKFLG	Flag byte
		1...		CKBCKGMT	"B'10000000'" CKBWRTIM is in GMT
		.1..		CKBCKCKM	"B'01000000'" GMT offsets on all members are not within 1 minute (skip checks in HASPIRDA)
1102	(44E)	BITSTRING	6	CKBLVOTH	Level of other checkpoint (CKBCKLEV of other CKB)
1108	(454)	BITSTRING	32	CKBSVDEF	WLM Service Definition ID
1140	(474)	SIGNED	4	CKBWRTIM	Time data set last written
1144	(478)	DBL WORD	8	(0)	
1144	(478)	DBL WORD	8	CKBCKLEV	Level of all data in ckpt
1144	(478)	X'478'	0	CKBCKLVP	"CKBCKLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1144	(478)	X'47C'	0	CKBCKLVH	"CKBCKLEV+4,4,C'F'" Full word version of level number of 4K pages
1152	(480)	DBL WORD	8	CKB4KLEV	Level of 4K pages in ckpt
1152	(480)	X'480'	0	CKB4KLVP	"CKB4KLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1152	(480)	X'484'	0	CKB4KLVH	"CKB4KLEV+4,4,C'F'" Full word version of level number of 4K pages
1160	(488)	SIGNED	1	CKBCKVAL(0)	CHECK VALUE

Table 70. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1160	(488)	X'174'	0	CKBCKRLN	"*-CKBCKDAT" LENGTH OF CHECK RECORD
1164	(48C)	ADDRESS	2	(0)	Make sure hardcoded
1164	(48C)	ADDRESS	2	(0)	length is accurate
	Other data buffers				
1164	(48C)	BITSTRING	8		Reserved for future IBM use
1176	(498)	DBL WORD	8	CKBDCONT(0)	Resume point for DASD CKB
1216	(4C0)	SIGNED	4	CKBCFSZE(0)	Size of CKB when CKPT is on a CF
	Work areas used by PGSER BRANCH=SPECIAL requests				
1176	(498)	DBL WORD	8	(0)	Align save area
1176	(498)	BITSTRING	72	CKBPGSAV	Page fixed save area
1248	(4E0)	DBL WORD	8	CKBPGSSL(16)	16 entry SSL
	31 bit I/O packets. There is one packet for every IOB defined in the CKI. The packets include IOB extensions, IOS diagnostic areas, and pointers to areas such as the IOB, CCW areas, etc. The packets are mapped by the CKP data area.				
1376	(560)	DBL WORD	8	(0)	Align data areas
1376	(560)	BITSTRING	0	CKBCKAS(0)	I/O work area packets
2672	(A70)	SIGNED	4		Reserved
2672	(A70)	X'1000'	0	CKBDASZE	"((*-CKB+2047)/2048)*2048" CKB length

Table 71. Structure CKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKA	, CKPT I/O work area packets
0	(0)	BITSTRING	48	CKAIOBE	IOB extension area (IOBE)
48	(30)	BITSTRING	96	CKAIEDB	I/O error data block (IEDB)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	ADDRESS	4	CKAIOB	Corresponding IOB pointer (pointer to CKIP)
148	(94)	ADDRESS	4	CKACCWS	CCW work area (4K)
152	(98)	ADDRESS	4	CKACCWD	CCW data area (4K)
156	(9C)	ADDRESS	4	CKARNGL	IARV64 range list (8K)
160	(A0)	ADDRESS	4	CKARNGND	Used part of RANGLIST end
164	(A4)	ADDRESS	4	CKAERCCW	Failing CCW address
168	(A8)	ADDRESS	4	CKAERCC2	2ndary failing CCW address
172	(AC)	BITSTRING	16	CKADXPRM	Define extend data area
188	(BC)	BITSTRING	5	CKACHR1	CCHHR for failing CCW
193	(C1)	BITSTRING	5	CKACHR2	CCHHR for failing CCW 2
198	(C6)	SIGNED	2	CKAERRCT	Appendage error retry cntr
200	(C8)	SIGNED	2	CKARETRY	General I/O error retry cnt
202	(CA)	SIGNED	2	CKALIRCT	Interrupted I/O retry cntr
204	(CC)	BITSTRING	1	CKAFLAG1	Processing flags
		1...		CKA1IOAC	"B'10000000'" I/O active to this CKP
		.1..		CKA1LAST	"B'01000000'" Last CKP

Table 71. Structure CKA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKA1MSTF	"B'00100000'" Master record fixed
205	(CD)	BITSTRING	1	CKASVFLG	Save area for last $KIOFLAG
206	(CE)	SIGNED	2		Reserved
208	(D0)	SIGNED	4	(2)	Reserved
216	(D8)	DBL WORD	8	(0)	Align length
216	(D8)	X'D8'	0	CKALEN	"*-CKA" Length of a packet

Table 72. Structure CKI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKI	, CKPT I/O areas DSECT
0	(0)	CHARACTER	4	CKIID	Eyecatcher
DCB used for CKPT I/O DATA CONTROL BLOCK					
4	(4)	SIGNED	4	CKIDCBL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
4	(4)	ADDRESS	4		DCBE ADDRESS
8	(8)	BITSTRING	12		FDAD, DVTBL
20	(14)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
24	(18)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
25	(19)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
28	(1C)	ADDRESS	2		BUFL, BUFFER LENGTH
30	(1E)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
32	(20)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
36	(24)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
37	(25)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
40	(28)	BITSTRING	1		RECFM (RECORD FORMAT)
41	(29)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
44	(2C)	CHARACTER	8		DDNAME
52	(34)	BITSTRING	1		OFLGS (OPEN FLAGS)
53	(35)	BITSTRING	1		IFLGS (IOS FLAGS)
54	(36)	BITSTRING	2		MACR (MACRO FORMAT)
54	(36)	X'4'	0	CKIDCB	"CKIDCBL,*-CKIDCBL" DCB address and length
DCBE associated with DCB DATA CONTROL BLOCK EXTENSION.					
56	(38)	SIGNED	4	CKIDCBEL(0)	0 Alignment and identifier
60	(3C)	SIGNED	2		4 Length of DCBE, minimum is 56
62	(3E)	BITSTRING	2		6 Reserved, should be zero
64	(40)	ADDRESS	4		8 0 if not open, OPEN points to DCB
68	(44)	BITSTRING	4		C Disk address of current member
72	(48)	BITSTRING	1		10 Flags set by system
73	(49)	BITSTRING	1		11 Flags set by user

Table 72. Structure CKI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
74	(4A)	SIGNED	2		12 Number of stripes if extended format
76	(4C)	BITSTRING	1		14 Flags set by user
77	(4D)	BITSTRING	3		15 Reserved
80	(50)	BITSTRING	4		18 Reserved
84	(54)	SIGNED	4		1C Block size
88	(58)	BITSTRING	8		20 Reserved & number of blocks in ds
96	(60)	ADDRESS	4		28 End of data routine address or 0
100	(64)	ADDRESS	4		2C I/O error routine (synchronous) or 0
104	(68)	BITSTRING	6		30 Reserved, should be zero
110	(6E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
110	(6E)	X'38'	0	CKIDCBE	"CKIDCBEL,*-CKIDCBEL" DCBE address and length
DCB exit vector list					
112	(70)	SIGNED	4	CKIVELL(0)	DCB exit list for ABEND
112	(70)	ADDRESS	1		DCB ABEND exit, Last entry
113	(71)	ADDRESS	3	CKIAEBGN	DCB exit code addr.
113	(71)	X'70'	0	CKIVEL	"CKIVELL,*-CKIVELL" DCB exit list addr/length
DCB CLOSE ABEND exit list (copied from HASPCKDA). See code at KALVDOAE for routine/interface info					
136	(88)	SIGNED	4	(0)	Alignment
136	(88)	X'74'	0	CKIVELST	"CKIVDOAE,*-CKIVDOAE" Exit routine area and len
Six IOBs used for I/O to the checkpoint.					
136	(88)	X'6'	0	CKIOBCNT	"6" Number of IOBs to create
136	(88)	DBL WORD	8	(0)	Align IOBs
136	(88)	BITSTRING	0	CKIIOBS(0)	6 sets of IOBs
Required 24 bit (and other) work areas					
472	(1D8)	DBL WORD	8	CKIDWORK	24 bit work area
480	(1E0)	ADDRESS	4	CKITRKLL	DVCT OR UCB ADDR, OR DEVTYPE
484	(1E4)	BITSTRING	1		FLAG BYTE
485	(1E5)	BITSTRING	1		RESERVED
486	(1E6)	ADDRESS	2		TRACK BALANCE
488	(1E8)	ADDRESS	1		RECORD NUMBER
489	(1E9)	ADDRESS	1		KEY LENGTH
490	(1EA)	ADDRESS	2		DATA LENGTH
490	(1EA)	X'1E0'	0	CKITRKCL	"CKITRKLL,*-CKITRKLL" Work area equate
496	(1F0)	DBL WORD	8	(0)	Align length
496	(1F0)	X'1F0'	0	CKILEN	"*-CKI" Length of data area

Table 73. Structure CKIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKIP	, CKPT I/O work area packets
0	(0)	BITSTRING	40	CKIPIOB	Checkpoint IOB
40	(28)	SIGNED	4	CKIPECB	and I/O ECBs
44	(2C)	ADDRESS	4	CKIPCKA	I/O packet work area (CKA)
48	(30)	ADDRESS	4	CKIPCKB	CKB pointer
52	(34)	SIGNED	4		Reserved
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	CKIPLEN	"*-CKIP" Length of IOB area

Table 74. Cross Reference for $CK

Name	Offset	Hex Tag
CKA	0	
CKACCWD	98	
CKACCWS	94	
CKACHR1	BC	
CKACHR2	C1	
CKADXPRM	AC	
CKAERCCW	A4	
CKAERCC2	A8	
CKAERRCT	C6	
CKAFLAG1	CC	
CKAIEDB	30	
CKAIOB	90	
CKAIOBE	0	
CKALEN	D8	D8
CKALIRCT	CA	
CKARETRY	C8	
CKARNGL	9C	
CKARNGND	A0	
CKASVFLG	CD	
CKA1IOAC	CC	80
CKA1LAST	CC	40
CKA1MSTF	CC	20
CKB	0	
CKBCFSZE	4C0	
CKBCKAS	560	
CKBCKCKM	44D	40
CKBCKDAT	318	
CKBCKFLG	44D	
CKBCKGMT	44D	80
CKBCKHFM	318	
CKBCKHFP	318	318
CKBCKLEV	478	
CKBCKLVH	478	47C
CKBCKLVP	478	478

Table 74. Cross Reference for $CK (continued)

Name	Offset	Hex Tag
CKBCKREC	318	
CKBCKRLN	488	174
CKBCKVAL	488	
CKBDASZE	A70	1000
CKBDCONT	498	
CKBFLAG1	4	
CKBFLAG2	5	
CKBFLAG3	6	
CKBFORWD	44C	
CKBID	0	
CKBKEY	10	
CKBLKRLN	194	174
CKBLRDAT	20	
CKBLRKEY	18	
CKBLRLVI	24	
CKBLRMTK	40	
CKBLRMVS	48	
CKBLROTH	2C	
CKBLROTL	194	168
CKBLRPLI	38	
CKBLRPLN	2C	
CKBLRSID	28	
CKBLRSYS	20	
CKBLRSYT	34	
CKBLVOTH	44E	
CKBLWDAT	1A0	
CKBLWKEY	198	
CKBLWKYP	198	198
CKBLWLVI	1A4	
CKBLWMTK	1C0	
CKBLWMVS	1C8	
CKBLWOTH	1AC	
CKBLWOTL	314	168
CKBLWPLI	1B8	
CKBLWPLN	1AC	
CKBLWSID	1A8	
CKBLWSYS	1A0	
CKBLWSYT	1B4	
CKBNREC	7	
CKBPGSAV	498	
CKBPGSSL	4E0	
CKBSIZE	8	
CKBSIZEL	9	
CKBSUBP	8	
CKBSVDEF	454	
CKBTRK1T	C	

Table 74. Cross Reference for $CK (continued)

Name	Offset	Hex Tag
CKBWRTIM	474	
CKB1SHFL	4	40
CKB1SPCI	4	20
CKB2MSLI	5	1
CKB2RCHK	5	80
CKB2RLCK	5	10
CKB2RLOG	5	4
CKB2RMST	5	8
CKB2TLCK	5	20
CKB2WCHK	5	40
CKB2WLCK	5	2
CKB4KLEV	480	
CKB4KLVH	480	484
CKB4KLVP	480	480
CKI	0	
CKIAEBGN	71	
CKIDCB	36	4
CKIDCBE	6E	38
CKIDCBEL	38	C4C3C2C5
CKIDCBL	4	
CKIDWORK	1D8	
CKIID	0	C3D2C940
CKIIOBS	88	
CKILEN	1F0	1F0
CKIOBCNT	88	6
CKIP	0	
CKIPCKA	2C	
CKIPCKB	30	
CKIPECB	28	
CKIPIOB	0	
CKIPLEN	38	38
CKITRKCL	1EA	1E0
CKITRKLL	1E0	
CKIVEL	71	70
CKIVELL	70	
CKIVELST	88	74

$CKGPAR information

$CKGPAR heading information

Common name: Checkpoint Generalized Parameter List

Macro ID: $CKGPAR

DSECT name: CKG

Owning component: JES2 (SC1BH)

Eye-catcher ID: CKG
Offset: CKGID
Length: L'CKGID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual is in 31 bit storage private storage in the JES2 address space. Real can be in 64 bit storage.

Size: See CKGSIZE

Created by: HASPIRDA for the checkpoint data sets that are defined in the JES2 initialization stream
KDIALOG for data sets that are being allocated during the checkpoint reconfiguration dialog.

Pointed to by: $CKG1 field of the HCT data area
$CKG2 field of the HCT data area

Serialization: None required.

Function: This DSECT describes the parameter list required by all checkpoint management routines.

$CKGPAR mapping

Table 75. Structure CKG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKG	
0	(0)	CHARACTER	4	CKGID	CONTROL BLOCK EYE CATCHER
4	(4)	SIGNED	1	CKGVER	VERSION IDENTIFIER
4	(4)	X'2'	0	CKGVNR	"2" Version number
5	(5)	BITSTRING	1	CKGFLAG1	FLAGS
		1...		CKG1ESUP	"B'10000000'" SUPRESS I/O ERROR MESSAGES FOR THIS DATA SET
		.1..		CKG1LOKD	"B'01000000'" THIS FILE HAS BEEN LOCKED
		..1.		CKG1ITRP	"B'00100000'" THIS FILE HAS HAD INTERRUPTED I/O
		...1		CKG1IOER	"B'00010000'" THIS FILE HAS HAD AN I/O ERROR
		.... 1...		CKG1EXTN	"B'00001000'" File successfully extended
		.... .1..		CKG1DELE	"B'00000100'" Delete structure at unalloc
		.... ..1.		CKG1RESV	"B'00000010'" Hardware RESERVE requested or held
6	(6)	BITSTRING	1	CKGFLAG2	Second flag byte
		1...		CKG2DASD	"B'10000000'" Checkpoint resides on DASD
		.1..		CKG2CF	"B'01000000'" Checkpoint resides on CF
		..1.		CKG2FCON	"B'00100000'" This was the first connect to the structure, and as such, caused the actual allocation of the struct. in the Coupling Facility. Used by KFORMAT
		...1		CKG2ALOC	"B'00010000'" Data set allocated
		.... 1...		CKG2RBLD	"B'00001000'" A CF rebuild is in progress
		.... .1..		CKG2EMPT	"B'00000100'" Structure has no records
		.... ..1.		CKG2CYL	"B'00000010'" Data set allocated on EAV cylinder managed-EAS storage.

Table 75. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CKG2IORQ	"B'00000001'" I/O required (CF or EXCP)
7	(7)	BITSTRING	1	CKGALPRM	Hold CKPTALOC parm list for use by CFFORMAT
7	(7)	X'80'	0	CKGAOLD	"$CKAOLD" OLD=YES was specified
7	(7)	X'40'	0	CKGANEW	"$CKANEW" NEW=YES was specified
7	(7)	X'20'	0	CKGADEF	"$CKADEF" NEW=DEFER was specified
8	(8)	CHARACTER	8	CKGFILE	FILE NAME
16	(10)	ADDRESS	4	CKGHFAME	ADDRESS OF THE HFAME
20	(14)	ADDRESS	4	CKGCKB	ADDRESS OF THE CKB
24	(18)	ADDRESS	4	CKGTOKEN	ADDRESS OF A TOKEN FIELD
28	(1C)	ADDRESS	4	CKGDTE	Address of related DTE
32	(20)	ADDRESS	4	CKGCKI	Address of the CKI
36	(24)	ADDRESS	4	CKGTOT	ADDR OF THE TRACK 1 TABLE (TOT)
40	(28)	SIGNED	4	CKGCF4KL	Size, in 4K elements, the structure is lacking
44	(2C)	SIGNED	4	CKGCFSIZ	Size, in 1K units, of the CF structure
48	(30)	CHARACTER	16	CKGCONTK	Connection Token (only used if data set in CF)
64	(40)	SIGNED	1	CKGCONID	Connection Id (only used if data set in CF)
65	(41)	BITSTRING	1	CKGFLAG3	CKB CF Request footprints
		1...		CKG3MOVE	"B'10000000'" IXLLSTx MOVE Request
		.1..		CKG3RITE	"B'01000000'" IXLLSTx WRITE Request
		..1.		CKG3READ	"B'00100000'" IXLLSTx READ Request
		...1		CKG3LOCK	"B'00010000'" IXLLSTx LOCK Request
		.... 1...		CKG3RLST	"B'00001000'" IXLLSTx READLIST Request
		.... .1..		CKG3DELM	"B'00000100'" IXLLSTx DELETE MULT rqst
		.... ..1.		CKG3ALTR	"B'00000010'" IXLALTER request
66	(42)	BITSTRING	1	CKGFLAG4	Fourth flag byte
		1...		CKG4LE0B	"B'10000000'" List 0 LEIDs are built
		.1..		CKG4LE1B	"B'01000000'" List 1 LEIDs are built
		..1.		CKG4COND	"B'00100000'" Get LOCK conditionally
		...1		CKG4STEL	"B'00010000'" Steal the CF lock from CKGSCNID holder
		.... 1...		CKG4NOCK	"B'00001000'" No check record found for data set on CF
		.... .1..		CKG4WCFL	"B'00000100'" Waiting for CF lock
		.... ..1.		CKG4DUPC	"B'00000010'" Duplicate connection - when this data set was allocated on CF, NEWCKPTn pointed to the same str as CKPTn; however, we can only have one connection active to a given str at time.
		1		CKG4VALR	"B'00000001'" Validation error
67	(43)	BITSTRING	1	CKGFLAG5	CCW 1 I/O Error flags
		1...		CKG5NDTR	"B'10000000'" No data written on error
		.1..		CKG5DTRS	"B'01000000'" Data written on error

Table 75. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKG5CHKR	"B'00100000'" Error on CHECK record
		...1		CKG5LCKR	"B'00010000'" Error on LOCK record
		.... 1...		CKG5MSTR	"B'00001000'" Error on MASTER record
		.... .1..		CKG5LOGR	"B'00000100'" Error on Change log recd
		.... ..1.		CKG5PAGR	"B'00000010'" Error on 4K page record
		1		CKG5VERP	"B'00000001'" Error on verify CCWs
68	(44)	BITSTRING	1	CKGFLAG6	CCW 2 I/O Error flags Bit definitions are the same as CKGFLAG5
69	(45)	BITSTRING	1	CKGFLAG7	Subtask set error flags
		1...		CKG7NODS	"B'10000000'" Data set obtain error
70	(46)	BITSTRING	2		Reserved for future use
72	(48)	BITSTRING	4	CKGERROR(0)	Error flag word (set by CFALOC, used by PRE536 to display variable text of HASP536 message)
72	(48)	BITSTRING	3	CKGCFERR	$OFFSTBL only supports
75	(4B)	BITSTRING	1		bit string of length 24.
76	(4C)	SIGNED	4	CKGSUBRC	CKPT subtask request RC
80	(50)	SIGNED	4	CKGCKRC	RC from MVS services
84	(54)	SIGNED	4	CKGCKRSN(0)	Reason code from service
84	(54)	SIGNED	2	CKGCFRIN	First two bytes are internally defined
86	(56)	SIGNED	2	CKGCFREX	Last two bytes have external meaning
88	(58)	CHARACTER	4	CKGMSGID	Error message to issue
92	(5C)	ADDRESS	4	CKGANSA	Pointer to hold a single IXLLIST answer area.
96	(60)	SIGNED	4	CKGECB	XECB for asynch IXL reqs
96	(60)	BITSTRING	24	CKGXECB	XECB for asynch IXL reqs
120	(78)	SIGNED	4	CKGRECB	ECB portion of XECB for CF locking and DASD reserve
120	(78)	BITSTRING	24	CKGRXECB	XECB for CF locking request
144	(90)	ADDRESS	8	CKGLIST0	Addr of LIST0 data buffer
152	(98)	SIGNED	4	CKGT1NUM	Number of elements in a Track1 CF access
156	(9C)	SIGNED	1	CKGL0BLT	ID of List0 Leid builder
157	(9D)	SIGNED	1	CKGL1BLT	ID of List1 Leid builder
158	(9E)	BITSTRING	1	CKGECBTP	I/O completion code for $HASP291 message
159	(9F)	SIGNED	1	CKGSCNID	Steal lock from CONID
160	(A0)	ADDRESS	4	CKGCFQUD	CFQU data area pointer
164	(A4)	SIGNED	2	CKGRETRY	Error retry counter
166	(A6)	SIGNED	2		Reserved for future IBM use
168	(A8)	SIGNED	4		Reserved for future IBM use
176	(B0)	DBL WORD	8	(0)	Round size to doubleword
176	(B0)	X'B0'	0	CKGSIZE	"*-CKG" SIZE OF THE CKG

Table 75. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Use the DS 0S to ensure that fields in the CKG that are dependent on fields in MVS control blocks are the correct size. Since the S-con can not have a length associated with it (and it therefore forces half-word alignment), the S-cons are grouped down here.			
176	(B0)	ADDRESS	2	(0)	Verify CKGCONTK
176	(B0)	ADDRESS	2	(0)	and CONCONTOKEN are same length
176	(B0)	ADDRESS	2	(0)	Verify CKGCONID
176	(B0)	ADDRESS	2	(0)	and CONACONID are the same length

Table 76. Cross Reference for $CKGPAR

Name	Offset	Hex Tag
CKG	0	
CKGADEF	7	20
CKGALPRM	7	
CKGANEW	7	40
CKGANSA	5C	
CKGAOLD	7	80
CKGCFERR	48	
CKGCFQUD	A0	
CKGCFREX	56	
CKGCFRIN	54	
CKGCFSIZ	2C	
CKGCF4KL	28	
CKGCKB	14	
CKGCKI	20	
CKGCKRC	50	
CKGCKRSN	54	
CKGCONID	40	
CKGCONTK	30	
CKGDTE	1C	
CKGECB	60	
CKGECBTP	9E	
CKGERROR	48	
CKGFILE	8	
CKGFLAG1	5	
CKGFLAG2	6	
CKGFLAG3	41	
CKGFLAG4	42	
CKGFLAG5	43	
CKGFLAG6	44	
CKGFLAG7	45	
CKGHFAME	10	
CKGID	0	C3D2C740
CKGLIST0	90	
CKGL0BLT	9C	

Table 76. Cross Reference for $CKGPAR (continued)

Name	Offset	Hex Tag
CKGL1BLT	9D	
CKGMSGID	58	
CKGRECB	78	
CKGRETRY	A4	
CKGRXECB	78	
CKGSCNID	9F	
CKGSIZE	B0	B0
CKGSUBRC	4C	
CKGTOKEN	18	
CKGTOT	24	
CKGT1NUM	98	
CKGVER	4	
CKGVNR	4	2
CKGXECB	60	
CKG1DELE	5	4
CKG1ESUP	5	80
CKG1EXTN	5	8
CKG1IOER	5	10
CKG1ITRP	5	20
CKG1LOKD	5	40
CKG1RESV	5	2
CKG2ALOC	6	10
CKG2CF	6	40
CKG2CYL	6	2
CKG2DASD	6	80
CKG2EMPT	6	4
CKG2FCON	6	20
CKG2IORQ	6	1
CKG2RBLD	6	8
CKG3ALTR	41	2
CKG3DELM	41	4
CKG3LOCK	41	10
CKG3MOVE	41	80
CKG3READ	41	20
CKG3RITE	41	40
CKG3RLST	41	8
CKG4COND	42	20
CKG4DUPC	42	2
CKG4LE0B	42	80
CKG4LE1B	42	40
CKG4NOCK	42	8
CKG4STEL	42	10
CKG4VALR	42	1
CKG4WCFL	42	4
CKG5CHKR	43	20
CKG5DTRS	43	40

Table 76. Cross Reference for $CKGPAR (continued)

Name	Offset	Hex Tag
CKG5LCKR	43	10
CKG5LOGR	43	4
CKG5MSTR	43	8
CKG5NDTR	43	80
CKG5PAGR	43	2
CKG5VERP	43	1
CKG7NODS	45	80

$CKM information

$CKM heading information

Common name: JES2 Checkpoint Inter-member Communications Area

Macro ID: $CKM

DSECT name: CKM

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CKM '
Offset: CKMID-CKM
Length: L'CKM

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See CKMLEN

Created by: Routine CKRRINIT during JES2 initialization

Pointed to by: CKWCKMA field of the $CKW data area

Serialization: None required

Function: The $CKM data area is used by JES2 checkpoint reconfiguration routines to coordinate processing with other members in a MAS. The $CKM contains fields to communicate with callers of the CKRRxxxx routines and fields used internally to communicate with other members using JESXCF services.

$CKM mapping

Table 77. Structure CKM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKM	, Checkpoint inter-member communications area
0	(0)	CHARACTER	4	CKMID	Control block eyecatcher
4	(4)	ADDRESS	1	CKMVERSN	Control block version
4	(4)	X'1'	0	CKMVERN	"1" Current version number
5	(5)	BITSTRING	3		Reserved for future use

```
Input/Output for routine CKRRSTRT callers.
Fields in section are named CKMSxxxx.
                                | "S" for start
Output fields are available to caller until the
next CKRRDONE call.
```

8	(8)	DBL WORD	8	(0)	Alignment
8	(8)	BITSTRING	0	CKMSPARM(0)	CKRRSTRT parameter list
8	(8)	DBL WORD	8	CKMSBEGN(0)	Beginning of CKRRSTRT parms

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	1	CKMSFLG1	(IO) Flag byte 1 for CKRRSTRT
		1...		CKMS1MBD	"B'10000000'" (I.) - This member MUST be driver (owns the Q's)
		.1..		CKMS1DRV	"B'01000000'" (.O) - CKRRSTRT has determined this is the initial driving member
		..1.		CKMS1OPV	"B'00100000'" (IO) - Use OPVERIFY=YES during this reconfiguration
		...1		CKMS1HUP	"B'00010000'" (I.) - HFAM update is pending
9	(9)	BITSTRING	1	CKMSFLG2	(IO) Flag byte 2 (Used for reconfiguration reason)
		1...		CKMS2IO1	"B'10000000'" (IO) - I/O error on CKPT1
		.1..		CKMS2IO2	"B'01000000'" (IO) - I/O error on CKPT2
9	(9)	X'C0'	0	CKMS2IOE	"CKMS2IO1+CKMS2IO2" (.O) - I/O error on CKPTn
		..1.		CKMS2CKV	"B'00100000'" (IO) - CKPT on volatile CF
		...1		CKMS2OPR	"B'00010000'" (IO) - Operator requested dialog
		.... 1...		CKMS2CAN	"B'00001000'" (.O) - Reconfiguration cancelled by JES2
		.... .1..		CKMS2SET	"B'00000100'" (IO) - Set CKPTDEF command (also sets CKMS2OPR)
		.... ..1.		CKMS2RFM	"B'00000010'" (IO) - Reformat CKPT request
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	BITSTRING	4	CKMSDCON	(IO) Console ID or zero
16	(10)	SIGNED	4	CKMSNIOE	(.O) Number of members with I/O errors on CKPTn (Check CKMSFLG2 bits for "n")
20	(14)	CHARACTER	4	CKMSDNAM	(.O) Name of driving member (Original driving member, use CKMCCDMN after syncs)
24	(18)	BITSTRING	8	CKMSLEVN	(I.) Checkpoint level number
32	(20)	CHARACTER	128	CKMSMEMV	(.O) Vector of member names at original driver selection
160	(A0)	BITSTRING	308	CKMSHFAM	(IO) Copy of HFAM to initially use for this reconfig
468	(1D4)	BITSTRING	4		Reserved for future use
472	(1D8)	DBL WORD	8	CKMSEND(0)	End of CKRRSTRT parm list
	CKRRSTRT return codes				
472	(1D8)	X'0'	0	CKMSRCOK	"0" STRT processing completed
472	(1D8)	X'4'	0	CKMSRCCN	"4" Reconfig cancelled by JES2
	Input/Output for routine CKRRSYNC callers. Fields in section are named CKMCxxxx. | "C" for sync Output fields are available to caller until the next CKRRSYNC or CKRRDONE call.				
472	(1D8)	DBL WORD	8	(0)	Alignment
472	(1D8)	BITSTRING	0	CKMCPARM(0)	CKRRSYNC parameter list

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	DBL WORD	8	CKMCBEGN(0)	Beginning of CKRRSYNC parms
472	(1D8)	BITSTRING	1	CKMCFLG1	(IO) Flag byte 1 for CKRRSYNC
		1...		CKMC1DMF	"B'10000000'" (.O) - Driving member failed
		.1..		CKMC1NDM	"B'01000000'" (.O) - This member is new driver (This bit only set for transitions, and NOT on subsequent syncs)
		..1.		CKMC1OKW	"B'00100000'" (IO) - OK for this non-driving member to wait for driver without issuing a delay message. Always zero on return
473	(1D9)	BITSTRING	3		
476	(1DC)	CHARACTER	4	CKMCCDMN	(.O) Name of current/new driving member
480	(1E0)	CHARACTER	8	CKMCTYPE	(I.) Type of sync call
		CKMCACT contains an "action" code set by the driving member that tells non-driving members what to do.			
488	(1E8)	SIGNED	4	CKMCACT	(IO) Action code (in on driver)
488	(1E8)	X'0'	0	CKMCACNL	"0" - Null (Action implied by CKMCTYPE)
488	(1E8)	X'4'	0	CKMCACCT	"4" - Continue (All members successful, wrap up and call DONE)
488	(1E8)	X'8'	0	CKMCACRT	"8" - Retry (Member(s) unsuccessful, retry from the top)
488	(1E8)	X'C'	0	CKMCACOC	"12" - Operator requested CANCEL or TERM
488	(1E8)	X'10'	0	CKMCACF1	"16" - Start using forwarded CKPT1
488	(1E8)	X'14'	0	CKMCACF2	"20" - Start using forwarded CKPT2
488	(1E8)	X'18'	0	CKMCACS1	"24" - Suspend CKPT1
488	(1E8)	X'1C'	0	CKMCACS2	"28" - Suspend CKPT2
488	(1E8)	X'20'	0	CKMCACU1	"32" - Start using CKPT1
488	(1E8)	X'24'	0	CKMCACU2	"36" - Start using CKPT2
488	(1E8)	X'28'	0	CKMCACRF	"40" - Reformat CKPTs on driver
		The "condition" fields communicate conditions from all members to the driving member. Conditions are collected into a vector on the driving member.			
492	(1EC)	SIGNED	4	CKMCICON	(I.) Condition on entering CKRRSYNC call
492	(1EC)	X'0'	0	CKMCCCNL	"0" (.O) - Null condition (member not participating or failed)
492	(1EC)	X'4'	0	CKMCCCOK	"4" (IO) - OK condition (previous action successful or no condition to report)
492	(1EC)	X'8'	0	CKMCCCUS	"8" (IO) - Unsuccessful result from previous action
496	(1F0)	BITSTRING	128	CKMCCONV	(.O) (On driver only) A vector containing the condition from each member
624	(270)	SIGNED	4	CKMCCONM	(.O) (On driving member only) Maximum condition value from CKMCCONV vector

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		"Reason codes" are communicated from all members to the driving member. The "reason codes" are collected into a vector on the driving member. Reason codes are set to zero by CKRRSYNC for non-participating or failed members.			
628	(274)	SIGNED	4	CKMCIRSN	(I.) Reason code on entry to CKRRSYNC call
632	(278)	BITSTRING	1	CKMCRSNV	(.O) (On driver only) A vector containing reason codes for each member
		Latest $HFAM from driving member			
760	(2F8)	BITSTRING	308	CKMCHFAM	(IO) Copy of HFAM from driver when CKRRSYNC called
1068	(42C)	BITSTRING	4		Reserved for future use
1072	(430)	DBL WORD	8	CKMCEND(0)	End of CKRRSYNC parm list
		CKRRSYNC return codes			
1072	(430)	X'0'	0	CKMCRCOK	"0" SYNC processing completed
1072	(430)	X'4'	0	CKMCRCDF	"4" Driving member failed
		Input/Output for routine CKRRDONE callers. Fields in section are named CKMDxxxx. | "D" for done Output fields are available to caller until the next CKRRSTRT call. CKRRDONE return codes			
1072	(430)	X'0'	0	CKMDRCOK	"0" DONE processing completed
1072	(430)	X'4'	0	CKMDRCRC	"4" Re-enter CKPT reconfig (Start-up request for new reconfig was received)
		Data internal to CKRRxxxx routines. Fields in section are named CKMIxxxx. | "I" for internal Fields between CKMIDATA and CKMICLR1 are persistent for the life of this JES2. Fields beginning at CKMICLR1 are cleared when CKRRSTRT is called. Fields beginning at CKMICLR2 are cleared when CKRRSYNC or CKRRDONE are called.			
1072	(430)	DBL WORD	8	CKMIDATA(0)	Beginning of internal data
1072	(430)	CHARACTER	8	CKMIIEYE	Internal data eyecatcher (set by CKRRINIT)
1080	(438)	ADDRESS	4	CKMICKXA	Addr of CKX used to build messages and acks (obtained by CKRRINIT)
1084	(43C)	ADDRESS	4	CKMICKXS	Addr of CKX used to save last received msg or ack (obtained by CKRRINIT)
1088	(440)	DBL WORD	8	CKMICRST	Reconfig start TOD (STCK)
1096	(448)	DBL WORD	8	CKMICRET	Reconfig end TOD (STCK)
1104	(450)	SIGNED	4	CKMICRSE	Count of system events received during reconfig
1108	(454)	SIGNED	4	CKMICRIF	Count of IXZXIXIF requests issued in reconfiguration
1112	(458)	SIGNED	4	CKMIXECB(0)	XECB to wait on

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		General status flag byte			
1136	(470)	BITSTRING	1	CKMIFLG1	General status flag byte 1
		1...		CKMI1CAP	"B'10000000'" - Reconfiguration capable
		.1..		CKMI1RST	"B'01000000'" - Reconfiguration started
		..1.		CKMI1CAN	"B'00100000'" - Reconfiguration cancelled by JES2
1137	(471)	BITSTRING	3		Reserved
		Mailbox names (set by CKRRINIT)			
1140	(474)	CHARACTER	1	CKMIMBNS	
1156	(484)	CHARACTER	1	CKMIMBNR	
		Delay time constants (set by CKRRINIT)			
0	(0)	X'F'	0	CKMISECS	"15" Wait time for other members in seconds
1172	(494)	SIGNED	4	CKMISTBI	STIMERM wait time for other members in 100th's of seconds
1172	(494)	X'3'	0	CKMISECI	"3" Wait time for IXZXIXIF to complete in seconds
1176	(498)	SIGNED	4	CKMISTIF	STIMERM wait time for IXZXIXIF in 100th's of seconds
1176	(498)	X'64'	0	CKMIIFFC	"100" Interval between IXZXIXIF requests in 100th's of seconds
1180	(49C)	SIGNED	4	CKMIIFFI	STIMERM wait time between IXZXIXIF requests in 100th's of seconds
		JESXCF post exit information (set by CKRRINIT). Field CKMICKMA is also used for STIMERM.			
1184	(4A0)	ADDRESS	4	CKMICKMA	Pointer to $CKM used by IXZXIXMB for POSTDATA= and STIMERM for PARM=
1188	(4A4)	ADDRESS	4	CKMIHCTA	Addr of $HCT for post exit
1188	(4A4)	X'4'	0	CKMIPXRP	"4" Post exit reason code for incorrect exit parm list
1188	(4A4)	X'8'	0	CKMIPXRD	"8" Post exit reason code for incorrect post data
1188	(4A4)	X'C'	0	CKMIPXRM	"12" Post exit reason code for incorrect mailbox name
1192	(4A8)	SIGNED	4		Reserved
		Beginning of area cleared by CKRRSTRT. Warning: The remainder of the $CKM data area is cleared when CKRRSTRT is called. The area from CKMICLR1 for a length of CKMICL1L is cleared. Note: See CKMICLR2 below for beginning of area to clear on CKRRSYNC and CKRRDONE calls.			
1200	(4B0)	DBL WORD	8	CKMICLR1(0)	Begin area to clear on STRT
		Reconfiguration status flags			
1200	(4B0)	BITSTRING	1	CKMIFLG2	General status flag byte 2

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKMI2NIH	"B'10000000'" - Reconfig initiated from elsewhere assumed
		.1..		CKMI2ONE	"B'01000000'" - Single member reconfig (Set by IFGETVER rtn)
		..1.		CKMI2RCO	"B'00100000'" - Reconfig is committed (First driving member was committed)
		...1		CKMI2DCO	"B'00010000'" - Driving member is (re)committed
		.... 1...		CKMI2DRV	"B'00001000'" - We are driving member
		.... .1..		CKMI2DMF	"B'00000100'" - Driving member failed during this SYNC/DONE (or was previously pending)
		.... ..1.		CKMI2DFP	"B'00000010'" - Driving member failed is pending for next call to CKRRSYNC
		1		CKMI2WSG	"B'00000001'" - This non-driving member waiting for a sync go-ahead message
1201	(4B1)	BITSTRING	1	CKMIFLG3	General status flag byte 3
		1...		CKMI3RDD	"B'10000000'" - Ready for driver decommit
		.1..		CKMI3IFT	"B'01000000'" - STIMERM used to control frequency of IXZXIXIF requests is set
1202	(4B2)	BITSTRING	1		Reserved
		The following byte is permanently dedicated for IBM int rnal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or $K25 ABENDs.			
1203	(4B3)	CHARACTER	1	CKMIFCT	FCT test byte
		Reconfiguration operation sequence number Starts at zero on exit from CKRRSTRT and increments by one for each CKRRSYNC and by one more for CKRRDONE.			
1204	(4B4)	SIGNED	4	CKMIOSEQ	Operation sequence number
		Information about members participating in the current reconfiguration This information is looked at, but NOT set by, the IFGETVER (get member information) routine. IFGETVER does, however, subtract failed members from the participating member mask.			
1208	(4B8)	SIGNED	4	CKMIDMNO	Current/last committed
1212	(4BC)	CHARACTER	4	CKMIDMNA	driver number and name
1216	(4C0)	SIGNED	4	CKMIDCNO	Current/last candidate
1220	(4C4)	CHARACTER	4	CKMIDCNA	driver number and name (zeros unless driver is being selected)
1224	(4C8)	BITSTRING	4	CKMIMMPM	Participating member mask
1228	(4CC)	BITSTRING	4		Reserved
		Timing data			
1232	(4D0)	DBL WORD	8	(0)	Alignment

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
--ISTMS STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88					
1232	(4D0)	BITSTRING	24	CKMISTMS	REMOTE STIMERM SET PARM LIST
1232	(4D0)	X'18'	0	CKMISTSL	"*-CKMISTMS" Length of parm list
--ISTMC STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88					
1256	(4E8)	BITSTRING	16	CKMISTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
1256	(4E8)	X'10'	0	CKMISTCL	"*-CKMISTMC" Length of parm list
1272	(4F8)	DBL WORD	8	(0)	Alignment
1272	(4F8)	SIGNED	4	CKMISTMI	STIMERM ID=id-area while waiting for response from IXZXIXIF service
1276	(4FC)	SIGNED	4	CKMISTMM	STIMERM ID=id-area while waiting for msg, ack or system event
1280	(500)	SIGNED	4	CKMISTME	STIMERM ID=id-area used for postponed IXZXIXIF request
1284	(504)	SIGNED	4	CKMISTEI	STIMERM interval set for postponed IXZXIXIF request
1288	(508)	BITSTRING	1	CKMISTF	Interval timer flag byte (This byte is serialized with OIL and NIL)
		1...		CKMISTFI	"B'10000000'" STIMERM interval expired IXZXIXIF service
		.1..		CKMISTFM	"B'01000000'" STIMERM interval expired for msg, ack or sys event
		..1.		CKMISTFE	"B'00100000'" STIMERM interval expired for postponed IXZXIXIF request
1289	(509)	BITSTRING	7		Reserved
Beginning of area cleared by CKRRSYNC and CKRRDONE calls. Warning: The remainder of the $CKM data area is cleared when CKRRSYNC or CKRRDONE is called. The area from CKMICLR2 for a length of CKMICL2L is cleared. Note: See CKMICLR1 above for beginning of area to clear on CKRRSTRT calls.					
1296	(510)	DBL WORD	8	CKMICLR2(0)	Begin area to clear on SYNC or DONE calls
Information returned from IFGETVER routine					
1296	(510)	BITSTRING	1	CKMIIFG	IFGETVER flags
		1...		CKMIIFGD	"B'10000000'" - Failed driver candidate's state indicates driver
		.1..		CKMIIFGC	"B'01000000'" - Failed driver XCF user state shows committed
1297	(511)	BITSTRING	3		Reserved
1300	(514)	BITSTRING	4	CKMIMMRC	Reconfig capable mask
1304	(518)	BITSTRING	4	CKMIMMST	Reconfig started mask
1308	(51C)	BITSTRING	4	CKMIMMMD	Member MUST drive mask
1312	(520)	BITSTRING	4	CKMIMMCO	Reconfig committed mask
1316	(524)	BITSTRING	4	CKMIMMDR	Driving member mask
1320	(528)	SIGNED	4	CKMIICNO	Candidate for driving member (based on CKPT level and MUST drive)

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1324	(52C)	CHARACTER	4	CKMIICNA	Candidate's name
1328	(530)	SIGNED	4	CKMIIDNO	Driving member number (Based on XMAUC1DR bit of lowest participating mem)
1332	(534)	CHARACTER	4	CKMIIDNA	Driving member name
1336	(538)	CHARACTER	128	CKMIMEMV	Vector of member names
1464	(5B8)	BITSTRING	160	CKMIMCLV	Vector member CKPT levels from XMAUCRLV in member's XCF user state
1624	(658)	SIGNED	4	CKMIIFTS	BIN time stamp of last IXZXIXIF completion
		Bit mapped work mask for member states, etc.			
1628	(65C)	BITSTRING	4	CKMIMMWK	Member affinity work mask
1632	(660)	BITSTRING	1	CKMERRAF	Mask of systems to dump
		Data used by the WUSTATE routine - R1 parameter equates for expected XCF user state data - Mask of members that have not made the expected state change and have a HASP257 message outstanding			
1632	(660)	X'1'	0	CKMIWUST	"1" Expecting "started"
1632	(660)	X'2'	0	CKMIWUDR	"2" Expecting "driving member" (issued by non-drivers)
1632	(660)	X'3'	0	CKMIWUCO	"3" Expecting "reconfiguration committed" (issued by driver only)
1632	(660)	X'4'	0	CKMIWUDD	"4" Expecting "driver done" (issued by non-drivers waiting for driver to revert to capable only)
1632	(660)	X'5'	0	CKMIWUAD	"5" Expecting "all done" (every participating member to revert to capable only)
1636	(664)	BITSTRING	1	CKMIWUDM	Mask of delayed members w/ pending user state change
		Driver selection information			
1640	(668)	SIGNED	4	(0)	Alignment
1640	(668)	BITSTRING	0	CKMIDS(0)	Driver selection info
1640	(668)	SIGNED	4	CKMIDSBG(0)	Begin driver selection info
1640	(668)	BITSTRING	1	CKMIDFLG	Reconfig reason flags
		1...		CKMIDFOV	"B'10000000'" - Use OPVERIFY=YES
		.1..		CKMIDFI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKMIDFI2	"B'00100000'" - I/O error on CKPT2
1640	(668)	X'60'	0	CKMIDFIO	"CKMIDFI1+CKMIDFI2" - I/O error on CKPTn
		...1		CKMIDFCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKMIDFOR	"B'00001000'" - Operator requested dialog
		.... .1..		CKMIDFCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKMIDFHU	"B'00000010'" - Pending HFAM update
		1		CKMIDFST	"B'00000001'" - Set CKPTDEF command (also sets CKMIDFOR)
1641	(669)	BITSTRING	1	CKMIDFL2	Reconfig reason flags

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKMIDFRF	"B'10000000'" - Reformat CKPT request
1642	(66A)	BITSTRING	2		Reserved
1644	(66C)	SIGNED	4	CKMIDSOS	Operation sequence number
1648	(670)	BITSTRING	4	CKMIDCON	Console ID or zero
1652	(674)	SIGNED	4	CKMIDSI1	Number of CKPT1 I/O errors
1656	(678)	SIGNED	4	CKMIDSI2	Number of CKPT2 I/O errors
1660	(67C)	CHARACTER	4	CKMIDNAM	Name of driving member
1664	(680)	CHARACTER	128	CKMIDPMV	Participating memb names
1792	(700)	BITSTRING	308	CKMIDSHF	HFAM to initially use for this reconfig instance
2100	(834)	SIGNED	4	CKMIDSEN(0)	End driver selection info
	Reason codes for $K28 errors				
2100	(834)	X'1'	0	CKMIECKM	"1" CKM eyecatcher error
2100	(834)	X'2'	0	CKMIESND	"2" STRT called again w/o DONE
2100	(834)	X'3'	0	CKMIECNS	"3" SYNC called before STRT
2100	(834)	X'4'	0	CKMIECAN	"4" SYNC called after reconfig cancelled by JES2
2100	(834)	X'5'	0	CKMIEDNS	"5" DONE called before STRT
2100	(834)	X'6'	0	CKMIESTE	"6" More than one reconfig reason in parm list
2100	(834)	X'7'	0	CKMIECTE	"7" Sync type (CKMCTYPE) mismatch detected by this non-driving member
2100	(834)	X'8'	0	CKMIESWD	"8" Non-driving member called CKRRSYNC when driving member called CKRRDONE
2100	(834)	X'9'	0	CKMIEDWS	"9" Non-driving member called CKRRDONE when driving member called CKRRSYNC
2100	(834)	X'A'	0	CKMIEIEC	"10" Internal eyecatcher error (Possible storage overlay from STRT/SYNC parm list)
	Register save area, $ERROR reason code, and $Kxx error code index. Fields are set by the $CKRRRC, $CKRRV and $CKRRK30 macros and CRERROR routine.				
2100	(834)	SIGNED	4	CKMIKRGS(3)	R14, R15, R0 at time of error
2112	(840)	SIGNED	4	CKMIKRSN(0)	$Kxx reason code set from
2112	(840)	BITSTRING	1	CKMIKRSF	- (CKMIFUNC) Function code
2113	(841)	BITSTRING	1	CKMIKRSS	- (CKMIFLG2) Status flags
2114	(842)	ADDRESS	1	CKMIKRST	- (CKMIXERT) Error type
2115	(843)	ADDRESS	1	CKMIKRSX	- (CKMILSTX) Last IXZXIXxx
2116	(844)	ADDRESS	1	CKMIKXX	$Kxx error code index
2116	(844)	X'1'	0	CKMIK29	"1" - Fail with $K29 error - JESXCF data
2116	(844)	X'2'	0	CKMIK30	"2" - Fail with $K30 error - HASPCKRR internal logic
2116	(844)	X'3'	0	CKMIK34	"3" - Fail with $K34 error - JESXCF return code

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Footprint information Caution: Footprints are used for diagnosis ONLY and are NOT tested to control the flow or logic in reconfiguration routines. Using footprints to control main-line logic diminishes their value as an independent diagnosis tool, and could cause the diagnostic data to become part of a problem instead of an aid for problem determination. Function footprint codes			
2117	(845)	BITSTRING	1	CKMIFUNC	Function being performed
		111.		CKMIFURM	"B'11100000'" - CKRRxxxx routine mask
		..1.		CKMIFURI	"B'00100000'" - CKRRINIT routine called
		.1..		CKMIFURS	"B'01000000'" - CKRRSTRT routine called
		.11.		CKMIFURC	"B'01100000'" - CKRRSYNC routine called
		1...		CKMIFURD	"B'10000000'" - CKRRDONE routine called
		...1		CKMIFUDR	"B'00010000'" - Driver path if bit on (set/reset by mult rtns)
		.... 1...		CKMIFUIF	"B'00001000'" - In routine IFGETVER
		.... .1..		CKMIFUWU	"B'00000100'" - In routine WUSTATE
		.... ..1.		CKMIFUDS	"B'00000010'" - In routine DSELECT
		1		CKMIFUIM	"B'00000001'" - In routine IMPROC
		Last IXZXIXxx function footprint			
2118	(846)	ADDRESS	1	CKMILSTX	Last JESXCF function
2118	(846)	X'1'	0	CKMILXAC	"1" - Acknowledge message
2118	(846)	X'2'	0	CKMILXIF	"2" - Obtain member information
2118	(846)	X'3'	0	CKMILXMB	"3" - Create mailbox
2118	(846)	X'4'	0	CKMILXMC	"4" - Clear mailbox
2118	(846)	X'5'	0	CKMILXMD	"5" - Delete mailbox
2118	(846)	X'6'	0	CKMILXRM	"6" - Receive message
2118	(846)	X'7'	0	CKMILXSM	"7" - Send message
2118	(846)	X'8'	0	CKMILXUS	"8" - Call to XCFUSTAT to update XCF user state
		Specific error type Error type equates have the form: CKMIXExx for JESXCF related $K29 and $K34 errors CKMIIExx for HASPCKRR internal logic $K30 errors			
2119	(847)	ADDRESS	1	CKMIXERT	Error type
		Error types for JESXCF related $K29 or $K34 errors			
2119	(847)	X'1'	0	CKMIXERC	"1" - Unexpected return code (Used for $K34 only)
2119	(847)	X'2'	0	CKMIXEDA	"2" - IXZXIXRM DATA= addr is 0
2119	(847)	X'3'	0	CKMIXEZL	"3" - IXZXIXRM DATALEN is 0
2119	(847)	X'4'	0	CKMIXEZT	"4" - IXZXIXSM/IF REQTOKEN is 0
2119	(847)	X'5'	0	CKMIXEEE	"5" - YIXEN eyecatcher error

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2119	(847)	X'6'	0	CKMIXEER	"6" - YIXEN system RC is not 0
2119	(847)	X'7'	0	CKMIXEES	"7" - YIXEN rsn code is not 0
2119	(847)	X'8'	0	CKMIXEEV	"8" - YIXEN not for sys event
2119	(847)	X'9'	0	CKMIXEEO	"9" - YIXEN msg offset is 0
2119	(847)	X'A'	0	CKMIXEEL	"10" - YIXEN msg length is 0
2119	(847)	X'B'	0	CKMIXEEC	"11" - YIXEN inconsistent length
2119	(847)	X'C'	0	CKMIXESE	"12" - YIXSE eyecatcher error
2119	(847)	X'D'	0	CKMIXESO	"13" - YIXSE msg offset is 0
2119	(847)	X'E'	0	CKMIXESM	"14" - YIXSE offset points past end of msg
2119	(847)	X'F'	0	CKMIXESI	"15" - YIXSE not for member info
2119	(847)	X'10'	0	CKMIXEIE	"16" - YIXIF eyecatcher error
2119	(847)	X'11'	0	CKMIXEIL	"17" - YIXIF length greater than remaining msg len
2119	(847)	X'12'	0	CKMIXEIG	"18" - YIXIF group name error
2119	(847)	X'13'	0	CKMIXEIP	"19" - YIXIF member name not blank padded
2119	(847)	X'14'	0	CKMIXEID	"20" - YIXIF duplicate member #
2119	(847)	X'15'	0	CKMIXEIO	"21" - YIXIF offset inconsistent with YIXIF length
2119	(847)	X'16'	0	CKMIXEIB	"22" - YIXIF offset past msg end
2119	(847)	X'17'	0	CKMIXEIU	"23" - YIXIF own memb # missing
2119	(847)	X'18'	0	CKMIXEIN	"24" - YIXIF own name mismatch
2119	(847)	X'19'	0	CKMIXEAE	"25" - YIXAC eyecatcher error
2119	(847)	X'1A'	0	CKMIXEAC	"26" - YIXAC inconsistent length
2119	(847)	X'1B'	0	CKMIXEAO	"27" - YIXAC msg offset is 0
Error types for HASPCKRR internal logic $K30 errors					
2119	(847)	X'0'	0	CKMIIEUN	"0" Unknown error type
2119	(847)	X'1'	0	CKMIIEIL	"1" Internal logic error
2119	(847)	X'2'	0	CKMIIESU	"2" Non-start-up msg received in start-up mailbox
2119	(847)	X'3'	0	CKMIIEMT	"3" Unexpected msg type received
2119	(847)	X'4'	0	CKMIIEMS	"4" Cannot find a REQTOKEN in CKMISMRT token vector
2119	(847)	X'5'	0	CKMIIEIN	"5" Message type does not match envelope
2119	(847)	X'6'	0	CKMIIEOS	"6" Sync operation sequence number mismatch
2119	(847)	X'7'	0	CKMIIEDF	"7" Inconsistent view of driver failed status
2119	(847)	X'8'	0	CKMIIEIR	"8" Unexpected return code from IMPROC
2119	(847)	X'9'	0	CKMIIEIM	"9" Invalid member number passed to subroutine
2119	(847)	X'A'	0	CKMIIEDE	"10" Non-zero DOM ID found on a DOMDELAY verify call
2119	(847)	X'B'	0	CKMIIEHD	"11" We are driving when there is another driver with a lower member number

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2119	(847)	X'C'	0	CKMIIEMD	"12" Multiple members with MUST in XCF user state and we aren't the lowest MUST drive member #
2119	(847)	X'D'	0	CKMIIEAD	"13" IMPROC is processing an appl msg, but we do not have a driver or driver candidate
2119	(847)	X'E'	0	CKMIIEEY	"14" Invalid CKX eyecatcher
2119	(847)	X'F'	0	CKMIIEMH	"15" Invalid msg type passed to MHEADER routine
	IXZXIXxx macro return and reason codes				
2120	(848)	SIGNED	4	CKMIRTNC	Last IXZXIXxx return code (except for IXZXIXUS)
2124	(84C)	SIGNED	4	CKMIRSNC	Last IXZXIXxx reason code (except for IXZXIXUS)
	Other footprints				
2128	(850)	SIGNED	4	CKMIIFRC	Last IFGETVER return code
2132	(854)	SIGNED	4	CKMIIMRC	Last IMPROC return code
2136	(858)	SIGNED	4		Reserved
	Data associated with IXZXIXxx services General use data				
2136	(858)	X'8'	0	CKMITOKL	"8" Length of JESXCF msg token
2140	(85C)	SIGNED	4	CKMICRML	Current residual msg length
2144	(860)	SIGNED	4	CKMIMSGL	Length of msg/ack to send
2148	(864)	CHARACTER	1	CKMISMNA	XCF member name to send to
	Data returned from IXZXIXIF for member information				
2164	(874)	BITSTRING	1	CKMIIFRT	Request token (REQTOKEN=)
	Data returned from IXZXIXRM for a system event				
2172	(87C)	ADDRESS	4	CKMIRMED	Addr of message (DATA=)
2176	(880)	SIGNED	4	CKMIRMEL	Length of msg (DATALEN=)
2180	(884)	BITSTRING	1	CKMIRMET	Message token (MSGTOKEN=)
	Data returned from IXZXIXRM for a message or ack				
2188	(88C)	ADDRESS	4	CKMIRMMD	Addr of message (DATA=)
2192	(890)	SIGNED	4	CKMIRMML	Length of msg (DATALEN=)
2196	(894)	BITSTRING	8	CKMIRMMT	Message token (MSGTOKEN=)
2204	(89C)	SIGNED	4		Reserved
2208	(8A0)	SIGNED	4	CKMIRMSN	Sending member number (set by IMPROC routine)
2212	(8A4)	BITSTRING	1	CKMIRMAC	Req token from ack's YIXAC (set by IMPROC routine)
	Data returned from IXZXIXSM				
2220	(8AC)	BITSTRING	1	CKMISMRT	Request tokens (REQTOKEN=). One for each member number

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Data associated with $BLDMSG usage --IBMSG $BLDMSG MF=L List form of $BLDMSG			
2476	(9AC)	SIGNED	4	CKMIBMSG(0)	Control block ID
2480	(9B0)	BITSTRING	4		Console ID
2484	(9B4)	ADDRESS	4		Address of the CART
2488	(9B8)	ADDRESS	4		Pointer for JOBID
2492	(9BC)	ADDRESS	4		Control block address
2496	(9C0)	ADDRESS	4		Display routine address
2500	(9C4)	ADDRESS	4	(6)	6 word work area
2524	(9DC)	ADDRESS	4		Caller's R11 value
2528	(9E0)	BITSTRING	2		ROUT code for Message
2530	(9E2)	BITSTRING	2		Not used
2532	(9E4)	CHARACTER	4		Message ID
2536	(9E8)	CHARACTER	1		Separator character
2537	(9E9)	ADDRESS	1		Flag byte 1
2538	(9EA)	ADDRESS	1		'DISPER'
2539	(9EB)	ADDRESS	1		Flag byte 2
2540	(9EC)	ADDRESS	1		Flag byte 3
2541	(9ED)	ADDRESS	1		Severity of message
2542	(9EE)	CHARACTER	8		Symbolic name of dest.
2550	(9F6)	BITSTRING	14		Not used
2564	(A04)	ADDRESS	4	(0)	Ensure multiple of 4
2564	(A04)	ADDRESS	2	(0)	
0	(0)	X'58'	0	CKMIBMLN	"*-CKMIBMSG" Length of $BLDMSG MF=L
2564	(A04)	SIGNED	4	CKMID254	DOM ID for HASP254/709 msg
2568	(A08)	BITSTRING	128	CKMID257	DOM ID vector for HASP257
2696	(A88)	CHARACTER	4	CKMIDMCM	HASP257 causing member name
2700	(A8C)	ADDRESS	1	CKMIDMAC	HASP257 waiting for action
2700	(A8C)	X'1'	0	CKMIDMA1	"1" - Reconfig starting
2700	(A8C)	X'2'	0	CKMIDMA2	"2" - Driver commit
2700	(A8C)	X'3'	0	CKMIDMA3	"3" - Reconfig commit
2700	(A8C)	X'4'	0	CKMIDMA4	"4" - JESXCF msg from driver
2700	(A8C)	X'5'	0	CKMIDMA5	"5" - JESXCF ack from non-drv
2700	(A8C)	X'6'	0	CKMIDMA6	"6" - Driver decommit
2700	(A8C)	X'7'	0	CKMIDMA7	"7" - Reconfig decommit
2701	(A8D)	CHARACTER	2	CKMIDMMT	First two chars of CKXMEYE for HASP257 message
2703	(A8F)	BITSTRING	5		Reserved
		List form macros for JESXCF services			
2712	(A98)	DBL WORD	8	CKMIXLST(0)	JESXCF list form macros
		------- IXZXIXAC MF=(L,CKMIIXAC) Acknowledge message MACDATE -11/12/03-<1>			
0	(0)	X'A98'	0	M00M1164	"CKMIIXAC" ++ IXZXIXAC NAME

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2712	(A98)	DBL WORD	8	CKMIIXAC(0)	++ IXZXIXAC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXAC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXAC_XSTB	++ INPUT
		1...		CKMIIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	BITSTRING	8	CKMIIXAC_XMSGTOKEN	++ XMSGTOKEN
2728	(AA8)	ADDRESS	4	CKMIIXAC_XDATA	++ XDATA
2732	(AAC)	SIGNED	4	CKMIIXAC_XDATALEN	++ XDATALEN
2736	(AB0)	SIGNED	4	CKMIIXAC_XUSERRC	++ XUSERRC
2740	(AB4)	SIGNED	4	CKMIIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2744	(AB8)	SIGNED	4	CKMIIXAC_XSYSRC	++ XSYSRC
2748	(ABC)	SIGNED	4	CKMIIXAC_XSYSRSN	++ XSYSRSN
2752	(AC0)	BITSTRING	1	CKMIIXAC_XKEYS	++ FIELD_LABEL
		1...		CKMIIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		CKMIIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CKMIIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CKMIIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CKMIIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2753	(AC1)	BITSTRING	1	CKMIIXAC_XMSGATTR	++ INPUT
		1...		CKMIIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2753	(AC1)	X'2A'	0	CKMIIXACL	"*-CKMIIXAC" ++ LENGTH OF PLIST

IXZXIXAC-1

```
------- IXZXIXIF MF=(L,CKMIIXIF) Obtain member information
                MACDATE -11/12/03-<2>
```

0	(0)	X'A98'	0	M00M1166	"CKMIIXIF" ++ IXZXIXIF NAME
2712	(A98)	DBL WORD	8	CKMIIXIF(0)	++ IXZXIXIF PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXIF_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXIF_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXIF_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	SIGNED	4	CKMIIXIF_XGROUPTOKEN	++ XGROUPTOKEN
2724	(AA4)	CHARACTER	16	CKMIIXIF_XREQMBOX	++ XREQMBOX
2740	(AB4)	CHARACTER	8	CKMIIXIF_XREQTOKEN	++ XREQTOKEN
2748	(ABC)	ADDRESS	4	CKMIIXIF_XANSAREA	++ XANSAREA
2752	(AC0)	SIGNED	4	CKMIIXIF_XANSLEN	++ XANSLEN
2756	(AC4)	BITSTRING	1	CKMIIXIF_XINFOLVL	++ INPUT
		1...		CKMIIXIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKMIIXIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXIF_XKEYS	++ FIELD_LABEL
		1...		CKMIIXIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1..		CKMIIXIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1.		CKMIIXIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		CKMIIXIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
2758	(AC6)	BITSTRING	1	CKMIIXIF_XSTATE	++ INPUT
		1...		CKMIIXIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1..		CKMIIXIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
2759	(AC7)	BITSTRING	1	CKMIIXIF_XSYSTEM	++ INPUT
		1...		CKMIIXIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1..		CKMIIXIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
2760	(AC8)	BITSTRING	1	CKMIIXIF_XPOLYJES	++ INPUT
		1...		CKMIIXIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1..		CKMIIXIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
2761	(AC9)	BITSTRING	2	CKMIIXIF_XFUNCTION	++ INPUT
2761	(AC9)	BITSTRING	0	CKMIIXIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
2763	(ACB)	CHARACTER	8	CKMIIXIF_XGROUPNAME	++ XGROUPNAME
2763	(ACB)	X'3B'	0	CKMIIXIFL	"*-CKMIIXIF" ++ LENGTH OF PLIST
				IXZXIXIF-2	

```
------- IXZXIXMB MF=(L,CKMIIXMB) Create mailbox
                MACDATE -93/05/10-<1>
```

2712	(A98)	SIGNED	2	M00M1167(0)	IXZXIXMB-1
2712	(A98)	DBL WORD	8	CKMIIXMB(0)	++ IXZXIXMB PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMB_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXMB_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXMB_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXMB_XPOSTXIT	++ XPOSTXIT
2740	(AB4)	ADDRESS	4	CKMIIXMB_XPOSTDATA	++ XPOSTDATA
2744	(AB8)	SIGNED	4	CKMIIXMB_XPOSTALET	++ XPOSTALET
2748	(ABC)	SIGNED	4	CKMIIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2752	(AC0)	BITSTRING	1	CKMIIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CKMIIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		CKMIIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2752	(AC0)	X'29'	0	CKMIIXMBL	"*-CKMIIXMB" ++ LENGTH OF PLIST

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				IXZXIXMB-1	
------- IXZXIXMC MF=(L,CKMIIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1168(0)	IXZXIXMC-1
2712	(A98)	DBL WORD	8	CKMIIXMC(0)	++ IXZXIXMC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMC_XSTB	++ INPUT
		1...		CKMIIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMC_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMCL	"*-CKMIIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
------- IXZXIXMD MF=(L,CKMIIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1169(0)	IXZXIXMD-1
2712	(A98)	DBL WORD	8	CKMIIXMD(0)	++ IXZXIXMD PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMD_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMD_XSTB	++ INPUT
		1...		CKMIIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMD_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMDL	"*-CKMIIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
------- IXZXIXRM MF=(L,CKMIIXRM) Receive message MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1170(0)	IXZXIXRM-1
2712	(A98)	DBL WORD	8	CKMIIXRM(0)	++ IXZXIXRM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXRM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXRM_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXRM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXRM_XDATA	++ XDATA
2740	(AB4)	SIGNED	4	CKMIIXRM_XDATALEN	++ XDATALEN
2744	(AB8)	BITSTRING	8	CKMIIXRM_XMSGTOKEN	++ XMSGTOKEN
2752	(AC0)	SIGNED	4	CKMIIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2756	(AC4)	BITSTRING	1	CKMIIXRM_XMSGFETCH	++ INPUT

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKMIIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CKMIIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CKMIIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CKMIIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXRM_XKEYS	++ FIELD_LABEL
		1...		CKMIIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2757	(AC5)	X'2E'	0	CKMIIXRML	"*-CKMIIXRM" ++ LENGTH OF PLIST

IXZXIXRM-1

```
------- IXZXIXSM MF=(L,CKMIIXSM) Send message
                 MACDATE -10/16/01-<2>
```

0	(0)	X'A98'	0	M00M1171	"CKMIIXSM" ++ IXZXIXSM NAME
2712	(A98)	DBL WORD	8	CKMIIXSM(0)	++ IXZXIXSM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXSM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXSM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXSM_XMSGATTR	++ INPUT
		1...		CKMIIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXSM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	CHARACTER	16	CKMIIXSM_XMEMBER	++ XMEMBER
2752	(AC0)	ADDRESS	4	CKMIIXSM_XDATA	++ XDATA
2756	(AC4)	SIGNED	4	CKMIIXSM_XDATALEN	++ XDATALEN
2760	(AC8)	BITSTRING	8	CKMIIXSM_XREQTOKEN	++ XREQTOKEN
2768	(AD0)	CHARACTER	16	CKMIIXSM_XREQMBOX	++ XREQMBOX
2784	(AE0)	SIGNED	4	CKMIIXSM_XDATAALET	++ XDATAALET
2788	(AE4)	SIGNED	4	CKMIIXSM_XRESPDALT	++ XRESPDALT
2792	(AE8)	SIGNED	4	CKMIIXSM_XECB	++ XECB
2796	(AEC)	SIGNED	4	CKMIIXSM_XEXIT	++ XEXIT
2800	(AF0)	BITSTRING	8	CKMIIXSM_XCONNECT	++ XCONNECT
2808	(AF8)	SIGNED	4	CKMIIXSM_XGROUPTOKEN	++ XGROUPTOKEN
2812	(AFC)	SIGNED	4	CKMIIXSM_XUSERRC	++ XUSERRC
2816	(B00)	SIGNED	4	CKMIIXSM_XRESPDATA	++ XRESPDATA
2820	(B04)	SIGNED	4	CKMIIXSM_XRESPDLEN	++ XRESPDLEN
2824	(B08)	CHARACTER	4	CKMIIXSM_XRSV00001	++ RESERVED XRSV00001
2828	(B0C)	BITSTRING	8	CKMIIXSM_XMSGTOKEN	++ XMSGTOKEN
2836	(B14)	SIGNED	4	CKMIIXSM_XRIPSIZE	++ XRIPSIZE
2840	(B18)	BITSTRING	1	CKMIIXSM_XREQTYPE	++ INPUT

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKMIIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		CKMIIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		CKMIIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		CKMIIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
2841	(B19)	BITSTRING	1	CKMIIXSM_XSEGTYPE	++ INPUT
		1...		CKMIIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		CKMIIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		CKMIIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		CKMIIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		CKMIIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
2842	(B1A)	BITSTRING	1	CKMIIXSM_XKEYS	++ FIELD_LABEL
		1...		CKMIIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		CKMIIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		CKMIIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		CKMIIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		CKMIIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		CKMIIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		CKMIIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		CKMIIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
2843	(B1B)	BITSTRING	1	CKMIIXSM_XKEYS1	++ FIELD_LABEL
		1...		CKMIIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		CKMIIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		CKMIIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		CKMIIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
2843	(B1B)	X'84'	0	CKMIIXSML	"*-CKMIIXSM" ++ LENGTH OF PLIST
				IXZXIXSM-2	
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'88'	0	CKMIXLLN	"*-CKMIXLST" Length of longest list form
				End of data internal to CKRRxxxx routines	
2848	(B20)	DBL WORD	8	(0)	Alignment

Table 77. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2848	(B20)	X'610'	0	CKMICL2L	"*-CKMICLR2" Length of area to clear in CKRRSTRT
2848	(B20)	X'670'	0	CKMICL1L	"*-CKMICLR1" Length of area to clear in CKRRSYNC or CKRRDONE
2848	(B20)	X'6F0'	0	CKMIEND	"*-CKMIDATA" Length of internal data
	End of $CKM data area				
2848	(B20)	X'B20'	0	CKMLEN	"*-CKM" Length of $CKM data area PRINT ON

Table 78. Cross Reference for $CKM

Name	Offset	Hex Tag
CKM	0	
CKMCACCT	1E8	4
CKMCACF1	1E8	10
CKMCACF2	1E8	14
CKMCACNL	1E8	0
CKMCACOC	1E8	C
CKMCACRF	1E8	28
CKMCACRT	1E8	8
CKMCACS1	1E8	18
CKMCACS2	1E8	1C
CKMCACT	1E8	
CKMCACU1	1E8	20
CKMCACU2	1E8	24
CKMCBEGN	1D8	
CKMCCCNL	1EC	0
CKMCCCOK	1EC	4
CKMCCCUS	1EC	8
CKMCCDMN	1DC	
CKMCCONM	270	
CKMCCONV	1F0	
CKMCEND	430	
CKMCFLG1	1D8	
CKMCHFAM	2F8	
CKMCICON	1EC	
CKMCIRSN	274	
CKMCPARM	1D8	
CKMCRCDF	430	4
CKMCRCOK	430	0
CKMCRSNV	278	
CKMCTYPE	1E0	
CKMC1DMF	1D8	80
CKMC1NDM	1D8	40
CKMC1OKW	1D8	20
CKMDRCOK	430	0
CKMDRCRC	430	4

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMERRAF	660	
CKMIBMLN	0	58
CKMIBMSG	9AC	C2D3C440
CKMICKMA	4A0	
CKMICKXA	438	
CKMICKXS	43C	
CKMICLR1	4B0	
CKMICLR2	510	
CKMICL1L	B20	670
CKMICL2L	B20	610
CKMICRET	448	
CKMICRIF	454	
CKMICRML	85C	
CKMICRSE	450	
CKMICRST	440	
CKMID	0	
CKMIDATA	430	
CKMIDCNA	4C4	
CKMIDCNO	4C0	
CKMIDCON	670	
CKMIDFCN	668	4
CKMIDFCV	668	10
CKMIDFHU	668	2
CKMIDFIO	668	60
CKMIDFI1	668	40
CKMIDFI2	668	20
CKMIDFLG	668	
CKMIDFL2	669	
CKMIDFOR	668	8
CKMIDFOV	668	80
CKMIDFRF	669	80
CKMIDFST	668	1
CKMIDMAC	A8C	
CKMIDMA1	A8C	1
CKMIDMA2	A8C	2
CKMIDMA3	A8C	3
CKMIDMA4	A8C	4
CKMIDMA5	A8C	5
CKMIDMA6	A8C	6
CKMIDMA7	A8C	7
CKMIDMCM	A88	
CKMIDMMT	A8D	
CKMIDMNA	4BC	
CKMIDMNO	4B8	
CKMIDNAM	67C	
CKMIDPMV	680	

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIDS	668	
CKMIDSBG	668	
CKMIDSEN	834	
CKMIDSHF	700	
CKMIDSI1	674	
CKMIDSI2	678	
CKMIDSOS	66C	
CKMID254	A04	
CKMID257	A08	
CKMIECAN	834	4
CKMIECKM	834	1
CKMIECNS	834	3
CKMIECTE	834	7
CKMIEDNS	834	5
CKMIEDWS	834	9
CKMIEIEC	834	A
CKMIEND	B20	6F0
CKMIESND	834	2
CKMIESTE	834	6
CKMIESWD	834	8
CKMIFCT	4B3	
CKMIFLG1	470	
CKMIFLG2	4B0	
CKMIFLG3	4B1	
CKMIFUDR	845	10
CKMIFUDS	845	2
CKMIFUIF	845	8
CKMIFUIM	845	1
CKMIFUNC	845	
CKMIFURC	845	60
CKMIFURD	845	80
CKMIFURI	845	20
CKMIFURM	845	E0
CKMIFURS	845	40
CKMIFUWU	845	4
CKMIHCTA	4A4	
CKMIICNA	52C	
CKMIICNO	528	
CKMIIDNA	534	
CKMIIDNO	530	
CKMIIEAD	847	D
CKMIIEDE	847	A
CKMIIEDF	847	7
CKMIIEEY	847	E
CKMIIEHD	847	B
CKMIIEIL	847	1

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIEIM	847	9
CKMIIEIN	847	5
CKMIIEIR	847	8
CKMIIEMD	847	C
CKMIIEMH	847	F
CKMIIEMS	847	4
CKMIIEMT	847	3
CKMIIEOS	847	6
CKMIIESU	847	2
CKMIIEUN	847	0
CKMIIEYE	430	
CKMIIFFC	498	64
CKMIIFFI	49C	
CKMIIFG	510	
CKMIIFGC	510	40
CKMIIFGD	510	80
CKMIIFRC	850	
CKMIIFRT	874	
CKMIIFTS	658	
CKMIIMRC	854	
CKMIIXAC	A98	
CKMIIXAC_KEYUSED_DATA	AC0	80
CKMIIXAC_KEYUSED_DATALEN	AC0	40
CKMIIXAC_KEYUSED_SYSRC	AC0	10
CKMIIXAC_KEYUSED_SYSRSN	AC0	8
CKMIIXAC_KEYUSED_USERRC	AC0	20
CKMIIXAC_XDATA	AA8	
CKMIIXAC_XDATALEN	AAC	
CKMIIXAC_XEYECATCH	A99	
CKMIIXAC_XGROUPTOKEN	AB4	
CKMIIXAC_XKEYS	AC0	
CKMIIXAC_XMSGATTR	AC1	
CKMIIXAC_XMSGATTR_EXPRESS	AC1	40
CKMIIXAC_XMSGATTR_J3CONNECT	AC1	80
CKMIIXAC_XMSGTOKEN	AA0	
CKMIIXAC_XSTB	A9F	
CKMIIXAC_XSTB_NO	A9F	80
CKMIIXAC_XSTB_YES	A9F	40
CKMIIXAC_XSYSRC	AB8	
CKMIIXAC_XSYSRSN	ABC	
CKMIIXAC_XUSERRC	AB0	
CKMIIXAC_XVERSION	A98	
CKMIIXACL	AC1	2A
CKMIIXIF	A98	
CKMIIXIF_KEYUSED_ANSAREA	AC5	40
CKMIIXIF_KEYUSED_GROUPNAME	AC5	10

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXIF_KEYUSED_GROUPTOKEN	AC5	20
CKMIIXIF_KEYUSED_REQMBOX	AC5	80
CKMIIXIF_XANSAREA	ABC	
CKMIIXIF_XANSLEN	AC0	
CKMIIXIF_XEYECATCH	A99	
CKMIIXIF_XFUNCTION	AC9	
CKMIIXIF_XFUNCTION_ARM	AC9	8000
CKMIIXIF_XGROUPNAME	ACB	
CKMIIXIF_XGROUPTOKEN	AA0	
CKMIIXIF_XINFOLVL	AC4	
CKMIIXIF_XINFOLVL_GROUP	AC4	80
CKMIIXIF_XINFOLVL_MEMBER	AC4	40
CKMIIXIF_XKEYS	AC5	
CKMIIXIF_XPOLYJES	AC8	
CKMIIXIF_XPOLYJES_NO	AC8	40
CKMIIXIF_XPOLYJES_YES	AC8	80
CKMIIXIF_XREQMBOX	AA4	
CKMIIXIF_XREQTOKEN	AB4	
CKMIIXIF_XRSV0001	A9F	
CKMIIXIF_XSTATE	AC6	
CKMIIXIF_XSTATE_ACTIVE	AC6	40
CKMIIXIF_XSTATE_ANY	AC6	80
CKMIIXIF_XSYSTEM	AC7	
CKMIIXIF_XSYSTEM_ANY	AC7	80
CKMIIXIF_XSYSTEM_CURRENT	AC7	40
CKMIIXIF_XVERSION	A98	
CKMIIXIFL	ACB	3B
CKMIIXMB	A98	
CKMIIXMB_XEYECATCH	A99	
CKMIIXMB_XGROUPTOKEN	ABC	
CKMIIXMB_XMBOXNAME	AA0	
CKMIIXMB_XPOSTALET	AB8	
CKMIIXMB_XPOSTDATA	AB4	
CKMIIXMB_XPOSTXIT	AB0	
CKMIIXMB_XRSV0001	A9F	
CKMIIXMB_XSYSEVENT_NO	AC0	40
CKMIIXMB_XSYSEVENT_YES	AC0	80
CKMIIXMB_XSYSEVENTS	AC0	
CKMIIXMB_XVERSION	A98	
CKMIIXMBL	AC0	29
CKMIIXMC	A98	
CKMIIXMC_XEYECATCH	A99	
CKMIIXMC_XGROUPTOKEN	AB0	
CKMIIXMC_XMBOXNAME	AA0	
CKMIIXMC_XSTB	A9F	
CKMIIXMC_XSTB_NO	A9F	80

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXMC_XSTB_YES	A9F	40
CKMIIXMC_XVERSION	A98	
CKMIIXMCL	AB0	1C
CKMIIXMD	A98	
CKMIIXMD_XEYECATCH	A99	
CKMIIXMD_XGROUPTOKEN	AB0	
CKMIIXMD_XMBOXNAME	AA0	
CKMIIXMD_XSTB	A9F	
CKMIIXMD_XSTB_NO	A9F	80
CKMIIXMD_XSTB_YES	A9F	40
CKMIIXMD_XVERSION	A98	
CKMIIXMDL	AB0	1C
CKMIIXRM	A98	
CKMIIXRM_KEYUSED_MSGFETCH	AC5	80
CKMIIXRM_XDATA	AB0	
CKMIIXRM_XDATALEN	AB4	
CKMIIXRM_XEYECATCH	A99	
CKMIIXRM_XGROUPTOKEN	AC0	
CKMIIXRM_XKEYS	AC5	
CKMIIXRM_XMBOXNAME	AA0	
CKMIIXRM_XMSGFETCH	AC4	
CKMIIXRM_XMSGFETCH_ACKS	AC4	10
CKMIIXRM_XMSGFETCH_ALL	AC4	80
CKMIIXRM_XMSGFETCH_MESSAGES	AC4	40
CKMIIXRM_XMSGFETCH_SYSEVENT	AC4	20
CKMIIXRM_XMSGTOKEN	AB8	
CKMIIXRM_XRSV0001	A9F	
CKMIIXRM_XVERSION	A98	
CKMIIXRML	AC5	2E
CKMIIXSM	A98	
CKMIIXSM_KEYUSED_CONNECT	B1A	4
CKMIIXSM_KEYUSED_DATAALET	B1B	40
CKMIIXSM_KEYUSED_ECB	B1B	80
CKMIIXSM_KEYUSED_EXIT	B1A	10
CKMIIXSM_KEYUSED_MSGATTR	B1A	1
CKMIIXSM_KEYUSED_MSGTOKEN	B1A	2
CKMIIXSM_KEYUSED_RELEASE_CADS	B1B	20
CKMIIXSM_KEYUSED_REQMBOX	B1A	20
CKMIIXSM_KEYUSED_REQTOKEN	B1A	40
CKMIIXSM_KEYUSED_REQTYPE	B1A	80
CKMIIXSM_KEYUSED_RIPSIZE	B1B	10
CKMIIXSM_KEYUSED_SEGTYPE	B1A	8
CKMIIXSM_XCONNECT	AF0	
CKMIIXSM_XDATA	AC0	
CKMIIXSM_XDATAALET	AE0	
CKMIIXSM_XDATALEN	AC4	

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXSM_XECB	AE8	
CKMIIXSM_XEXIT	AEC	
CKMIIXSM_XEYECATCH	A99	
CKMIIXSM_XGROUPTOKEN	AF8	
CKMIIXSM_XKEYS	B1A	
CKMIIXSM_XKEYS1	B1B	
CKMIIXSM_XMBOXNAME	AA0	
CKMIIXSM_XMEMBER	AB0	
CKMIIXSM_XMSGATTR	A9F	
CKMIIXSM_XMSGATTR_EXPRESS	A9F	40
CKMIIXSM_XMSGATTR_J3CONNECT	A9F	80
CKMIIXSM_XMSGTOKEN	B0C	
CKMIIXSM_XREQMBOX	AD0	
CKMIIXSM_XREQTOKEN	AC8	
CKMIIXSM_XREQTYPE	B18	
CKMIIXSM_XREQTYPE_ASYNC	B18	80
CKMIIXSM_XREQTYPE_ASYNCACK	B18	20
CKMIIXSM_XREQTYPE_COMM	B18	10
CKMIIXSM_XREQTYPE_SYNC	B18	40
CKMIIXSM_XRESPDALT	AE4	
CKMIIXSM_XRESPDATA	B00	
CKMIIXSM_XRESPDLEN	B04	
CKMIIXSM_XRIPSIZE	B14	
CKMIIXSM_XRSV00001	B08	
CKMIIXSM_XSEGTYPE	B19	
CKMIIXSM_XSEGTYPE_ABORT	B19	8
CKMIIXSM_XSEGTYPE_FIRST	B19	40
CKMIIXSM_XSEGTYPE_LAST	B19	10
CKMIIXSM_XSEGTYPE_MIDDLE	B19	20
CKMIIXSM_XSEGTYPE_SINGLE	B19	80
CKMIIXSM_XUSERRC	AFC	
CKMIIXSM_XVERSION	A98	
CKMIIXSML	B1B	84
CKMIKRGS	834	
CKMIKRSF	840	
CKMIKRSN	840	
CKMIKRSS	841	
CKMIKRST	842	
CKMIKRSX	843	
CKMIKXX	844	
CKMIK29	844	1
CKMIK30	844	2
CKMIK34	844	3
CKMILSTX	846	
CKMILXAC	846	1
CKMILXIF	846	2

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMILXMB	846	3
CKMILXMC	846	4
CKMILXMD	846	5
CKMILXRM	846	6
CKMILXSM	846	7
CKMILXUS	846	8
CKMIMBNR	484	
CKMIMBNS	474	
CKMIMCLV	5B8	
CKMIMEMV	538	
CKMIMMCO	520	
CKMIMMDR	524	
CKMIMMMD	51C	
CKMIMMPM	4C8	
CKMIMMRC	514	
CKMIMMST	518	
CKMIMMWK	65C	
CKMIMSGL	860	
CKMIOSEQ	4B4	
CKMIPXRD	4A4	8
CKMIPXRM	4A4	C
CKMIPXRP	4A4	4
CKMIRMAC	8A4	
CKMIRMED	87C	
CKMIRMEL	880	
CKMIRMET	884	
CKMIRMMD	88C	
CKMIRMML	890	
CKMIRMMT	894	
CKMIRMSN	8A0	
CKMIRSNC	84C	
CKMIRTNC	848	
CKMISECI	494	3
CKMISECS	0	F
CKMISMNA	864	
CKMISMRT	8AC	
CKMISTBI	494	
CKMISTCL	4E8	10
CKMISTEI	504	
CKMISTF	508	
CKMISTFE	508	20
CKMISTFI	508	80
CKMISTFM	508	40
CKMISTIF	498	
CKMISTMC	4E8	0
CKMISTME	500	

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMISTMI	4F8	
CKMISTMM	4FC	
CKMISTMS	4D0	0
CKMISTSL	4D0	18
CKMITOKL	858	8
CKMIWUAD	660	5
CKMIWUCO	660	3
CKMIWUDD	660	4
CKMIWUDM	664	
CKMIWUDR	660	2
CKMIWUST	660	1
CKMIXEAC	847	1A
CKMIXEAE	847	19
CKMIXEAO	847	1B
CKMIXECB	458	
CKMIXEDA	847	2
CKMIXEEC	847	B
CKMIXEEE	847	5
CKMIXEEL	847	A
CKMIXEEO	847	9
CKMIXEER	847	6
CKMIXEES	847	7
CKMIXEEV	847	8
CKMIXEIB	847	16
CKMIXEID	847	14
CKMIXEIE	847	10
CKMIXEIG	847	12
CKMIXEIL	847	11
CKMIXEIN	847	18
CKMIXEIO	847	15
CKMIXEIP	847	13
CKMIXEIU	847	17
CKMIXERC	847	1
CKMIXERT	847	
CKMIXESE	847	C
CKMIXESI	847	F
CKMIXESM	847	E
CKMIXESO	847	D
CKMIXEZL	847	3
CKMIXEZT	847	4
CKMIXLLN	B20	88
CKMIXLST	A98	
CKMI1CAN	470	20
CKMI1CAP	470	80
CKMI1RST	470	40
CKMI2DCO	4B0	10

Table 78. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMI2DFP	4B0	2
CKMI2DMF	4B0	4
CKMI2DRV	4B0	8
CKMI2NIH	4B0	80
CKMI2ONE	4B0	40
CKMI2RCO	4B0	20
CKMI2WSG	4B0	1
CKMI3IFT	4B1	40
CKMI3RDD	4B1	80
CKMLEN	B20	B20
CKMSBEGN	8	
CKMSDCON	C	
CKMSDNAM	14	
CKMSEND	1D8	
CKMSFLG1	8	
CKMSFLG2	9	
CKMSHFAM	A0	
CKMSLEVN	18	
CKMSMEMV	20	
CKMSNIOE	10	
CKMSPARM	8	
CKMSRCCN	1D8	4
CKMSRCOK	1D8	0
CKMS1DRV	8	40
CKMS1HUP	8	10
CKMS1MBD	8	80
CKMS1OPV	8	20
CKMS2CAN	9	8
CKMS2CKV	9	20
CKMS2IOE	9	C0
CKMS2IO1	9	80
CKMS2IO2	9	40
CKMS2OPR	9	10
CKMS2RFM	9	2
CKMS2SET	9	4
CKMVERN	4	1
CKMVERSN	4	
M00M1164	0	A98
M00M1166	0	A98
M00M1167	A98	
M00M1168	A98	
M00M1169	A98	
M00M1170	A98	
M00M1171	0	A98

$CKPRECV information

$CKPRECV heading information

Common name:	Checkpoint recovery parameter list
Macro ID:	$CKPRECV
DSECT name:	CKR
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	"CKR " Offset: CKRID Length: L'CKRID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the storage of the JES2 address space
Size:	See CKRSIZE
Created by:	$CKPTDIA macro
Pointed to by:	Register 1 upon entry to KDIALOG
Serialization:	None required
Function:	The CKPRECV is used to describe the requirements of the caller of the checkpoint reconfiguration. It is $GETWORK'ed by the caller (via the $CKPTDIA macro) and $RETWORK'ed by the dialog routine.

$CKPRECV mapping

Table 79. Structure CKR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKR	
0	(0)	CHARACTER	4	CKRCID	ID PLACED HERE BY GETWORK
4	(4)	ADDRESS	4	CKRCKG	ADDRESS OF THE CKGPAR
8	(8)	ADDRESS	4	CKRCKG2	ADDR CKG FOR COMPANION DATA SET
12	(C)	BITSTRING	1	CKRFLAG1	Flag byte
		1...		CKR1IOER	"B'10000000'" Reason for call is IOERROR
		.1..		CKR1RECO	"B'01000000'" Reason for call is RECONFIG
		..1.		CKR1INIT	"B'00100000'" Reason for call is INIT
		...1		CKR1CFV	"B'00010000'" REASON=VOLATILE when dialog is entered
		.... 1...		CKR1SETC	"B'00001000'" Reason for call is SET cmnd
		.... .1..		CKR1RFMT	"B'00000100'" Reason for call is REFORMAT
13	(D)	BITSTRING	1	CKRFLAG2	Flag byte
		1...		CKR2RECR	"B'10000000'" RECURSIVE ERROR PENDING
		.1..		CKR2MIOE	"B'01000000'" The checkpoint reconfig was resulted from the I/O error on my system
		..1.		CKR2OPT7	"B'00100000'" OPTION 7/8 PROCESSING
		...1		CKR2DEL	"B'00010000'" DELETE IS VALID RESPONSE TO HASP237, HASP273, HASP278
		.... 1...		CKR2QUSE	"B'00001000'" Reset $QSONDA when finished
		.... .1..		CKR2CREA	"B'00000100'" CREATE IS VALID RESPONSE TO HASP278 MESSAGE

Table 79. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CKR2NCRE	"B'00000010'" CREATE IS INVALID RESPONSE TO FIRST HASP278 MESSAGE
		1		CKR2KRSV	"B'00000001'" RESERVE WAS IN EFFECT WHEN DIALOG WAS ENTERED
13	(D)	X'16'	0	CKR2KNUL	"CKR2DEL+CKR2CREA+CKR2NCRE" KNULLCHK & KDSLOC FLAGS
		ALL BIT CONFIGURATIONS FOR CKRFLAG3 ARE DEFINED IN $HASPEQU			
14	(E)	BITSTRING	1	CKRFLAG3	Flag byte (Shadowed in CKWRECF3)
15	(F)	BITSTRING	1	CKRFLAG4	Flag byte
		1...		CKR4ILEV	"B'10000000'" Increment $CKPTLEV
		.1..		CKR4LIM	"B'01000000'" Main task limited caller
		..1.		CKR4OPV	"B'00100000'" Verify reconfiguration with operator possibly due to OPVERIFY=YES specified
		...1		CKR4FWC1	"B'00010000'" Forward CKPT1
		.... 1...		CKR4FWC2	"B'00001000'" Forward CKPT2
		.... .1..		CKR4OAR	"B'00000100'" Operator assistance requested (this is used for the issuance of HASP235 message)
		.... ..1.		CKR4RSM1	"B'00000010'" Resume CKPT1
		1		CKR4RSM2	"B'00000001'" Resume CKPT2
16	(10)	BITSTRING	1	CKRFLAG5	DISPER flag for HASPMSG
		1...		CKR5CRC	"B'10000000'" Reconfig Complete -255
		.1..		CKR5CRCO	"B'01000000'" Reconfig Cancelled by Operator -255
		..1.		CKR5CRCJ	"B'00100000'" Reconfig Cancelled by JES2 -255
		...1		CKR5CRFA	"B'00010000'" Reconfig failed -255
17	(11)	BITSTRING	1	CKRFLAG6	More invocation flags
		1...		CKR6SOFT	"B'10000000'" Soft error (detected by JES2)
		.1..		CKR62NDR	"B'01000000'" Secondary reason code exists
		..1.		CKR6THIS	"B'00100000'" Most up to date queues are in this system's memory
		...1		CKR6OTH	"B'00010000'" Some other system has the most up date queues
		.... 1...		CKR6STAT	"B'00001000'" Use the $STATUS byte to determine if we have most up-to-date copy of the queues
18	(12)	CHARACTER	2	CKR2NDR	Secondary reason code
20	(14)	BITSTRING	1	CKRDSETR	Local copy of CKWDSETR
21	(15)	BITSTRING	3		Reserved
24	(18)	SIGNED	4	CKRCOUNT	The number of members unable to reconfigure
28	(1C)	CHARACTER	8	CKRMODN	Module that issued $CKPTDIA
36	(24)	CHARACTER	8	CKRSEQN	Sequence number of issuer

Table 79. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CKRCACT contains an "action" code set by the driving member that tells non-driving members what to do. This is copied from CKMCACT and its values are mapped in the $CKM.			
44	(2C)	SIGNED	4	CKRCACT	Reconfig "action" saved for undoing reconfig
48	(30)	CHARACTER	4	CKRAERRC	$ERROR CODE FOR HASP275 MESSAGE
52	(34)	ADDRESS	4	CKRACODE	ADDR OF $ERROR MACRO TO BE USED IF ALL ELSE FAILS
56	(38)	SIGNED	4	CKRRTCD1	Return code from KDLRECON or KDLINITC routine
		ALL WTO DOM IDS ARE KEPT HERE			
60	(3C)	ADDRESS	4	CKRDMFST(0)	FIRST DOM ID
60	(3C)	SIGNED	4	CKRDM233	DOM ID for message HASP233
64	(40)	SIGNED	4	CKRDM235	DOM ID for message HASP235
68	(44)	SIGNED	4	CKRDM237	DOM ID for message HASP237
72	(48)	SIGNED	4	CKRDM270	DOM ID FOR MESSAGE HASP270
76	(4C)	SIGNED	4	CKRDM271	DOM ID FOR MESSAGE HASP271
80	(50)	SIGNED	4	CKRDM272	DOM ID FOR MESSAGE HASP272
84	(54)	SIGNED	4	CKRDM273	DOM ID FOR MESSAGE HASP273
88	(58)	SIGNED	4	CKRDM275	DOM ID FOR MESSAGE HASP275
92	(5C)	SIGNED	4	CKRDM276	DOM ID FOR MESSAGE HASP276
96	(60)	SIGNED	4	CKRDM277	DOM ID FOR MESSAGE HASP277
100	(64)	SIGNED	4	CKRDM278	DOM ID FOR MESSAGE HASP278
104	(68)	SIGNED	4	CKRDM281	DOM ID FOR MESSAGE HASP281
108	(6C)	SIGNED	4	CKRDM282	DOM ID FOR MESSAGE HASP282
112	(70)	SIGNED	4	CKRDM284	DOM ID FOR MESSAGE HASP284
116	(74)	SIGNED	4	CKRDM285	DOM ID FOR MESSAGE HASP285
120	(78)	SIGNED	4	CKRDM294	DOM ID FOR MESSAGE HASP294
124	(7C)	SIGNED	4	CKRDM299	DOM ID FOR MESSAGE HASP299
128	(80)	SIGNED	4	CKRDMINT	DOM ID for init statement
128	(80)	X'80'	0	CKRDMLST	"*-4" LAST DOM ID
		THE WTOR ECB			
132	(84)	ADDRESS	4	CKRECB(0)	ECB USED FOR ALL WTOR'S
156	(9C)	ADDRESS	4	CKRSAVHF	ANCHOR FOR SAVED HFAM'S
160	(A0)	CHARACTER	8	CKRCKPTD	'CKPTDEF' when needed
168	(A8)	CHARACTER	144	CKRESPON	ALL REPLIES TO WTOR'S COME HERE
------ $BLDMSG MF=L List form of $BLDMSG					
312	(138)	SIGNED	4	CKRMSGL(0)	Control block ID
316	(13C)	BITSTRING	4		Console ID
320	(140)	ADDRESS	4		Address of the CART
324	(144)	ADDRESS	4		Pointer for JOBID
328	(148)	ADDRESS	4		Control block address
332	(14C)	ADDRESS	4		Display routine address

Table 79. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	ADDRESS	4	(6)	6 word work area
360	(168)	ADDRESS	4		Caller's R11 value
364	(16C)	BITSTRING	2		ROUT code for Message
366	(16E)	BITSTRING	2		Not used
368	(170)	CHARACTER	4		Message ID
372	(174)	CHARACTER	1		Separator character
373	(175)	ADDRESS	1		Flag byte 1
374	(176)	ADDRESS	1		'DISPER'
375	(177)	ADDRESS	1		Flag byte 2
376	(178)	ADDRESS	1		Flag byte 3
377	(179)	ADDRESS	1		Severity of message
378	(17A)	CHARACTER	8		Symbolic name of dest.
386	(182)	BITSTRING	14		Not used
400	(190)	ADDRESS	4	(0)	Ensure multiple of 4
400	(190)	ADDRESS	2	(0)	
400	(190)	ADDRESS	4	CKRCKGW	Spare CKG pointer
404	(194)	ADDRESS	4	CKRECLST(2)	ECB LIST

```
        BLD parameter list used as $SCAN token by the
        $MSGDISR display routine
------- $BLDMSG MF=L For HASP272 init stmt reply
```

412	(19C)	SIGNED	4	CKRSDBLD(0)	Control block ID
416	(1A0)	BITSTRING	4		Console ID
420	(1A4)	ADDRESS	4		Address of the CART
424	(1A8)	ADDRESS	4		Pointer for JOBID
428	(1AC)	ADDRESS	4		Control block address
432	(1B0)	ADDRESS	4		Display routine address
436	(1B4)	ADDRESS	4	(6)	6 word work area
460	(1CC)	ADDRESS	4		Caller's R11 value
464	(1D0)	BITSTRING	2		ROUT code for Message
466	(1D2)	BITSTRING	2		Not used
468	(1D4)	CHARACTER	4		Message ID
472	(1D8)	CHARACTER	1		Separator character
473	(1D9)	ADDRESS	1		Flag byte 1
474	(1DA)	ADDRESS	1		'DISPER'
475	(1DB)	ADDRESS	1		Flag byte 2
476	(1DC)	ADDRESS	1		Flag byte 3
477	(1DD)	ADDRESS	1		Severity of message
478	(1DE)	CHARACTER	8		Symbolic name of dest.
486	(1E6)	BITSTRING	14		Not used
500	(1F4)	ADDRESS	4	(0)	Ensure multiple of 4
500	(1F4)	ADDRESS	2	(0)	

```
        GENERATE ENOUGH SPACE TO HANDLE ALL POSSIBLE RESPONSES
        TO THE HASP272 MESSAGE. THE LENGTH INCLUDES 1 BYTE FOR
        THE LENGTH; 1 BYTE FOR THE RESPONSE; AND 4 BYTES FOR
        THE ADDRESS OF THE PROCESSING ROUTINES. THERE ARE TWO
        ENTRIES AT THE END FOR CKPTDEF AND CANCEL.
```

Table 79. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
500	(1F4)	BITSTRING	72	CKRVECTR	RESPONSE VECTOR
572	(23C)	BITSTRING	72	CKRHFAME	TEMPORARY HFAME
644	(284)	BITSTRING	1	CKRMFLAG	FLAG BYTE USED FOR MESSAGE CREATION
	PARAMETER LIST FOR KTRK1IO ROUTINE				
648	(288)	ADDRESS	4	CKRPARMX(0)	PARAMETER LIST FOR $CALLS
648	(288)	ADDRESS	4	CKRTCKG1	ADDRESS OF CKG1
652	(28C)	ADDRESS	4	CKRTCKG2	ADDRESS OF CKG2
656	(290)	ADDRESS	4	CKRTKYR1	ADDRESS OF KEY COMP FOR DS1
660	(294)	ADDRESS	4	CKRTKYR2	ADDRESS OF KEY COMP FOR DS2
664	(298)	ADDRESS	4	CKRTKYW1	ADDRESS KEY WRITE FOR DS1
668	(29C)	ADDRESS	4	CKRTKYW2	ADDRESS KEY WRITE FOR DS2
668	(29C)	X'288'	0	CKRPARM	"CKRPARMX,*-CKRPARMX" PARAMETER LIST
648	(288)	BITSTRING	12	CKRTQE	TQE AREA
672	(2A0)	ADDRESS	4	CKRCVCKG	ADDRESS OF CKG WHICH HAS HAD AN I/O ERROR AS A COMPANION
676	(2A4)	ADDRESS	4		RESERVED FOR FUTURE USE
680	(2A8)	ADDRESS	4	(0)	ENSURE WORK AREA ENDS ON WORD BOUNDARY
	Equates for HASPCKDS as a function indicator for type of work to do in subroutines - KDLRFORW, KDLRSUSP, KDLRRESM, KDLROPT1, KDLROPT5, and KDLROPT7				
680	(2A8)	X'0'	0	CKRPROC	"0" Process the function
680	(2A8)	X'4'	0	CKRFNSH	"4" Finish up remaining work
680	(2A8)	X'8'	0	CKRCLEN	"8" Clean up the work
680	(2A8)	X'C'	0	CKRDRVF	"12" Handle driver failure
680	(2A8)	X'2A8'	0	CKRSIZE	"*-CKR" SIZE OF WORK AREA

Table 80. Cross Reference for $CKPRECV

Name	Offset	Hex Tag
CKR	0	
CKRACODE	34	
CKRAERRC	30	
CKRCACT	2C	
CKRCKG	4	
CKRCKGW	190	
CKRCKG2	8	
CKRCKPTD	A0	
CKRCLEN	2A8	8
CKRCOUNT	18	
CKRCVCKG	2A0	
CKRDMFST	3C	
CKRDMINT	80	
CKRDMLST	80	80
CKRDM233	3C	
CKRDM235	40	

Table 80. Cross Reference for $CKPRECV (continued)

Name	Offset	Hex Tag
CKRDM237	44	
CKRDM270	48	
CKRDM271	4C	
CKRDM272	50	
CKRDM273	54	
CKRDM275	58	
CKRDM276	5C	
CKRDM277	60	
CKRDM278	64	
CKRDM281	68	
CKRDM282	6C	
CKRDM284	70	
CKRDM285	74	
CKRDM294	78	
CKRDM299	7C	
CKRDRVF	2A8	C
CKRDSETR	14	
CKRECB	84	
CKRECLST	194	
CKRESPON	A8	
CKRFLAG1	C	
CKRFLAG2	D	
CKRFLAG3	E	
CKRFLAG4	F	
CKRFLAG5	10	
CKRFLAG6	11	
CKRFNSH	2A8	4
CKRHFAME	23C	
CKRID	0	
CKRMFLAG	284	
CKRMODN	1C	
CKRMSGL	138	C2D3C440
CKRPARM	29C	288
CKRPARMX	288	
CKRPROC	2A8	0
CKRRTCD1	38	
CKRSAVHF	9C	
CKRSDBLD	19C	C2D3C440
CKRSEQN	24	
CKRSIZE	2A8	2A8
CKRTCKG1	288	
CKRTCKG2	28C	
CKRTKYR1	290	
CKRTKYR2	294	
CKRTKYW1	298	
CKRTKYW2	29C	

Table 80. Cross Reference for $CKPRECV (continued)

Name	Offset	Hex Tag
CKRTQE	288	
CKRVECTR	1F4	
CKR1CFV	C	10
CKR1INIT	C	20
CKR1IOER	C	80
CKR1RECO	C	40
CKR1RFMT	C	4
CKR1SETC	C	8
CKR2CREA	D	4
CKR2DEL	D	10
CKR2KNUL	D	16
CKR2KRSV	D	1
CKR2MIOE	D	40
CKR2NCRE	D	2
CKR2NDR	12	
CKR2OPT7	D	20
CKR2QUSE	D	8
CKR2RECR	D	80
CKR4FWC1	F	10
CKR4FWC2	F	8
CKR4ILEV	F	80
CKR4LIM	F	40
CKR4OAR	F	4
CKR4OPV	F	20
CKR4RSM1	F	2
CKR4RSM2	F	1
CKR5CRC	10	80
CKR5CRCJ	10	20
CKR5CRCO	10	40
CKR5CRFA	10	10
CKR6OTH	11	10
CKR6SOFT	11	80
CKR6STAT	11	8
CKR6THIS	11	20
CKR62NDR	11	40

$CKPTQCB information

$CKPTQCB heading information

Common name: Checkpoint request queue element

Macro ID: $CKPTQCB

DSECT name: CKPTQCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: CKQ
Offset: CKQID
Length: L'CKQID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See CKQLEN

Created by: $CKPTQUE service

Pointed to by: $CKQHEAD field of the HCT data area

Serialization: Normal PCE dispatch serialization

Function: The $CKPWQCB represents a unit of work for the CKPT PCE to perform, once the CKPT queues are obtained. Queue elements are created via the $CKPTQUE macro and service routines.

$CKPTQCB mapping

Table 81. Structure CKPTQCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKPTQCB	CKPT request queue element
0	(0)	CHARACTER	4	CKQID	Control block id
4	(4)	ADDRESS	1	CKQVERSN	Control block version
4	(4)	X'1'	0	CKQVERN	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	CKQNEXT	Next CB on work queue
16	(10)	DBL WORD	8	CKQREGS(2)	R0 and R1 on entry to service.
32	(20)	ADDRESS	4	CKQRTNA	Address of routine
36	(24)	ADDRESS	4	CKQPCE	Address of associated PCE
36	(24)	X'28'	0	CKQLEN	"*-CKPTQCB" Length of CKPTQCB

Table 82. Cross Reference for $CKPTQCB

Name	Offset	Hex Tag
CKPTQCB	0	
CKQID	0	C3D2D840
CKQLEN	24	28
CKQNEXT	8	
CKQPCE	24	
CKQREGS	10	
CKQRTNA	20	
CKQVERN	4	1
CKQVERSN	4	

$CKPWORK information

$CKPWORK programming interface information

$CKPWORK is a programming interface.

$CKPWORK heading information

Common name: HASP Checkpoint PCE Work Area DSECT

Macro ID: $CKPWORK

DSECT name: PCE ($CKPWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol CKPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $CKPTPCE field of the $HCT data area

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 checkpoint processor. $CKPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CKPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECKPID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$CKPWORK mapping

Table 83. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP CHECKPOINT PROCESSOR
328	(148)	SIGNED	4	CKPHLTIM	Checkpoint held time
332	(14C)	SIGNED	4	CKPDRMTM	Checkpoint dormancy time
336	(150)	SIGNED	2	CKPUWORK	General work area
338	(152)	BITSTRING	4	CKPUMASK	General work mask
342	(156)	BITSTRING	1	CKPFLAG1	FLAG BYTE --
		1...		CKP1FILL	"B'10000000'" TGB HAS BEEN FILLED
		..1.		CKP1OFLW	"B'00100000'" CH LOG IS OVERFLOWING
		...1		CKP1SFMI	"B'00010000'" SPOOL FULL MSG ISSUED
		.... 1...		CKP1PCAP	"B'00001000'" CKVR subtask posted
		.... .1..		CKP1VLEN	"B'00000100'" CURRENT CB IS IN VARIABLE LENGTH SECTION OF CKPT
		.... ..1.		CKP1LHBS	"B'00000010'" CKPQSOLD is zero because the lock was held by the system
		1		CKP1STOP	"B'00000001'" When reach end of DAS chain, do not start over (used in KBLOB)
343	(157)	BITSTRING	1	CKPFLAG2	Flag byte
		1...		CKP2RBLB	"B'10000000'" KBLOB executed once
344	(158)	SIGNED	4	CKPSRCHO	Search offset within extent
348	(15C)	BITSTRING	4		Reserved for alignment
	CKPT PCE uses special form of TQE				
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	BITSTRING	24	CKPSTQE	$STIMER queue element
376	(178)	BITSTRING	24	CKPMITQE	$STIMER queue element for max interval to wait before a ckpt write
400	(190)	BITSTRING	24	CKPAPECB	HASPCKAP ECB
424	(1A8)	SIGNED	4	CKPAPTIM	TIME OF LAST HASPCKAP POST
428	(1AC)	SIGNED	4	CKPBTIME	SPOOL WARNING TIME STAMP

Table 83. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
432	(1B0)	ADDRESS	4	CKPPALA	ADDRESS OF PAGE ADDR LIST
436	(1B4)	ADDRESS	4	CKPTRPTR	ADDRESS OF THE CHECKPOINT TRACE WORK AREA
440	(1B8)	ADDRESS	4	CKPCLENT	ADDRESS OF THE NEXT AVAILABLE ENTRY IN THE CHANGE LOG
444	(1BC)	ADDRESS	4	CKPCLEND	Byte past end of CHLOG area
448	(1C0)	SIGNED	4	CKPUSER1	RESERVED FOR USER
452	(1C4)	SIGNED	4	CKPUSER2	RESERVED FOR USER
456	(1C8)	SIGNED	4	CKPSTCK	TIMER SAVE AREA
460	(1CC)	SIGNED	4	CKPDASN	ADDRESS OF NEXT DAS FOR BLOB
464	(1D0)	BITSTRING	32	CKPBLMPR	Previous mask of volumes in the BLOB (from last time through KBLOB)
496	(1F0)	BITSTRING	32	CKPBLMSK	Mask of volumes in BLOB with affinity for this member
528	(210)	BITSTRING	32	CKPBLMFN	Mask of vols in BLOB at end of KBLOB (may include vols without affinity for the member)
560	(230)	BITSTRING	32	CKPBLMWK	Work mask for KBLOB
592	(250)	BITSTRING	1		Reserved for future use
593	(251)	BITSTRING	1	CKPDASP2	'M' of next DAS to use when filling BLOB round- robin from the DASes
594	(252)	SIGNED	2	CKPRETRY	I/O ERROR RETRY COUNTER +1
596	(254)	CHARACTER	4	CKPRLSID	SYSTEM NAME AND AFFINITY
600	(258)	ADDRESS	1	CKPRLAFF	FROM $ESYS,RESET=
601	(259)	BITSTRING	1	CKPBLCNT	COUNT OF SPOOLS IN BLOB
602	(25A)	SIGNED	2	CKPTGESZ	Max num of entries in BLOB
604	(25C)	SIGNED	4	CKPQLOCK(0)	Query Lock work area
604	(25C)	SIGNED	4	CKPQSSID	System ID of lock holder
608	(260)	CHARACTER	16	CKPQSSNM	System name of lock holder
624	(270)	ADDRESS	4	CKPQCKGA	CKG address
624	(270)	X'18'	0	CKPQLLEN	"*-CKPQLOCK" Length of Query Lock
624	(270)	X'25F'	0	CKPSTLID	"CKPQSSID+3" 1 byte lock id to be cleared via $SYS,RESET=
628	(274)	ADDRESS	4	CKPSQDA	Query lock SQD pointer
632	(278)	SIGNED	4	CKPQSOLD	System ID of previous CF lock holder
640	(280)	DBL WORD	8	CKPCSTRT	STCK WHEN CKPT STARTED CYCLE (KRESERVE ISSUED)
648	(288)	ADDRESS	4	CKPECMBF	Addr of first CMB for reset of checkpoint lock FIFO q
652	(28C)	ADDRESS	4	CKPECNID	Console id for reset lock messages
656	(290)	CHARACTER	8	CKPECART	CART for reset lock msgs
664	(298)	SIGNED	4	CKPTMR14	KSTIMER/KTTIMER R14 save @
668	(29C)	SIGNED	4		Reserved
672	(2A0)	DBL WORD	8	(0)	
672	(2A0)	X'158'	0	CKPPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 84. Cross Reference for $CKPWORK

Name	Offset	Hex Tag
CKPAPECB	190	

Table 84. Cross Reference for $CKPWORK (continued)

Name	Offset	Hex Tag
CKPAPTIM	1A8	
CKPBLCNT	259	
CKPBLMFN	210	
CKPBLMPR	1D0	
CKPBLMSK	1F0	
CKPBLMWK	230	
CKPBTIME	1AC	
CKPCLEND	1BC	
CKPCLENT	1B8	
CKPCSTRT	280	
CKPDASN	1CC	
CKPDASP2	251	
CKPDRMTM	14C	
CKPECART	290	
CKPECMBF	288	
CKPECNID	28C	
CKPFLAG1	156	
CKPFLAG2	157	
CKPHLTIM	148	
CKPMITQE	178	
CKPPALA	1B0	
CKPPCEWS	2A0	158
CKPQCKGA	270	
CKPQLLEN	270	18
CKPQLOCK	25C	
CKPQSOLD	278	
CKPQSSID	25C	
CKPQSSNM	260	
CKPRETRY	252	
CKPRLAFF	258	
CKPRLSID	254	
CKPSQDA	274	
CKPSRCHO	158	
CKPSTCK	1C8	
CKPSTLID	270	25F
CKPSTQE	160	
CKPTGESZ	25A	
CKPTMR14	298	
CKPTRPTR	1B4	
CKPUMASK	152	
CKPUSER1	1C0	
CKPUSER2	1C4	
CKPUWORK	150	
CKP1FILL	156	80
CKP1LHBS	156	2
CKP1OFLW	156	20

Table 84. Cross Reference for $CKPWORK (continued)

Name	Offset	Hex Tag
CKP1PCAP	156	8
CKP1SFMI	156	10
CKP1STOP	156	1
CKP1VLEN	156	4
CKP2RBLB	157	80
PCE	0	

$CKW information

$CKW heading information

Common name: Checkpoint Routine Work Area

Macro ID: $CKW

DSECT name: CKW

Owning component: JES2 (SC1BH)

Eye-catcher ID: CKW
Offset: CKWID
Length: L'CKWID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See CKWLNGTH

Created by: HASPIRMA during JES2 initialization

Pointed to by: $CKW field of the HCT data area

Serialization: Normal PCE dispatch serialization

Function: The $CKW maps a work area used by the externally $CALLable routines in the checkpoint modules (HASPCKPT and HASPCKDS). Since these routines are $CALLable under different PCEs (namely, init and checkpoint), this work area holds common fields which must be PCE work area independent.

$CKW mapping

Table 85. Structure CKW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKW	CKPT WORK AREA MAPPING
0	(0)	CHARACTER	4	CKWID	CONTROL BLOCK ID
4	(4)	ADDRESS	1	CKWVERSN	CONTROL BLOCK VERSION
4	(4)	X'4'	0	CKWVERN	"4" Version number
5	(5)	BITSTRING	1	CKWFLAG1	Ckpt work area flags
		1...		CKW1FNLW	"B'10000000'" FINAL CHECKPOINT DS WRITE
		.1..		CKW1OFLW	"B'01000000'" CHANGE LOG OVERFLOWING
		..1.		CKW1ESUP	"B'00100000'" SUPPRESS I/O ERROR MESSAGES
		...1		CKW1S266	"B'00010000'" SUPPRESS 266/267 MESSAGES DURING KFORMAT ROUTINE
		.... 1...		CKWLDIAG	"B'00001000'" THE CHECKPOINT WAS RECONFIGURED (SET BY DIALOG, RESET AFTER OBTAINING THE LOCK)

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CKW1SPIO	"B'00000100'" SPLIT THE IO ACROSS 2 CALLS TO KPRIMW (ONE TO START THE I/O ONE TO WAIT FOR IT)
		.... ..1.		CKW1SPSC	"B'00000010'" THIS IS THE SECOND CALL TO KPRIMW (TO WAIT FOR THE I/O IF IT WAS STARTED)
6	(6)	BITSTRING	1	CKWFLAG2	CKPT work area flags
		1...		CKW2R1LS	"B'10000000'" LAST CKPT PHASE WAS RD 1
		.1..		CKW2R2LS	"B'01000000'" LAST CKPT PHASE WAS RD 2
		..1.		CKW2PWLS	"B'00100000'" LAST CKPT PHASE WAS PRM W
		...1		CKW2IWLS	"B'00010000'" LAST CKPT PHASE WAS INT W
		.... 1...		CKW2FWLS	"B'00001000'" LAST CKPT PHASE WAS FIN W
		.... .1..		CKW2FMLS	"B'00000100'" LAST CKPT PHASE WAS FMT W
		1		CKW2INTR	"B'00000001'" INIT owner reset in lock
7	(7)	BITSTRING	1	CKWFLAG3	CKPT Work flag 3
		.1..		CKW3FMCP	"B'01000000'" KFORMAT needs to copy pages to I/O area
		...1		CKW3R2WP	"B'00010000'" Wrapping active for READ2
		.... 1...		CKW3PWWP	"B'00001000'" Wrapping active for primary write
		.... .1..		CKW3NOPT	"B'00000100'" Do not optimize writes
		.... ..1.		CKW3STA	"B'00000010'" Status from previous CKPT holder pending
8	(8)	BITSTRING	1	CKWFLAG4	CKPT Work Flag 4
		1...		CKW4WTO1	"B'10000000'" VOLATILE=ONECKPT=WTOR
		.1..		CKW4IGN1	"B'01000000'" VOLATILE=ONECKPT=IGNORE
		..1.		CKW4DIA1	"B'00100000'" VOLATILE=ONECKPT=DIALOG
		...1		CKW4WTOR	"B'00010000'" VOLATILE=ALLCKPT=WTOR
		.... 1...		CKW4IGNO	"B'00001000'" VOLATILE=ALLCKPT=IGNORE
		.... .1..		CKW4DIAG	"B'00000100'" VOLATILE=ALLCKPT=DIALOG
		.... ..1.		CKW4P1V	"B'00000010'" CKPT1 previously volatile
		1		CKW4P2V	"B'00000001'" CKPT2 previously volatile
9	(9)	BITSTRING	1	CKWFLAG5	CKPT Work Flag 5
		1...		CKW51VOL	"B'10000000'" CKPT1 is volatile
		.1..		CKW51NVL	"B'01000000'" CKPT1 is non-volatile
		..1.		CKW52VOL	"B'00100000'" CKPT2 is volatile
		...1		CKW52NVL	"B'00010000'" CKPT2 is non-volatile
		.... 1...		CKW5STRL	"B'00001000'" Need STRLIST on SDUMPX
		.... .1..		CKW5PROT	"B'00000100'" CKPT memory read-only
		.... ..1.		CKW5PMST	"B'00000010'" Master record is read-only
10	(A)	BITSTRING	1	CKWFLAG6	CKPT Work Flag 6
		1...		CKW6LOCK	"B'10000000'" Locking operation

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKW6READ	"B'01000000'" Read operation
		..1.		CKW6WRT	"B'00100000'" Write operation
		...1		CKW6FMT	"B'00010000'" Format operation
		.... 1...		CKW6EXT	"B'00001000'" Extend operation
		.... .1..		CKW6PRIM	"B'00000100'" Primary CKPT operation
		.... ..1.		CKW6LOKD	"B'00000010'" CKPT lock is held
11	(B)	BITSTRING	1	CKWFLAG7	CKPT Work Flag 7
		1...		CKW7WTCP	"B'10000000'" CKPT2 is write checkpoint
		.1..		CKW7RDCP	"B'01000000'" CKPT2 is read checkpoint
16	(10)	DBL WORD	8	CKWGTLKT	Time mbr got CKPT lock
24	(18)	DBL WORD	8	CKWRLSET	Time mbr gave up CKPT lock
32	(20)	DBL WORD	8	CKWPREVT	Time of last access to CKPT by mbr in CKWSTASY
40	(28)	DBL WORD	8	CKWSTHLD	Time of HOLD interval start
48	(30)	BITSTRING	1	CKWSCAN	$SCAN Work byte
		1...		CKWSCF	"B'10000000'" STRNAME= was specified
		.1..		CKWSDSN	"B'01000000'" DSN= was just specified
		..1.		CKWSVOL	"B'00100000'" VOL= was just specified
48	(30)	X'E0'	0	CKWSCNL	"CKWSCF+CKWSDSN+CKWSVOL" (NEW)CKPTn level bits
		.... ..1.		CKWCFER	"B'00000010'" CF str does not exist
		1		CKWSNCN	"B'00000001'" NEWCKPTn was changed
48	(30)	X'1'	0	CKWSCDL	"CKWSNCN" CKPTDEF level bits
49	(31)	BITSTRING	1	CKWRECF3	Shadow copy of CKRFLAG3
50	(32)	BITSTRING	2	CKWRESV1	Reserved for future IBM use
52	(34)	BITSTRING	4	CKWRCID	Connection id of member holding the lock if the reserve data set is on a structure
56	(38)	ADDRESS	4	CKWLKIT	Local KIT information
60	(3C)	ADDRESS	4	CKWLKITE	Last byte of local KIT
64	(40)	ADDRESS	4	CKWKTJQE	Address of JQE local KIT
68	(44)	ADDRESS	4	CKWKTJQX	Address of JQX local KIT
72	(48)	ADDRESS	4	CKWKTJOE	Address of JOE local KIT
76	(4C)	ADDRESS	4	CKWKTPST	Address of PST local KIT
80	(50)	ADDRESS	4	CKWKTESQ	Address of ESQ local KIT
84	(54)	SIGNED	2	CKWLKNUM	Number of local KITs
86	(56)	BITSTRING	1	CKWSTASY	CKPT status member
87	(57)	BITSTRING	1	CKWLSTSY	Prior memb that wrote CKPT
88	(58)	SIGNED	4	CKWMAXRC	Maximum # of 4K CKPT pages
92	(5C)	SIGNED	4	CKWVERSZ	Size of a CKPT version
96	(60)	SIGNED	4	CKWVERMR	Max size of base MSTR rec
100	(64)	SIGNED	4	CKWMSTBI	Base (31bit) mstr I/O len
104	(68)	SIGNED	4	CKWMSTBL	Base (31bit) mstr rec len
108	(6C)	ADDRESS	4	CKWCKMA	Address of CKM control blk
112	(70)	ADDRESS	4	CKWPPLA	ADDRESS OF PAGE POINTER LIST
116	(74)	ADDRESS	4	CKWCTWA	ADDRESS OF CKPT TRACE WORK AREA

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	ADDRESS	8	CKW4K64	4K pages 64 bit area
128	(80)	SIGNED	8	CKW4K64L	Segments for 4K page area
136	(88)	DBL WORD	8	CKWSHRTK	Token for our view of CKPT
144	(90)	ADDRESS	8	CKWIO64	I/O pages 64 bit area
152	(98)	SIGNED	8	CKWIO64L	Segments for I/O page area
160	(A0)	ADDRESS	8	CKWCAL1	1st CKPT change list elem
168	(A8)	ADDRESS	8	CKWCALC	Current CKPT change list
176	(B0)	ADDRESS	8	CKWCALCE	1 byte past end of CALC
184	(B8)	ADDRESS	8	CKWCTLB	Addr of CKPT control bytes
192	(C0)	ADDRESS	8	CKWCTLBI	Addr of CKPT I/O ctrl bytes
200	(C8)	ADDRESS	8	CKWCTLBE	End of I/O CTLB work area
208	(D0)	ADDRESS	8	CKWERREG(16)	Save area for regs if error
		Accumulators used to gather performance data for the JES2 checkpoint trace records. The data is accumulated across, at most, one checkpoint cycle (not all data is collected for an entire checkpoint cycle).			
336	(150)	SIGNED	4	CKWCKPTN	Number of $CKPTs issued
344	(158)	DBL WORD	8	CKWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
352	(160)	DBL WORD	8	CKWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
360	(168)	DBL WORD	8	CKWQSLST	Time of most recent $WAIT by PCE with $QSUSE
368	(170)	SIGNED	4	CKWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
372	(174)	SIGNED	4	CKWPAINR	Member pain rate
376	(178)	SIGNED	4	CKWPAINV	Member pain value
380	(17C)	SIGNED	4	CKWOHV	CKPT access overhead (in microsecs)
384	(180)	SIGNED	4	CKWQSMX	Longest QSUSE (microsecs)
388	(184)	SIGNED	4	CKWPNRC	Captured pain rate
392	(188)	SIGNED	4	CKWSAPCI	Avg SAPI call interval (in 1/100s of second)
396	(18C)	SIGNED	4	CKWSAPTM	Last update time (STCK)
396	(18C)	X'1E'	0	CKWSAPTH	"30" Stale detect interval (seconds)
400	(190)	SIGNED	4	CKWPSTCT	Devices $#POSTed on this member this ckpt cycle
404	(194)	SIGNED	4	CKWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
408	(198)	SIGNED	4	CKWOPT4K	Number of 4K pages skipped due to CKPT optimization
412	(19C)	SIGNED	4	CKWPAGCT	4K pages in current I/O
416	(1A0)	SIGNED	4	CKWCBCNT	CBs in change log for I/O
420	(1A4)	SIGNED	4	CKWCKPSZ	Size of checkpoint data
424	(1A8)	ADDRESS	4	CKWIOLST	Address of I/O needed list
428	(1AC)	BITSTRING	4		Reserved
		General parameter list			

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
432	(1B0)	DBL WORD	8	(0)	Align parmlist
432	(1B0)	BITSTRING	0	CKWPARMS(0)	GENERAL PARAMETER LIST
432	(1B0)	ADDRESS	4	CKWPARM1	PARAMETER WORD 1
436	(1B4)	ADDRESS	4	CKWPARM2	PARAMETER WORD 2
440	(1B8)	ADDRESS	4	CKWPARM3	PARAMETER WORD 3
444	(1BC)	ADDRESS	4	CKWPARM4	PARAMETER WORD 4
448	(1C0)	ADDRESS	4	CKWPARM5	PARAMETER WORD 5
452	(1C4)	ADDRESS	4	CKWPARM6	PARAMETER WORD 6
452	(1C4)	X'18'	0	CKWPARML	"*-CKWPARMS" LENGTH OF GENERAL PARM LIST
456	(1C8)	DBL WORD	8	(0)	Align next
456	(1C8)	BITSTRING	8	CKWLKEY1	CKPT1 LOCK KEY COMPARAND VAL
464	(1D0)	BITSTRING	8	CKWLKEY2	CKPT2 LOCK KEY COMPARAND VAL
472	(1D8)	BITSTRING	8	CKWLKVL1	CKPT1 LOCK KEY WRITE VALUE
480	(1E0)	BITSTRING	8	CKWLKVL2	CKPT2 LOCK KEY WRITE VALUE
488	(1E8)	SIGNED	4	CKWKT1RC	KTRK1IO - RETURN CODE SAVE
492	(1EC)	SIGNED	4	CKWCT1RC	CFTRK1IO - return code save
496	(1F0)	SIGNED	4	CKWCFAIL	CFTRK1IO - failing CKG
500	(1F4)	SIGNED	4	CKWDFAIL	KTRK1IO - failing CKG
504	(1F8)	ADDRESS	4	CKWCFTD	CF Trace data table
508	(1FC)	ADDRESS	4	CKWXREQ	Pointer to XREQ area
512	(200)	DBL WORD	8	CKWKT1PK	KTRK1IO - 1ST CCW PACKET (PSEUDO TIC CCW)
520	(208)	DBL WORD	8	CKWINITM	Time IRDA got the CKPT data set lock
528	(210)	DBL WORD	8	CKWCKWTM	Time CKPT started waiting for CKPT request (CKWAIT)
536	(218)	SIGNED	4	CKWCKWRE	R14 at time CKWAIT called
540	(21C)	SIGNED	4	CKWFMCKG	CKG work area - KFORMAT
544	(220)	SIGNED	2	CKWXCFAS	XCF ASID
546	(222)	BITSTRING	6		Reserved for future use
552	(228)	DBL WORD	8	(0)	Align next field
552	(228)	CHARACTER	8	CKWCFLVL	$CKPTLEV when CF subtask is posted
552	(228)	X'22C'	0	CKWCFLVN	"CKWCFLVL+4,4,C'F'" 4 byte level for PLX code
560	(230)	DBL WORD	8	CKWR2LEV	CKPT level at last Read 2
568	(238)	DBL WORD	8	CKWWRLEV	CKPT level at last IW/FW
		CKPT PCE uses special form of TQE			
576	(240)	DBL WORD	8	(0)	Alignment
576	(240)	BITSTRING	24	CKWKSTQE	TQE for CKPT services
600	(258)	SIGNED	4	CKWQECB(0)	KWRITE HASP272 msg ecb
624	(270)	CHARACTER	8	CKWQREPL	KWRITE HASP272 reply area
		$T CKPTDEF command parameter area This area is used by $T CKPTDEF CKPT1/2 commands to pass requested changes to the checkpoint reconfig process.			
632	(278)	BITSTRING	1	CKWDSETR	Requested function number

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		0 No function required			
632	(278)	X'1'	0	CKWDSCK1	"1" Update CKPT1 spec
632	(278)	X'2'	0	CKWDSCK2	"2" Update CKPT2 spec
632	(278)	X'3'	0	CKWDDCK1	"3" Make CKPT1 INUSE=NO
632	(278)	X'4'	0	CKWDDCK2	"4" Make CKPT2 INUSE=NO
632	(278)	X'5'	0	CKWDRCK1	"5" Make CKPT1 INUSE=YES
632	(278)	X'6'	0	CKWDRCK2	"6" Make CKPT2 INUSE=YES
633	(279)	BITSTRING	1	CKWDSWRK	SXIT work area for CKWDSETR
634	(27A)	BITSTRING	2		Reserved
636	(27C)	BITSTRING	72	CKWDHFE	Requested HFAME setting
708	(2C4)	BITSTRING	72	CKWDSVHF	Saved NEWCKPTn HFAME
780	(30C)	BITSTRING	4	CKWCONID	Dialog console id
		DOM IDs for HASP256 message			
784	(310)	SIGNED	4	CKWDRNC1	DOMID FOR $HASP256 NEWCKPT1
788	(314)	SIGNED	4	CKWDRNC2	DOMID FOR $HASP256 NEWCKPT2
792	(318)	CHARACTER	80	CKWMSG	MESSAGE WORK AREA
792	(318)	CHARACTER	70	CKWDIAGR	CKPTALOC error reason text
		------- $BLDMSG MF=L List form of $BLDMSG			
872	(368)	SIGNED	4	CKWBLMSG(0)	Control block ID
876	(36C)	BITSTRING	4		Console ID
880	(370)	ADDRESS	4		Address of the CART
884	(374)	ADDRESS	4		Pointer for JOBID
888	(378)	ADDRESS	4		Control block address
892	(37C)	ADDRESS	4		Display routine address
896	(380)	ADDRESS	4	(6)	6 word work area
920	(398)	ADDRESS	4		Caller's R11 value
924	(39C)	BITSTRING	2		ROUT code for Message
926	(39E)	BITSTRING	2		Not used
928	(3A0)	CHARACTER	4		Message ID
932	(3A4)	CHARACTER	1		Separator character
933	(3A5)	ADDRESS	1		Flag byte 1
934	(3A6)	ADDRESS	1		'DISPER'
935	(3A7)	ADDRESS	1		Flag byte 2
936	(3A8)	ADDRESS	1		Flag byte 3
937	(3A9)	ADDRESS	1		Severity of message
938	(3AA)	CHARACTER	8		Symbolic name of dest.
946	(3B2)	BITSTRING	14		Not used
960	(3C0)	ADDRESS	4	(0)	Ensure multiple of 4
960	(3C0)	ADDRESS	2	(0)	
960	(3C0)	SIGNED	4	CKWPPL(0)	PURGE PARAMETER LIST
976	(3D0)	ADDRESS	4	CKWSTAR	DVCT OR UCB ADDR, OR DEVTYPE
980	(3D4)	BITSTRING	1		FLAG BYTE

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
981	(3D5)	BITSTRING	1		RESERVED
982	(3D6)	ADDRESS	2		TRACK BALANCE
984	(3D8)	ADDRESS	1		RECORD NUMBER
985	(3D9)	ADDRESS	1		KEY LENGTH
986	(3DA)	ADDRESS	2		DATA LENGTH
988	(3DC)	SIGNED	4	(2)	Reserved
1000	(3E8)	DBL WORD	8	CKWRESVS(0)	ISGENQ MF=L begins here MACDATE -01/23/13-<2>
		1		CKWRESV_XCOND_NO	"X'01'"
		.... ..1.		CKWRESV_XCOND_YES	"X'02'"
		1		CKWRESV_XREQUEST_OBTAIN	"X'01'"
		.... ..1.		CKWRESV_XREQUEST_CHANGE	"X'02'"
		11		CKWRESV_XREQUEST_RELEASE	"X'03'"
0	(0)	X'3E8'	0	M00M1166	"CKWRESV" ++ ISGENQ NAME
1000	(3E8)	DBL WORD	8	CKWRESV(0)	++ ISGENQ PARM LIST
1000	(3E8)	BITSTRING	1	CKWRESV_XVERSION	++ INPUT XVERSION
1001	(3E9)	CHARACTER	1	CKWRESV_XRSV0000	++ RESERVED
1002	(3EA)	BITSTRING	1	CKWRESV_XSCOPE	++ XSCOPE
1002	(3EA)	X'1'	0	CKWRESV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
1002	(3EA)	X'2'	0	CKWRESV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
1002	(3EA)	X'3'	0	CKWRESV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
1002	(3EA)	X'3'	0	CKWRESV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
1003	(3EB)	BITSTRING	1	CKWRESV_XCONTROL	++ XCONTROL
1003	(3EB)	X'1'	0	CKWRESV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
1003	(3EB)	X'2'	0	CKWRESV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
1004	(3EC)	BITSTRING	1	CKWRESV_XFLAGS1	++ FIELD_LABEL
		.1..		CKWRESV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		CKWRESV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		CKWRESV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		CKWRESV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		CKWRESV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		CKWRESV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		1		CKWRESV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
1005	(3ED)	BITSTRING	1	CKWRESV_XFLAGS2	++ FIELD_LABEL
		1...		CKWRESV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		CKWRESV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		CKWRESV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		CKWRESV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		CKWRESV_XSCOPE_DO_NOT_OVERRIDE	

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		CKWRESV_XRNL_DO_NOT_OVERRIDE	
					"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	
					"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		1		CKWRESV_XRNAME_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
1006	(3EE)	BITSTRING	1	CKWRESV_XFLAGS3	++ FIELD_LABEL
		1...		CKWRESV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		1		CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
1007	(3EF)	BITSTRING	1	CKWRESV_XFLAGS4	++ FIELD_LABEL
		1		CKWRESV_XUCB@_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
1008	(3F0)	ADDRESS	8	CKWRESV_XRESTABLE_ADDR3164	++ ADDR3164
1016	(3F8)	ADDRESS	8	CKWRESV_XENQTOKEN_ADDR3164	++ ADDR3164
1024	(400)	ADDRESS	8	CKWRESV_XRETURNTABLE_ADDR3164	
1032	(408)	ADDRESS	8	CKWRESV_XENQTOKENTBL_ADDR3164	
1040	(410)	ADDRESS	8	CKWRESV_XRNAME_ADDR3164	++ ADDR3164
1048	(418)	ADDRESS	8	CKWRESV_XANSAREA_ADDR3164	++ ADDR3164
1056	(420)	CHARACTER	8	CKWRESV_XQNAME	++
1064	(428)	CHARACTER	16	CKWRESV_XOWNINGTTOKEN	++
1080	(438)	SIGNED	4	CKWRESV_XRESTABLE_ALET	++ ALET
1084	(43C)	SIGNED	4	CKWRESV_XENQTOKEN_ALET	++ ALET
1088	(440)	SIGNED	4	CKWRESV_XRETURNTABLE_ALET	++ ALET
1092	(444)	SIGNED	4	CKWRESV_XENQTOKENTBL_ALET	++ ALET
1096	(448)	SIGNED	4	CKWRESV_XRNAME_ALET	++ ALET
1100	(44C)	SIGNED	4	CKWRESV_XANSAREA_ALET	++ ALET
1104	(450)	SIGNED	4	CKWRESV_XANSLEN	++
1108	(454)	ADDRESS	4	CKWRESV_XECB@	++
1112	(458)	ADDRESS	4	CKWRESV_XUCB@	++
1116	(45C)	BITSTRING	2	CKWRESV_XNUMRES	++
1118	(45E)	BITSTRING	1	CKWRESV_XRNAMELEN	++
1119	(45F)	CHARACTER	1	CKWRESV_XRSV0001	++ RESERVED
1120	(460)	CHARACTER	8	CKWRESV_XRSVNNNN	++ RESERVED
1120	(460)	X'468'	0	CKWRESV_PL_END	"*" ++ END OF BASE PLIST
1002	(3EA)	BITSTRING	1	CKWRESV_XSCOPEVAL	++
1003	(3EB)	BITSTRING	1	CKWRESV_XCONTROLVAL	++
1128	(468)	X'80'	0	CKWRESVL	"*-CKWRESV" ++ LENGTH OF PLIST

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Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MACDATE -01/13/18-<0>			
0	(0)	X'3E8'	0	M00M1168	"CKWCFPUR" ++ IXLPURGE NAME
1000	(3E8)	DBL WORD	8	CKWCFPUR(0)	++ IXLPURGE PARM LIST
1000	(3E8)	BITSTRING	1	CKWCFPUR_XVERSION	++ INPUT XVERSION
1001	(3E9)	BITSTRING	1	CKWCFPUR_XSCOPEFLAGS	++ FIELD_LABEL
		1...		CKWCFPUR_XSCOPE_STOKEN	"B'10000000'" ++ XSCOPE.STOKEN KEYWORD
		.1..		CKWCFPUR_XSCOPE_TTOKEN	"B'01000000'" ++ XSCOPE.TTOKEN KEYWORD
		..1.		CKWCFPUR_XSCOPE_CONTOKEN	"B'00100000'" ++ XSCOPE.CONTOKEN KEYWORD
1002	(3EA)	CHARACTER	2	CKWCFPUR_XRSV0001	++ RESERVED
1004	(3EC)	CHARACTER	8	CKWCFPUR_XSTOKEN	++
1012	(3F4)	CHARACTER	16	CKWCFPUR_XTTOKEN	++
1028	(404)	CHARACTER	16	CKWCFPUR_XCONTOKEN	++
1044	(414)	CHARACTER	8	CKWCFPUR_XREQID	++
1044	(414)	X'34'	0	CKWCFPURL	"*-CKWCFPUR" ++ LENGTH OF PLIST
		IXLPURGE-0			
0	(0)	X'3E8'	0	CKWCFPRL	"CKWCFPUR,*-CKWCFPUR" Length of IXLPURGE
0	(0)	X'3E8'	0	M00M1169	"CKWXLIST" ++ IXLLIST NAME
1000	(3E8)	DBL WORD	8	CKWXLIST(0)	++ IXLLIST PARM LIST
1000	(3E8)	CHARACTER	96	CKWXLIST_XSHL_DATA	++ FIELD_LABEL
1096	(448)	CHARACTER	4	CKWXLIST_XMOB_DATA	++ FIELD_LABEL
1100	(44C)	CHARACTER	112	CKWXLIST_XMCB_DATA1	++ FIELD_LABEL
1212	(4BC)	CHARACTER	20	CKWXLIST_XMCB_DATA2	++ FIELD_LABEL
1212	(4BC)	X'4D0'	0	CKWXLIST_PL_END	"*" ++ END OF BASE PLIST
1000	(3E8)	BITSTRING	1	CKWXLIST_XVERSION	++ INPUT XVERSION
1001	(3E9)	BITSTRING	1	CKWXLIST_XCMDCODE	++ FIELD_LABEL
1002	(3EA)	CHARACTER	4	CKWXLIST_XSHLFLGS	++ FIELD_LABEL
1006	(3EE)	CHARACTER	2	CKWXLIST_XRSV0102	++ RESERVED
1008	(3F0)	BITSTRING	1	CKWXLIST_XCOMPCONID	++ FIELD_LABEL
1009	(3F1)	BITSTRING	1	CKWXLIST_XBUFSTGKEY	++
1010	(3F2)	BITSTRING	2	CKWXLIST_XANSLEN	++
1012	(3F4)	CHARACTER	16	CKWXLIST_XCONTOKEN	++
1028	(404)	CHARACTER	12	CKWXLIST_XDATADDR	++ FIELD_LABEL
1040	(410)	CHARACTER	8	CKWXLIST_XADJADDR	++ FIELD_LABEL
1048	(418)	CHARACTER	8	CKWXLIST_XANSADDR	++ FIELD_LABEL
1056	(420)	CHARACTER	8	CKWXLIST_XREQDATA	++
1064	(428)	CHARACTER	8	CKWXLIST_XREQID	++
1072	(430)	CHARACTER	16	CKWXLIST_XOPTIONALDATA	++ FIELD_LABEL
1088	(440)	CHARACTER	4	CKWXLIST_XSHLFLGSA	++ FIELD_LABEL
1092	(444)	CHARACTER	4	CKWXLIST_XRSV0103	++ RESERVED
1002	(3EA)	BITSTRING	1	CKWXLIST_XSHLFLGS1	++ FIELD_LABEL

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKWXLIST_KEYUSED_BUFFER	"B'10000000'" ++ KEYUSED.BUFFER KEYWORD
		.1..		CKWXLIST_KEYUSED_BUFLIST	"B'01000000'" ++ KEYUSED.BUFLIST KEYWORD
		..1.		CKWXLIST_KEYUSED_ADJAREA	"B'00100000'" ++ KEYUSED.ADJAREA KEYWORD
		...1		CKWXLIST_KEYUSED_ANSAREA	"B'00010000'" ++ KEYUSED.ANSAREA KEYWORD
		.... 1...		CKWXLIST_XPAGEABLE_NO	"B'00001000'" ++ XPAGEABLE.NO KEYWORD
		.... .1..		CKWXLIST_KEYUSED_BUFSTGKEY	"B'00000100'" ++ KEYUSED.BUFSTGKEY KEYWORD
		.... ..1.		CKWXLIST_XBUFADDRTYPE_REAL	"B'00000010'" ++ XBUFADDRTYPE.REAL KEYWORD
1003	(3EB)	BITSTRING	1	CKWXLIST_XSHLFLGS2	++ FIELD_LABEL
		1...		CKWXLIST_XMODE_SYNCECB	"B'10000000'" ++ XMODE.SYNCECB KEYWORD
		.1..		CKWXLIST_XMODE_SYNCEXIT	"B'01000000'" ++ XMODE.SYNCEXIT KEYWORD
		..1.		CKWXLIST_XMODE_SYNCTOKEN	"B'00100000'" ++ XMODE.SYNCTOKEN KEYWORD
		...1		CKWXLIST_XMODE_ASYNCECB	"B'00010000'" ++ XMODE.ASYNCECB KEYWORD
		.... 1...		CKWXLIST_XMODE_ASYNCEXIT	"B'00001000'" ++ XMODE.ASYNCEXIT KEYWORD
		.... .1..		CKWXLIST_XMODE_ASYNCTOKEN	"B'00000100'" ++ XMODE.ASYNCTOKEN KEYWORD
		.... ..1.		CKWXLIST_XMODE_ASYNCNORESPONSE	"B'00000010'" ++ XMODE.ASYNCNORESPONSE KEYWORD
1004	(3EC)	BITSTRING	1	CKWXLIST_XSHLFLGS3	++ FIELD_LABEL
		1...		CKWXLIST_XLOCKOPER_SET	"B'10000000'" ++ XLOCKOPER.SET KEYWORD
		.1..		CKWXLIST_XLOCKOPER_RESET	"B'01000000'" ++ XLOCKOPER.RESET KEYWORD
		..1.		CKWXLIST_XLOCKOPER_NOTHELD	"B'00100000'" ++ XLOCKOPER.NOTHELD KEYWORD
		...1		CKWXLIST_XLOCKOPER_HELDBY	"B'00010000'" ++ XLOCKOPER.HELDBY KEYWORD
		.... 1...		CKWXLIST_XLOCKOPER_TEST	"B'00001000'" ++ XLOCKOPER.TEST KEYWORD
		.... .1..		CKWXLIST_XLOCKOPER_READNEXT	"B'00000100'" ++ XLOCKOPER.READNEXT KEYWORD
		.... ..1.		CKWXLIST_XLOCKMODE_COND	"B'00000010'" ++ XLOCKMODE.COND KEYWORD
		1		CKWXLIST_KEYUSED_LOCKCOMP	"B'00000001'" ++ KEYUSED.LOCKCOMP KEYWORD
1005	(3ED)	BITSTRING	1	CKWXLIST_XSHLFLGS4	++ FIELD_LABEL
		1...		CKWXLIST_XTYPE_ADJDATA	"B'10000000'" ++ XTYPE.ADJDATA KEYWORD
		.1..		CKWXLIST_XTYPE_ECONTROLS	"B'01000000'" ++ XTYPE.ECONTROLS KEYWORD
		..1.		CKWXLIST_KEYUSED_EXTRESTOKEN	"B'00100000'" ++ KEYUSED.EXTRESTOKEN KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CKWXLIST_RCVRYREQASYNC	"B'00000001'" ++ MACUSED.LIST KEYWORD
1012	(3F4)	CHARACTER	13	CKWXLIST_XRSV0201	++ RESERVED
1025	(401)	BITSTRING	1	CKWXLIST_XCONID	++ FIELD_LABEL
1026	(402)	CHARACTER	2	CKWXLIST_XRSV0202	++ RESERVED
1028	(404)	SIGNED	4	CKWXLIST_XBUFFER_ALET	++ ALET
1032	(408)	SIGNED	4	CKWXLIST_XBUFSIZE	++
1036	(40C)	ADDRESS	4	CKWXLIST_XBUFFER	++
1028	(404)	SIGNED	4	CKWXLIST_XBUFALET	++
1032	(408)	SIGNED	4	CKWXLIST_XBUFLIST_ALET	++ ALET
1036	(40C)	ADDRESS	4	CKWXLIST_XBUFLIST	++
1040	(410)	SIGNED	4	CKWXLIST_XADJAREA_ALET	++ ALET
1044	(414)	ADDRESS	4	CKWXLIST_XADJAREA	++
1040	(410)	SIGNED	4	CKWXLIST_XMOSVECTOR_ALET	++ ALET
1044	(414)	ADDRESS	4	CKWXLIST_XMOSVECTOR	++
1048	(418)	SIGNED	4	CKWXLIST_XANSAREA_ALET	++ ALET
1052	(41C)	ADDRESS	4	CKWXLIST_XANSAREA	++
1056	(420)	ADDRESS	4	CKWXLIST_XREQECB	++
1060	(424)	CHARACTER	4	CKWXLIST_XRSV0203	++ RESERVED
1056	(420)	SIGNED	4	CKWXLIST_XREQTOKEN_ALET	++ ALET
1060	(424)	ADDRESS	4	CKWXLIST_XREQTOKEN	++
1088	(440)	BITSTRING	1	CKWXLIST_XSHLFLGSA1	++ FIELD_LABEL
		1...		CKWXLIST_MACUSED_IXLLSTC	"B'10000000'" ++ MACUSED.IXLLSTC KEYWORD
		.1..		CKWXLIST_MACUSED_IXLLSTE	"B'01000000'" ++ MACUSED.IXLLSTE KEYWORD
		..1.		CKWXLIST_MACUSED_IXLLSTM	"B'00100000'" ++ MACUSED.IXLLSTM KEYWORD
1089	(441)	BITSTRING	1	CKWXLIST_XSHLFLGSA2	++ FIELD_LABEL
1072	(430)	CHARACTER	8	CKWXLIST_XLOCKDATA	++
1080	(438)	CHARACTER	8	CKWXLIST_XRSV0204	++ RESERVED
1072	(430)	CHARACTER	16	CKWXLIST_XEXTRESTOKEN	++
1072	(430)	CHARACTER	8	CKWXLIST_XEXTRESTOKENTKN	++ FIELD_LABEL
1080	(438)	CHARACTER	8	CKWXLIST_XEXTRESTOKENPSVN	++ FIELD_LABEL
1096	(448)	BITSTRING	2	CKWXLIST_XCMDLEN	++ FIELD_LABEL
1098	(44A)	BITSTRING	1	CKWXLIST_XBUFNUM	++
1099	(44B)	BITSTRING	1	CKWXLIST_XBUFINCRNUM	++
1100	(44C)	CHARACTER	1	CKWXLIST_XCCA	++ FIELD_LABEL
1101	(44D)	CHARACTER	1	CKWXLIST_XCCB	++ FIELD_LABEL
1102	(44E)	CHARACTER	2	CKWXLIST_XRSV0501	++ RESERVED
1104	(450)	BITSTRING	4	CKWXLIST_XCMDFLGS1	++ FIELD_LABEL
1108	(454)	CHARACTER	4	CKWXLIST_XB8TO11	++ FIELD_LABEL
1112	(458)	SIGNED	4	CKWXLIST_XLOCKINDEX	++
1116	(45C)	SIGNED	4	CKWXLIST_XLISTNUM	++
1120	(460)	CHARACTER	12	CKWXLIST_XENTRYID	++
1132	(46C)	CHARACTER	8	CKWXLIST_XNEWVERS	++
1140	(474)	CHARACTER	8	CKWXLIST_XVERSCOMP	++

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1148	(47C)	CHARACTER	16	CKWXLIST_XAUTHCOMP1	++ FIELD_LABEL
1164	(48C)	CHARACTER	16	CKWXLIST_XNEWAUTH1	++ FIELD_LABEL
1180	(49C)	CHARACTER	32	CKWXLIST_XLISTDESC	++
1104	(450)	CHARACTER	1	CKWXLIST_XCMDFLGS1A	++ FIELD_LABEL
1105	(451)	CHARACTER	1	CKWXLIST_XCMDFLGS1B	++ FIELD_LABEL
1106	(452)	CHARACTER	1	CKWXLIST_XCMDFLGS1C	++ FIELD_LABEL
1107	(453)	CHARACTER	1	CKWXLIST_XCMDFLGS1D	++ FIELD_LABEL
1104	(450)	BITSTRING	1	CKWXLIST_XELEMNUM	++
1104	(450)	BITSTRING	1	CKWXLIST_XDBS	++ FIELD_LABEL
1107	(453)	CHARACTER	1	CKWXLIST_XUID3	++ FIELD_LABEL
1108	(454)	CHARACTER	3	CKWXLIST_XRSV0502	++ RESERVED
1111	(457)	CHARACTER	1	CKWXLIST_XCGLM	++ FIELD_LABEL
1108	(454)	BITSTRING	2	CKWXLIST_XSTARTINDEX	++
1110	(456)	BITSTRING	2	CKWXLIST_XENDINDEX	++
1112	(458)	SIGNED	4	CKWXLIST_XVECTORINDEX	++
1120	(460)	SIGNED	4	CKWXLIST_XLISTLIMIT	++
1124	(464)	CHARACTER	8	CKWXLIST_XRSV0601	++ RESERVED
1148	(47C)	CHARACTER	16	CKWXLIST_XENTRYNAME	++
1148	(47C)	CHARACTER	16	CKWXLIST_XENTRYKEY	++
1148	(47C)	CHARACTER	16	CKWXLIST_XKEYCOMP	++
1148	(47C)	CHARACTER	1	CKWXLIST_XUID2	++ FIELD_LABEL
1149	(47D)	CHARACTER	15	CKWXLIST_XRSV0602	++ RESERVED
1164	(48C)	CHARACTER	8	CKWXLIST_XRESTOKEN	++
1172	(494)	CHARACTER	8	CKWXLIST_XRSV0603	++ RESERVED
1164	(48C)	BITSTRING	2	CKWXLIST_XFIRSTELEM	++
1166	(48E)	BITSTRING	2	CKWXLIST_XLASTELEM	++
1168	(490)	CHARACTER	8	CKWXLIST_XRSV0604	++ RESERVED
1176	(498)	CHARACTER	1	CKWXLIST_XCMDFLGS2A	++ FIELD_LABEL
1177	(499)	CHARACTER	3	CKWXLIST_XRSV0605	++ RESERVED
1180	(49C)	CHARACTER	1	CKWXLIST_XUID1	++ FIELD_LABEL
1181	(49D)	CHARACTER	31	CKWXLIST_XRSV0606	++ RESERVED
1212	(4BC)	CHARACTER	16	CKWXLIST_XMOVETOKEY0	++ FIELD_LABEL
1228	(4CC)	SIGNED	4	CKWXLIST_XMOVETOLIST0	++ FIELD_LABEL
1232	(4D0)	X'E8'	0	CKWXLISTL	"*-CKWXLIST" ++ LENGTH OF PLIST
				IXLLIST-3	
0	(0)	X'3E8'	0	CKWCFLSL	"CKWXLIST,*-CKWXLIST" Length of IXLLIST
0	(0)	X'3E8'	0	M00M1170	"CKWIARV" ++ IARV64 NAME
1000	(3E8)	DBL WORD	8	CKWIARV(0)	++ IARV64 PARM LIST
1000	(3E8)	BITSTRING	1	CKWIARV_XVERSION	++ INPUT XVERSION
1001	(3E9)	BITSTRING	1	CKWIARV_XREQUEST	++ XREQUEST
1001	(3E9)	X'1'	0	CKWIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
1001	(3E9)	X'2'	0	CKWIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
1001	(3E9)	X'3'	0	CKWIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
1001	(3E9)	X'4'	0	CKWIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1001	(3E9)	X'5'	0	CKWIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
1001	(3E9)	X'6'	0	CKWIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
1001	(3E9)	X'7'	0	CKWIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
1001	(3E9)	X'8'	0	CKWIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
1001	(3E9)	X'9'	0	CKWIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
1001	(3E9)	X'A'	0	CKWIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
1001	(3E9)	X'B'	0	CKWIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
1001	(3E9)	X'C'	0	CKWIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
1001	(3E9)	X'D'	0	CKWIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
1001	(3E9)	X'E'	0	CKWIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
1001	(3E9)	X'F'	0	CKWIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
1001	(3E9)	X'10'	0	CKWIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
1001	(3E9)	X'11'	0	CKWIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
1001	(3E9)	X'12'	0	CKWIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
1002	(3EA)	BITSTRING	1	CKWIARV_XFLAGS0	++ FIELD_LABEL
		1...		CKWIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CKWIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CKWIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
1003	(3EB)	BITSTRING	1	CKWIARV_XKEY	++
1004	(3EC)	BITSTRING	1	CKWIARV_XFLAGS1	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CKWIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CKWIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CKWIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CKWIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CKWIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CKWIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		CKWIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1005	(3ED)	BITSTRING	1	CKWIARV_XFLAGS2	++ FIELD_LABEL
		1...		CKWIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CKWIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CKWIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CKWIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CKWIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CKWIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CKWIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		CKWIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
1006	(3EE)	BITSTRING	1	CKWIARV_XFLAGS3	++ FIELD_LABEL
		1...		CKWIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CKWIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CKWIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		CKWIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CKWIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CKWIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CKWIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		CKWIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
1007	(3EF)	BITSTRING	1	CKWIARV_XFLAGS4	++ FIELD_LABEL
		1...		CKWIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CKWIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CKWIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CKWIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CKWIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CKWIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CKWIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		CKWIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
1008	(3F0)	DBL WORD	8	CKWIARV_XSEGMENTS	++
1016	(3F8)	CHARACTER	16	CKWIARV_XTTOKEN	++
1032	(408)	DBL WORD	8	CKWIARV_XUSERTKN	++
1040	(410)	ADDRESS	8	CKWIARV_XORIGIN	++
1048	(418)	ADDRESS	8	CKWIARV_XRANGLIST	++
1056	(420)	ADDRESS	8	CKWIARV_XMEMOBJSTART	++

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1064	(428)	SIGNED	4	CKWIARV_XGUARDSIZE	++
1068	(42C)	SIGNED	4	CKWIARV_XCONVERTSIZE	++
1072	(430)	SIGNED	4	CKWIARV_XALETVALUE	++
1076	(434)	SIGNED	4	CKWIARV_XNUMRANGE	++
1080	(438)	ADDRESS	4	CKWIARV_XV64LISTPTR	++
1084	(43C)	SIGNED	4	CKWIARV_XV64LISTLENGTH	++
1088	(440)	DBL WORD	8	CKWIARV_XCONVERTSTART	++
1096	(448)	DBL WORD	8	CKWIARV_XCONVERTSIZE64	++
1104	(450)	DBL WORD	8	CKWIARV_XGUARDSIZE64	++
1112	(458)	CHARACTER	8	CKWIARV_XUSERTOKEN	++
1120	(460)	BITSTRING	1	CKWIARV_XDUMPPRIORITY	++
1121	(461)	BITSTRING	1	CKWIARV_XFLAGS5	++ FIELD_LABEL
		1...		CKWIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CKWIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CKWIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CKWIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CKWIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CKWIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CKWIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		CKWIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1122	(462)	BITSTRING	1	CKWIARV_XFLAGS6	++ FIELD_LABEL
		1...		CKWIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CKWIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CKWIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CKWIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CKWIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CKWIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CKWIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		CKWIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1123	(463)	BITSTRING	1	CKWIARV_XFLAGS7	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CKWIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CKWIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CKWIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CKWIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CKWIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CKWIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		CKWIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1124	(464)	BITSTRING	1	CKWIARV_XDUMP	++ XDUMP
1124	(464)	X'0'	0	CKWIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1124	(464)	X'1'	0	CKWIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1124	(464)	X'2'	0	CKWIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1124	(464)	X'3'	0	CKWIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1124	(464)	X'20'	0	CKWIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1124	(464)	X'21'	0	CKWIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1124	(464)	X'FF'	0	CKWIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1125	(465)	BITSTRING	1	CKWIARV_XFLAGS8	++ FIELD_LABEL
		1...		CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CKWIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		CKWIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		CKWIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		CKWIARV_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		CKWIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		CKWIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		1		CKWIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
1126	(466)	BITSTRING	2	CKWIARV_XOWNERASID	++
1128	(468)	BITSTRING	1	CKWIARV_XOPTIONVALUE	++
1129	(469)	CHARACTER	8	CKWIARV_XRSV0001	++ RESERVED
1137	(471)	CHARACTER	8	CKWIARV_XOWNERJOBNAME	++
1145	(479)	CHARACTER	7	CKWIARV_XRSV0004	++ RESERVED
1152	(480)	ADDRESS	8	CKWIARV_XDMAPAGETABLE	++
1160	(488)	DBL WORD	8	CKWIARV_XUNITS	++
1168	(490)	BITSTRING	1	CKWIARV_XFLAGS9	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CKWIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CKWIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CKWIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CKWIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CKWIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1169	(491)	BITSTRING	1	CKWIARV_XFLAGS10	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		CKWIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		CKWIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
1170	(492)	CHARACTER	6	CKWIARV_XRSV0005	++ RESERVED
1170	(492)	X'498'	0	CKWIARV_PL_END	"*" ++ END OF BASE PLIST
1032	(408)	DBL WORD	8	CKWIARV_XOUTMOTKN	++
1032	(408)	DBL WORD	8	CKWIARV_XMOTKN	++
1056	(420)	ADDRESS	8	CKWIARV_XINORIGIN	++
1176	(498)	X'B0'	0	CKWIARVL	"*-CKWIARV" ++ LENGTH OF PLIST
				IARV64-6	
1176	(498)	ADDRESS	8	CKWI64PT	Rangelist pointer
1184	(4A0)	BITSTRING	16	CKWI64RG(0)	Rangelist
1184	(4A0)	ADDRESS	8	CKWI64RA	Address of area
1192	(4A8)	DBL WORD	8	CKWI64RC	Count of areas
1232	(4D0)	SIGNED	4	(0)	Align next
1232	(4D0)	BITSTRING	32	CKWVRLA	VRL entry work area
				IARVSERV MF=(L,CKWVSERV) List form of IARVSERV macro MACDATE -03/01/19-<0>	
0	(0)	X'4F0'	0	M00M1171	"CKWVSERV" ++ IARVSERV NAME
1264	(4F0)	DBL WORD	8	CKWVSERV(0)	++ IARVSERV PARM LIST
1264	(4F0)	BITSTRING	1	CKWVSERV_XVERSION	++ INPUT XVERSION
1265	(4F1)	BITSTRING	1	CKWVSERV_XSERVICE	++ XSERVICE
1265	(4F1)	X'1'	0	CKWVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1265	(4F1)	X'2'	0	CKWVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1265	(4F1)	X'3'	0	CKWVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1265	(4F1)	X'4'	0	CKWVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1265	(4F1)	X'5'	0	CKWVSERV_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
1265	(4F1)	X'6'	0	CKWVSERV_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
1266	(4F2)	BITSTRING	1	CKWVSERV_XFLAGS1	++ FIELD_LABEL
		1...		CKWVSERV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		CKWVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CKWVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CKWVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CKWVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CKWVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CKWVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		1		CKWVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1267	(4F3)	BITSTRING	1	CKWVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CKWVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		CKWVSERV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		CKWVSERV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		CKWVSERV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		CKWVSERV_XSINGLESPACE_YES	"B'00001000'" ++ XSINGLESPACE.YES KEYWORD
1268	(4F4)	SIGNED	4	CKWVSERV_XNUMRANGE	++
1272	(4F8)	ADDRESS	4	CKWVSERV_XRANGLIST	++
1272	(4F8)	X'4FC'	0	CKWVSERV_PL_END	"*" ++ END OF BASE PLIST
1272	(4F8)	ADDRESS	4	CKWVSERV_XRANGLIST64	++
1276	(4FC)	X'C'	0	CKWVSERVL	"*-CKWVSERV" ++ LENGTH OF PLIST
				IARVSERV-0	
1280	(500)	DBL WORD	8	CKWRESTM	Time CKPT got the reserve
				Data used for CKPT tuning purposes	
1288	(508)	DBL WORD	8	CKWTSECT(0)	CKPT tuning section
1288	(508)	DBL WORD	8	CKWAUTOT	Time of last start/stop
1296	(510)	SIGNED	4	CKWHOLDM	Manual HOLD
1300	(514)	SIGNED	4	CKWLDRM	Manual MINDORM
1304	(518)	SIGNED	4	CKWHDRM	Manual MAXDORM
1308	(51C)	SIGNED	4	CKWNHOLD	Nominal HOLD
1312	(520)	BITSTRING	1	CKWTFLG1	Processing flags
		1...		CKWT1ON	"B'10000000'" CKPT tuning is on
		.1..		CKWT1SM	"B'01000000'" Single member mode
		..1.		CKWT1TCM	"B'00100000'" Ckpt tuning changes made
		...1		CKWT1RSN	"B'00010000'" Ckpt tuning reset needed
1313	(521)	BITSTRING	1		Reserved
1314	(522)	BITSTRING	2	CKWTSEQN	Ckpt tuning cycle number
1316	(524)	BITSTRING	2	CKWTRCT	Report counter
1318	(526)	BITSTRING	2	CKWTRCTR	Nr of cycles remaining before report
1320	(528)	SIGNED	4	CKWBCL	Length of basic cycle
1324	(52C)	SIGNED	4	CKWFHOLD	"fair-share" HOLD value
1328	(530)	DBL WORD	8	CKWTOTPN	Total pain
1336	(538)	SIGNED	4	CKWALCH	Allocated CKPT time

Table 85. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1340	(53C)	SIGNED	4	CKWAVLH	Available CKPT time
1344	(540)	SIGNED	4	CKWMAXPN	Maximum pain
1348	(544)	ADDRESS	4	CKWMAXM	Ptr to member entry with maximum pain
1352	(548)	SIGNED	4	CKWCKRIT	Ckpt request interval total (in 1/100s of second)
1356	(54C)	SIGNED	4	CKWCKRIC	Nr of contributors
1360	(550)	SIGNED	4	CKWCKRMC	This member's contribution
1364	(554)	SIGNED	4	CKWADJMN	Number of adjustable mbrs
1368	(558)	BITSTRING	1	CKWADJMA	Arrays of pointers to entries in CKWMBRDT
		Tuning data for all members. Entries in this array are mapped by CKWMBRDE.			
1496	(5D8)	BITSTRING	1536	CKWMBRDT	Member data
3032	(BD8)	BITSTRING	4	CKWRMASK	Reported members mask
3036	(BDC)	BITSTRING	4	CKWWMASK	Work mask for messages
3040	(BE0)	BITSTRING	4	CKWZMASK	Reset value for CKWRMASK
3044	(BE4)	BITSTRING	4	CKWLMASK	Last action mask
3048	(BE8)	ADDRESS	4	CKWCTMSG	Ptr to tuning XREQ buffer
3052	(BEC)	BITSTRING	4		Reserved
3052	(BEC)	X'6E8'	0	CKWTSIZE	"*-CKWTSECT" Length of tuning section
		DOMs used for Privilege Support 1405 message - Resource shortage encountered for			
3056	(BF0)	SIGNED	4	CKWBEDON	DOM ID for 1405 - BERTs
3060	(BF4)	SIGNED	4	CKWJODON	DOM ID for 1405 - JOEs
3064	(BF8)	SIGNED	4	CKWTRDON	DOM ID for 1405 - TRACKs
3068	(BFC)	SIGNED	4	CKWJQDON	DOM ID for 1405 - JQEs
3068	(BFC)	X'C00'	0	CKWLNGTH	"*-CKW" LENGTH OF CKW

Table 86. Structure CKWMBRDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKWMBRDE	, Member tuning data
0	(0)	BITSTRING	1	CKWMID	Member id
1	(1)	BITSTRING	3		Reserved
4	(4)	SIGNED	4	CKWMRHLD	Reported HOLD
8	(8)	SIGNED	4	CKWMCHLD	Calculated HOLD
12	(C)	SIGNED	4	CKWMRLDR	Reported min DORMANCY
16	(10)	SIGNED	4	CKWMCLDR	Calculated min DORMANCY
20	(14)	SIGNED	4	CKWMRHDR	Reported max DORMANCY
24	(18)	SIGNED	4	CKWMCHDR	Calculated max DORMANCY
28	(1C)	SIGNED	4	CKWMQSMX	Longest QSUSE (microsecs)
32	(20)	SIGNED	4	CKWMOHV	CKPT overhead (microsecs)
36	(24)	SIGNED	4	CKWMPNR	Pain rate
40	(28)	SIGNED	4	CKWMPNV	Pain value
44	(2C)	SIGNED	4	CKWMCKRI	Avg ckpt request interval (in 1/100s of second)

Table 86. Structure CKWMBRDE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	X'30'	0	CKWMSIZE	"*-CKWMBRDE" Size of member entry

Table 87. Cross Reference for $CKW

Name	Offset	Hex Tag
CKW	0	
CKWADJMA	558	
CKWADJMN	554	
CKWALCH	538	
CKWAUTOT	508	
CKWAVLH	53C	
CKWBCL	528	
CKWBEDON	BF0	
CKWBLMSG	368	C2D3C440
CKWCALC	A8	
CKWCALCE	B0	
CKWCAL1	A0	
CKWCBCNT	1A0	
CKWCFAIL	1F0	
CKWCFER	30	2
CKWCFLSL	0	3E8
CKWCFLVL	228	
CKWCFLVN	228	22C
CKWCFPRL	0	3E8
CKWCFPUR	3E8	
CKWCFPUR_XCONTOKEN	404	
CKWCFPUR_XREQID	414	
CKWCFPUR_XRSV0001	3EA	
CKWCFPUR_XSCOPE_CONTOKEN	3E9	20
CKWCFPUR_XSCOPE_STOKEN	3E9	80
CKWCFPUR_XSCOPE_TTOKEN	3E9	40
CKWCFPUR_XSCOPEFLAGS	3E9	
CKWCFPUR_XSTOKEN	3EC	
CKWCFPUR_XTTOKEN	3F4	
CKWCFPUR_XVERSION	3E8	
CKWCFPURL	414	34
CKWCFTD	1F8	
CKWCKMA	6C	
CKWCKPSZ	1A4	
CKWCKPTN	150	
CKWCKRIC	54C	
CKWCKRIT	548	
CKWCKRMC	550	
CKWCKWRE	218	
CKWCKWTM	210	
CKWCONID	30C	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWCTLB	B8	
CKWCTLBE	C8	
CKWCTLBI	C0	
CKWCTMSG	BE8	
CKWCTWA	74	
CKWCT1RC	1EC	
CKWDDCK1	278	3
CKWDDCK2	278	4
CKWDFAIL	1F4	
CKWDHFE	27C	
CKWDIAGR	318	
CKWDRCK1	278	5
CKWDRCK2	278	6
CKWDRNC1	310	
CKWDRNC2	314	
CKWDSCK1	278	1
CKWDSCK2	278	2
CKWDSETR	278	
CKWDSVHF	2C4	
CKWDSWRK	279	
CKWERREG	D0	
CKWFHOLD	52C	
CKWFLAG1	5	
CKWFLAG2	6	
CKWFLAG3	7	
CKWFLAG4	8	
CKWFLAG5	9	
CKWFLAG6	A	
CKWFLAG7	B	
CKWFMCKG	21C	
CKWGTLKT	10	
CKWHDRM	518	
CKWHOLDM	510	
CKWIARV	3E8	
CKWIARV_KEYUSED_CONVERTSIZE64	3EC	4
CKWIARV_KEYUSED_CONVERTSTART	3EC	10
CKWIARV_KEYUSED_DUMP	463	80
CKWIARV_KEYUSED_GUARDSIZE64	3EC	8
CKWIARV_KEYUSED_INORIGIN	491	80
CKWIARV_KEYUSED_KEY	3EC	80
CKWIARV_KEYUSED_MOTKN	3EC	2
CKWIARV_KEYUSED_OPTIONVALUE	463	40
CKWIARV_KEYUSED_OWNERJOBNAME	3EC	1
CKWIARV_KEYUSED_SVCDUMPRGN	463	20
CKWIARV_KEYUSED_TTOKEN	3EC	20
CKWIARV_KEYUSED_UNITS	490	80

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV_KEYUSED_USERTKN	3EC	40
CKWIARV_PL_END	492	498
CKWIARV_XAFFINITY_SYSTEM	3EE	40
CKWIARV_XALETVALUE	430	
CKWIARV_XAMOUNTSIZE_1MEG	462	2
CKWIARV_XAMOUNTSIZE_4K	462	4
CKWIARV_XATTRIBUTE_DEFS	463	10
CKWIARV_XATTRIBUTE_NOTOWNERGONE	463	4
CKWIARV_XATTRIBUTE_OWNERGONE	463	8
CKWIARV_XCHANGEACCESS_GLOBAL	3ED	8
CKWIARV_XCLEAR_NO	3EF	40
CKWIARV_XCOND_YES	3ED	80
CKWIARV_XCONTROL_AUTH	3ED	20
CKWIARV_XCONVERT_FROMGUARD	3EF	2
CKWIARV_XCONVERT_TOGUARD	3EF	4
CKWIARV_XCONVERTSIZE	42C	
CKWIARV_XCONVERTSIZE64	448	
CKWIARV_XCONVERTSTART	440	
CKWIARV_XDETACHFIXED_YES	462	20
CKWIARV_XDISCARDPAGES_YES	0	4
CKWIARV_XDMAPAGETABLE	480	
CKWIARV_XDOAUTHCHECKS_YES	462	10
CKWIARV_XDUMP	464	
CKWIARV_XDUMP_ALL	464	FF
CKWIARV_XDUMP_LIKECSA	464	3
CKWIARV_XDUMP_LIKELSQA	464	21
CKWIARV_XDUMP_LIKERGN	464	20
CKWIARV_XDUMP_LIKESQA	464	2
CKWIARV_XDUMP_NO	464	1
CKWIARV_XDUMP_NONE	464	0
CKWIARV_XDUMPPRIORITY	460	
CKWIARV_XDUMPPROTOCOL_YES	461	80
CKWIARV_XEXECUTABLE_NO	0	1
CKWIARV_XEXECUTABLE_YES	0	2
CKWIARV_XFLAGS0	3EA	
CKWIARV_XFLAGS1	3EC	
CKWIARV_XFLAGS10	491	
CKWIARV_XFLAGS2	3ED	
CKWIARV_XFLAGS3	3EE	
CKWIARV_XFLAGS4	3EF	
CKWIARV_XFLAGS5	461	
CKWIARV_XFLAGS6	462	
CKWIARV_XFLAGS7	463	
CKWIARV_XFLAGS8	465	
CKWIARV_XFLAGS9	490	
CKWIARV_XFPROT_NO	3ED	40

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XGUARDLOC_HIGH	3ED	10
CKWIARV_XGUARDSIZE	428	
CKWIARV_XGUARDSIZE64	450	
CKWIARV_XINORIGIN	420	
CKWIARV_XKEEPREAL_NO	3EF	1
CKWIARV_XKEY	3EB	
CKWIARV_XLOCALSYSAREA_YES	462	8
CKWIARV_XLONG_NO	3EF	80
CKWIARV_XMATCH_MOTOKEN	3EA	20
CKWIARV_XMATCH_USERTOKEN	3EE	80
CKWIARV_XMEMLIMIT_COND	462	1
CKWIARV_XMEMLIMIT_NO	462	40
CKWIARV_XMEMOBJSTART	420	
CKWIARV_XMOTKN	408	
CKWIARV_XMOTKNCREATOR_SYSTEM	3EA	40
CKWIARV_XMOTKNSOURCE_SYSTEM	3EA	80
CKWIARV_XNUMRANGE	434	
CKWIARV_XOPTIONVALUE	468	
CKWIARV_XORDER_DUMPPRIORITY	461	40
CKWIARV_XORIGIN	410	
CKWIARV_XOUTMOTKN	408	
CKWIARV_XOWNER_NO	3EE	10
CKWIARV_XOWNERASID	466	
CKWIARV_XOWNERCOM_BYASID	461	1
CKWIARV_XOWNERCOM_HOME	461	8
CKWIARV_XOWNERCOM_PRIMARY	461	4
CKWIARV_XOWNERCOM_SYSTEM	461	2
CKWIARV_XOWNERJOBNAME	471	
CKWIARV_XPAGEFRAMESIZE_ALL	3ED	1
CKWIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CKWIARV_XPAGEFRAMESIZE_MAX	3ED	2
CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	465	80
CKWIARV_XPAGEFRAMESIZE_1M	490	10
CKWIARV_XPAGEFRAMESIZE_1MEG	3ED	4
CKWIARV_XPAGEFRAMESIZE_2G	490	8
CKWIARV_XRANGLIST	418	
CKWIARV_XREQUEST	3E9	
CKWIARV_XREQUEST_CHANGEACCESS	3E9	B
CKWIARV_XREQUEST_CHANGEGUARD	3E9	D
CKWIARV_XREQUEST_COUNTPAGES	3E9	10
CKWIARV_XREQUEST_DETACH	3E9	3
CKWIARV_XREQUEST_DISCARDDATA	3E9	7
CKWIARV_XREQUEST_GETCOMMON	3E9	F
CKWIARV_XREQUEST_GETSHARED	3E9	2
CKWIARV_XREQUEST_GETSTOR	3E9	1
CKWIARV_XREQUEST_LIST	3E9	E

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XREQUEST_PAGEFIX	3E9	4
CKWIARV_XREQUEST_PAGEIN	3E9	8
CKWIARV_XREQUEST_PAGEOUT	3E9	6
CKWIARV_XREQUEST_PAGEUNFIX	3E9	5
CKWIARV_XREQUEST_PCIEFIX	3E9	11
CKWIARV_XREQUEST_PCIEUNFIX	3E9	12
CKWIARV_XREQUEST_PROTECT	3E9	9
CKWIARV_XREQUEST_SHAREMEMOBJ	3E9	A
CKWIARV_XREQUEST_UNPROTECT	3E9	C
CKWIARV_XRSV0001	469	
CKWIARV_XRSV0004	479	
CKWIARV_XRSV0005	492	
CKWIARV_XSADMP_NO	0	10
CKWIARV_XSADMP_YES	0	20
CKWIARV_XSEGMENTS	3F0	
CKWIARV_XSENSITIVE_NO	491	20
CKWIARV_XSENSITIVE_YES	491	40
CKWIARV_XSVCDUMPRGN_ALL	3EE	1
CKWIARV_XSVCDUMPRGN_NO	3EE	4
CKWIARV_XTRACKINFO_YES	463	2
CKWIARV_XTTOKEN	3F8	
CKWIARV_XTYPE_DREF	461	10
CKWIARV_XTYPE_FIXED	490	4
CKWIARV_XTYPE_PAGEABLE	461	20
CKWIARV_XUNITS	488	
CKWIARV_XUNITSIZE_1M	490	40
CKWIARV_XUNITSIZE_2G	490	20
CKWIARV_XUNLOCKED_YES	463	1
CKWIARV_XUSERTKN	408	
CKWIARV_XUSERTOKEN	458	
CKWIARV_XUSE2GTO32G_YES	3EE	20
CKWIARV_XUSE2GTO64G_YES	0	8
CKWIARV_XVERSION	3E8	
CKWIARV_XVIEW_HIDDEN	3EF	8
CKWIARV_XVIEW_READONLY	3EF	20
CKWIARV_XVIEW_SHAREDWRITE	3EF	10
CKWIARV_XV64COMMON_NO	462	80
CKWIARV_XV64LISTLENGTH	43C	
CKWIARV_XV64LISTPTR	438	
CKWIARV_XV64SELECT_NO	3EE	8
CKWIARV_XV64SHARED_NO	3EE	2
CKWIARVL	498	B0
CKWID	0	C3D2E640
CKWINITM	208	
CKWIOLST	1A8	
CKWIO64	90	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIO64L	98	
CKWI64PT	498	
CKWI64RA	4A0	
CKWI64RC	4A8	
CKWI64RG	4A0	
CKWJODON	BF4	
CKWJQDON	BFC	
CKWKSTQE	240	
CKWKTESQ	50	
CKWKTJOE	48	
CKWKTJQE	40	
CKWKTJQX	44	
CKWKTPST	4C	
CKWKT1PK	200	
CKWKT1RC	1E8	
CKWLDIAG	5	8
CKWLDRM	514	
CKWLKEY1	1C8	
CKWLKEY2	1D0	
CKWLKIT	38	
CKWLKITE	3C	
CKWLKNUM	54	
CKWLKVL1	1D8	
CKWLKVL2	1E0	
CKWLMASK	BE4	
CKWLNGTH	BFC	C00
CKWLSTSY	57	
CKWMAXM	544	
CKWMAXPN	540	
CKWMAXRC	58	
CKWMBRDE	0	
CKWMBRDT	5D8	
CKWMCHDR	18	
CKWMCHLD	8	
CKWMCKRI	2C	
CKWMCLDR	10	
CKWMID	0	
CKWMOHV	20	
CKWMPNR	24	
CKWMPNV	28	
CKWMQSMX	1C	
CKWMRHDR	14	
CKWMRHLD	4	
CKWMRLDR	C	
CKWMSG	318	
CKWMSIZE	2C	30

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWMSTBI	64	
CKWMSTBL	68	
CKWMVSWT	158	
CKWNHOLD	51C	
CKWOHV	17C	
CKWOPTCK	194	
CKWOPT4K	198	
CKWPAGCT	19C	
CKWPAINR	174	
CKWPAINV	178	
CKWPARML	1C4	18
CKWPARMS	1B0	
CKWPARM1	1B0	
CKWPARM2	1B4	
CKWPARM3	1B8	
CKWPARM4	1BC	
CKWPARM5	1C0	
CKWPARM6	1C4	
CKWPNRC	184	
CKWPPL	3C0	0
CKWPPLA	70	
CKWPREVT	20	
CKWPSTCT	190	
CKWQECB	258	
CKWQREPL	270	40404040
CKWQSLST	168	
CKWQSMX	180	
CKWQSUSE	160	
CKWRCID	34	
CKWRECF3	31	
CKWRESTM	500	
CKWRESV	3E8	
CKWRESV_KEYUSED_CONTROL	3EE	80
CKWRESV_PL_END	460	468
CKWRESV_XANSAREA_ADDR3164	418	
CKWRESV_XANSAREA_ALET	44C	
CKWRESV_XANSLEN	450	
CKWRESV_XCOND_NO	0	1
CKWRESV_XCOND_YES	0	2
CKWRESV_XCONTENTIONACT_FAIL	3EC	20
CKWRESV_XCONTROL	3EB	
CKWRESV_XCONTROL_DO_NOT_OVERRIDE	3ED	10
CKWRESV_XCONTROL_EXCLUSIVE	3EB	2
CKWRESV_XCONTROL_SHARED	3EB	1
CKWRESV_XCONTROLVAL	3EB	
CKWRESV_XECB@	454	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWRESV_XENQMAX_NO	3EC	4
CKWRESV_XENQTOKEN_ADDR3164	3F8	
CKWRESV_XENQTOKEN_ALET	43C	
CKWRESV_XENQTOKENTBL_ADDR3164	408	
CKWRESV_XENQTOKENTBL_ALET	444	
CKWRESV_XFLAGS1	3EC	
CKWRESV_XFLAGS2	3ED	
CKWRESV_XFLAGS3	3EE	
CKWRESV_XFLAGS4	3EF	
CKWRESV_XNUMRES	45C	
CKWRESV_XOWNINGTTOKEN	428	
CKWRESV_XQNAME	420	
CKWRESV_XQNAME_DO_NOT_OVERRIDE	3EC	1
CKWRESV_XREQUEST_CHANGE	0	2
CKWRESV_XREQUEST_OBTAIN	0	1
CKWRESV_XREQUEST_RELEASE	0	3
CKWRESV_XRESERVEVOLUME_YES	3ED	80
CKWRESV_XRESLIST_YES	3EC	8
CKWRESV_XRESTABLE_ADDR3164	3F0	
CKWRESV_XRESTABLE_ALET	438	
CKWRESV_XRETURNTABLE_ADDR3164	400	
CKWRESV_XRETURNTABLE_ALET	440	
CKWRESV_XRNAME_ADDR3164	410	
CKWRESV_XRNAME_ALET	448	
CKWRESV_XRNAME_DO_NOT_OVERRIDE	3ED	1
CKWRESV_XRNAMELEN	45E	
CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	3EE	1
CKWRESV_XRNL_DO_NOT_OVERRIDE	3ED	4
CKWRESV_XRNL_NO	3EC	2
CKWRESV_XRSVNNNN	460	
CKWRESV_XRSV0000	3E9	
CKWRESV_XRSV0001	45F	
CKWRESV_XSCOPE	3EA	
CKWRESV_XSCOPE_DO_NOT_OVERRIDE	3ED	8
CKWRESV_XSCOPE_STEP	3EA	1
CKWRESV_XSCOPE_SYSPLEX	3EA	3
CKWRESV_XSCOPE_SYSTEM	3EA	2
CKWRESV_XSCOPE_SYSTEMS	3EA	3
CKWRESV_XSCOPEVAL	3EA	
CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	3ED	2
CKWRESV_XSYNCHRES_NO	3ED	20
CKWRESV_XSYNCHRES_YES	3ED	40
CKWRESV_XTEST_YES	3EC	40
CKWRESV_XUCB@	458	
CKWRESV_XUCB@_DO_NOT_OVERRIDE	3EF	1
CKWRESV_XVERSION	3E8	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWRESV_XWAITTYPE_ECB	3EC	10
CKWRESVL	468	80
CKWRESVS	3E8	
CKWRESV1	32	
CKWRLSET	18	
CKWRMASK	BD8	
CKWR2LEV	230	
CKWSAPCI	188	
CKWSAPTH	18C	1E
CKWSAPTM	18C	
CKWSCAN	30	
CKWSCDL	30	1
CKWSCF	30	80
CKWSCNL	30	E0
CKWSDSN	30	40
CKWSHRTK	88	
CKWSNCN	30	1
CKWSTAR	3D0	
CKWSTASY	56	
CKWSTHLD	28	
CKWSVOL	30	20
CKWTFLG1	520	
CKWTOTPN	530	
CKWTRCT	524	
CKWTRCTR	526	
CKWTRDON	BF8	
CKWTSECT	508	
CKWTSEQN	522	
CKWTSIZE	BEC	6E8
CKWT1ON	520	80
CKWT1RSN	520	10
CKWT1SM	520	40
CKWT1TCM	520	20
CKWVERMR	60	
CKWVERN	4	4
CKWVERSN	4	
CKWVERSZ	5C	
CKWVRLA	4D0	
CKWVSERV	4F0	
CKWVSERV_CHANGEACCESS	4F1	3
CKWVSERV_COPYNOW	4F2	2
CKWVSERV_KEYUSED_RANGLIST64	4F3	10
CKWVSERV_PL_END	4F8	4FC
CKWVSERV_RETAIN_YES	4F2	1
CKWVSERV_SHARE	4F1	1
CKWVSERV_SHARESEG	4F1	4

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWVSERV_SHARE64	4F1	5
CKWVSERV_TARGET_VIEW_LS	4F2	8
CKWVSERV_TARGET_VIEW_NA	4F2	4
CKWVSERV_TARGET_VIEW_RO	4F2	80
CKWVSERV_TARGET_VIEW_SW	4F2	40
CKWVSERV_TARGET_VIEW_TW	4F2	10
CKWVSERV_TARGET_VIEW_UW	4F2	20
CKWVSERV_UNSHARE	4F1	2
CKWVSERV_UNSHARE64	4F1	6
CKWVSERV_XFLAGS1	4F2	
CKWVSERV_XFLAGS2	4F3	
CKWVSERV_XMAKETARGETWRITE_YES	4F3	20
CKWVSERV_XNUMRANGE	4F4	
CKWVSERV_XPARTIALPAGE_YES	4F3	80
CKWVSERV_XRANGLIST	4F8	
CKWVSERV_XRANGLIST64	4F8	
CKWVSERV_XSERVICE	4F1	
CKWVSERV_XSINGLESPACE_YES	4F3	8
CKWVSERV_XTARGETMAYBEREAD_YES	4F3	40
CKWVSERV_XVERSION	4F0	
CKWVSERVL	4FC	C
CKWWMASK	BDC	
CKWWRLEV	238	
CKWWTTM	170	
CKWXCFAS	220	
CKWXLIST	3E8	
CKWXLIST_KEYUSED_ADJAREA	3EA	20
CKWXLIST_KEYUSED_ANSAREA	3EA	10
CKWXLIST_KEYUSED_BUFFER	3EA	80
CKWXLIST_KEYUSED_BUFLIST	3EA	40
CKWXLIST_KEYUSED_BUFSTGKEY	3EA	4
CKWXLIST_KEYUSED_EXTRESTOKEN	3ED	20
CKWXLIST_KEYUSED_LOCKCOMP	3EC	1
CKWXLIST_MACUSED_IXLLSTC	440	80
CKWXLIST_MACUSED_IXLLSTE	440	40
CKWXLIST_MACUSED_IXLLSTM	440	20
CKWXLIST_PL_END	4BC	4D0
CKWXLIST_RCVRYREQASYNC	3ED	1
CKWXLIST_XADJADDR	410	
CKWXLIST_XADJAREA	414	
CKWXLIST_XADJAREA_ALET	410	
CKWXLIST_XANSADDR	418	
CKWXLIST_XANSAREA	41C	
CKWXLIST_XANSAREA_ALET	418	
CKWXLIST_XANSLEN	3F2	
CKWXLIST_XAUTHCOMP1	47C	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XBUFADDRTYPE_REAL	3EA	2
CKWXLIST_XBUFALET	404	
CKWXLIST_XBUFFER	40C	
CKWXLIST_XBUFFER_ALET	404	
CKWXLIST_XBUFINCRNUM	44B	
CKWXLIST_XBUFLIST	40C	
CKWXLIST_XBUFLIST_ALET	408	
CKWXLIST_XBUFNUM	44A	
CKWXLIST_XBUFSIZE	408	
CKWXLIST_XBUFSTGKEY	3F1	
CKWXLIST_XB8TO11	454	
CKWXLIST_XCCA	44C	
CKWXLIST_XCCB	44D	
CKWXLIST_XCGLM	457	
CKWXLIST_XCMDCODE	3E9	
CKWXLIST_XCMDFLGS1	450	
CKWXLIST_XCMDFLGS1A	450	
CKWXLIST_XCMDFLGS1B	451	
CKWXLIST_XCMDFLGS1C	452	
CKWXLIST_XCMDFLGS1D	453	
CKWXLIST_XCMDFLGS2A	498	
CKWXLIST_XCMDLEN	448	
CKWXLIST_XCOMPCONID	3F0	
CKWXLIST_XCONID	401	
CKWXLIST_XCONTOKEN	3F4	
CKWXLIST_XDATADDR	404	
CKWXLIST_XDBS	450	
CKWXLIST_XELEMNUM	450	
CKWXLIST_XENDINDEX	456	
CKWXLIST_XENTRYID	460	
CKWXLIST_XENTRYKEY	47C	
CKWXLIST_XENTRYNAME	47C	
CKWXLIST_XEXTRESTOKEN	430	
CKWXLIST_XEXTRESTOKENPSVN	438	
CKWXLIST_XEXTRESTOKENTKN	430	
CKWXLIST_XFIRSTELEM	48C	
CKWXLIST_XKEYCOMP	47C	
CKWXLIST_XLASTELEM	48E	
CKWXLIST_XLISTDESC	49C	
CKWXLIST_XLISTLIMIT	460	
CKWXLIST_XLISTNUM	45C	
CKWXLIST_XLOCKDATA	430	
CKWXLIST_XLOCKINDEX	458	
CKWXLIST_XLOCKMODE_COND	3EC	2
CKWXLIST_XLOCKOPER_HELDBY	3EC	10
CKWXLIST_XLOCKOPER_NOTHELD	3EC	20

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XLOCKOPER_READNEXT	3EC	4
CKWXLIST_XLOCKOPER_RESET	3EC	40
CKWXLIST_XLOCKOPER_SET	3EC	80
CKWXLIST_XLOCKOPER_TEST	3EC	8
CKWXLIST_XMCB_DATA1	44C	
CKWXLIST_XMCB_DATA2	4BC	
CKWXLIST_XMOB_DATA	448	
CKWXLIST_XMODE_ASYNCECB	3EB	10
CKWXLIST_XMODE_ASYNCEXIT	3EB	8
CKWXLIST_XMODE_ASYNCNORESPONSE	3EB	2
CKWXLIST_XMODE_ASYNCTOKEN	3EB	4
CKWXLIST_XMODE_SYNCECB	3EB	80
CKWXLIST_XMODE_SYNCEXIT	3EB	40
CKWXLIST_XMODE_SYNCTOKEN	3EB	20
CKWXLIST_XMOSVECTOR	414	
CKWXLIST_XMOSVECTOR_ALET	410	
CKWXLIST_XMOVETOKEY0	4BC	
CKWXLIST_XMOVETOLIST0	4CC	
CKWXLIST_XNEWAUTH1	48C	
CKWXLIST_XNEWVERS	46C	
CKWXLIST_XOPTIONALDATA	430	
CKWXLIST_XPAGEABLE_NO	3EA	8
CKWXLIST_XREQDATA	420	
CKWXLIST_XREQECB	420	
CKWXLIST_XREQID	428	
CKWXLIST_XREQTOKEN	424	
CKWXLIST_XREQTOKEN_ALET	420	
CKWXLIST_XRESTOKEN	48C	
CKWXLIST_XRSV0102	3EE	
CKWXLIST_XRSV0103	444	
CKWXLIST_XRSV0201	3F4	
CKWXLIST_XRSV0202	402	
CKWXLIST_XRSV0203	424	
CKWXLIST_XRSV0204	438	
CKWXLIST_XRSV0501	44E	
CKWXLIST_XRSV0502	454	
CKWXLIST_XRSV0601	464	
CKWXLIST_XRSV0602	47D	
CKWXLIST_XRSV0603	494	
CKWXLIST_XRSV0604	490	
CKWXLIST_XRSV0605	499	
CKWXLIST_XRSV0606	49D	
CKWXLIST_XSHL_DATA	3E8	
CKWXLIST_XSHLFLGS	3EA	
CKWXLIST_XSHLFLGSA	440	
CKWXLIST_XSHLFLGSA1	440	

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XSHLFLGSA2	441	
CKWXLIST_XSHLFLGS1	3EA	
CKWXLIST_XSHLFLGS2	3EB	
CKWXLIST_XSHLFLGS3	3EC	
CKWXLIST_XSHLFLGS4	3ED	
CKWXLIST_XSTARTINDEX	454	
CKWXLIST_XTYPE_ADJDATA	3ED	80
CKWXLIST_XTYPE_ECONTROLS	3ED	40
CKWXLIST_XUID1	49C	
CKWXLIST_XUID2	47C	
CKWXLIST_XUID3	453	
CKWXLIST_XVECTORINDEX	458	
CKWXLIST_XVERSCOMP	474	
CKWXLIST_XVERSION	3E8	
CKWXLISTL	4D0	E8
CKWXREQ	1FC	
CKWZMASK	BE0	
CKW1ESUP	5	20
CKW1FNLW	5	80
CKW1OFLW	5	40
CKW1SPIO	5	4
CKW1SPSC	5	2
CKW1S266	5	10
CKW2FMLS	6	4
CKW2FWLS	6	8
CKW2INTR	6	1
CKW2IWLS	6	10
CKW2PWLS	6	20
CKW2R1LS	6	80
CKW2R2LS	6	40
CKW3FMCP	7	40
CKW3NOPT	7	4
CKW3PWWP	7	8
CKW3R2WP	7	10
CKW3STA	7	2
CKW4DIAG	8	4
CKW4DIA1	8	20
CKW4IGNO	8	8
CKW4IGN1	8	40
CKW4K64	78	
CKW4K64L	80	
CKW4P1V	8	2
CKW4P2V	8	1
CKW4WTOR	8	10
CKW4WTO1	8	80
CKW5PMST	9	2

Table 87. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKW5PROT	9	4
CKW5STRL	9	8
CKW51NVL	9	40
CKW51VOL	9	80
CKW52NVL	9	10
CKW52VOL	9	20
CKW6EXT	A	8
CKW6FMT	A	10
CKW6LOCK	A	80
CKW6LOKD	A	2
CKW6PRIM	A	4
CKW6READ	A	40
CKW6WRT	A	20
CKW7RDCP	B	40
CKW7WTCP	B	80
M00M1166	0	3E8
M00M1168	0	3E8
M00M1169	0	3E8
M00M1170	0	3E8
M00M1171	0	4F0

$CKX information

$CKX heading information

Common name: JES2 Checkpoint Reconfiguration JESXCF Messages

Macro ID: $CKX

DSECT name: CKX

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CKX '
Offset: CKXID-CKX
Length: L'CKX

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See CKXMAXLN for the length of the largest message or acknowledgement message. This includes both the header length (CKXHDRLN) and the message data length. The execution time message length is in field CKXMSGLN. Each message type has its own length. The message data lengths (which do not include the header length) are defined with field names of the form CKXMnMSG for messages and CKXAnMSG for acknowledgement messages, where "n" is the message type number (see equates for field CKXMTYPE).

Created by: The area used to compose messages and their acknowledgements is created by routine CKRRINIT during JES2 initialization. Areas in JESXCF messages are created by the IXZXIXSM macro instruction and areas in acknowledgement messages are created by the IXZXIXAC macro instruction.

Pointed to by: CKMCKXA field of the $CKM data area
MESSAGE_OFFSET field of the IXZYIXEN data area
YIXAC_APPL_DATA field of the IXZYIXAC data area

Serialization: None required

Function: The $CKX data area is used by JES2 checkpoint reconfiguration routines to map the application portion of JESXCF messages and acknowledgements exchanged between members in a JES2 MAS.

$CKX mapping

Table 88. Structure CKX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKX	, Checkpoint reconfiguration JESXCF messages and acks
		JES2 checkpoint reconfiguration message/ack header			
0	(0)	CHARACTER	4	CKXID	Control block eyecatcher
4	(4)	ADDRESS	1	CKXVERSN	Sender's control block version
4	(4)	X'1'	0	CKXVERN	"1" Current version on this member (see restrictions when you change this)
5	(5)	ADDRESS	1	CKXVERLT	Lowest control block version receiver can be at and tolerate message
5	(5)	X'1'	0	CKXVLCVN	"CKXVERN" Lowest version number this member is compatible with
		Reason codes for $K26 error codes			
5	(5)	X'1'	0	CKXK26R1	"1" Receiver's $CKX version too far down level to be compatible with sender's
5	(5)	X'2'	0	CKXK26R2	"2" Receiver's $CKX version too far up level to be compatible with sender's
		General purpose information fields			
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	SIGNED	4	CKXSMEMN	Sending member number
12	(C)	SIGNED	4	CKXTMEMN	To member number
16	(10)	SIGNED	4	CKXMSGLN	Length of this entire msg
20	(14)	BITSTRING	32		Reserved for future use
		The following section is permanently dedicated for IBM int rnal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or $K25 ABENDs.			
52	(34)	BITSTRING	1	CKXFCTFG	Flags for IBM FCT use only
		1...		CKXFCTFA	"B'10000000'" - Tell receiver to issue $K25 error code
		.1..		CKXFCTFI	"B'01000000'" - Tell receiver to pretend it never got this msg
		..1.		CKXFCTFC	"B'00100000'" - Tell driving member to issue $K25 after next driver commit
		...1		CKXFCTFD	"B'00010000'" - Tell driving member to issue $K25 after driver decommit

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
53	(35)	BITSTRING	3		Reserved for future FCT use
56	(38)	SIGNED	4	CKXFCTRC	Reason code for $K25 error
		JES2 checkpoint reconfiguration JESXCF message and acknowledgement types			
60	(3C)	SIGNED	4	CKXMTYPE	Message or ack type
60	(3C)	X'1'	0	CKXM0	"1" Start-up CKPT reconfig
60	(3C)	X'2'	0	CKXM1	"2" Request info for driver (re)selection
60	(3C)	X'3'	0	CKXA1	"3" Acknowledgement for above
60	(3C)	X'4'	0	CKXM2	"4" Notification of driver (re)selection
60	(3C)	X'5'	0	CKXA2	"5" Acknowledgement for above
60	(3C)	X'6'	0	CKXM3	"6" Sync point action/cond req
60	(3C)	X'7'	0	CKXA3	"7" Acknowledgement for above
60	(3C)	X'8'	0	CKXM4	"8" Sync go-ahead
60	(3C)	X'9'	0	CKXA4	"9" Acknowledgement for above
60	(3C)	X'A'	0	CKXM5	"10" Reconfiguration DONE
60	(3C)	X'B'	0	CKXA5	"11" Acknowledgement for above
		End of header section			
64	(40)	SIGNED	4	(0)	Alignment
64	(40)	X'40'	0	CKXHDRLN	"*-CKX" Length of msg/ack header
		Beginning of message section			
64	(40)	SIGNED	4	CKXMSG(0)	All msgs/acks begin here
64	(40)	CHARACTER	8	CKXMEYE	All msgs/acks begin with a msg specific eyecatcher starting with "Mn" for msgs and "An" for acks
		Message: Start-up checkpoint reconfiguration This message is used to start-up a JES2 checkpoint reconfiguration. The message is sent by every starting member to every reconfiguration capable members. The start-up message is the only message sent to the life-of-member mailbox. All other messages are directed to a mailbox created for the life of a reconfiguration instance. This is a TYPE=COMM message. Use this section when CKXMTYPE is set to CKXM0. Fields in this section are named CKXM0xxx.			
64	(40)	BITSTRING	0	CKXM0MSG(0)	Start-up CKPT reconfig
64	(40)	SIGNED	4	CKXM0BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM0EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM0END(0)	End of message
72	(48)	X'8'	0	CKXM0HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Message: Request info for driver (re)selection This message is sent by the driver candidate to every active, participating member. The members return the requested information in an acknowledgement message. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM1. Fields in this section are named CKXM1xxx.			
64	(40)	BITSTRING	0	CKXM1MSG(0)	Request info for driver (re)selection
64	(40)	SIGNED	4	CKXM1BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM1EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM1END(0)	End of message
72	(48)	X'8'	0	CKXM1HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Info for driver (re)selection The acknowledgements are used by the driver candidate to determine the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the acknowledgements are also used to determine each member's operation sequence number. Use this section when CKXMTYPE is set to CKXA1. Fields in this section are named CKXA1xxx.			
64	(40)	BITSTRING	0	CKXA1MSG(0)	Info for driver select
64	(40)	SIGNED	4	CKXA1BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA1EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXA1FLG	Flag byte
		1...		CKXA1FOV	"B'10000000'" - OPVERIFY=YES on this memb
		.1..		CKXA1FI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKXA1FI2	"B'00100000'" - I/O error on CKPT2
		...1		CKXA1FCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKXA1FOR	"B'00001000'" - Operator dialog request
		.... .1..		CKXA1HUP	"B'00000100'" - HFAM update is pending
		.... ..1.		CKXA1FST	"B'00000010'" - Set CKPTDEF command (also sets CKXA1FOR)
		1		CKXA1RFM	"B'00000001'" - Set reformat CKPT request
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXA1SEQ	Operation sequence number
80	(50)	BITSTRING	4	CKXA1CON	Console ID or zero
84	(54)	BITSTRING	308	CKXA1HFM	Copy of HFAM for NEWCKPTn specifications on member
392	(188)	SIGNED	4	CKXA1END(0)	End of ack message
392	(188)	X'148'	0	CKXA1HCL	"328" If you change this constant
392	(188)	ADDRESS	2	(0)	or get an assembly
392	(188)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Message: Notification of driver (re)selection This message notifies all participating members of the selection of the driving member, or the replacement of a failed driving member. This message contains the accumulated results from the request driver selection information message from the MAS perspective. The MAS wide results includes the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the message also indicates the highest valid operation sequence number for catch-up processing. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM2. Fields in this section are named CKXM2xxx.				
64	(40)	BITSTRING	0	CKXM2MSG(0)	Notification of driver (re)selection
64	(40)	SIGNED	4	CKXM2BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM2EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM2FLG	Flag byte
		1...		CKXM2FOV	"B'10000000'" - Use OPVERIFY=YES
		.1..		CKXM2FI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKXM2FI2	"B'00100000'" - I/O error on CKPT2
		...1		CKXM2FCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKXM2FOR	"B'00001000'" - Operator dialog
		.... .1..		CKXM2FCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKXM2FST	"B'00000010'" - Set CKPTDEF command (also sets CKXM2FOR)
		1		CKXM2RFM	"B'00000001'" - Set reformat CKPT request
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM2SEQ	Highest operation sequence
80	(50)	BITSTRING	4	CKXM2CON	Console ID or zero
84	(54)	SIGNED	4	CKXM2NI1	Number of CKPT1 I/O errors
88	(58)	SIGNED	4	CKXM2NI2	Number of CKPT2 I/O errors
92	(5C)	CHARACTER	4	CKXM2NAM	Name of new driving member
96	(60)	CHARACTER	128	CKXM2PMV	Vector of member names participating in orig driver selection
224	(E0)	BITSTRING	308	CKXM2HFM	HFAM to initially use for this reconfig instance
532	(214)	SIGNED	4	CKXM2END(0)	End of message
532	(214)	X'1D4'	0	CKXM2HCL	"468" If you change this constant
532	(214)	ADDRESS	2	(0)	or get an assembly
532	(214)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack driver (re)selection notification The acknowledging non-driving member does NOT consider the selection of the driver to be "complete" until the driving member updates its XCF user state data. Use this section when CKXMTYPE is set to CKXA2. Fields in this section are named CKXA2xxx.			
64	(40)	BITSTRING	0	CKXA2MSG(0)	Ack notification of who's driving member
64	(40)	SIGNED	4	CKXA2BEG(0)	Beginning of ack message

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	CHARACTER	8	CKXA2EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA2END(0)	End of ack message
72	(48)	X'8'	0	CKXA2HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN

```
Message: Sync point action/condition request
This message is issued by the driving member
in order to give instructions (actions) to
non-driving members, or to request the results
of previous action requests.
Non-driving members do not carry out an action
until instructed to do so by a "sync go-ahead"
message or unless it's necessary to go-ahead
in order to keep in sync with other members
(catch-up processing).
This is a TYPE=ASYNCACK message.
Use this section when CKXMTYPE is set to CKXM3.
Fields in this section are named CKXM3xxx.
```

64	(40)	BITSTRING	0	CKXM3MSG(0)	Sync point action/cond
64	(40)	SIGNED	4	CKXM3BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM3EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM3FLG	Flag byte
		1...		CKXM3DMF	"B'10000000'" - Driving member failed
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM3SEQ	Operation sequence number
80	(50)	CHARACTER	8	CKXM3TYP	Sync point type
88	(58)	SIGNED	4	CKXM3ACT	Requested action
92	(5C)	CHARACTER	308	CKXM3HFM	Driver's current HFAM
400	(190)	SIGNED	4	CKXM3END(0)	End of message
400	(190)	X'150'	0	CKXM3HCL	"336" If you change this constant
400	(190)	ADDRESS	2	(0)	or get an assembly
400	(190)	ADDRESS	2	(0)	error, you MUST update CKXVERN

```
Ack message: Ack sync point action/condition req
This message is used to acknowledge an action
request and to inform the driving member of
the non-driving member's condition.
Use this section when CKXMTYPE is set to CKXA3.
Fields in this section are named CKXA3xxx.
```

64	(40)	BITSTRING	0	CKXA3MSG(0)	Ack sync and return condition data
64	(40)	SIGNED	4	CKXA3BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA3EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXA3TYP	Sync point type
80	(50)	CHARACTER	4	CKXA3CON	Non-driver's condition
84	(54)	CHARACTER	4	CKXA3RSN	Non-driver's reason code
88	(58)	SIGNED	4	CKXA3END(0)	End of ack message
88	(58)	X'18'	0	CKXA3HCL	"24" If you change this constant
88	(58)	ADDRESS	2	(0)	or get an assembly
88	(58)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Message: Sync go-ahead This message is sent by the driving member to give non-driving members the go-ahead to proceed with the sync point action request. If the driver fails is such a way that some, but not all, members receive this message, then those members that did not receive this message will do catch-up processing when a new driver is selected. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM4. Fields in this section are named CKXM4xxx.			
64	(40)	BITSTRING	0	CKXM4MSG(0)	Sync go-ahead
64	(40)	SIGNED	4	CKXM4BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXM4TYP	Sync point type
80	(50)	SIGNED	4	CKXM4END(0)	End of message
80	(50)	X'10'	0	CKXM4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack sync go-ahead Use this section when CKXMTYPE is set to CKXA4. Fields in this section are named CKXA4xxx.			
64	(40)	BITSTRING	0	CKXA4MSG(0)	Ack sync go-ahead
64	(40)	SIGNED	4	CKXA4BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXA4TYP	Sync point type
80	(50)	SIGNED	4	CKXA4END(0)	End of ack message
80	(50)	X'10'	0	CKXA4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Message: Reconfiguration DONE This message is issued by the driving member to inform other members of the pending completion of this reconfiguration. Non-driving members do not exit this CKPT reconfiguration until they detect an XCF user state update indicating the reconfiguration has decommitted. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM5. Fields in this section are named CKXM5xxx.			
64	(40)	BITSTRING	0	CKXM5MSG(0)	Reconfiguration DONE
64	(40)	SIGNED	4	CKXM5BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM5SEQ	Operation sequence number
76	(4C)	SIGNED	4	CKXM5END(0)	End of message
76	(4C)	X'C'	0	CKXM5HCL	"12" If you change this constant
76	(4C)	ADDRESS	2	(0)	or get an assembly
76	(4C)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack reconfiguration DONE Use this section when CKXMTYPE is set to CKXA5. Fields in this section are named CKXA5xxx.			

Table 88. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	BITSTRING	0	CKXA5MSG(0)	Ack reconfig DONE
64	(40)	SIGNED	4	CKXA5BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA5END(0)	End of ack message
72	(48)	X'8'	0	CKXA5HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
End of $CKX data area					
532	(214)	SIGNED	4	(0)	Alignment
532	(214)	X'214'	0	CKXMAXLN	"*-CKX" Max $CKX data area length PRINT ON

Table 89. Cross Reference for $CKX

Name	Offset	Hex Tag
CKX	0	
CKXA1	3C	3
CKXA1BEG	40	
CKXA1CON	50	
CKXA1END	188	
CKXA1EYE	40	
CKXA1FCV	48	10
CKXA1FI1	48	40
CKXA1FI2	48	20
CKXA1FLG	48	
CKXA1FOR	48	8
CKXA1FOV	48	80
CKXA1FST	48	2
CKXA1HCL	188	148
CKXA1HFM	54	
CKXA1HUP	48	4
CKXA1MSG	40	
CKXA1RFM	48	1
CKXA1SEQ	4C	
CKXA2	3C	5
CKXA2BEG	40	
CKXA2END	48	
CKXA2EYE	40	
CKXA2HCL	48	8
CKXA2MSG	40	
CKXA3	3C	7
CKXA3BEG	40	
CKXA3CON	50	
CKXA3END	58	
CKXA3EYE	40	
CKXA3HCL	58	18

Table 89. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXA3MSG	40	
CKXA3RSN	54	
CKXA3TYP	48	
CKXA4	3C	9
CKXA4BEG	40	
CKXA4END	50	
CKXA4EYE	40	
CKXA4HCL	50	10
CKXA4MSG	40	
CKXA4TYP	48	
CKXA5	3C	B
CKXA5BEG	40	
CKXA5END	48	
CKXA5EYE	40	
CKXA5HCL	48	8
CKXA5MSG	40	
CKXFCTFA	34	80
CKXFCTFC	34	20
CKXFCTFD	34	10
CKXFCTFG	34	
CKXFCTFI	34	40
CKXFCTRC	38	
CKXHDRLN	40	40
CKXID	0	
CKXK26R1	5	1
CKXK26R2	5	2
CKXMAXLN	214	214
CKXMEYE	40	
CKXMSG	40	
CKXMSGLN	10	
CKXMTYPE	3C	
CKXM0	3C	1
CKXM0BEG	40	
CKXM0END	48	
CKXM0EYE	40	
CKXM0HCL	48	8
CKXM0MSG	40	
CKXM1	3C	2
CKXM1BEG	40	
CKXM1END	48	
CKXM1EYE	40	
CKXM1HCL	48	8
CKXM1MSG	40	
CKXM2	3C	4
CKXM2BEG	40	
CKXM2CON	50	

Table 89. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXM2END	214	
CKXM2EYE	40	
CKXM2FCN	48	4
CKXM2FCV	48	10
CKXM2FI1	48	40
CKXM2FI2	48	20
CKXM2FLG	48	
CKXM2FOR	48	8
CKXM2FOV	48	80
CKXM2FST	48	2
CKXM2HCL	214	1D4
CKXM2HFM	E0	
CKXM2MSG	40	
CKXM2NAM	5C	
CKXM2NI1	54	
CKXM2NI2	58	
CKXM2PMV	60	
CKXM2RFM	48	1
CKXM2SEQ	4C	
CKXM3	3C	6
CKXM3ACT	58	
CKXM3BEG	40	
CKXM3DMF	48	80
CKXM3END	190	
CKXM3EYE	40	
CKXM3FLG	48	
CKXM3HCL	190	150
CKXM3HFM	5C	
CKXM3MSG	40	
CKXM3SEQ	4C	
CKXM3TYP	50	
CKXM4	3C	8
CKXM4BEG	40	
CKXM4END	50	
CKXM4EYE	40	
CKXM4HCL	50	10
CKXM4MSG	40	
CKXM4TYP	48	
CKXM5	3C	A
CKXM5BEG	40	
CKXM5END	4C	
CKXM5EYE	40	
CKXM5HCL	4C	C
CKXM5MSG	40	
CKXM5SEQ	48	
CKXSMEMN	8	

Table 89. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXTMEMN	C	
CKXVERLT	5	
CKXVERN	4	1
CKXVERSN	4	
CKXVLCVN	5	1

$CLASGRP information

$CLASGRP heading information

Common name: Group Class Object

Macro ID: $CLASGRP

DSECT name: GRPOBJ

Owning component: JES2 (SC1BH)

Eye-catcher ID: CGRP
Offset: GRPKEY-GRPOBJ
Length: L'GRPKEY

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See GRPSIZ

Created by: $DOGGRP - create jobclass group object

Pointed to by: Pointer returned by $DOGGRP service

Serialization: Update access is serialized by the BERT lock

Function: This macro along with $DOGGRP supports group (job class) services. The general services supported are:
- Create - Create job class group.
- Fetch - Returns a copy of the group object in a work area.
- Fetchnext - Return the current group object and locates the next group object.
- Return - Returns the group object to the checkpoint.
- Free - Removes the group object from the checkpoint

The group object layout is as follows:

```
---------------------
| Prebert |
---------------------
| Memory only ... |
| -- reserved for |
| $DOGCAT cache code|
| |
| Length = CATMEMLN | --> See $CAT
---------------------
| Eye catcher - CGRP|
---------------------
| 8 char group name | --> Keyed BERT
---------------------
| 8 char class name | --> Next class to be used
---------------------
```

A group contains one 8 character job class. A group is a circular list of CATs linked by $CAT field CATGPNXT - 8 character name of next class in list.

$CLASGRP mapping

Table 90. Structure GRPOBJ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GRPOBJ	
0	(0)	BITSTRING	36	GRPMEMO	Memory only section used by $DOGCAT - CAT cache service
36	(24)	CHARACTER	4	GRPID	Eye catcher
40	(28)	CHARACTER	8	GRPNAME	Group name - keyed BERT access
48	(30)	CHARACTER	8	GRPNXCL	Next class to be selected
48	(30)	X'38'	0	GRPSIZ	"*-GRPOBJ" Size of group object

$CMB information

$CMB programming interface information

$CMB is a programming interface.

$CMB heading information

Common name: Console Message Buffer

Macro ID: $CMB

DSECT name: CMB

Owning component: JES2 (SC1BH)

Eye-catcher ID: "CMB "
Offset: CMBID-CMB
Length: L'CMBID

Storage attributes: Subpool: 0, 20, or 231
Key: 1
Residency: Virtual and real storage are above 16M, in either the private storage of the JES2 address space or in CSA from another address space.

Size: See CMBLGLEN, CMBL
CMBLGLEN is used as the length for private area CMBs so that nodal message records (NMRs) destined for another node can be store-and-forward'ed unchanged by the Remote Console Processor in HASPRTAM. Note that messages originated by JES2 only use CMBL of these CMBs.
CMBs that are GETMAIN'ed from common storage are always obtained with length CMBL.

Created by: $GETCMB routine in HASPCON
SSICMD routine in HASCSIRQ
SSINOUS routine in HASCSIRQ

Pointed to by: CMBCMB field of the $CMB data area
CSACMB field of the $DTEWTO data area
CSACONWQ field of the $DTEWTO data area
$BUSYQUE field of the $HCT data area
$BUSYRQ field of the $HCT data area
$COMMQTP field of the $HCT data area
$COMMQUE field of the $HCT data area
CCTCMBFQ field of the $HCCT data area
CCTCOMMQ field of the $HCCT data area
CCTELCMB field of the $HCCT data area
CCTRCPCQ field of the $HCCT data area
RCPMSHDR field of the $RCPWORK data area

Serialization: Compare-and-swap logic must be used for queueing or de-queueing the CMB on most queues.

Function: Used to contain messages issued by JES2 or commands destined for JES2.

$CMB mapping

Table 91. Structure CMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMB	
		KEEP FIELDS CMBCMB THROUGH CMBUSER TOGETHER FOR $WTO LONG PARAMETER LIST.			
0	(0)	CHARACTER	4	CMBID	CMB IDENTIFIER
4	(4)	ADDRESS	1	CMBVRS	CMB VERSION
4	(4)	X'1'	0	CMBVRSN	"1" SET CMB VERSION
4	(4)	X'5'	0	CMBCLR	"*" START OF AREA CLEARED BY THE $GETCMB SERVICE (EXCEPT FOR CMBCMB)
5	(5)	BITSTRING	1	CMBFLAG2	GENERAL FLAG BYTE
		1...		CMB2GETM	"B'10000000'" GETMAINED CMB
		.1..		CMB2GMTK	"B'01000000'" $GETMAINed TOKEN
		..1.		CMB2AUTO	"B'00100000'" CMB from auto command
		...1		CMB2INIT	"B'00010000'" CMB from initialization
5	(5)	X'30'	0	CMB2INTR	"CMB2AUTO+CMB2INIT" CMB from internal command
		.... 1...		CMB2IFF	"B'00001000'" IFF indicator from SSINOUS
		.... .1..		CMB2LGON	"B'00000100'" User is logged on-indicator
		.... ..1.		CMB2NOTF	"B'00000010'" THIS IS A NOTIFY CMB
		1		CMB2DMC	"B'00000001'" CMB obtained for DEMANDCMB
6	(6)	BITSTRING	1	CMBFLAG4	General flag byte 4
		1		CMB4LOGO	"B'00000001'" Issue msg to HRDCPY only
		.... ..1.		CMB4PVT	"B'00000010'" CMB is in private storage (together with CMB2GETM)
		1...		CMB4EMER	"B'10000000'" This is an EMERGENCY CMB
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	CMBTOKA	SECURITY TOKEN ADDRESS - IF 0, CMD DEFAULT CHECKING WILL BE USED, AS IN THE CASE OF REMOTE WHICH VERIFYX ON SIGNON RECEIVED A RC 4
12	(C)	ADDRESS	4	CMBCMB	NEXT CMB BUFFER
16	(10)	CHARACTER	4	CMBACEID(0)	ACE ID for monitor commands
16	(10)	ADDRESS	4	CMBPCE	PCE ISSUING MLWTO
20	(14)	CHARACTER	8	CMBKEY	Retrieval key (PCE name)
28	(1C)	CHARACTER	8	CMBJOBNM	Associated job name
36	(24)	SIGNED	4	CMBWTOPL(0)	START OF WTO PARM MAP
36	(24)	BITSTRING	1	CMBFLAG	FLAG BYTE
37	(25)	BITSTRING	1	CMBLEVEL(0)	IMPORTANCE LEVEL (HIGH 4 BITS)
37	(25)	BITSTRING	1	CMBPRIO	OUTPUT PRIORITY (LOW 4 BITS)
38	(26)	BITSTRING	1	CMBTYPE	TYPE BYTE
39	(27)	BITSTRING	1	CMBML	LENGTH OF MESSAGE
40	(28)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
40	(28)	ADDRESS	3	CMBTO(0)	TO SYSTEM ROUTE CODE (BINARY)
40	(28)	SIGNED	2	CMBTONOD	TO NODE NUMBER

Table 91. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	1	CMBTOQUL	TO NODE QUALIFIER
43	(2B)	BITSTRING	1	CMBFLAG3	GENERAL FLAG BYTE
		1...		CMB3TOK	"B'10000000'" COMMAND HAS A TOKEN ASSOCIATED WITH IT
		.1..		CMB3INTC	"B'01000000'" Internal command (used within a MAS when trans- porting commands between members to give a single system image)
44	(2C)	CHARACTER	8	CMBCART	COMMAND AND RESPONSE TOKEN
52	(34)	BITSTRING	1	CMBUCM	FOR DOWN LEVEL COMPATIBILITY
53	(35)	BITSTRING	1	CMBUCMA	MCS CONSOLE AREA
54	(36)	BITSTRING	2	CMBLINET	LINE TYPE FOR MLWTO
56	(38)	BITSTRING	4	CMBUCMID	4-BYTE MCS CONSOLE ID
60	(3C)	BITSTRING	2	CMBDESC	MCS DESCRIPTOR CODES
62	(3E)	BITSTRING	2	CMBROUT	MCS CONSOLE ROUTINGS
64	(40)	BITSTRING	4	CMBDOMID	MCS DOM ID
68	(44)	SIGNED	2	CMBRMT	REMOTE NUMBER
70	(46)	CHARACTER	8	CMBUSER	TSO USER ID
70	(46)	X'2A'	0	CMBWTOLG	"*-CMBWTOPL" LENGTH OF LONG WTO PARMLIST
80	(50)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
80	(50)	ADDRESS	3	CMBFM(0)	FROM SYSTEM ROUTE CODE (BINARY)
80	(50)	SIGNED	2	CMBFMNOD	FROM NODE NUMBER
82	(52)	BITSTRING	1	CMBFMQUL	FROM NODE QUALIFIER
83	(53)	BITSTRING	1		RESERVED FOR FUTURE USE
83	(53)	X'30'	0	CMBPARML	"*-CMBWTOPL" LENGTH OF CMB PARAMETER LST
84	(54)	CHARACTER	148	CMBLGMSG(0)	Maximum nodal message for store-and-forward
84	(54)	CHARACTER	132	CMBMSG(0)	CONSOLE MESSAGE
84	(54)	CHARACTER	8	CMBTIME	TIME STAMP FOR REMOTE SYSTEMS
92	(5C)	CHARACTER	1		SPACER
93	(5D)	CHARACTER	8	CMBJOBID	JOB ID
101	(65)	CHARACTER	1		SPACER
102	(66)	CHARACTER	9	CMBMID	MESSAGE ID FIELD
111	(6F)	CHARACTER	8	CMBJOBN	JOB NAME
119	(77)	CHARACTER	1		SPACER
120	(78)	CHARACTER	96	CMBTEXT	MESSAGE TEXT
216	(D8)	SIGNED	4	CMBEND(0)	END OF CMB
216	(D8)	X'D8'	0	CMBL	"CMBEND-CMB" LENGTH OF CMB
216	(D8)	X'E8'	0	CMBLGEND	"CMBEND+(L'CMBLGMSG-L'CMBMSG)" End of store-and-forwrd CMB
216	(D8)	X'E8'	0	CMBLGLEN	"CMBLGEND-CMB" Max length for store-and- forward CMB
		FORMATTED COMMAND DEFINITIONS			
84	(54)	BITSTRING	40	CMBFNORM(0)	Formatted area for normal command
84	(54)	BITSTRING	40	CMBFRTE(0)	Formatted area for route command
84	(54)	BITSTRING	1	CMBFOP	OPCODE

Table 91. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
85	(55)	BITSTRING	1	CMBFFLG	FLAGS OR OPCODE MODIFIER
86	(56)	BITSTRING	2	CMBFJID	INITIAL JOB NUMBER
88	(58)	CHARACTER	8	CMBFORGN	ORIGIN NODE NAME
96	(60)	CHARACTER	8	CMBFJNAM	JOB NAME
104	(68)	CHARACTER	8	CMBFD	DESTINATION FOR ROUTE COMMAND
112	(70)	CHARACTER	8	CMBFR	REMOTE IF NOT IMPLIED BY CMBFD
120	(78)	BITSTRING	4	CMBFJNUM	Fullword job number
	CMBFLAG DEFINITIONS				
		1...		CMBFLAGC	"B'10000000'" CMB CONTAINS A COMMAND
		.1..		CMBFLAGW	"B'01000000'" CMB HAS RMT WORKSTATION NUM
		..1.		CMBFLAGT	"B'00100000'" CMB HAS TSO USER ID
		...1		CMBFLAGU	"B'00010000'" CMB HAS UCMID INFORMATION
		.... 1...		CMBFLAGR	"B'00001000'" CONSOLE IS ONLY REMOTE AUTHORIZED
		.... .1..		CMBFLAGJ	"B'00000100'" CONSOLE NOT JOB AUTHORIZED
		.... ..1.		CMBFLAGD	"B'00000010'" CONSOLE NOT DEVICE AUTHORIZED
		1		CMBFLAGS	"B'00000001'" CONSOLE NOT SYSTEM AUTHORIZED
120	(78)	X'60'	0	CMBFLAGQ	"CMBFLAGW+CMBFLAGT" CMB HAS EITHER REMOTE OR TSO USERID
	CMBPRIO DEFINITIONS				
		 1111		CMBPRIM	"B'00001111'" CMBPRIO PURIFYING MASK
	CMBTYPE DEFINITIONS WARNING: For CMBs which are to cross nodes, CMBTYPE becomes NMRTYPE and the following bits can take on meaning specified by NMRTYPE.				
		1111		CMBTYPEX	"B'11110000'" RESERVED BITS
		1		CMBTYPED	"B'00000001'" Formatted DOM CMB
		.... ..1.		CMBTYPEF	"B'00000010'" Formatted command in CMBMSG
		.... .1..		CMBTYPET	"B'00000100'" MSG TEXT ONLY IN NMRMSG
		.... 1...		CMBTYPE4	"B'00001000'" RESERVED BIT
	CMBFOP DEFINITIONS				
120	(78)	X'1'	0	CMBFOPD	"1" DISPLAY JOB COMMAND
120	(78)	X'2'	0	CMBFOPC	"2" CANCEL JOB COMMAND
120	(78)	X'3'	0	CMBFOPA	"3" RELEASE JOB COMMAND
120	(78)	X'4'	0	CMBFOPH	"4" HOLD JOB COMMAND
120	(78)	X'5'	0	CMBFOPR	"5" ROUTE JOB COMMAND
	CMBFFLG DEFINITIONS				
		11		CMBFFLGJ	"X'03'" BATCH JOB TYPE WHEN ZEROES
		1		CMBFFLGS	"X'01'" STC JOB TYPE

Table 91. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CMBFFLGT	"X'02'" TSU JOB TYPE
		1...		CMBFFLGO	"X'80'" CANCEL OR ROUTE OUTPUT
		.1..		CMBFFLGD	"X'40'" CANCEL EXECUTION WITH DUMP

Table 92. Cross Reference for $CMB

Name	Offset	Hex Tag
CMB	0	
CMBACEID	10	
CMBCART	2C	40404040
CMBCLR	4	5
CMBCMB	C	
CMBDESC	3C	0
CMBDOMID	40	0
CMBEND	D8	
CMBFD	68	40404040
CMBFFLG	55	0
CMBFFLGD	78	40
CMBFFLGJ	78	3
CMBFFLGO	78	80
CMBFFLGS	78	1
CMBFFLGT	78	2
CMBFJID	56	0
CMBFJNAM	60	40404040
CMBFJNUM	78	0
CMBFLAG	24	0
CMBFLAGC	78	80
CMBFLAGD	78	2
CMBFLAGJ	78	4
CMBFLAGQ	78	60
CMBFLAGR	78	8
CMBFLAGS	78	1
CMBFLAGT	78	20
CMBFLAGU	78	10
CMBFLAGW	78	40
CMBFLAG2	5	0
CMBFLAG3	2B	0
CMBFLAG4	6	0
CMBFM	50	
CMBFMNOD	50	0
CMBFMQUL	52	0
CMBFNORM	54	
CMBFOP	54	0
CMBFOPA	78	3
CMBFOPC	78	2
CMBFOPD	78	1

Table 92. Cross Reference for $CMB (continued)

Name	Offset	Hex Tag
CMBFOPH	78	4
CMBFOPR	78	5
CMBFORGN	58	40404040
CMBFR	70	40404040
CMBFRTE	54	
CMBID	0	C3D4C240
CMBJOBID	5D	40404040
CMBJOBN	6F	40404040
CMBJOBNM	1C	40404040
CMBKEY	14	40404040
CMBL	D8	D8
CMBLEVEL	25	
CMBLGEND	D8	E8
CMBLGLEN	D8	E8
CMBLGMSG	54	
CMBLINET	36	0
CMBMID	66	
CMBML	27	0
CMBMSG	54	
CMBPARML	53	30
CMBPCE	10	
CMBPRIM	78	F
CMBPRIO	25	0
CMBRMT	44	0
CMBROUT	3E	0
CMBTEXT	78	40404040
CMBTIME	54	40404040
CMBTO	28	
CMBTOKA	8	
CMBTONOD	28	0
CMBTOQUL	2A	0
CMBTYPE	26	0
CMBTYPED	78	1
CMBTYPEF	78	2
CMBTYPET	78	4
CMBTYPEX	78	F0
CMBTYPE4	78	8
CMBUCM	34	0
CMBUCMA	35	0
CMBUCMID	38	0
CMBUSER	46	40404040
CMBVRS	4	
CMBVRSN	4	1
CMBWTOLG	46	2A
CMBWTOPL	24	
CMB2AUTO	5	20

Table 92. Cross Reference for $CMB (continued)

Name	Offset	Hex Tag
CMB2DMC	5	1
CMB2GETM	5	80
CMB2GMTK	5	40
CMB2IFF	5	8
CMB2INIT	5	10
CMB2INTR	5	30
CMB2LGON	5	4
CMB2NOTF	5	2
CMB3INTC	2B	40
CMB3TOK	2B	80
CMB4EMER	6	80
CMB4LOGO	6	1
CMB4PVT	6	2

$CNVWORK information

$CNVWORK programming interface information

$CNVWORK is a programming interface.

$CNVWORK heading information

Common name: JES2 JCL Conversion PCE Work Area

Macro ID: $CNVWORK

DSECT name: PCE ($CNVWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JPCELEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $JCLPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first JCL conversion PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
DTEPCE field of the $DTECNV data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 JCL Conversion Processor and by its support routines and exits. $CNVWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CNVWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECNVID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$CNVWORK mapping

Table 93. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	24	JPCECECB	Work competion XECB
352	(160)	BITSTRING	1	JPCESTAT	PROCESSOR STATUS BYTE
		1...		JPCEDUPL	"B'10000000'" Duplicate logon tried
		.1..		JPCEHJOB	"B'01000000'" Job held, issue HASP101 msg
		...1		JPCENCWT	"B'00010000'" This PCE cannot wait for OS CNVT
353	(161)	CHARACTER	8	JPCECLAS	Original job class - 8 char
361	(169)	CHARACTER	1	JPCEPRIO	ORIGINAL JOB PRIORITY
362	(16A)	BITSTRING	2		Reserved for future use
364	(16C)	ADDRESS	4	JPCEDTE	SUBTASK DTE ADDRESS
368	(170)	ADDRESS	4	JPCEJCTA	JCT BUFFER ADDR FOR PCE
372	(174)	BITSTRING	12	JPCETQE	HASP TIMER QUEUE ELEMENT
384	(180)	BITSTRING	6	JPCEJCTK	MQTR OF JCT, CHANGED BY PROCESSOR WHEN NEW MQTR SET OF JCT
390	(186)	BITSTRING	2		RESERVED FOR FUTURE IBM USE
392	(188)	ADDRESS	4	JPCEXPLA	Address of XPL for Exit 44
396	(18C)	ADDRESS	4	JPCEPARM	NODE TABLE ADDRESS
400	(190)	ADDRESS	4		CONTROL BLOCK ADDRESS
404	(194)	ADDRESS	4		ADDRESS OF JQE
408	(198)	ADDRESS	1		QUEUE TYPE SPECIFIED
409	(199)	ADDRESS	1		WORK SELECTION TYPE FLAG
410	(19A)	ADDRESS	1		Response byte flags
411	(19B)	ADDRESS	1		Reserved
411	(19B)	X'18C'	0	JPCELST	"JPCEPARM,*-JPCEPARM" QGET PARAMETER LIST STORAGE
412	(19C)	BITSTRING	1	JPCEXRSP	EXIT 44 response byte Work area copy of $XPL response byte X044RESP
413	(19D)	CHARACTER	16	JPCESCHE	Default SCHENV
429	(1AD)	BITSTRING	6	JPCEJLOG	JES log control
435	(1B3)	CHARACTER	16	JPCESCHH	Hold area for JQA SCHENV
451	(1C3)	CHARACTER	16	JPCESCHJ	Hold area for JCT SCHENV
467	(1D3)	BITSTRING	2		Reserved
472	(1D8)	ADDRESS	4	JPCJQEA	Real JQE address
480	(1E0)	DBL WORD	8	JPCGRIP	Hold area for GRPID specified on SCHEDULE statement.
488	(1E8)	BITSTRING	17	JPCGROUP	Holds Gxxxxxxx.Groupnme
505	(1F9)	BITSTRING	3		Reserved
508	(1FC)	ADDRESS	4	JPCECIP	CIPARM parm area address
512	(200)	ADDRESS	4	JPCECAT	CAT for job being converted
516	(204)	ADDRESS	4	JPCESQD	SQD address
520	(208)	BITSTRING	16	JPCETTKN	Subtask STOKEN work area
536	(218)	DBL WORD	8	JPCEPRFS(0)	Performance stats
536	(218)	DBL WORD	8	JPCEQTIM	C/I queue time (micro)
544	(220)	DBL WORD	8	JPCERTIM	C/I run time (micro)

Table 93. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
552	(228)	DBL WORD	8	JPCECTIE	C/I CPU time (micro)
552	(228)	X'218'	0	JPCEPSTA	"JPCEPRFS,*-JPCEPRFS" All C/I performance stats
560	(230)	DBL WORD	8	JPCPRTIM	Time since PRIV PCE last used in shortage context. Only valid if PCEFLGCS -> PCEPRIVI.
560	(230)	X'12C'	0	JPCPWAIT	"300" Number of seconds PRIV PCE should wait before going away. During this time no SPOOL shortage was encountered.
		Exit 44 data fields (cleared before called exit)			
568	(238)	BITSTRING	1	JPCEFLG1	Exit 44 flag byte
		1...		JPCE1CLS	"B'10000000'" Exit set class
		.1..		JPCE1SCH	"B'01000000'" Exit set SCHENV
569	(239)	BITSTRING	3		Reserved
572	(23C)	CHARACTER	8	JPCEXCLS	Exit 44 set Job class
580	(244)	CHARACTER	8	JPCEXJCS	Exit 44 saved JCT job class
588	(24C)	CHARACTER	16	JPCEXSCH	Exit 44 set SCHENV
588	(24C)	X'238'	0	JPCEX44D	"JPCEFLG1,*-JPCEFLG1" Field to clear exit 44 data
		Fields to resolve circular WITH= dependency			
588	(24C)	X'A'	0	JPCWTHFF	"10" WITH= fan-out factor
604	(25C)	SIGNED	4	JPCWTHNR	WITH= names in array
608	(260)	BITSTRING	1	JPCWTHAR	WITH= names array
608	(260)	X'260'	0	JPCWTHCN	"JPCWTHAR,8,C'C'" 1st name in array
688	(2B0)	DBL WORD	8	(0)	Alighnment
688	(2B0)	X'168'	0	JPCELEN	"*-PCEWORK" LENGTH OF PROCESSOR WORK SPACE

Table 94. Cross Reference for $CNVWORK

Name	Offset	Hex Tag
JPCECAT	200	
JPCECECB	148	
JPCECIP	1FC	
JPCECLAS	161	
JPCECTIE	228	
JPCEDTE	16C	
JPCEDUPL	160	80
JPCEFLG1	238	
JPCEHJOB	160	40
JPCEJCTA	170	
JPCEJCTK	180	
JPCEJLOG	1AD	
JPCELEN	2B0	168
JPCELST	19B	18C
JPCENCWT	160	10
JPCEPARM	18C	

Table 94. Cross Reference for $CNVWORK (continued)

Name	Offset	Hex Tag
JPCEPRFS	218	
JPCEPRIO	169	
JPCEPSTA	228	218
JPCEQTIM	218	
JPCERTIM	220	
JPCESCHE	19D	
JPCESCHH	1B3	
JPCESCHJ	1C3	
JPCESQD	204	
JPCESTAT	160	
JPCETQE	174	
JPCETTKN	208	
JPCEXCLS	23C	
JPCEXJCS	244	
JPCEXPLA	188	
JPCEXRSP	19C	
JPCEXSCH	24C	
JPCEX44D	24C	238
JPCE1CLS	238	80
JPCE1SCH	238	40
JPCGRIP	1E0	
JPCGROUP	1E8	
JPCJQEA	1D8	
JPCPRTIM	230	0
JPCPWAIT	230	12C
JPCWTHAR	260	
JPCWTHCN	260	260
JPCWTHFF	24C	A
JPCWTHNR	25C	
PCE	0	

$COMWORK information

$COMWORK programming interface information

The following field is **NOT** programming interface information:

- COMMLTEA

$COMWORK heading information

Common name: JES2 Command PCE Work Area

Macro ID: $COMWORK

DSECT name: PCE ($COMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol COMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $COMMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Command Processor and by its support routines and exits. $COMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $COMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECONID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$COMWORK mapping

Table 95. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
		SPOOL MASK WORK AREA - USED WITH V=VOLSER OPERAND			
328	(148)	BITSTRING	1	COMSPMSK	VOLUME SERIAL MASK
		SECURITY RELATED TOKEN OF ISSUER OF COMMAND			
360	(168)	CHARACTER	80	COMSECT	SECURITY TOKEN
440	(1B8)	ADDRESS	4	COMSQD	ADDRESS OF SQD OR ZERO
444	(1BC)	BITSTRING	1	COMFLAG2	Second CMB flag (CMBFLAG2)
445	(1BD)	BITSTRING	3		Reserved
448	(1C0)	ADDRESS	4	COMPXEQ	DOM id for $P XEQ
		Address of the first character in the field pointed to by PCENTITY beyond the sub-system name and its trailing period. If our sub-system name is JES2, then this address will be 5 greater than PCENTITY.			
452	(1C4)	SIGNED	4	COMENTBG	See above comment box
		Parameters for IEAVM173 (WPL message extract service)			
456	(1C8)	ADDRESS	4	COMMLTEA	Address of MLTE
460	(1CC)	CHARACTER	1	COMMLTE	WPL message extract parms
		List form of the $WTO parameter list. The following fields must match those defined in the CMB starting at CMBWTOPL.			
508	(1FC)	SIGNED	4	COMWTOPL(0)	START OF WTO PARAMETERS
508	(1FC)	CHARACTER	1	COMFLAG	FLAGS FOR CMB
509	(1FD)	CHARACTER	1	COMLEVEL	LIST LEVEL AND PRIORITY
510	(1FE)	CHARACTER	1	COMTYPE	FORMAT TYPE
511	(1FF)	CHARACTER	1	COMML	LENGTH OF MESSAGE
512	(200)	SIGNED	4	(0)	

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
512	(200)	ADDRESS	3	COMTO(0)	TO SYSTEM NODE INFORMATION
512	(200)	SIGNED	2	COMTONOD	NODE NUMBER (BINARY)
514	(202)	BITSTRING	1	COMTOQUL	NODE QUALIFIER
515	(203)	BITSTRING	1	COMFLAG3	CMB General flag byte 3
516	(204)	CHARACTER	8	COMCART	COMMAND AND RESPONSE TOKEN
524	(20C)	CHARACTER	1	COMUCM	FOR DOWN LEVEL COMPATIBILITY
525	(20D)	CHARACTER	1	COMUCMA	MCS CONSOLE AREA
526	(20E)	CHARACTER	2	COMLINET	LINE TYPE FOR MLWTO
528	(210)	CHARACTER	4	COMUCMID	4-BYTE MCS CONSOLE ID
532	(214)	CHARACTER	2	COMDESC	MCS DESCRIPTOR CODES
534	(216)	CHARACTER	2	COMROUT	MCS ROUTE CODES
536	(218)	CHARACTER	4	COMDOMID	MCS DOM ID
540	(21C)	SIGNED	2	COMRMT	REMOTE NUMBER
542	(21E)	CHARACTER	8	COMUSER	TSO USER ID
542	(21E)	X'2A'	0	COMWTOLG	"*-COMWTOPL" LENGTH OF WTO PARM LIST
550	(226)	ADDRESS	2	(0)	Verify that lengths of
550	(226)	ADDRESS	2	(0)	parameter lists are OK
550	(226)	BITSTRING	2		Reserved
552	(228)	DBL WORD	8	(0)	Align
552	(228)	BITSTRING	16	COMSTRT	Time command started
	FUNCTION WORK SPACE				
568	(238)	CHARACTER	4	COMINCON	SOURCE CONSOLE UCMID
572	(23C)	CHARACTER	1	COMAUTH	SOURCE CONSOLE AUTHORITY
573	(23D)	CHARACTER	8	COMACEID	AUTOMATIC COMMAND ELEMENT ID
581	(245)	BITSTRING	3		Reserved
584	(248)	SIGNED	4	COMJROUT(0)	JOB QUEUING ROUTE CODE FROM CMB (BINARY)
584	(248)	SIGNED	2	COMJNOD	NODE ID
586	(24A)	SIGNED	2	COMJRMT	REMOTE ID
588	(24C)	SIGNED	4	COMJSCAT	SAVE AREA FOR $CFJSCAN CAT
592	(250)	ADDRESS	4	COMCRQ	Command request block head
596	(254)	SIGNED	4	COMEWORK	SINGLE PRECISION WORK AREA
600	(258)	DBL WORD	8	COMDWORK	DOUBLE PRECISION WORK AREA
608	(260)	DBL WORD	8	COMWREGS(2)	REGISTER SAVE AREA
624	(270)	SIGNED	4	COMFWORK	FULL WORD WORK AREA
628	(274)	ADDRESS	1	COMBWORK	ONE BYTE WORK AREA
629	(275)	BITSTRING	1	COMGFLG1	GENERAL FLAG BYTE
		1...		COMG1APO	"B'10000000'" APOSTROPHE SWITCH IS ON
		.1..		COMG1REQ	"B'01000000'" CMB MUST BE REQUEUED
	EQU B'00100000' Reserved EQU B'00010000' Reserved				
		.... 1...		COMG1SSI	"B'00001000'" SSI FORMATTED COMMAND
		.... .1..		COMG1$MN	"B'00000100'" $M/$N command found
		.... ..1.		COMG1UAC	"B'00000010'" Unauthorized console

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		EQU B'00000001' Reserved			
630	(276)	BITSTRING	1	COMGFLG2	Command level general flag
631	(277)	BITSTRING	1	COMGFLG3	More genaral flags (Cleared at HASPCOME)
		1...		COMG3ECH	"B'10000000'" Command has been echoed
632	(278)	SIGNED	2	COMLCCA	FLAGS AND AREA OF ' L='
		11		COMFFLGJ	"B'00000011'" BATCH JOB TYPE WHEN ZEROES
		1		COMFFLGS	"B'00000001'" STC JOB TYPE
		.... ..1.		COMFFLGT	"B'00000010'" TSU JOB TYPE
634	(27A)	CHARACTER	10	COMCONNM	SYMBOLIC CONSOLE NAME AND OUT-OF-LINE AREA
		COMMAND EDIT ROUTINE FLAGS			
634	(27A)	X'256'	0	COMLFLG	"COMEWORK+2" FLAG BYTE
634	(27A)	X'1'	0	COMLFLGR	"1" UCM CMD FROM REMOTE SYSTEM
634	(27A)	X'2'	0	COMLFLGC	"2" CONSOLE HAS BEEN SPECIFIED
634	(27A)	X'4'	0	COMLFLGA	"4" AREA HAS BEEN SPECIFIED
		COMMAND INPUT PASSED TO $SCAN			
644	(284)	CHARACTER	132	COMINPUT	COMMAND INPUT PASSED TO $SCAN
776	(308)	SIGNED	4	COMSDLCT	COUNT OF $SCAN DISPLAY LINES
780	(30C)	SIGNED	4	COMTDLCT	Count of total lines displayed for commands partially implemented via $SCAN
784	(310)	ADDRESS	4	COMSTAB	Address of $SCANTAB related to command
		COMMAND TEXT AREA			
788	(314)	CHARACTER	2	COMMID	MESSAGE ID
788	(314)	X'314'	0	COMLNGTH	"COMMID" Command length
790	(316)	CHARACTER	1024	COMMAND	COMMAND AND MESSAGE AREA
790	(316)	X'317'	0	COMVERB	"COMMAND+1" LOCATION OF COMMAND VERB
790	(316)	X'318'	0	COMOPRND	"COMMAND+2" LOCATION OF FIRST OPERAND
790	(316)	X'3DE'	0	COMSAFL	"COMMAND+200,1" Length and command image
790	(316)	X'3DF'	0	COMSAFC	"COMSAFL+1,150" for $SEAS CMDAUTH call
1814	(716)	CHARACTER	8	COMJNAME	MESSAGE AREA EXTENSION/JOBNAME
1822	(71E)	CHARACTER	8	COMPRVCM	Start of previous command
1830	(726)	CHARACTER	132	COMCURCM	Mirror of Command
1962	(7AA)	SIGNED	2	COMMNDLN	Length of data in COMCURCM
1964	(7AC)	ADDRESS	4	COMXWCA	Address of CXWC DSECT
1968	(7B0)	ADDRESS	4	COMLJBRG	Ptr to last job range
		OPERAND POINTER AREA			
1972	(7B4)	SIGNED	4	COMPNTER(20)	AREA FOR OPERAND POINTERS

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1972	(7B4)	X'50'	0	COMPNTRL	"*-COMPNTER" Length of operand ptr area
2052	(804)	ADDRESS	2	(0)	Force assembly error IF AREA TOO SMALL FOR USE BY $DM
2052	(804)	SIGNED	4	COMNULOP	NULL OPERAND
2056	(808)	BITSTRING	20	COMPINDX	COMPNTER/CDUTABLE INDEX BYTES
2076	(81C)	SIGNED	4	(0)	
2076	(81C)	SIGNED	4	COMINXSV	SAVE AREA FOR COMPINDX POINTER
2080	(820)	SIGNED	4	COMOPFLG	Operand flags
	COMREGSV is used by HASPCOMM for a $SCAND buffer when it calls SCAN. 64 bytes are used.				
2084	(824)	BITSTRING	248	COMREGSV	REGISTER SAVE/WORK AREA
	COFRTR work area for route code ranges				
2332	(91C)	BITSTRING	18	COMRWORK	WORK AREA FOR SUBMITTING EBCDIC ROUTES TO $DEST/USERDEST
2350	(92E)	BITSTRING	1	COMRFLG1	FLAG BYTE FOR ROUTECODES
		.1..		COMR1GNC	"B'01000000'" Indicates the userid in COMUWORK contains a least one generic character
		..1.		COMR1UNN	"B'00100000'" INDICATES WHETHER OR NOT SPECIAL LOCAL ROUTING IS INCLUDED IN RANGE
		...1		COMR1RAL	"B'00010000'" Indicates that route code ranges are allowed
		.... 1...		COMR1DFT	"B'00001000'" INDICATES COMREGSV+2 IS TO BE USED FOR THE DEFAULT NODE INSTEAD OF COMJNOD
		.... .1..		COMR1GEN	"B'00000100'" INDICATES WHETHER OR NOT A GEN. USERID IS ALLOWED
		.... ..1.		COMR1GNA	"B'00000010'" Indicates that a generic userid was specified, implicitly or explicitly on first dest in range
		1		COMR1RPR	"B'00000001'" INDICATES ROUTECODE CONTAINED (
2351	(92F)	BITSTRING	1		RESERVED FOR FUTURE USE
2352	(930)	CHARACTER	8	COMUWORK	HI-END USERID FROM $DEST
2352	(930)	X'0'	0	COMNODE	"0,2,C'H'" Offset/length of node
2352	(930)	X'2'	0	COMRMTE	"2,2,C'H'" Offset/length of rmt
2352	(930)	X'4'	0	COMUSEID	"4,8,C'D'" Offset/length of userid
2352	(930)	X'4'	0	COMNRLEN	"L'COMNODE+L'COMRMT" Length of node+remote
2352	(930)	X'8'	0	COMUCNT	"8" COUNTER FOR EXAMINING GENERIC USERIDS
2360	(938)	BITSTRING	1		Reserved
	More flag bytes				
2361	(939)	BITSTRING	1	COMSFLG1	Flag byte for specific cmds
		1...		COMS1WT	"B'10000000'" Waited 1 sec in $PJES2 for system to quiesce

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Next 2 bits used for Joblist commands			
		.1..		COMS1JQ	"B'01000000'" JOBQ specified as object
		..1.		COMS1JST	"B'00100000'" J, S, or T specified
		...1		COMS1HIT	"B'00010000'" JOE found flag
		.... 1...		COMS1RTS	"B'00001000'" $T RMT switched BSC<--->SNA
		.... .1..		COMS1MAX	"B'00000100'" Maximum hi range specified
		.... ..1.		COMS1FLT	"B'00000010'" Job queue filter required
		1		COMS1RBD	"B'00000001'" Include rebuild queue in job scan
2362	(93A)	BITSTRING	1	COMSTABP	COMPCE id from STAB
2363	(93B)	BITSTRING	1		Reserved for future use
		$CFSEL macro/service routine communication area			
2364	(93C)	ADDRESS	4	COMSCOTE	Address of current entry in operand pointer table
2368	(940)	ADDRESS	4	COMSRTNA	Address of selected routine (or zero if no match)
2372	(944)	SIGNED	4	COMSSLEN	Length of matching string (or zero if no match)
2376	(948)	SIGNED	4	COMSRLEN	Residual operand length (or input operand length if no match)
		Area for specifications for filter type operands			
2380	(94C)	CHARACTER	8	COMJNAM	STORE OUTPUT JOE NAME
2388	(954)	SIGNED	2	COMJID1	STORE OUTPUT JOE 1ST ID
2390	(956)	SIGNED	2	COMJID2	STORE OUTPUT JOE 2ND ID
		$TO AND $R WORK AREA FOR JOES			
2392	(958)	SIGNED	4	(0)	Word alignment
2392	(958)	ADDRESS	4	COMJOAA	Address of JOA
2396	(95C)	BITSTRING	1	COMLTFLG	Flag byte for $L and $TO
		1...		COMLTMAX	"B'10000000'" DISPMAX reached for current set of $HAS686 msgs
		Field needed for $CFJSCAN Processing			
2397	(95D)	BITSTRING	2		Reserved for future use
2399	(95F)	BITSTRING	1	COMQUE	Requested Queue
		Free JOE work area			
2400	(960)	SIGNED	4	COMFJOEL	Indx of lowest JOE to free
2404	(964)	SIGNED	4	COMFJOEH	Indx of highest JOE to free
2404	(964)	X'960'	0	COMFJOEW	"COMFJOEL,*-COMFJOEL,C'F'" Composite field

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Work area to hold system affinity mask for commands that allow multiple system affinities to be specified. eg. $DA, $T ALL, $T RDR/I, $T OFF(n).JR/JT $T J/S/T					
2408	(968)	BITSTRING	4	COMAFMSK	System affinity mask
2412	(96C)	BITSTRING	1	COMOSAFM	Old system affinity mask
ENQ/DEQ parameter lists MACRO-DATE = 03/16/15					
2416	(970)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2416	(970)	X'970'	0	COMRDRNQ	"*" X02113
2416	(970)	ADDRESS	1		PELLAST flag byte. X02113
2417	(971)	ADDRESS	1		PELMILEN - RNAME length.
2418	(972)	BITSTRING	1		
PELFLAG - flag byte 2.					
2419	(973)	ADDRESS	1		PELRET - return code byte.
2420	(974)	ADDRESS	4		QNAME ADDRESS
2424	(978)	ADDRESS	4		RNAME ADDRESS
2424	(978)	X'C'	0	COMENQL	"*-COMRDRNQ" Length of ENQ
MACRO-DATE = 03/16/2015					
2428	(97C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2428	(97C)	X'97C'	0	COMRDRDQ	"*" X02113
2428	(97C)	ADDRESS	1		PELLAST flag byte. X02113
2429	(97D)	ADDRESS	1		PELMILEN - RNAME length.
2430	(97E)	BITSTRING	1		
PELFLAG - flag byte 2.					
2431	(97F)	ADDRESS	1		PELRET - return code byte.
2432	(980)	ADDRESS	4		QNAME ADDRESS
2436	(984)	ADDRESS	4		RNAME ADDRESS
2436	(984)	X'C'	0	COMDEQL	"*-COMRDRDQ" Length of DEQ
Work area for $DJ,DELAY command for jobs in a job group					
2440	(988)	SIGNED	4	(0)	Alignment
2440	(988)	BITSTRING	4	COMSYSAF	Job group SYSAFF
2444	(98C)	BITSTRING	4	COMSCHAF	Job group SCHENV aff mask
2448	(990)	BITSTRING	4	COMSCLAF	Job group SECLABEL aff mask
2452	(994)	BITSTRING	1	COMLGFG1	Logging job JQEFLAG1
2453	(995)	BITSTRING	1	COMSRSN	Delay reason of conc set
2454	(996)	BITSTRING	2		Reserved
2456	(998)	SIGNED	4	COMBLDM(0)	Control block ID
2460	(99C)	BITSTRING	4		Console ID
2464	(9A0)	ADDRESS	4		Address of the CART
2468	(9A4)	ADDRESS	4		Pointer for JOBID

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2472	(9A8)	ADDRESS	4		Control block address
2476	(9AC)	ADDRESS	4		Display routine address
2480	(9B0)	ADDRESS	4	(6)	6 word work area
2504	(9C8)	ADDRESS	4		Caller's R11 value
2508	(9CC)	BITSTRING	2		ROUT code for Message
2510	(9CE)	BITSTRING	2		Not used
2512	(9D0)	CHARACTER	4		Message ID
2516	(9D4)	CHARACTER	1		Separator character
2517	(9D5)	ADDRESS	1		Flag byte 1
2518	(9D6)	ADDRESS	1		'DISPER'
2519	(9D7)	ADDRESS	1		Flag byte 2
2520	(9D8)	ADDRESS	1		Flag byte 3
2521	(9D9)	ADDRESS	1		Severity of message
2522	(9DA)	CHARACTER	8		Symbolic name of dest.
2530	(9E2)	BITSTRING	14		Not used
2544	(9F0)	ADDRESS	4	(0)	Ensure multiple of 4
2544	(9F0)	ADDRESS	2	(0)	
0	(0)	X'8A8'	0	COMMAXL	"*-PCEWORK" Maximum length of COMWORK
	Beginning of remappings of existing areas. SUBSYSTEM-INDEPENDENT (SSI) FORMATTED COMMAND AREA				
2084	(824)	BITSTRING	40	COMFCMDA(0)	FORMATTED COMMAND AREA
2084	(824)	CHARACTER	1	COMFOP	FORMATTED COMMAND OPTION CODE
2085	(825)	CHARACTER	1	COMFFLG	FORMATTED COMMAND FLAG BYTE
2086	(826)	SIGNED	2	COMFJID	JOB IDENTIFICATION
2088	(828)	CHARACTER	8	COMFORGN	ORIGINATING NODE NAME
2096	(830)	CHARACTER	8	COMFJNAM	JOB NAME
2104	(838)	CHARACTER	8	COMFD	DESTINATION NODE NAME (ROUTE CMD)
2112	(840)	CHARACTER	8	COMFR	REMOTE NAME (ROUTE CMD)
2120	(848)	SIGNED	4	COMFJNO	Job number identifier
2120	(848)	X'84C'	0	COMFEND	"*" END OF FORMATTED COMMAND AREA
2120	(848)	X'28'	0	COMFL	"*-COMFOP" LENGTH OF FORMATTED CMD AREA
2124	(84C)	ADDRESS	2	(0)	Ensure area fits within COMREGSV
	SSI FORMATTED CMD WORKAREA (USED BY HASPCFCP)				
1972	(7B4)	CHARACTER	80	COSIWORK(0)	
1972	(7B4)	BITSTRING	40	COSICMDA(0)	FORMATTED COMMAND AREA
1972	(7B4)	CHARACTER	1	COSIOP	FORMATTED COMMAND OPTION CODE
1973	(7B5)	CHARACTER	1	COSIFLG	FLAG BYTE (SEE COMFFLG DEF.)
1974	(7B6)	SIGNED	2	COSIJID	JOB IDENTIFICATION
1976	(7B8)	CHARACTER	8	COSIORGN	ORIGINATING NODE NAME
1984	(7C0)	CHARACTER	8	COSIJNAM	JOB NAME
1992	(7C8)	CHARACTER	8	COSID	DESTINATION NODE NAME (ROUTE CMD)
2000	(7D0)	CHARACTER	8	COSIR	REMOTE NAME (ROUTE CMD)
2008	(7D8)	SIGNED	4	COSIJNO	Job number identifier

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2008	(7D8)	X'7DC'	0	COSIEND	"*" END OF FORMATTED COMMAND AREA
2008	(7D8)	X'28'	0	COSIL	"*-COSICMDA" LENGTH OF FORMATTED CMD AREA
2012	(7DC)	SIGNED	4	COSILINK	USED TO SAVE LINK REGISTER
2016	(7E0)	SIGNED	4	COSIJQER	USED TO SAVE PTR TO JQE
2020	(7E4)	SIGNED	4	COSISAV0	USED TO SAVE R0 CONTENTS
2024	(7E8)	SIGNED	2	COSINOD#	ORIGINATING NODE # (BINARY)
2026	(7EA)	CHARACTER	1	COSIEFOP	EFFECTIVE CMD OPTION CODE
2027	(7EB)	BITSTRING	1		RESERVED FOR FUTURE USE
2027	(7EB)	X'38'	0	COMSIL	"*-COSIWORK" Length of this remapping
2028	(7EC)	ADDRESS	2	(0)	Ensure area fits within COMPNTER
	COMFOP DEFINITIONS				
2028	(7EC)	X'1'	0	COMFOPD	"1" DISPLAY JOB COMMAND ($GD)
2028	(7EC)	X'2'	0	COMFOPC	"2" CANCEL JOB COMMAND ($GC)
2028	(7EC)	X'3'	0	COMFOPA	"3" RELEASE JOB COMMAND ($GA)
2028	(7EC)	X'4'	0	COMFOPH	"4" HOLD JOB COMMAND ($GH)
2028	(7EC)	X'5'	0	COMFOPR	"5" ROUTE JOB COMMAND ($GR)
	COMFFLG DEFINITIONS				
		1...		COMFFLGO	"B'10000000'" A) FOR COMFOPC ($GC) COMMAND - CANCEL OUTPUT AS OPPOSED TO EXECUTION B) FOR COMFOPR ($GR) COMMAND - ROUTE OUTPUT AS OPPOSED TO EXECUTION
		.1..		COMFFLGD	"B'01000000'" CANCEL EXECUTION WITH A DUMP
		..1.		COMFFLGN	"B'00100000'" COSIFJNO is job number
	$R COMMAND WORK AREA				
2084	(824)	SIGNED	4	CRXWORKA(0)	$R COMMAND WORK AREA
2084	(824)	SIGNED	4	CRXOLDRT	SAVE AREA FOR OLD ROUTECDE
2088	(828)	SIGNED	4	CRXNEWRT	SAVE AREA FOR NEW ROUTECDE
2092	(82C)	SIGNED	4	CRXCLSPT	SAVE AREA FOR CLASS PTR
2096	(830)	SIGNED	4	CRXJBNUM	SAVE AREA FOR JOB NUMBER
2100	(834)	BITSTRING	1	CRXOUTD	OUTDISP PROCESSING FLAGS
		1...		CRXODLST	"B'10000000'" PARENTHESIZED OPERAND LIST CURRENTLY BEING PROCESSED
2100	(834)	X'8'	0	CRXODW	"$ODWRITE" PROCESS OUTDISP=WRITE
2100	(834)	X'4'	0	CRXODH	"$ODHOLD" PROCESS OUTDISP=HOLD
2100	(834)	X'2'	0	CRXODK	"$ODKEEP" PROCESS OUTDISP=KEEP
2100	(834)	X'1'	0	CRXODL	"$ODLEAVE" PROCESS OUTDISP=LEAVE
2100	(834)	X'F'	0	CRXODANY	"$ODANY" ANY OUTDISP SETTINGS
2101	(835)	BITSTRING	1	CRXFLAG1	$R command flag byte
		1...		CRX1GENC	"B'10000000'" CRXOLDUS contains generic characters ('*' or '?')
2102	(836)	BITSTRING	37	CRXCLASL	Q= CLASS LIST (36 + BLANK)
2140	(85C)	SIGNED	4	(0)	FULL WORD ALIGNMENT

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2140	(85C)	CHARACTER	8	CRXOLDUS	SAVE AREA FOR OLD ROUTE CD
2148	(864)	CHARACTER	8	CRXNEWUS	SAVE AREA FOR NEW ROUTE CD
2156	(86C)	CHARACTER	8	CRXNEWND	SAVE AREA FOR NEW NODE NAME
2156	(86C)	X'50'	0	CRXLEN	"*-CRXWORKA" LENGTH OF $R WORK AREA
2164	(874)	ADDRESS	2	(0)	CHECK FOR OVERLAP
	Flag byte for PREJOE, PREJQE and PSTCFVQE				
2184	(888)	BITSTRING	1	CRJFLAG	Flags for JOE/JQE commands
2184	(888)	X'65'	0	CRJLEN	"*-COMREGSV" Length of remapped area
2186	(88A)	ADDRESS	2	(0)	Check for overlap
	Flag definitions for CRJFLAG				
		1...		CRJFLGCF	"B'10000000'" PSTCFVQE has been invoked
	DISPLAY UNIT FLAG DEFINITIONS				
2186	(88A)	X'820'	0	CDUFLAG1	"COMOPFLG" CDUFLAG1 DEFINITION
		1...		CDUFLGRP	"B'10000000'" GROUP DISPLAY REQUEST
		11..		CDUFLTYP	"B'11000000'" TYPE-GROUP DISPLAY REQ
		..1.		CDUFLRMT	"B'00100000'" REMOTE SUB-DISPLAY REQ
		...1		CDUFLRAT	"B'00010000'" RAT BASED DISPLAY REQ
		.... 1...		CDUFLONE	"B'00001000'" SINGLE DCT DISPLAY REQ
		.... .1..		CDUFLCLS	"B'00000100'" DCT CLASS SKIP REQUEST
		.... ..1.		CDUFLLU	"B'00000010'" SNA LUNAME SUBDISPLAY
		1		CDUFLMOD	"B'00000001'" MODIFIER OPERAND ONLY
2186	(88A)	X'821'	0	CDUDEVTP	"COMOPFLG+1" TYPE-GROUP DCT TYPE
2186	(88A)	X'822'	0	CDUMASK	"COMOPFLG+2" BRANCH MASK VALUE
2186	(88A)	X'823'	0	CDUFLAG2	"COMOPFLG+3" CDUFLAG2 DEFINITION
		1...		CDUFLSUB	"B'10000000'" RMT SUB-DSPLY IN PROGR
		.1..		CDUFLONG	"B'01000000'" FORCE LONG DISPLAY
		..1.		CDUFLFND	"B'00100000'" DEVICE FOUND IN DSPLY
		...1		CDUFLOPR	"B'00010000'" NON-MODIFIER OPERANDS
		.... 1...		CDUFLACT	"B'00001000'" ACTIVE ONLY MODIFIER
		.... .1..		CDUFLSTR	"B'00000100'" STARTED ONLY MODIFIER
		.... ..1.		CDUFLSHT	"B'00000010'" SHORT MODIFIER
		1		CDUFXSUB	"B'00000001'" XFR SUB-DISPLAY
2186	(88A)	X'824'	0	CDUDEVN	"COMREGSV,12" Device name for $DU
	Definitions for HASP608 job information message OPT= operand of the $CFJMSG macro.				
		1		COFN	"X'01'" DISPLAY NORMAL JOBS
		.... ..1.		COFS	"X'02'" DISPLAY SYSTEM JOBS
		.... .1..		COFT	"X'04'" DISPLAY LOGON JOBS
2186	(88A)	X'7'	0	COFJ	"COFN+COFS+COFT" DISPLAY ALL JOBS
		.... 1...		COFX	"X'08'" DISPLAY JOBS IN EXECUTION
		...1		COFD	"X'10'" DISPLAY JOBS ON DEVICES

Table 95. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2186	(88A)	X'1F'	0	COFA	"COFJ+COFX+COFD" DISPLAY ACTIVE JOBS
		..1.		COFI	"X'20'" DISPLAY PRE-XEQ QUEUED JOBS
		.1..		COFO	"X'40'" DISPLAY POST-XEQ QUEUED JOBS
		1...		COFP	"X'80'" DISPLAY QUEUED FOR PRT/PUN
2186	(88A)	X'E7'	0	COFQ	"COFJ+COFI+COFO+COFP" DISPLAY QUEUED JOBS
2186	(88A)	X'FF'	0	COFU	"COFJ+COFI+COFO+COFX+COFP+COFD" DISPLAY UNCONDITIONAL
		Definitions for HASP608 job information message OPT2= operand of the $CFJMSG macro.			
		1		COFLNGFG	"B'00000001'" LONG OPERAND SPECIFIED FLAG
		.... ..1.		COFPREFX	"B'00000010'" SPOOL PREFIX ALREADY PRINTED
		Define the COMMAND work area for use building the job related display messages. Define the fixed message start.			
2186	(88A)	X'316'	0	COFJOB	"COMMAND,3" TEXT 'JOB', 'STC', OR 'TSU'
2186	(88A)	X'319'	0	COFJNO	"COFJOB+3,5" JOB NUMBER WITH LEADING BLANK
2186	(88A)	X'31F'	0	COFJNAME	"COFJNO+6,8" JOB NAME
		Define the 2nd field - queue and/or activity info.			
2186	(88A)	X'328'	0	COFQUE	"COFJNAME+9,8" TEXT 'AWAITING'
2186	(88A)	X'6F8'	0	COFOPT	"COMMAND+L'COMMAND-30,1" OPTION SPECIFIED
2186	(88A)	X'6F9'	0	COFNULL	"COFOPT+1,1" Place holder for COFAFF
2186	(88A)	X'6FA'	0	COFOPT2	"COFNULL+1,1" 2ND OPTION FLAG
2186	(88A)	X'6FB'	0	COFSECF	"COFOPT2+1,4" SECURITY FIELD FOR $WTO'S
2186	(88A)	X'6FF'	0	COFLNGTH	"COFSECF+4,2" LENGTH OF MSG
2186	(88A)	X'3EB'	0	COFSIZE	"COFLNGTH+L'COFLNGTH-COFJOB" Size of work area
2186	(88A)	CHARACTER	1	(0)	Ensure work area fits within COMMAND field
2186	(88A)	X'96C'	0	COFAFF	"COMOSAFM" System affinity mask
2186	(88A)	X'968'	0	COFAFWRK	"COMAFMSK" Affinity mask work area
		Determine maximum length of the COMM PCE work area by ORGing back to the start of the variable section (PCEWORK) and accounting for the largest definition of $COMWORK.			
328	(148)	BITSTRING	2216		Account for largest section
2544	(9F0)	SIGNED	4	(0)	Ensure full-word align
2544	(9F0)	X'8A8'	0	COMPCEWS	"*-PCEWORK" LENGTH OF WORK AREA

Table 96. Structure COMREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	COMREQ	Command Request block DSECT

Table 96. Structure COMREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	CRQID	Eyecatcher
4	(4)	ADDRESS	4	CRQNEXT	Next request on queue
8	(8)	BITSTRING	42	CRQWTOPL	Long WTO parm list
50	(32)	BITSTRING	82	CRQSECT	Security token
132	(84)	SIGNED	4	(0)	Set alignment
132	(84)	CHARACTER	4	CRQINCON	Input console UCMID
136	(88)	CHARACTER	1	CRQAUTH	Input console authority
137	(89)	BITSTRING	1	CRQGFLG1	General flag byte
138	(8A)	BITSTRING	1	CRQFLAG2	Second CMB flag
139	(8B)	BITSTRING	1		Reserved
140	(8C)	SIGNED	4	CRQJROUT	Route code from CMB
144	(90)	SIGNED	2	CRQLCCA	Flags and area of ' L=CCA'
146	(92)	SIGNED	2	CRQCMDLN	Command length
148	(94)	CHARACTER	10	CRQCONNM	Symbolic console name/area
158	(9E)	BITSTRING	2		Reserved
160	(A0)	CHARACTER	132	CRQCMD	Command
292	(124)	SIGNED	4	CRQPNTER(21)	Area for operand pointers
376	(178)	SIGNED	4	CRQLPTR	Offset of ptr to last oper
376	(178)	X'17C'	0	CRQLEN	"*-COMREQ" Length of request list

Table 97. Cross Reference for $COMWORK

Name	Offset	Hex Tag
CDUDEVN	88A	824
CDUDEVTP	88A	821
CDUFLACT	88A	8
CDUFLAG1	88A	820
CDUFLAG2	88A	823
CDUFLCLS	88A	4
CDUFLFND	88A	20
CDUFLGRP	88A	80
CDUFLLU	88A	2
CDUFLMOD	88A	1
CDUFLONE	88A	8
CDUFLONG	88A	40
CDUFLOPR	88A	10
CDUFLRAT	88A	10
CDUFLRMT	88A	20
CDUFLSHT	88A	2
CDUFLSTR	88A	4
CDUFLSUB	88A	80
CDUFLTYP	88A	C0
CDUFXSUB	88A	1
CDUMASK	88A	822
COFA	88A	1F
COFAFF	88A	96C

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COFAFWRK	88A	968
COFD	88A	10
COFI	88A	20
COFJ	88A	7
COFJNAME	88A	31F
COFJNO	88A	319
COFJOB	88A	316
COFLNGFG	88A	1
COFLNGTH	88A	6FF
COFN	88A	1
COFNULL	88A	6F9
COFO	88A	40
COFOPT	88A	6F8
COFOPT2	88A	6FA
COFP	88A	80
COFPREFX	88A	2
COFQ	88A	E7
COFQUE	88A	328
COFS	88A	2
COFSECF	88A	6FB
COFSIZE	88A	3EB
COFT	88A	4
COFU	88A	FF
COFX	88A	8
COMACEID	23D	
COMAFMSK	968	
COMAUTH	23C	
COMBLDM	998	C2D3C440
COMBWORK	274	
COMCART	204	
COMCONNM	27A	
COMCRQ	250	
COMCURCM	726	
COMDEQL	984	C
COMDESC	214	
COMDOMID	218	
COMDWORK	258	
COMENQL	978	C
COMENTBG	1C4	
COMEWORK	254	
COMFCMDA	824	
COMFD	838	
COMFEND	848	84C
COMFFLG	825	
COMFFLGD	7EC	40
COMFFLGJ	278	3

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMFFLGN	7EC	20
COMFFLGO	7EC	80
COMFFLGS	278	1
COMFFLGT	278	2
COMFJID	826	
COMFJNAM	830	
COMFJNO	848	
COMFJOEH	964	
COMFJOEL	960	
COMFJOEW	964	960
COMFL	848	28
COMFLAG	1FC	
COMFLAG2	1BC	
COMFLAG3	203	
COMFOP	824	
COMFOPA	7EC	3
COMFOPC	7EC	2
COMFOPD	7EC	1
COMFOPH	7EC	4
COMFOPR	7EC	5
COMFORGN	828	
COMFR	840	
COMFWORK	270	
COMGFLG1	275	
COMGFLG2	276	
COMGFLG3	277	
COMG1$MN	275	4
COMG1APO	275	80
COMG1REQ	275	40
COMG1SSI	275	8
COMG1UAC	275	2
COMG3ECH	277	80
COMINCON	238	
COMINPUT	284	
COMINXSV	81C	
COMJID1	954	
COMJID2	956	
COMJNAM	94C	
COMJNAME	716	
COMJNOD	248	
COMJOAA	958	
COMJRMT	24A	
COMJROUT	248	
COMJSCAT	24C	
COMLCCA	278	
COMLEVEL	1FD	

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMLFLG	27A	256
COMLFLGA	27A	4
COMLFLGC	27A	2
COMLFLGR	27A	1
COMLGFG1	994	
COMLINET	20E	
COMLJBRG	7B0	
COMLNGTH	314	314
COMLTFLG	95C	
COMLTMAX	95C	80
COMMAND	316	
COMMAXL	0	8A8
COMMID	314	
COMML	1FF	
COMMLTE	1CC	
COMMLTEA	1C8	
COMMNDLN	7AA	
COMNODE	930	0
COMNRLEN	930	4
COMNULOP	804	
COMOPFLG	820	
COMOPRND	316	318
COMOSAFM	96C	
COMPCEWS	9F0	8A8
COMPINDX	808	
COMPNTER	7B4	
COMPNTRL	7B4	50
COMPRVCM	71E	
COMPXEQ	1C0	
COMQUE	95F	
COMRDRDQ	97C	97C
COMRDRNQ	970	970
COMREGSV	824	
COMREQ	0	
COMRFLG1	92E	
COMRMT	21C	
COMRMTE	930	2
COMROUT	216	
COMRWORK	91C	
COMR1DFT	92E	8
COMR1GEN	92E	4
COMR1GNA	92E	2
COMR1GNC	92E	40
COMR1RAL	92E	10
COMR1RPR	92E	1
COMR1UNN	92E	20

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMSAFC	316	3DF
COMSAFL	316	3DE
COMSCHAF	98C	
COMSCLAF	990	
COMSCOTE	93C	
COMSDLCT	308	
COMSECT	168	
COMSFLG1	939	
COMSIL	7EB	38
COMSPMSK	148	
COMSQD	1B8	
COMSRLEN	948	
COMSRSN	995	
COMSRTNA	940	
COMSSLEN	944	
COMSTAB	310	
COMSTABP	93A	
COMSTRT	228	
COMSYSAF	988	
COMS1FLT	939	2
COMS1HIT	939	10
COMS1JQ	939	40
COMS1JST	939	20
COMS1MAX	939	4
COMS1RBD	939	1
COMS1RTS	939	8
COMS1WT	939	80
COMTDLCT	30C	
COMTO	200	
COMTONOD	200	
COMTOQUL	202	
COMTYPE	1FE	
COMUCM	20C	
COMUCMA	20D	
COMUCMID	210	
COMUCNT	930	8
COMUSEID	930	4
COMUSER	21E	
COMUWORK	930	
COMVERB	316	317
COMWREGS	260	
COMWTOLG	21E	2A
COMWTOPL	1FC	
COMXWCA	7AC	
COSICMDA	7B4	
COSID	7C8	

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COSIEFOP	7EA	
COSIEND	7D8	7DC
COSIFLG	7B5	
COSIJID	7B6	
COSIJNAM	7C0	
COSIJNO	7D8	
COSIJQER	7E0	
COSIL	7D8	28
COSILINK	7DC	
COSINOD#	7E8	
COSIOP	7B4	
COSIORGN	7B8	
COSIR	7D0	
COSISAV0	7E4	
COSIWORK	7B4	
CRJFLAG	888	
CRJFLGCF	88A	80
CRJLEN	888	65
CRQAUTH	88	
CRQCMD	A0	
CRQCMDLN	92	
CRQCONNM	94	
CRQFLAG2	8A	
CRQGFLG1	89	
CRQID	0	C3D9D840
CRQINCON	84	
CRQJROUT	8C	
CRQLCCA	90	
CRQLEN	178	17C
CRQLPTR	178	
CRQNEXT	4	
CRQPNTER	124	
CRQSECT	32	
CRQWTOPL	8	
CRXCLASL	836	
CRXCLSPT	82C	
CRXFLAG1	835	
CRXJBNUM	830	
CRXLEN	86C	50
CRXNEWND	86C	
CRXNEWRT	828	
CRXNEWUS	864	
CRXODANY	834	F
CRXODH	834	4
CRXODK	834	2
CRXODL	834	1

Table 97. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
CRXODLST	834	80
CRXODW	834	8
CRXOLDRT	824	
CRXOLDUS	85C	
CRXOUTD	834	
CRXWORKA	824	
CRX1GENC	835	80
PCE	0	

$CPCWORK information

$CPCWORK programming interface information

$CPCWORK is a programming interface.

$CPCWORK heading information

Common name:	CPOOL Query Cell Work Area Mapping
Macro ID:	$CPCWORK
DSECT name:	CPCWPARM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPCWSIZE
Created by:	User of the $CPOOL query cell (QCELL) service
Pointed to by:	Register 0 on entry to the CPQCELL service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use $CPOOL QCELL service. Information is passed back via this storage.

$CPCWORK mapping

Table 98. Structure CPCWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPCWPARM	, CPOOL QCELL Work Mapping
0	(0)	ADDRESS	8	CPCWCELL_64	Cell address (64-bit)
0	(0)	X'4'	0	CPCWCELL	"CPCWCELL_64+4,4,C'A'" 31-bit version
8	(8)	DBL WORD	8	CPCWSTAT_64	Cell status (64-bit)
8	(8)	X'C'	0	CPCWSTAT	"CPCWSTAT_64+4,4,C'F'" 31-bit version
16	(10)	SIGNED	4	CPCWXNUM	Extent number for cell
20	(14)	SIGNED	4	CPCWRC	MVS service return code
24	(18)	SIGNED	4	CPCALET	ALET of cell
24	(18)	X'1C'	0	CPCWSIZE	"*-CPCWPARM" Size of parmlist

$CPEBE information

$CPEBE programming interface information

$CPEBE is a programming interface.

$CPEBE heading information

Common name:	Cell Pool Extent Block Element
Macro ID:	$CPEBE
DSECT name:	CPEBE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CPEB' Offset: CPEID-CPEBE Length: 4
Storage attributes:	Subpool: any Key: any Residency: Same as extent storage for cell pool The CPEBE (and the CPEB which follows) must be obtained on a quadword boundary.
Size:	See CPESIZE
Created by:	CPEXPAND Routine in HASCPOOL (Main Task and User environments)
Pointed to by:	CPEDNEXT field of the $CPEBE data area CPENEXT field of the $CPEBE data area CPMCPEBE field of the $CPMASTR data area CPMCPEDS field of the $CPMASTR data area
Serialization:	ENQ dueing CPEXPAND
Function:	The $CPEBE mapping is used to mapped over storage that contains information on Cell Pool extents.

$CPEBE mapping

Table 99. Structure CPEBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPEBE	Cell Pool Extent Block Elem
0	(0)	CHARACTER	4	CPEID	CPEBE Identifier
4	(4)	BITSTRING	1	CPEVRSN	CPEBE Version
4	(4)	X'1'	0	CPEVNUM	"1" Version number
5	(5)	BITSTRING	1	CPEFLAG1	Flags
		1...		CPE1DISC	"B'10000000'" Disconnected extent
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	ADDRESS	8	CPEBXADD	64-bit address of extent
16	(10)	ADDRESS	8	CPENEXT	Address of next CPEBE
24	(18)	ADDRESS	8	CPEBBADR	Address of CPEB/Bit map
32	(20)	DBL WORD	8	CPEBBSIZ	Size of CPEB/Bit map
40	(28)	DBL WORD	8	CPEXXSZ	Size of extent
48	(30)	SIGNED	4	CPEBXNUM	Extent number
52	(34)	SIGNED	4	CPEBMAST	CPMASTR offset in CPINDEX
56	(38)	ADDRESS	8	CPEDNEXT	Next CPEBE on disconnected chain
56	(38)	X'40'	0	CPESIZE	"((*-CPEBE+15)/16)*16" Size of CPEBE rounded to quadword

Table 100. Cross Reference for $CPEBE

Name	Offset	Hex Tag
CPEBBADR	18	
CPEBBSIZ	20	
CPEBE	0	
CPEBMAST	34	
CPEBXADD	8	
CPEBXNUM	30	
CPEDNEXT	38	
CPEFLAG1	5	
CPEID	0	C3D7C5C2
CPENEXT	10	
CPESIZE	38	40
CPEVNUM	4	1
CPEVRSN	4	
CPEXXSZ	28	
CPE1DISC	5	80

$CPINDEX information

$CPINDEX programming interface information

$CPINDEX is a programming interface.

$CPINDEX heading information

Common name: Cell Pool Index table

Macro ID: $CPINDEX

DSECT name: CPINDEX

Owning component: JES2 (SC1BH)

Eye-catcher ID: CPIX
Offset: -8 (in the JES2 CSA storage prefix)
Length: L'$CSBID

Storage attributes: Subpool: 229 or 231
Key: 1
Residency: Extended private in any address space using JES2 services. One copy is located in ECSA. Virtual and real storage can be anywhere.

Size: See CPILEN + 8 byte prefix

Created by: CPINIT routine in HASCPOOL

Pointed to by: HXBCPIDX field of the HASXB data area
CCTCPIDX field of the HCCT data area

Serialization: Compare and Swap logic will be used to insert a $CPMASTR element in the pre-defined cell types. For the user-defined cell types, a lock for the $CPINDEX table must be held before entry can be inserted.

Function: This table is used to index into the Master Cell Pool Table ($CPMASTR). It contains index pointers into the $CPMASTR. Each of the pointer is associated with a Cell Type. Check $CPLTAB macro invocations for the cell types defined in this macro.
A work cell type can be specified by the caller only in the USER environment. For example, TYPE=ccccc, where ccccc is any alphanumeric character, up to a length of 5 characters.

$CPINDEX mapping

Table 101. Structure CPINDEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPINDEX	Cell Pool Index Table
0	(0)	BITSTRING	1	CPIVRSN	CPINDEX Version
0	(0)	X'1'	0	CPIVNUM	"1" Version number
1	(1)	BITSTRING	1	CPILOCK	CPINDEX lock
2	(2)	BITSTRING	1	CPIFLAG1	Flag 1
		1...		CPIEMPTY	"B'10000000'" Empty entry in user area
		.1..		CPI1CSA	"B'01000000'" CSA CPINDEX
3	(3)	BITSTRING	1	CPIFLAG2	Recovery footprints
4	(4)	SIGNED	4	CPISTART(0)	Start of CPLTABs
4	(4)	ADDRESS	4	CPIBAT	BAT CPMASTR addr, subpool BATPOOL
8	(8)	ADDRESS	4	CPIBSC	BSC CPMASTR addr, subpool BSCPOOL
12	(C)	ADDRESS	4	CPICB	CB CPMASTR addr, subpool CBPOOL
16	(10)	ADDRESS	4	CPICDCT	CDCT CPMASTR addr, location CSA64
16	(10)	X'10'	0	CPICDCT_C	"CPICDCT,4,C'A'" CDCT Common pool equate
20	(14)	ADDRESS	4	CPICDC2	CDC2 CPMASTR addr, location CSA64
20	(14)	X'14'	0	CPICDC2_C	"CPICDC2,4,C'A'" CDC2 Common pool equate
24	(18)	ADDRESS	4	CPICDCTQS	CDCTQS CPMASTR addr, location CSA64
24	(18)	X'18'	0	CPICDCTQS_C	"CPICDCTQS,4,C'A'" CDCTQS Common pool equate
28	(1C)	ADDRESS	4	CPICDCTRNT	CDCTRNT CPMASTR addr, location CSA64
28	(1C)	X'1C'	0	CPICDCTRNT_C	"CPICDCTRNT,4,C'A'" CDCTRNT Common pool equate
32	(20)	ADDRESS	4	CPICID	CID CPMASTR addr, subpool CIDPOOL
36	(24)	ADDRESS	4	CPICKPINFO	CKPINFO CPMASTR addr, location CSA64
36	(24)	X'24'	0	CPICKPINFO_C	"CPICKPINFO,4,C'A'" CKPINFO Common pool equate
40	(28)	ADDRESS	4	CPICMB	CMB CPMASTR addr, subpool CMBPOOL
44	(2C)	ADDRESS	4	CPICNIT	CNIT CPMASTR addr, location CSA64
44	(2C)	X'2C'	0	CPICNIT_C	"CPICNIT,4,C'A'" CNIT Common pool equate
48	(30)	ADDRESS	4	CPIDLSJOB	DLSJOB CPMASTR addr, subpool 229
52	(34)	ADDRESS	4	CPIGPQE	GPQE CPMASTR addr, subpool GPQPOOL
56	(38)	ADDRESS	4	CPIEVT	EVT CPMASTR addr, location DATASPACE
56	(38)	X'38'	0	CPIEVT_C	"CPIEVT,4,C'A'" EVT Common pool equate
60	(3C)	ADDRESS	4	CPIHASP	HASP CPMASTR addr, subpool HASPPOOL
64	(40)	ADDRESS	4	CPIHEDR	HEDR CPMASTR addr, subpool HEDRPOOL
68	(44)	ADDRESS	4	CPIICE	ICE CPMASTR addr, subpool ICEPOOL
72	(48)	ADDRESS	4	CPIIRE	IRE CPMASTR addr, location CSA
72	(48)	X'48'	0	CPIIRE_C	"CPIIRE,4,C'A'" IRE Common pool equate
76	(4C)	ADDRESS	4	CPIJQRB	JQRB CPMASTR addr, location DATASPACE
76	(4C)	X'4C'	0	CPIJQRB_C	"CPIJQRB,4,C'A'" JQRB Common pool equate
80	(50)	ADDRESS	4	CPILMD	LMD CPMASTR addr, location CSA64

Table 101. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	X'50'	0	CPILMD_C	"CPILMD,4,C'A'" LMD Common pool equate
84	(54)	ADDRESS	4	CPINAT	NAT CPMASTR addr, location DATASPACE
84	(54)	X'54'	0	CPINAT_C	"CPINAT,4,C'A'" NAT Common pool equate
88	(58)	ADDRESS	4	CPIB32K	B32K CPMASTR addr, subpool B32KPOOL
92	(5C)	ADDRESS	4	CPINMAP	NMAP CPMASTR addr, subpool NMAPPOOL
96	(60)	ADDRESS	4	CPINSA	NSA CPMASTR addr, subpool NSAPOOL
100	(64)	ADDRESS	4	CPINTQ	NTQ CPMASTR addr, subpool NTQPOOL
104	(68)	ADDRESS	4	CPIPAGE	PAGE CPMASTR addr, subpool PAGEPOOL
108	(6C)	ADDRESS	4	CPIPCL	PCL CPMASTR addr, location DATASPACE
108	(6C)	X'6C'	0	CPIPCL_C	"CPIPCL,4,C'A'" PCL Common pool equate
112	(70)	ADDRESS	4	CPIPP	PP CPMASTR addr, subpool PPPOOL
116	(74)	ADDRESS	4	CPIPSO	PSO CPMASTR addr, location DATASPACE
116	(74)	X'74'	0	CPIPSO_C	"CPIPSO,4,C'A'" PSO Common pool equate
120	(78)	ADDRESS	4	CPIPAD	PAD CPMASTR addr, location DATASPACE
120	(78)	X'78'	0	CPIPAD_C	"CPIPAD,4,C'A'" PAD Common pool equate
124	(7C)	ADDRESS	4	CPIRNT	RNT CPMASTR addr, subpool RNTPOOL
128	(80)	ADDRESS	4	CPIRDT	RDT CPMASTR addr, location DATASPACE
128	(80)	X'80'	0	CPIRDT_C	"CPIRDT,4,C'A'" RDT Common pool equate
132	(84)	ADDRESS	4	CPISAPID	SAPID CPMASTR addr, location DATASPACE
132	(84)	X'84'	0	CPISAPID_C	"CPISAPID,4,C'A'" SAPID Common pool equate
136	(88)	ADDRESS	4	CPISCWA	SCWA CPMASTR addr, subpool SCWAPOOL
140	(8C)	ADDRESS	4	CPISCWADSP	SCWADSP CPMASTR addr, subpool SCWDPOOL
144	(90)	ADDRESS	4	CPISJIO	SJIO CPMASTR addr, subpool 230
148	(94)	ADDRESS	4	CPISMF	SMF CPMASTR addr, subpool SMFPOOL
152	(98)	ADDRESS	4	CPISQD	SQD CPMASTR addr, subpool SQDPOOL
156	(9C)	ADDRESS	4	CPISTAC	STAC CPMASTR addr, location DATASPACE
156	(9C)	X'9C'	0	CPISTAC_C	"CPISTAC,4,C'A'" STAC Common pool equate
160	(A0)	ADDRESS	4	CPITBUF	TBUF CPMASTR addr, location DATASPACE
160	(A0)	X'A0'	0	CPITBUF_C	"CPITBUF,4,C'A'" TBUF Common pool equate
164	(A4)	ADDRESS	4	CPITJEV	TJEV CPMASTR addr, subpool 229
168	(A8)	ADDRESS	4	CPITRE	TRE CPMASTR addr, subpool 230
172	(AC)	ADDRESS	4	CPIVTAM	VTAM CPMASTR addr, subpool VTAMPOOL
176	(B0)	ADDRESS	4	CPIWTO	WTO CPMASTR addr, location DATASPACE
176	(B0)	X'B0'	0	CPIWTO_C	"CPIWTO,4,C'A'" WTO Common pool equate
180	(B4)	ADDRESS	4	CPIXCWELT	XCWELT CPMASTR addr, subpool 229
184	(B8)	ADDRESS	4	CPIXCWNODE	XCWNODE CPMASTR addr, subpool 229
188	(BC)	ADDRESS	4	CPIXRQ	XRQ CPMASTR addr, subpool XRQPOOL
192	(C0)	ADDRESS	4	CPIZJC	ZJC CPMASTR addr, location CSA64

Table 101. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	X'C0'	0	CPIZJC_C	"CPIZJC,4,C'A'" ZJC Common pool equate
196	(C4)	ADDRESS	4	CPIZGLREQ	ZGLREQ CPMASTR addr, location CSA64
196	(C4)	X'C4'	0	CPIZGLREQ_C	"CPIZGLREQ,4,C'A'" ZGLREQ Common pool equate
200	(C8)	ADDRESS	4	CPIZGLMSG	ZGLMSG CPMASTR addr, location CSA64
200	(C8)	X'C8'	0	CPIZGLMSG_C	"CPIZGLMSG,4,C'A'" ZGLMSG Common pool equate
204	(CC)	ADDRESS	4	CPIEDSMSG	EDSMSG CPMASTR addr, location CSA64
204	(CC)	X'CC'	0	CPIEDSMSG_C	"CPIEDSMSG,4,C'A'" EDSMSG Common pool equate
204	(CC)	X'CC'	0	CPISTEND	"*-CPISTART" Size of the CPLTABs
204	(CC)	X'D0'	0	CPISTD	"*-CPINDEX" Size of the standard cell types
204	(CC)	X'4'	0	CPIOFLEN	"4" Length of offset field
208	(D0)	SIGNED	4	CPIWSTRT(0)	Start of the work cell types
208	(D0)	ADDRESS	4	CPIWORK(0)	User-defined CPMASTER's
208	(D0)	X'F28'	0	CPIWLEN	"*-CPIWSTRT" Size of the work cell types
208	(D0)	X'FF8'	0	CPILEN	"4096-$CSBPRFX" Size of the CPINDEX table

Table 102. Cross Reference for $CPINDEX

Name	Offset	Hex Tag
CPIBAT	4	
CPIBSC	8	
CPIB32K	58	
CPICB	C	
CPICDCT	10	
CPICDCT_C	10	10
CPICDCTQS	18	
CPICDCTQS_C	18	18
CPICDCTRNT	1C	
CPICDCTRNT_C	1C	1C
CPICDC2	14	
CPICDC2_C	14	14
CPICID	20	
CPICKPINFO	24	
CPICKPINFO_C	24	24
CPICMB	28	
CPICNIT	2C	
CPICNIT_C	2C	2C
CPIDLSJOB	30	
CPIEDSMSG	CC	
CPIEDSMSG_C	CC	CC
CPIEMPTY	2	80
CPIEVT	38	
CPIEVT_C	38	38

Table 102. Cross Reference for $CPINDEX (continued)

Name	Offset	Hex Tag
CPIFLAG1	2	
CPIFLAG2	3	
CPIGPQE	34	
CPIHASP	3C	
CPIHEDR	40	
CPIICE	44	
CPIIRE	48	
CPIIRE_C	48	48
CPIJQRB	4C	
CPIJQRB_C	4C	4C
CPILEN	D0	FF8
CPILMD	50	
CPILMD_C	50	50
CPILOCK	1	
CPINAT	54	
CPINAT_C	54	54
CPINDEX	0	
CPINMAP	5C	
CPINSA	60	
CPINTQ	64	
CPIOFLEN	CC	4
CPIPAD	78	
CPIPAD_C	78	78
CPIPAGE	68	
CPIPCL	6C	
CPIPCL_C	6C	6C
CPIPP	70	
CPIPSO	74	
CPIPSO_C	74	74
CPIRDT	80	
CPIRDT_C	80	80
CPIRNT	7C	
CPISAPID	84	
CPISAPID_C	84	84
CPISCWA	88	
CPISCWADSP	8C	
CPISJIO	90	
CPISMF	94	
CPISQD	98	
CPISTAC	9C	
CPISTAC_C	9C	9C
CPISTART	4	
CPISTD	CC	D0
CPISTEND	CC	CC
CPITBUF	A0	
CPITBUF_C	A0	A0

Table 102. Cross Reference for $CPINDEX (continued)

Name	Offset	Hex Tag
CPITJEV	A4	
CPITRE	A8	
CPIVNUM	0	1
CPIVRSN	0	
CPIVTAM	AC	
CPIWLEN	D0	F28
CPIWORK	D0	
CPIWSTRT	D0	
CPIWTO	B0	
CPIWTO_C	B0	B0
CPIXCWELT	B4	
CPIXCWNODE	B8	
CPIXRQ	BC	
CPIZGLMSG	C8	
CPIZGLMSG_C	C8	C8
CPIZGLREQ	C4	
CPIZGLREQ_C	C4	C4
CPIZJC	C0	
CPIZJC_C	C0	C0
CPI1CSA	2	40

$CPMASTR information

$CPMASTR programming interface information

$CPMASTR is a programming interface.

$CPMASTR heading information

Common name: Cell Pool Master Element

Macro ID: $CPMASTR

DSECT name: CPMASTR

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CPMR'
Offset: CPMID-CPMASTR
Length: 4

Storage attributes: Subpool: 231
Key: 1
Residency: Extended private

Size: See CPMSIZE

Created by: CPBUILD Routine in HASCPOOL
(Main Task and User environments)

Pointed to by: The addresses of the $CPINDEX Table

Serialization: Compare and Swap logic will be used to insert a CPMASTR element in the JES2 pre-defined cell types. To insert a user-defined cell type, a lock (CPILOCK) must be obtained before the CPMASTR element for that type can be inserted.

Function: The Cell Pool Master Element contains information on the Cell Pool ID, the size of the cells, the maximum number of cells allowed in this cell pool, etc.
See mapping for details.

$CPMASTR mapping

Table 103. Structure CPMASTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPMASTR	Cell Pool Master Element
0	(0)	CHARACTER	4	CPMID	CPMASTR Identifier
4	(4)	BITSTRING	1	CPMVRSN	CPMASTER Version
4	(4)	X'2'	0	CPMVNUM	"2" Version number
5	(5)	BITSTRING	1	CPMSUBP2	Cell subpool (not JES2 AS)
6	(6)	BITSTRING	1	CPMSUBP	Subpool for storage (set to CPMSUBP2 if build is not done in the JES2 address space).
7	(7)	BITSTRING	1	CPMKEY	Cell Storage Key
8	(8)	SIGNED	4	CPMOFFST	CPINDEX offset for CPMASTR
12	(C)	CHARACTER	8	CPMTYPE	Cell Type
20	(14)	CHARACTER	8	CPMDSPN	Data space name
28	(1C)	SIGNED	4	CPMCSIZE	Cell Size
32	(20)	BITSTRING	1	CPMFLAG1	CPMASTR processing flags
		1...		CPM1FALL	"B'10000000'" FREEMAIN setup storage
		.1..		CPM1ALTP	"B'01000000'" Alternate cell pool
		..1.		CPM1REAL	"B'00100000'" The real CPMASTR
		...1		CPM1PRIM	"B'00010000'" Primary extent allocated
33	(21)	BITSTRING	1	CPMFLAG2	CPMASTR pool attribute flag
		1...		CPM2CP64	"B'10000000'" Storage is above the bar
		.1..		CPM2CP31	"B'01000000'" Storage is above the line
		..1.		CPM2CP24	"B'00100000'" Storage is below the line
		...1		CPM2DSP	"B'00010000'" Cell pool in a data space
		.... 1...		CPM2CSA	"B'00001000'" Cell pool is in common
		.... .1..		CPM2NCLR	"B'00000100'" Don't clear cell storage between uses (up to caller to clear)
		.... ..1.		CPM2RANY	"B'00000010'" Real storage can be above
		1		CPM2GDBS	"B'00000001'" Cell Don't have grd bytes
34	(22)	BITSTRING	1	CPMFLAG3	CPMASTR data space flags (Flags must be the same as in DSWAIFL2)
		1...		CPM3FPRO	"B'10000000'" FPROT=YES specified
		.1..		CPM3NPRO	"B'01000000'" FPROT=NO specified
		..1.		CPM3MSTR	"B'00100000'" OWNER=MASTER specified
		...1		CPM3CURR	"B'00010000'" OWNER=CURRENT specified
		.... 1...		CPM3AUX	"B'00001000'" OWNER=AUX specified
		.... .1..		CPM3LOCL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		CPM3ALL	"B'00000010'" SCOPE=ALL specified
		1		CPM3COMM	"B'00000001'" SCOPE=COMMON specified
35	(23)	BITSTRING	1	CPMFLAG4	CPMASTR pool attribute flag
		1...		CPM4CLRG	"B'10000000'" Clear storage on GET only

Table 103. Structure CPMASTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	CPMGEND(0)	End of general CPMASTR
36	(24)	SIGNED	4	CPMLIMIT	Max limit for num of cell
40	(28)	SIGNED	4	CPMPRMSZ	Primary extent size (cells)
44	(2C)	SIGNED	4	CPMSECSZ	Secondary ext size (cells)
44	(2C)	X'30'	0	CPMTSIZE	"*-CPMASTR" CPMASTR portion that maps over CPLTAB
48	(30)	SIGNED	2	CPMLEN	Length of storage area (Includes CPMASTR and a CPAB that follows)
50	(32)	SIGNED	2		Reserved for future use
52	(34)	ADDRESS	4	CPMCPAB	CPAB addr
56	(38)	ADDRESS	4	CPMCPINX	CPINDEX addr
60	(3C)	ADDRESS	4	CPMTCBAD	TCB Address to use with STORAGE OBTAIN
64	(40)	ADDRESS	8	CPMCPEBE	Addr to first CPEBE
72	(48)	ADDRESS	8	CPMCPEDS	Chain of CPEBEs that represent disconnected extents (CDS to modify)
80	(50)	SIGNED	4	CPMALLOC	Num of allocated cells
84	(54)	BITSTRING	8	CPM64TOK	User token for shared 64 pl
		The following 3 fields are used if the cell pool is in a data space.			
92	(5C)	ADDRESS	4	CPMDSB	DSB address
96	(60)	DBL WORD	8	CPMDSPOL(0)	+-- Dataspace work storage pool
96	(60)	ADDRESS	4	CPMDSSTR	| Addr of available Block of | storage
100	(64)	SIGNED	4	CPMDSLEN	+-- Length of storage block
100	(64)	X'68'	0	CPMSIZE	"*-CPMASTR" Size of the CPMASTR

Table 104. Cross Reference for $CPMASTR

Name	Offset	Hex Tag
CPMALLOC	50	
CPMASTR	0	
CPMCPAB	34	
CPMCPEBE	40	
CPMCPEDS	48	
CPMCPINX	38	
CPMCSIZE	1C	
CPMDSB	5C	
CPMDSLEN	64	
CPMDSPN	14	
CPMDSPOL	60	
CPMDSSTR	60	
CPMFLAG1	20	
CPMFLAG2	21	
CPMFLAG3	22	
CPMFLAG4	23	
CPMGEND	24	
CPMID	0	C3D7D4D9

Table 104. Cross Reference for $CPMASTR (continued)

Name	Offset	Hex Tag
CPMKEY	7	
CPMLEN	30	
CPMLIMIT	24	
CPMOFFST	8	
CPMPRMSZ	28	
CPMSECSZ	2C	
CPMSIZE	64	68
CPMSUBP	6	
CPMSUBP2	5	
CPMTCBAD	3C	
CPMTSIZE	2C	30
CPMTYPE	C	
CPMVNUM	4	2
CPMVRSN	4	
CPM1ALTP	20	40
CPM1FALL	20	80
CPM1PRIM	20	10
CPM1REAL	20	20
CPM2CP24	21	20
CPM2CP31	21	40
CPM2CP64	21	80
CPM2CSA	21	8
CPM2DSP	21	10
CPM2GDBS	21	1
CPM2NCLR	21	4
CPM2RANY	21	2
CPM3ALL	22	2
CPM3AUX	22	8
CPM3COMM	22	1
CPM3CURR	22	10
CPM3FPRO	22	80
CPM3LOCL	22	4
CPM3MSTR	22	20
CPM3NPRO	22	40
CPM4CLRG	23	80
CPM64TOK	54	

$CPPWORK information

$CPPWORK programming interface information

$CPPWORK is a programming interface.

$CPPWORK heading information

Common name: CPOOL Query Pool Work Area Mapping

Macro ID: $CPPWORK

DSECT name:	CPPWPARM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPPWSIZE
Created by:	User of the $CPOOL query pool (QPOOL) service
Pointed to by:	Register 0 on entry to the CPQPOOL service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use $CPOOL QPOOL service. Information is passed back via this storage.

$CPPWORK mapping

Table 105. Structure CPPWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPPWPARM	, CPOOL Query Pool Work Area
0	(0)	CHARACTER	8	CPPWUSER	User name or cell type
8	(8)	DBL WORD	8	CPPWCSIZ_64	Cell size
8	(8)	X'C'	0	CPPWCSIZ	"CPPWCSIZ_64+4,4,C'F'" 32-bit version
16	(10)	DBL WORD	8	CPPWCNUM_64	Total number of cells
16	(10)	X'14'	0	CPPWCNUM	"CPPWCNUM_64+4,4,C'F'" 32-bit version
24	(18)	DBL WORD	8	CPPWACNM_64	Number of available cells
24	(18)	X'1C'	0	CPPWACNM	"CPPWACNM_64+4,4,C'F'" 32-bit version
32	(20)	DBL WORD	8	CPPWNMXT_64	Number of extents
32	(20)	X'24'	0	CPPWNMXT	"CPPWNMXT_64+4,4,C'F'" 32-bit version
40	(28)	SIGNED	4	CPPWRC	MVS service return code
44	(2C)	SIGNED	4	CPPWALET	ALET to access pool
44	(2C)	X'30'	0	CPPWSIZE	"*-CPPWPARM" Size of parmlist

Table 106. Cross Reference for $CPPWORK

Name	Offset	Hex Tag
CPPWACNM	18	1C
CPPWACNM_64	18	
CPPWALET	2C	
CPPWCNUM	10	14
CPPWCNUM_64	10	
CPPWCSIZ	8	C
CPPWCSIZ_64	8	
CPPWNMXT	20	24
CPPWNMXT_64	20	
CPPWPARM	0	
CPPWRC	28	
CPPWSIZE	2C	30
CPPWUSER	0	

$CPXWORK information

$CPXWORK programming interface information

$CPXWORK is a programming interface.

$CPXWORK heading information

Common name:	CPOOL Query Extent Work Area Mapping
Macro ID:	$CPXWORK
DSECT name:	CPXWPARM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPXWSIZE
Created by:	Caller of the $CPOOL query extent (QEXT) service
Pointed to by:	Register 0 on entry to the CPQEXT service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use $CPOOL QEXT service. Information is passed back via this storage.

$CPXWORK mapping

Table 107. Structure CPXWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPXWPARM	, CPOOL Query Ext Work Area DSECT
0	(0)	SIGNED	4	CPXWEXTN	Extent number
4	(4)	SIGNED	4	CPXWSTAT	Extent status
8	(8)	ADDRESS	8	CPXWCPEB_64	CPEB addr for this extent
8	(8)	X'C'	0	CPXWCPEB	"CPXWCPEB_64+4,4,C'A'" 31-bit version
16	(10)	DBL WORD	8	CPXWEBLN_64	Length of CPEB in bytes
16	(10)	X'14'	0	CPXWEBLN	"CPXWEBLN_64+4,4,C'F'" 32-bit version
24	(18)	ADDRESS	8	CPXWSTOR_64	Storage address
24	(18)	X'1C'	0	CPXWSTOR	"CPXWSTOR_64+4,4,C'A'" 31-bit version
32	(20)	DBL WORD	8	CPXWSTSZ_64	Storage size
32	(20)	X'24'	0	CPXWSTSZ	"CPXWSTSZ_64+4,4,C'F'" 32-bit version
40	(28)	DBL WORD	8	CPXWCELL_64	Total number of cells in ext.
40	(28)	X'2C'	0	CPXWCELL	"CPXWCELL_64+4,4,C'F'" 32-bit version
48	(30)	DBL WORD	8	CPXWAVAI_64	Number of available cells
48	(30)	X'34'	0	CPXWAVAI	"CPXWAVAI_64+4,4,C'F'" 32-bit version
56	(38)	SIGNED	4	CPXWRC	MVS service return code
56	(38)	X'3C'	0	CPXWSIZE	"*-CPXWPARM" Size of parmlist

Table 108. Cross Reference for $CPXWORK

Name	Offset	Hex Tag
CPXWAVAI	30	34
CPXWAVAI_64	30	

Table 108. Cross Reference for $CPXWORK (continued)

Name	Offset	Hex Tag
CPXWCELL	28	2C
CPXWCELL_64	28	
CPXWCPEB	8	C
CPXWCPEB_64	8	
CPXWEBLN	10	14
CPXWEBLN_64	10	
CPXWEXTN	0	
CPXWPARM	0	
CPXWRC	38	
CPXWSIZE	38	3C
CPXWSTAT	4	
CPXWSTOR	18	1C
CPXWSTOR_64	18	
CPXWSTSZ	20	24
CPXWSTSZ_64	20	

$CSVPARM information

$CSVPARM programming interface information

$CSVPARM is a programming interface.

$CSVPARM heading information

Common name: CSV $$$$LOAD/$$$$DEL Parm List

Macro ID: $CSVPARM

DSECT name: CSVP

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'CSVP'
Offset: CSVPID-CSVP
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual is in 31 bit storage in the JES2 address space. Real can be anywhere in 64 bit storage.

Size: See CSVPLEN

Created by: The CSVP is created before $$$$LOAD or $$$$DEL is called.

Pointed to by: General register 1 on entry to the $$$$LOAD or $$$$DEL routine.

Serialization: None required.

Function: This DSECT provides the mapping for the parameters passed to the $$$$LOAD or $$$$DEL service routine.

$CSVPARM mapping

Table 109. Structure CSVP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CSVP	
0	(0)	CHARACTER	4	CSVPID	Eye catcher

Table 109. Structure CSVP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	2	CSVPSIZE	Size of parameter list
6	(6)	ADDRESS	1	CSVPVER	Version number for base section
6	(6)	X'1'	0	CSVPVERN	"1" Version number equate for base
7	(7)	ADDRESS	1	CSVPTYPE	Routine identifier
7	(7)	X'1'	0	CSVPLOAD	"1" $$$$LOAD parameter list
7	(7)	X'2'	0	CSVPDEL	"2" $$$$DEL parameter list
8	(8)	ADDRESS	4	CSVPLMT	Related LMT address
12	(C)	ADDRESS	4	CSVPMIT	Related module/MIT address
16	(10)	SIGNED	4	(4)	Reserved
32	(20)	DBL WORD	8	CSVPORG(0)	Start of routine specific area
	$$$$LOAD parameter list				
32	(20)	BITSTRING	1	CSVPLCMD	Reason for load
32	(20)	X'0'	0	CSVPLCJS	"0" JES2 performing load (internal)
32	(20)	X'1'	0	CSVPLCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPLCAL	"2" $ADD LOAD command
32	(20)	X'3'	0	CSVPLCRL	"3" $T LOAD,REFRESH command
33	(21)	BITSTRING	1	CSVPLLOC	Where the module was loaded
33	(21)	X'1'	0	CSVPLPVT	"1" Loaded to JES2 private
33	(21)	X'2'	0	CSVPLCSA	"2" Loaded to common storage
33	(21)	X'3'	0	CSVPLLPA	"3" Loaded to LPA
34	(22)	BITSTRING	1	CSVPLMSC	Miscellaneous flags
		1...		CSVPLWPC	"B'10000000'" $$$$LOAD was previously called
35	(23)	BITSTRING	1		Reserved
36	(24)	ADDRESS	4	CSVPLOLD	For a $TLOAD REFRESH, LMT of module being replaced
	CSVPL$DR contains the address of an additional $$$$DEL type routine (name does not matter) that will get control when the module is deleted (before the normal $$$$DEL routine). This routine can be used in the case of a force delete of a module where the storage has already been freed. In particular, when JES2 detects that MVS has deleted the module from LPA. Because the module storage no longer exists, this routine should be in a separate memory location.				
40	(28)	ADDRESS	4	CSVPL$DR	Addr of an additional $$$$DEL rtn
	$$$$LOAD return codes				
40	(28)	X'0'	0	CSVPLROK	"0" Continue load
	$$$$DEL parameter list				
32	(20)	BITSTRING	1	CSVPDCND	Reason for delete
32	(20)	X'0'	0	CSVPDCJS	"0" JES2 performing delete (internal)
32	(20)	X'1'	0	CSVPDCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPDCDL	"2" $DEL LOAD command
32	(20)	X'3'	0	CSVPDCRL	"3" $T LOAD,REFRESH command
32	(20)	X'4'	0	CSVPDCTR	"4" $PJES2 processing

Table 109. Structure CSVP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'5'	0	CSVPDCSC	"5" Secondary call
33	(21)	BITSTRING	1	CSVPDIND	Call flags
		1...		CSVPDSND	"B'10000000'" Second call (after a RC 4/8)
		.1..		CSVPDFRC	"B'01000000'" Module being force deleted
		..1.		CSVPDFRE	"B'00100000'" Storage for module has been freed
34	(22)	BITSTRING	2		Reserved
36	(24)	ADDRESS	4	CSVPDNEW	For a $TLOAD REFRESH, LMT of new module that was loaded

```
$$$$DEL return codes
0 - Continue deletion normally. This routine will
    not be called again.
4 - Do not delete the module now. JES2 will delete
    dynamic tables and exit routines but will not
    free the storage. This service will be called
    again under the MISC PCE once JES2 believes all
    users of the module are gone (with CSVPDSND
    set). If the second call again give a return
    code 4, $$$$DEL will be called again at about a
    5 minute interval. JES2 may make a force
    delete call at any time.
8 - Same processing as RC=4 except that JES2 will
    not make a second call under the MISC PCE. A
    second call will be made in the case of a force
    delete, or after a JES2 hot start (for CSA or
    LPA modules).
```

36	(24)	X'0'	0	CSVPDROK	"0" Continue delete
36	(24)	X'4'	0	CSVPDRNN	"4" Do not physically delete module now
36	(24)	X'8'	0	CSVPDRND	"8" Never physically delete module
48	(30)	DBL WORD	8	(0)	Ensure alignment
48	(30)	X'30'	0	CSVPLEN	"*-CSVP" Length of CSV parm list

Table 110. Cross Reference for $CSVPARM

Name	Offset	Hex Tag
CSVP	0	
CSVPDCDL	20	2
CSVPDCIN	20	1
CSVPDCJS	20	0
CSVPDCND	20	
CSVPDCRL	20	3
CSVPDCSC	20	5
CSVPDCTR	20	4
CSVPDEL	7	2
CSVPDFRC	21	40
CSVPDFRE	21	20
CSVPDIND	21	
CSVPDNEW	24	
CSVPDRND	24	8
CSVPDRNN	24	4
CSVPDROK	24	0
CSVPDSND	21	80

Table 110. Cross Reference for $CSVPARM (continued)

Name	Offset	Hex Tag
CSVPID	0	C3E2E5D7
CSVPL$DR	28	
CSVPLCAL	20	2
CSVPLCIN	20	1
CSVPLCJS	20	0
CSVPLCMD	20	
CSVPLCRL	20	3
CSVPLCSA	21	2
CSVPLEN	30	30
CSVPLLOC	21	
CSVPLLPA	21	3
CSVPLMSC	22	
CSVPLMT	8	
CSVPLOAD	7	1
CSVPLOLD	24	
CSVPLPVT	21	1
CSVPLROK	28	0
CSVPLWPC	22	80
CSVPMIT	C	
CSVPORG	20	
CSVPSIZE	4	
CSVPTYPE	7	
CSVPVER	6	
CSVPVERN	6	1

$CTOKEN information

$CTOKEN heading information

Common name: Client Token mapping

Macro ID: $CTOKEN

DSECT name: CTOKEN ($CTOKEN is part of the IAZCTKN DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: See IAZCTKN
Key: See IAZCTKN
Residency: See IAZCTKN

Size: See IAZCTKN

Created by: See IAZCTKN

Pointed to by: This DSECT maps the field CTKNJESD in the IAZCTKN data area

Serialization: None required

Function: Maps the JES2 dependent portion of the client token (mapped by IAZCTKN). The client token may be returned as a result of:
o A dynamic allocation request - Client token
o As part of an ENF parameter list - Client token
o Extended status (terse) - JOE token
o Extended status (verbose) - data set token
o SAPI putget - data set token
The JES2 dependent portion of the client token contains the information that JES2 needs to uniquely identify and locate the data set represented by the client token.

$CTOKEN mapping

Table 111. Structure CTOKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTOKEN	, HASP Client Token DSECT
16	(10)	SIGNED	4	CTK2JOBN	A.Job number
20	(14)	BITSTRING	4	CTK2JOBK	A.Job identifier key
24	(18)	SIGNED	4	CTK2DSID	CD.Data set number
28	(1C)	BITSTRING	4	CTK2MTTR	CD.IOT MTTR for data set
28	(1C)	X'1C'	0	CTK2MQTR_LO	"CTK2MTTR,L'CTK2MTTR,C'X'" CD.Low 4 bytes of MQTR if CTK21MQT is set
32	(20)	CHARACTER	12	CTK2JOEI(0)	J.JOE Identification block
32	(20)	CHARACTER	8	CTK2JONM	J.JOE's output group name
40	(28)	SIGNED	2	CTK2JOI1	J.JOE'S output group id1
42	(2A)	SIGNED	2	CTK2JOI2	J.JOE'S output group id2
44	(2C)	SIGNED	4	CTK2PDBO	D.Offset of PDDB within IOT
48	(30)	SIGNED	4	CTK2JOEN	J.Work JOE index
52	(34)	CHARACTER	8	CTK2JDVT	D.From JCTJDVT
60	(3C)	SIGNED	1	CTK2LINC	D.From JCTLINCT
61	(3D)	SIGNED	2	CTK2DSIN	CD.Data set instance number
63	(3F)	BITSTRING	14		Reserved
77	(4D)	BITSTRING	2	CTK2MQTR_HI	CD.High 2 bytes of MQTR if CTK21MQT is set
79	(4F)	BITSTRING	1	CTK2FLG1	A.Flag byte
		1...		CTK21TCT	"B'10000000'" C.Token represents a data set (Created as a result of a dynamic allocation request)
		.1..		CTK21TJO	"B'01000000'" J.Token represents a JOE rather than a data set
		..1.		CTK21TSA	"B'00100000'" D.Token represents a data set (Returned as a result of a SAPI Put/Get Request, a verbose extended status or an FSS GETDS)
		...1		CTK21MQT	"B'00010000'" C.MQTR provided
79	(4F)	X'40'	0	CTK2SIZE	"*-CTKNJESD" Length of HASP section
80	(50)	ADDRESS	2	(0)	Generate assembly error if CTK2SIZE exceeds L'CTKNJESD
		The following equates provide values for the Bit Map based on which parts of the Client Token are valid to be used in comparisions. Two equates are required to map the Bit Map (each equate maps 32 bits). Mappings for the first 32 bits			
		....		CTK2B_JOBN	"B'11110000000000000000000000000000', 4,C'B'"

Table 111. Structure CTOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		CTK2B_JOBK	"B'00001111000000000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSID	"B'00000000111100000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_MTTR	"B'00000000000011110000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JONM	"B'00000000000000001111111100000000', 4,C'B'"
		11..		CTK2B_JOI1	"B'00000000000000000000000011000000', 4,C'B'"
		..11		CTK2B_JOI2	"B'00000000000000000000000000110000', 4,C'B'"
80	(50)	X'FFF0'	0	CTK2B_JOEI	"CTK2B_JONM+CTK2B_JOI1+CTK2B_JOI2,4,C 'B'"
		 1111		CTK2B_PDBO	"B'00000000000000000000000000001111', 4,C'B'"
	Mappings for the second 32 bits				
		....		CTK2B_JOEN	"B'11110000000000000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JDVT	"B'00001111111100000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_LINC	"B'00000000000010000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSIN	"B'00000000000001100000000000000000', 4,C'B'"
		1		CTK2B_FLG1	"B'00000000000000000000000000000001', 4,C'B'"
		.... .11.		CTK2B_MQTR	"B'00000000000000000000000000000110', 4,C'B'"
	CTK2BCT1 and CTK2BCT2 indicate that the job number, job key, data set number are valid in the Client Token. CTK2BJO1 and CTK2BJO2 indicate that the job number, job key and JOE Group Name are valid in the JOE Token. CTK2BJB1 and CTK2BJB2 indicate that the job number and job key are valid in the Client Token (token is a job level token). CTK2BDS1 and CTK2BDS2 indicate that the job number, job key, data set number and PDDB offset are valid in the data set token.				
80	(50)	X'F00000'	0	CTK2BCT1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID,4,C 'B'"
		....		CTK2BCT2	"B'00000000000000000000000000000000', 4,C'B'"
80	(50)	X'FFF0'	0	CTK2BJO1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_JOEI,4,C 'B'"
		....		CTK2BJO2	"B'00000000000000000000000000000000', 4,C'B'"
80	(50)	X'0'	0	CTK2BJB1	"CTK2B_JOBN+CTK2B_JOBK,4,C'B'"
		....		CTK2BJB2	"B'00000000000000000000000000000000', 4,C'B'"
80	(50)	X'F0000F'	0	CTK2BDS1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID+CTK 2B_PDBO ,4,C'B'"
		....		CTK2BDS2	"B'00000000000000000000000000000000', 4,C'B'"

Table 112. Cross Reference for $CTOKEN

Name	Offset	Hex Tag
CTK2B_DSID	50	F00000
CTK2B_DSIN	50	60000
CTK2B_FLG1	50	1
CTK2B_JDVT	50	F00000
CTK2B_JOBK	50	0
CTK2B_JOBN	50	0
CTK2B_JOEI	50	FFF0
CTK2B_JOEN	50	0
CTK2B_JOI1	50	C0
CTK2B_JOI2	50	30
CTK2B_JONM	50	FF00
CTK2B_LINC	50	80000
CTK2B_MQTR	50	6
CTK2B_MTTR	50	F0000
CTK2B_PDBO	50	F
CTK2BCT1	50	F00000
CTK2BCT2	50	0
CTK2BDS1	50	F0000F
CTK2BDS2	50	0
CTK2BJB1	50	0
CTK2BJB2	50	0
CTK2BJO1	50	FFF0
CTK2BJO2	50	0
CTK2DSID	18	
CTK2DSIN	3D	
CTK2FLG1	4F	
CTK2JDVT	34	
CTK2JOBK	14	
CTK2JOBN	10	
CTK2JOEI	20	
CTK2JOEN	30	
CTK2JOI1	28	
CTK2JOI2	2A	
CTK2JONM	20	
CTK2LINC	3C	
CTK2MQTR_HI	4D	
CTK2MQTR_LO	1C	1C
CTK2MTTR	1C	
CTK2PDBO	2C	
CTK2SIZE	4F	40
CTK21MQT	4F	10
CTK21TCT	4F	80
CTK21TJO	4F	40
CTK21TSA	4F	20
CTOKEN	0	

$CTW information

$CTW heading information

Common name:	Checkpoint Trace Work Area DSECT
Macro ID:	$CTW
DSECT name:	CTW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CTW Offset: CTWLID Length: L'CTWLID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CTWFXEND + (Number of CTENTS)*CTWCTLEN
Created by:	JES2 Initialization
Pointed to by:	CKWCTWA field of the CKW data area
Serialization:	Normal PCE dispatch serialization
Function:	The $CTW maps a work area used by the Checkpoint PCE to save performance trace information.

$CTW mapping

Table 113. Structure CTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTW	
0	(0)	CHARACTER	4	CTWLID	CTW IDENTIFIER
4	(4)	BITSTRING	1	CTWVER	CTW VERSION IDENTIFIER
4	(4)	X'3'	0	CTWVERN	"3" CTW version number
5	(5)	BITSTRING	1	CTWSERV	Service indicator
5	(5)	X'1'	0	CTWREAD1	"1" Service is READ1
5	(5)	X'2'	0	CTWREAD2	"2" Service is READ2
5	(5)	X'3'	0	CTWPRIMW	"3" Service is primary write
5	(5)	X'4'	0	CTWINTW	"4" Service is intermed. wrt
5	(5)	X'5'	0	CTWFINW	"5" Service is final write
5	(5)	X'6'	0	CTWFMT	"6" Service is format
5	(5)	X'7'	0	CTWRECON	"7" Service is CKPT reconfig
6	(6)	BITSTRING	1	CTWFLAG1	Flags
		1...		CTW1CYMG	"B'10000000'" Cycle management on
		.1..		CTW1PRIO	"B'01000000'" This data was affected by priority aging
		..1.		CTW1CKDS	"B'00100000'" 0 if I/O to CKPT1, 1 if I/O to CKPT2
		...1		CTW1CKCF	"B'00010000'" CKPT is on CF
		.... 1...		CTW1DUAL	"B'00001000'" CKPT is in DUAL mode
		.... .1..		CTW1EWRT	"B'00000100'" CKPT write started early
7	(7)	BITSTRING	1		Reserved for future use
8	(8)	SIGNED	2	CTWDATA(0)	START OF CTW DATA

Table 113. Structure CTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Subtask performance statistics This area is defined the same in $DTECKDA, $DTECKCF and $CTW.			
8	(8)	SIGNED	4	CTWSTSTR(0)	Start of statistics
8	(8)	DBL WORD	8	CTWSTTIM	Wall clock to complete req
16	(10)	DBL WORD	8	CTWSTCPU	CPU time to complete req
24	(18)	SIGNED	4	CTWSTIOC	I/O count for request
28	(1C)	SIGNED	4	CTWSTCNT	CB count for request
28	(1C)	X'8'	0	CTWSTERF	"CTWSTSTR,*-CTWSTSTR" Field for all statistics
		End of subtask performance statistics			
32	(20)	DBL WORD	8	CTWIOSTR	I/O START TIME
40	(28)	DBL WORD	8	CTWIOSTP	I/O STOP TIME
48	(30)	SIGNED	4	CTWCKPWT	NUM OF TIMES THE CKPT PCE $WAITED BEFORE BEING DISPATCHED
52	(34)	SIGNED	4	CTWCLNPA	NUMBER OF PAGES ALLOCATED TO CHANGE LOG
56	(38)	SIGNED	4	CTWCLNPU	NUM OF USED PAGES IN CHANGE LOG
60	(3C)	SIGNED	4	CTWCLPR1	NUMBER OF CH LOG PAGES READ IN
64	(40)	SIGNED	4	CTWMINHL	MINHOLD VALUE
68	(44)	SIGNED	4	CTWMINDR	MINDORM VALUE
72	(48)	SIGNED	4	CTWMAXDR	MAXDORM VALUE
76	(4C)	SIGNED	4	CTWCLNCB	NUMBER OF CONTROL BLOCKS IN THE CHANGE LOG
80	(50)	SIGNED	4	CTWNMPCE	NUMBER OF PCES DEFINED
84	(54)	SIGNED	4	CTWWTPCE	NUMBER OF PCES WAITING FOR CKPT
88	(58)	SIGNED	4	CTWMXTIM	MAXIMUM AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
92	(5C)	SIGNED	4	CTWAVTIM	AVERAGE AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
96	(60)	SIGNED	4	CTWCLNBU	NUM OF USED BYTES IN THE CH LOG
100	(64)	SIGNED	4	CTWHLTIM	CHECKPOINT HELD TIME
104	(68)	SIGNED	4	CTWDRMTM	CHECKPOINT DORMANCY TIME
108	(6C)	SIGNED	4	CTWPGNCL	PAGES TRANS. IF NO CH LOG
112	(70)	SIGNED	4	CTWLEVNM	LEVEL NUMBER OF DATASET
		Performance data measures for the JES2 checkpoint trace records. The measures are for, at most, one checkpoint cycle (not all measurements are collected for an entire checkpoint cycle).			
116	(74)	SIGNED	4	CTWCKPTN	Number of $CKPTs issued
120	(78)	SIGNED	4	CTWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
124	(7C)	SIGNED	4	CTWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
128	(80)	SIGNED	4	CTWQSMAX	Time between getting CKPT and most recent $WAIT by PCE with $QSUSE (in microsecs)

Table 113. Structure CTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	SIGNED	4	CTWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
136	(88)	SIGNED	4	CTWPAINR	$QSUSE pain rate
140	(8C)	SIGNED	4	CTWPAINV	$QSUSE pain value
144	(90)	SIGNED	4	CTWOHV	CKPT access overhead (in microsecs)
148	(94)	SIGNED	4	CTWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
152	(98)	SIGNED	4	CTWOPT4K	Number of 4K pages skipped due to CKPT optimization
160	(A0)	DBL WORD	8	CTWMSBTM	KMAINSB wall clock time
168	(A8)	DBL WORD	8	CTWMSBCP	KMAINSB CPU time
176	(B0)	SIGNED	2	CTWKITNM	Number of CTENT entries
178	(B2)	SIGNED	2		Reserved for future use
178	(B2)	X'B4'	0	CTWFXEND	"*-CTW" END OF FIXED PORTION OF CTW
180	(B4)	SIGNED	4	CTWCTNTS(0)	START OF CTENT INFORMATION:
180	(B4)	X'0'	0	CTWCTNMP	"0,4" NUM OF PAGES FOR THIS CTENT
180	(B4)	X'4'	0	CTWCTNMC	"4,4" NUMBER OF CONTROL BLOCKS FOR THIS CTENT
180	(B4)	X'8'	0	CTWCTLEN	"L'CTWCTNMP+L'CTWCTNMC" LENGTH OF CTW CTENT ENTRY

Table 114. Cross Reference for $CTW

Name	Offset	Hex Tag
CTW	0	
CTWAVTIM	5C	
CTWCKPTN	74	
CTWCKPWT	30	
CTWCLNBU	60	
CTWCLNCB	4C	
CTWCLNPA	34	
CTWCLNPU	38	
CTWCLPR1	3C	
CTWCTLEN	B4	8
CTWCTNMC	B4	4
CTWCTNMP	B4	0
CTWCTNTS	B4	
CTWDATA	8	
CTWDRMTM	68	
CTWFINW	5	5
CTWFLAG1	6	
CTWFMT	5	6
CTWFXEND	B2	B4
CTWHLTIM	64	
CTWINTW	5	4
CTWIOSTP	28	
CTWIOSTR	20	
CTWKITNM	B0	

Table 114. Cross Reference for $CTW (continued)

Name	Offset	Hex Tag
CTWLEVNM	70	
CTWLID	0	C3E3E640
CTWMAXDR	48	
CTWMINDR	44	
CTWMINHL	40	
CTWMSBCP	A8	
CTWMSBTM	A0	
CTWMVSWT	78	
CTWMXTIM	58	
CTWNMPCE	50	
CTWOHV	90	
CTWOPTCK	94	
CTWOPT4K	98	
CTWPAINR	88	
CTWPAINV	8C	
CTWPGNCL	6C	
CTWPRIMW	5	3
CTWQSMAX	80	
CTWQSUSE	7C	
CTWREAD1	5	1
CTWREAD2	5	2
CTWRECON	5	7
CTWSERV	5	
CTWSTCNT	1C	
CTWSTCPU	10	
CTWSTERF	1C	8
CTWSTIOC	18	
CTWSTSTR	8	
CTWSTTIM	8	
CTWVER	4	
CTWVERN	4	3
CTWWTPCE	54	
CTWWTTM	84	
CTW1CKCF	6	10
CTW1CKDS	6	20
CTW1CYMG	6	80
CTW1DUAL	6	8
CTW1EWRT	6	4
CTW1PRIO	6	40

$CVCB information

$CVCB heading information

Common name: Checkpoint Version Control Block

Macro ID: $CVCB

DSECT name: CVCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: $CVCB
Offset: CVCB_ID-CVCB
Length: L'CVCB_ID

Storage attributes: Subpool: 231
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.

Size: See CVCBSIZE

Created by: HASPCKVR

Pointed to by: SCIDCVCB field of $SCID data area
SPUD_LATEST_ADDR field of $SCID data area
SPUD_FREE_ADDR field of $SCID data area
SPUD_HOLD_ADDR field of $SCID data area
SPUD_LIVE_ADDR field of $SCID data area
OLD_LIVE_ADDR field of $SCID data area
CVCB_NEXT_ADDR field of $CVCB data area
DSRVCVPT field of IAZDSERV data area
DSRVCNPT field of IAZDSERV data area

Serialization: Serialization is handled by means of ENQ/DEQ.
HASPCKVR-Versioning subtask, creates all the CVCBs initially establishing the CVCB free queue.
When a copy of the real in storage checkpoint data set is made into the first data space as a version, the representative CVCB is placed in the SCID (Summary of Checkpoint Information) at the head of the CVCB active queue, called SPUD_LATEST_VERSION, thus making it available to the service routine which handles the SSI request for a data space version. The service routine will issue an shared ENQ on the CVCB address contained in SPUD_LATEST_VERSION, scope=system. Following the ENQ, the service routine will check that the CVCB is still the latest version then increment the enqueue count within the CVCB by means of a compare and swap. In the case of release of access to a version, the service routine will decrement the enqueue count and DEQ on the CVCB.
When the HASPCKVR subtask picks a CVCB to update, it will issue an exclusive ENQ on the CVCB to insure that no outstanding ENQs are held against the CVCB before the update is made.
ENQ/DEQ NAMES:
Major name - CCTQNAM = 'SYSZssss'
ssss - JES2 subsystem name
Minor name - 'CVCBnnnn'
nnnn - CVCB_VERSION_NUMBER

Function: This control block describes a version of the Checkpoint data set, contained in the Checkpoint data space. A CVCB exists for each version of the checkpoint which is maintained as active by the checkpoint version subtask. There are two queues of CVCBs, a free queue and an active queue, the heads of which reside in the SCID. As a new version of the checkpoint data set is generated, the CVCB for that version is put at the head of the active queue.

$CVCB mapping

Table 115. Structure CVCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVCB	Checkpoint Version CB
0	(0)	CHARACTER	4	CVCB_ID	CVCB eye catcher
4	(4)	ADDRESS	1	CVCB_CBVN	CB version number
4	(4)	X'7'	0	CVCBCVNO	"7" Current CB version number

```
CVCB_FLAG is cleared when a CVCB version is
generated.
```

Table 115. Structure CVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	CVCB_FLAG	Flag Byte
		1...		CVCB_FDMP	"B'10000000'" SDUMP requested
		.1..		CVCB_LIVE	"B'01000000'" This is a live version
6	(6)	BITSTRING	1		Reserved
		CVCB_ENQ_SKIP_COUNT is incremented every cycle when the CVCB_ENQ_CT is non-zero. When the count reaches a certain value, an ENQ is issued to verify the CVCB_ENQ_CT field. If the ENQ is obtained, then the CVCB_ENQ_CT is set to zero.			
7	(7)	BITSTRING	1	CVCB_ENQ_SKIP_COUNT	ENQ check counter
8	(8)	SIGNED	4		Reserved
12	(C)	ADDRESS	4	CVCB_COPY_COUNT	Count of pages copied
16	(10)	ADDRESS	4	CVCB_ERROR_COUNT	Count of errors during copy
20	(14)	SIGNED	4	CVCB_ALET	CVCB ALET
24	(18)	SIGNED	4	CVCB_ALET2	Secondary ALET
28	(1C)	SIGNED	4		Reserved
32	(20)	CHARACTER	8	CVCB_STOKEN	CVCB STOKEN
40	(28)	CHARACTER	8	CVCB_STOKEN2	Secondary STOKEN
48	(30)	ADDRESS	8	CVCB_NEXT_ADDR	Next CVCB address
56	(38)	SIGNED	8	CVCB_LEVEL	Checkpoint level
64	(40)	ADDRESS	8	CVCB_MASTER_REC	Address of master record
72	(48)	ADDRESS	8	CVCB_HCT_AREA	Live version HCT area
80	(50)	ADDRESS	8	CVCB_4K_PAGES	Address of 4K pages
88	(58)	ADDRESS	8	CVCB_$CATBERT_ADDR	Address of $CATBERT
96	(60)	SIGNED	4	CVCB_ADDRS(0)	Start of section address
96	(60)	ADDRESS	8	CVCB_JOT_ADDR	JOT start address
104	(68)	ADDRESS	8	CVCB_JOX_ADDR	JOX start address
112	(70)	ADDRESS	8	CVCB_JQE_ADDR	JQE start address
120	(78)	ADDRESS	8	CVCB_QSE_ADDR	QSE start address
128	(80)	ADDRESS	8	CVCB_HCT_ADDR	HCT start address (Ckpt'ed)
136	(88)	ADDRESS	8	CVCB_JQEX_ADDR	JQE extension address
144	(90)	ADDRESS	8	CVCB_KIT_ADDR	KITs start address
152	(98)	ADDRESS	8	CVCB_JNT_ADDR	JNT start address
160	(A0)	ADDRESS	8	CVCB_JQX_ADDR	JQX start address
168	(A8)	ADDRESS	8	CVCB_BERT_ADDR	BERT start address
176	(B0)	ADDRESS	8	CVCB_DAS_ADDR	DAS start address
184	(B8)	ADDRESS	8	CVCB_TGM_ADDR	TGM start address
192	(C0)	ADDRESS	8	CVCB_ZJC_ADDR	ZJC start address
200	(C8)	ADDRESS	8	CVCB_WQPOS_ADDR	Service cls posn address
208	(D0)	ADDRESS	4	CVCB_WQPOS_ALET	Service cls posn ALET
212	(D4)	ADDRESS	4		Reserved
216	(D8)	ADDRESS	8	(8)	Reserved
280	(118)	SIGNED	4	CVCB_$DADFRCT	MAS TG free count
284	(11C)	SIGNED	4	CVCB_ENQ_CT	Count of shared ENQs
		1...		CVCB_USED	"B'10000000'" Version used this cycle
288	(120)	CHARACTER	8	CVCB_TIME	Time stamp for version

Table 115. Structure CVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	CHARACTER	8	CVCB_MAJOR(0)	Major name for ENQ
296	(128)	CHARACTER	4	CVCB_SYS	'SYSZ'
300	(12C)	CHARACTER	4	CVCB_JESID	Subsystem name
304	(130)	CHARACTER	8	CVCB_MINOR(0)	Minor name for ENQ
304	(130)	CHARACTER	4	CVCB_ENQ_ID	'CVCB'
308	(134)	SIGNED	4	CVCB_VERSION_NUMBER	Version numb of this CVCB
312	(138)	ADDRESS	8	(9)	Reserved
384	(180)		1	(0)	Alignment
384	(180)	X'180'	0	CVCBSIZE	"*-CVCB" Size of the CVCB

Table 116. Cross Reference for $CVCB

Name	Offset	Hex Tag
CVCB	0	
CVCB_$CATBERT_ADDR	58	
CVCB_$DADFRCT	118	
CVCB_ADDRS	60	
CVCB_ALET	14	
CVCB_ALET2	18	
CVCB_BERT_ADDR	A8	
CVCB_CBVN	4	
CVCB_COPY_COUNT	C	
CVCB_DAS_ADDR	B0	
CVCB_ENQ_CT	11C	
CVCB_ENQ_ID	130	
CVCB_ENQ_SKIP_COUNT	7	
CVCB_ERROR_COUNT	10	
CVCB_FDMP	5	80
CVCB_FLAG	5	
CVCB_HCT_ADDR	80	
CVCB_HCT_AREA	48	
CVCB_ID	0	
CVCB_JESID	12C	
CVCB_JNT_ADDR	98	
CVCB_JOT_ADDR	60	
CVCB_JOX_ADDR	68	
CVCB_JQE_ADDR	70	
CVCB_JQEX_ADDR	88	
CVCB_JQX_ADDR	A0	
CVCB_KIT_ADDR	90	
CVCB_LEVEL	38	
CVCB_LIVE	5	40
CVCB_MAJOR	128	
CVCB_MASTER_REC	40	
CVCB_MINOR	130	
CVCB_NEXT_ADDR	30	

Table 116. Cross Reference for $CVCB (continued)

Name	Offset	Hex Tag
CVCB_QSE_ADDR	78	
CVCB_STOKEN	20	
CVCB_STOKEN2	28	
CVCB_SYS	128	
CVCB_TGM_ADDR	B8	
CVCB_TIME	120	
CVCB_USED	11C	80
CVCB_VERSION_NUMBER	134	
CVCB_WQPOS_ADDR	C8	
CVCB_WQPOS_ALET	D0	
CVCB_ZJC_ADDR	C0	
CVCB_4K_PAGES	50	
CVCBCVNO	4	7
CVCBSIZE	180	180

$DAS information

$DAS programming interface information

The following field is **NOT** programming interface information:

- DASMAPO

$DAS heading information

Common name: Direct Access Spool Data Set

Macro ID: $DAS

DSECT name: DAS

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of DASes is preceded by an eyecatcher '**DAS POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: 0, 231, 241, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the DAS copies is ECSA. Real storage is anywhere.

Size: See DASSIZ for JES2 private storage
See DASSIZC for CSA copies
Note that CSA DAS must be quadword aligned and its size should be a multiple of a quadword

Created by: JES2 initialization allocates storage for the DASes in JES2 private and ECSA. The checkpoint versions subtask creates copies of the DASes in the checkpoint versions data space.

Pointed to by: The $DASAREA field of the $HCT data area points to the header of the DAS pool in the JES2 private area.
The $DASFRST field of the $HCT data area points to the first DAS in the JES2 private area.
The CCTDAS1 field of the $HCCT data area points to the first DAS copy in ECSA.

Serialization: JES2 checkpoint data set lock ($QSUSE)

Function: A DAS defines the characteristics of a spool data set. There is one DAS per extent for each possible extent as determined by SPOOLNUM on the SPOOLDEF statement. The DAS control blocks are contiguous in storage and are preceded by a header section. Each DAS resides in JES2 private storage with a partial copy in ECSA that is updated with each track group allocation (KBLOB). The extents are numbered (DASEXTNO) consecutively from 0 to $SPOLNUM-1. The DASes are offset from $DASAREA. When looping through a chain of DASes, an offset of zero means the end of the chain. Thus, a DAS cannot be at offset 0 from $DASAREA.

The DASes are mapped as one of the 4K checkpoint record entries. In order to modify the DAS, access to the shared queues must be owned ($QSUSE) and $CKPT must be issued with ID=DAS.

Since the DASes are checkpointed control blocks, there are at least 2 copies of each DAS in storage (the actual and I/O copies of the checkpoint in subpool 0). There also may be 1 or more copies in the checkpoint versions data space.

The field DASCTGA in the DAS is filled in only when the DAS is in ECSA. This field contains the number of track groups allocated for that DAS. If the information is needed from private storage, it resides in the master checkpoint record and is pointed to by field $DASEXT in the $HCT.

$DAS mapping

Table 117. Structure DAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DAS	
0	(0)	CHARACTER	6	DASVOLID	EBCDIC VOLSER ID
6	(6)	BITSTRING	1	DASEXTNO	BINARY EXTENT NUMBER
7	(7)	BITSTRING	1	DASFLAG	FLAG BYTE
		1...		DASDRAIN	"B'10000000'" SPOOL IS DRAINING
		.1..		DASHALT	"B'01000000'" SPOOL IS HALTING
		..1.		DASTART	"B'00100000'" SPOOL IS STARTING
		...1		DASEXSTS	"B'00010000'" SPOOL EXISTS
		.... 1...		DASSELEC	"B'00001000'" SELECTION MAY OCCUR
		.... .1..		DASALLOC	"B'00000100'" ALLOCATION MAY OCCUR
		.... ..1.		DASFINAL	"B'00000010'" Final Command Processing (Obsolete , Do not test or turn on)
		1		DASRPSF	"B'00000001'" EXTENT SUPPORTS RPS
7	(7)	X'C'	0	DASACTIV	"DASSELEC+DASALLOC" SELECTION + ALLOC. MAY OCCUR
7	(7)	X'CC'	0	DASAVAIL	"DASACTIV+DASDRAIN+DASHALT" AVAILABLE FOR SELECTION
7	(7)	X'48'	0	DASIOOK	"DASSELEC+DASHALT" I/O to extent is OK if selectable or halting unless DASTART is on too
8	(8)	BITSTRING	32	DASMASK	SPOOL MASK FOR THIS DAS MAPPED IN CSA FOR EXIT 12
40	(28)	SIGNED	4	DASTKCYL	NR OF TRACKS/CYLINDER ON DEVICE
44	(2C)	BITSTRING	2		Reserved (was DASNOTGE)
46	(2E)	SIGNED	2	DASNORTK	NUMBER OF RECORDS PER TRACK

Table 117. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The content of DASTRK is dependent on the data set type. - If volume is in large data set format (DAS5LGDS on) then DASTRKLM is the largest relative track in the SPOOL data set. DAS5LGDS implies relative track addressing. Low track is always 1. To calculate absolute track address, add DASSTRK to the TTt address. - If large data set is not active, but relative track addressing is active (DAS4RELT on), then DASLOTRK=1 and DASUPTRK is the upper relative track limit. To calculate absolute track address add DASSTRK to the TT address. - If large data set and relative track addressing are both inactive, then DASLOTRK is the low absolute track address in the data set and DASUPTRK is the upper absolute track limit. TT is the absolute track address.			
48	(30)	SIGNED	4	DASTRK(0)	Valid track range (TT)
48	(30)	SIGNED	4	DASTRKLM(0)	Upper track limit (if large data sets - DAS5LGDS on)
48	(30)	BITSTRING	2	DASLOTRK	Low value (1 if relative)
50	(32)	BITSTRING	2	DASUPTRK	Upper limit
52	(34)	SIGNED	2	DASNOTGP	NUMBER OF TRACKS PER GROUP
54	(36)	SIGNED	2	DASMTCSZ	MINIMUM TRACKCELL SIZE
56	(38)	BITSTRING	1	DASTYPE	UCB DEVICE TYPE (UCBTBYT4)
		DASFLAG4 is updated by JES2 maintask only. There is no serialization.			
57	(39)	BITSTRING	1	DASFLAG4	Fourth flag byte
		The next two bits have the following valid states: 00 No signature records, none desired 01 No signature records, but signature records desired 11 Signature records exist			
		1...		DAS4SIG	"B'10000000'" Extent has signature rcds
		.1..		DAS4MFMT	"B'01000000'" Extent needs to be mini-formatted
		..1.		DAS4SFMT	"B'00100000'" DAS is on $DASWRKQ performing mini-format
		...1		DAS4PFMT	"B'00010000'" DAS is on $DASWRKQ pending mini-format
		.... 1...		DAS4ECKD	"B'00001000'" Extent is on ECKD device
		.... .1..		DAS4RDTD	"B'00000100'" Extent supports read track data CCW
		.... ..1.		DAS4WTRD	"B'00000010'" Extent supports write track data CCW
		1		DAS4RELT	"B'00000001'" This extent uses relative track addresses
58	(3A)	ADDRESS	1	DASMIGTR	SYSID of migrator system - system housing migrator subtask. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) or DAS8MGMR (Volume is migrating - merge). Only valid for source of migration.
59	(3B)	BITSTRING	1		Reserved (was DASRPSO)

Table 117. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	CHARACTER	44	DASDSN	SPOOL data set name
104	(68)	SIGNED	4	DASTGNUM	Number of TGs in extent
108	(6C)	SIGNED	4	DASJBNUM	Lowest job number using extent while either 1. halting or draining (DAS5POST off) or 2. POSTing jobs (DAS5POST on)
112	(70)	SIGNED	4	DASSTRK	First track of spool extent if relative addressing is being used (else 0)
116	(74)	BITSTRING	1	DASFLAG5	Fifth flag byte
		1...		DAS5LGDS	"B'10000000'" Large data set support active for volume
		.1..		DAS5IOHT	"B'01000000'" HALT command initiated by I/O error condition
		..1.		DAS5FALC	"B'00100000'" Volume fully allocated
		...1		DAS5POST	"B'00010000'" POSTing activity needed/ in process for final start spool command processing
		.... 1...		DAS5CYL	"B'00001000'" Data set allcated on EAV cylinder managed-EAS storage
117	(75)	BITSTRING	1	DASFLAG6	Sixth flag byte
		1...		DAS6MAX	"B'10000000'" MAX - $SSPL and MAX has been specified on SPACE keyword parm
		.1..		DAS6CYLS	"B'01000000'" CYL - $SSPL and CYL has been specified on SPACE keyword parm
		..1.		DAS6TRKS	"B'00100000'" TRK - $SSPL and TRK has been specified on SPACE keyword parm
		.... 1...		DAS6RESV	"B'00001000'" Upon migration completion - this volume must be left in reserved state. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) and only for a target volume.
		.... .1..		DAS6RSTA	"B'00000100'" Volume is in reserved state. Selection may occur - but not allocation. This is an attribute verses state.
		.... ..1.		DAS6XTND	"B'00000010'" EXTEND command in progress
		1		DAS6XTER	"B'00000001'" EXTEND command in progress and failed before command completion. Used by Initialization to detect a data set size mismatch that should be allowed.
118	(76)	BITSTRING	4	DASSYAFF	Spool system affinity
122	(7A)	SIGNED	2		Reserved
124	(7C)	SIGNED	4	DASNUMTC	$SSPL and this field contains the number of cylinders or tracks requested for a new volume data set.
124	(7C)	BITSTRING	4	DASMAPTR	Mapped track number in target volume. This is absolute track. Valid only if a mapped volume - DASFLAG8 -> DAS8UPTG is true. Only valid for migration source volume.

Table 117. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	CHARACTER	6	DASTARG	Represents target volser for a spool migration. This could be either a move or merge migration. If a move -- then this value is not only volser -- but also a named BERT which will house the target volumes DAS during phase 1 of the ensuing migration. Only valid for migration source volume. For a mapped volume this field will identify the target DAS even after the migration is successful.
134	(86)	BITSTRING	1	DAS7PHAS	Migration phase. Only valid for a migrating source volume.
		....		DAS7NOMG	"X'00'" No migration active
		.... .1..		DAS7PEND	"X'04'" Migration command pending. In this phase source and target data sets will be validated. Also source will be inactive OR draining/halting and beyond phase 1 processing. Required for both move and merge.
		.... 1...		DAS7SET1	"X'08'" Setup and initialize migration tasking envirmonment. One member becomes migrator -- migration subtask is attached. All MAS members have migration assistant subtask attached. Subtasks are ready for pending migration. Required for both move and merge.
		.... 11..		DAS7SET2	"X'0C'" Setup2 - Migration move - all members must allocate target volume - BERT backed DAS, reserve SRC TGM and size verification. Only move.
		...1		DAS7SET3	"X'10'" Source and target size size verification. Also TGM reservation. Required for merge.
		...1 .1..		DAS7PHA1	"X'14'" Phase 1 migration. Move and merge.
		...1 11..		DAS7PHA2	"X'1C'" Phase 2 migration. Move and merge.
		Migration cleanup phases			
		..1.		DAS7CLUM	"X'20'" Migrator subtask cleanup is occuring (Backout or cancellation). Move and merge.
		..1. .1..		DAS7CLU3	"X'24'" Cleanup for migration phase DAS7SET3. (Backout or cancellation). Merge only
		..1. 1...		DAS7CLU2	"X'28'" Cleanup for migration phase DAS7SET2. (Backout or cancellation). Move only.
		..1. 11..		DAS7CLU1	"X'2C'" Cleanup for migration phase DAS7SET1. (Backout or cancellation). Move and merge.
135	(87)	BITSTRING	1	DASFLAG8	Migration flag 2
		1...		DAS8TARG	"B'10000000'" This volume is a migration target. Only valid for target - not source.
		.1..		DAS8TMOV	"B'01000000'" Target allocation was initiated by move verses merge. Only valid for target - not source.
		..1.		DAS8MGMV	"B'00100000'" Migrating - move. Only valid for migrating src.

Table 117. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DAS8MGMR	"B'00010000'" Migrating - merge. Only valid for migrating src.
		.... 1...		DAS8UPTG	"B'00001000'" Mapped volume and runtime must update target TGM if and only if DASTARTS is also > 0. DAS8UPTG is set on at the atomic point of merge and stays set until the DAS goes away.
		.... .1..		DAS8MAPT	"B'00000100'" This volume is mapped-on by at least one volume.
		.... ..1.		DAS8CANC	"B'00000010'" Either error or operator has requested migration cancel.
		1		DAS8CNAK	"B'00000001'" Migration is being cancelled.
136	(88)	SIGNED	4	DASTRAKQ	OFFSET OF NEXT DAS IN THE TGM
140	(8C)	SIGNED	4	DASWORKQ	OFFSET OF NXT DAS ON CMD WORK Q
144	(90)	SIGNED	4	DASMAPSZ	Number of bytes in the track group map
148	(94)	SIGNED	4	DASMAPO	OFFSET OF THIS MAP FROM $TGMAP
152	(98)	SIGNED	2	DASTGSIZ	TG SIZE ON THIS VOLUME, ROUNDED FOR NUMBER OF BUFS PER TRACK
154	(9A)	SIGNED	2		RESERVED FOR FUTURE USE
156	(9C)	BITSTRING	1	DASFLAG2	COMMAND FLAG BYTE
		1...		DASCDRN	"B'10000000'" DRAIN COMMAND HAS BEEN ISSUED
		.1..		DASCHALT	"B'01000000'" HALT COMMAND HAS BEEN ISSUED
		..1.		DASCSTRT	"B'00100000'" START COMMAND HAS BEEN ISSUED
		...1		DASCFMT	"B'00010000'" FORMAT REQUESTED
		.... 1...		DASINACT	"B'00001000'" THIS VOLUME IS INACTIVE
		.... ..1.		DASINIT	"B'00000010'" INITIAL START HAS BEEN PERFORMED **note bit out of order**

```
The following two bits determine which phase (1-3)
the drain/halt command is currently processing.
Phase | DASBLOB | DASJOBWT |
------+---------+----------+
  1 | on | n/a |
------+---------+----------+
  2 | off | on |
------+---------+----------+
  3 | off | off |
```

		.... .1..		DASBLOB	"B'00000100'" Indicates which phase of drain/halt processing has completed(acts as a gate to Phase 2, deallocation)
		1		DASJOBWT	"B'00000001'" HALT/DRAIN WAITING JOBS

```
Starting in z/OS 1.13 with the inclusion of the
Extend SPOOL command, DASCMNDS does not represent
all spool commands. Code needs to account for
command bits in DASFLAG2 and DASFLAGA.
```

156	(9C)	X'F0'	0	DASCMNDS	"DASCDRN+DASCHALT+DASCSTRT+DASCFMT"
156	(9C)	X'80'	0	DASCMND2	"DASCXTND"
157	(9D)	BITSTRING	1	DASFLAG3	FLAG BYTE
		1...		DAS3ITGM	"B'10000000'" This extent on DASTRAKQ

Table 117. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DAS3SYSA	"B'01000000'" System affinity set for this volume

```
COMPATIBILITY
       Maintainence of DAS3CNCL is needed until HJE7740
       (z/OS 1.9) cannot coexist in a MAS with the lowest
       supported release in a MAS.
       Example 1:
       +---+ +---+ +---+ +---+
       |z12| |z13| ---> |z12| |z10| = GOOD! :-)
       +---+ +---+ +---+ +---+
       Example 2:
       +---+ +---+ +---+ +---+
       |z12| |z14| ---> |z12| |z10| = GOOD! :-)
       +---+ +---+ +---+ +---+
       Example 3:
       +---+ +---+ +---+ +---+
       |z12| |z11| ---> |z9 | |z11| = BAD! :-(
       +---+ +---+ +---+ +---+
       Note: These examples assume ONLY n-2 releases are
             supported. So in other words, this bit
             can be deleted at z/14 development time.
             Also remove comements in SPOL and SXIT.
```

		..1.		DAS3CNCL	"B'00100000'" Command issued with CANCEL operand

```
END COMPATIBILITY
```

		...1		DAS3EFWZ	"B'00010000'" Extent signature record populated with zero
		.... 1...		DAS3STUN	"B'00001000'" Volume has more space than represented in map (i.e. this is stunted)
158	(9E)	BITSTRING	1	DASCMD2	Member nr issuing new cmd
159	(9F)	BITSTRING	1	DASFLAGA	Command Flag Byte #2
		1...		DASCXTND	"B'10000000'" Extend command issued
160	(A0)	SIGNED	2	DASCSAC(0)	End of area copied to CSA
160	(A0)	X'A0'	0	DASSIZCO	"*-DAS" Len of area copied to CSA

Table 118. Structure DASCSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCSA	, CSA only DAS DSECT
0	(0)	SIGNED	4	DASCTGAL	CSA only mapping of track groups allocated
4	(4)	SIGNED	4	DASCLOTK	CSA only low track limit
8	(8)	SIGNED	4	DASCUPTK	CSA only upper track limit
12	(C)	BITSTRING	64	DASRPS	RPS Table for this device
76	(4C)	BITSTRING	32	DASENQTK	ISGENQ token

```
       Start of DASMIGIO
       WARNING!!! - DASMIGIO and ASMMIGIO in $DTEASST must
                    be kept in sync
```

108	(6C)	SIGNED	4	DASMIGIO(0)	Start of migration I/O directives. This area must be atomically maintained. Area size is denoted below by DASMIGSZ.
108	(6C)	BITSTRING	1	DASFLAG9	Flag 9

Table 118. Structure DASCSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DAS9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13D015 permission request" to @Z13D015 migrator mailbox RN$<VOLSER>. VOLSER is source DAS - DASVOLID. Set by migration assistant subtask.
		.1..		DAS9MAPD	"B'01000000'" Source DAS is mapped to target and DASMAPTR must used to calculate corresponding track in target. Use DEB extent in DAS pointed by DASTRADD. Set by migration assistant subtask.
109	(6D)	ADDRESS	1	DASMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be re-done. Always captured. Set by migration assistant subtask.
110	(6E)	BITSTRING	2		Reserved
110	(6E)	X'4'	0	DASMIGSZ	"*-DASMIGIO" Length of area which must be atomically updated.
	End of DASMIGIO				
112	(70)	ADDRESS	4	DASTRADD	If migration is a merge - then this points to target associated CSA entry.
120	(78)	ADDRESS	8	DASTBITM	Address of member track level bitmap. Located in 64 bit common storage. Only valid if DADFLAG9-> DASSNMIG. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
128	(80)	SIGNED	4	DASTARTS	If this volume is mapped to another volume DAS8UPTG = ON, then this value marks start TG in target TGM. Transposer will use on all members. Note if this value is 0 then no data moved to target - in other words source was empty. If 0 - then transposer must no-op for this DAS.
132	(84)	ADDRESS	4	DASGRTOK	JESXCF group token used to create MG$VOLSER and RN$VOLSER mailboxes
136	(88)	BITSTRING	1	DASMGCMP	Migration percent complete Broadcast every so often to all MAS members.
137	(89)	BITSTRING	1	DASFLAGB	Flag B - Broadcast settings
		1...		DASBNCAN	"B'10000000'" Migration can no longer be cancelled. Broadcast to all MAS members when migration atomic point reached.
138	(8A)	BITSTRING	22		Reserved
	DEB extent information in CSA DAS must be quadword aligned due to hardware atomicity considerations Use LPQ/STPQ to get/set this field.				
160	(A0)		1	(0)	Align
160	(A0)	BITSTRING	1	DASDEBXT	DEB extent for this volume

Table 118. Structure DASCSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		DAS status is more complex starting with z/OS 1.13. Status includes the traditional settings in DASFLAG and may also need to incorporate SPOOL migration. DASSTAT combines these settings into a single status field that can be used by $SCAN. Prescan routine PREDSTS fills in this value.			
176	(B0)	BITSTRING	1	DASSTAT	Binary Status value
		...1		DASSTACT	"X'10'" SPOOL is active. Allocation may occur
		..1.		DASSTSTR	"X'20'" SPOOL is starting.
		..11		DASSTDRN	"X'30'" SPOOL is draining
		.1..		DASSTHLT	"X'40'" SPOOL is halting
		.1.1		DASSTEXT	"X'50'" SPOOL is extending
		.111		DASSTMIG	"X'70'" SPOOL is migrating
		.111 ...1		DASSTMMV	"X'71'" SPOOL is migrating-move
		.111 ..1.		DASSTMMG	"X'72'" SPOOL is migrating-merge
		1..1		DASSTMAP	"X'90'" SPOOL is mapped
		....		DASSTINA	"X'00'" SPOOL is inactive
177	(B1)	BITSTRING	3		Reserved
192	(C0)		1	(0)	Align - This must be the last declare before the end of the CSA DAS
192	(C0)	X'C0'	0	DASENDC	"*" End of CSA DAS
192	(C0)	X'C0'	0	DASCSALN	"*-DASCSA" CSA only portion of DAS len
192	(C0)	X'160'	0	DASSIZC	"DASSIZCO+DASCSALN" Length of CSA mapped DAS

Table 119. Structure DASCKPT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCKPT	, CKPT only DAS DSECT
		THE NEXT FOUR FIELDS MUST BE KEPT TOGETHER. ROUTINE DADCKALL IN HASPSPOL DEPENDS ON THESE FIELDS BEING CONTIGUOUS.			
0	(0)	SIGNED	4	DASINDIC(0)	INDICATOR FIELDS
0	(0)	BITSTRING	4	DASALOCS	Sys. with ext alloc'ed
4	(4)	BITSTRING	4	DASDONE	Cmd done on these systems
8	(8)	BITSTRING	4	DASBUSY	Cmd being done on systems
12	(C)	ADDRESS	1	DASCMDID	SYSID of sys issuing cmd
12	(C)	X'D'	0	DASINDLN	"*-DASINDIC" Length of indicator fields
13	(D)	BITSTRING	4	DASERROR	Affinity of system with command error
17	(11)	BITSTRING	35	DASERCDE	Error reason code for each member
52	(34)	SIGNED	4	(0)	ALIGN END OF DAS
52	(34)	X'34'	0	DASCKPTL	"*-DASCKPT" CKPT only portion DAS len
52	(34)	X'D4'	0	DASSIZ	"DASSIZCO+DASCKPTL" Length of CKPT mapped DAS
52	(34)	X'8'	0	DASVRSN	"8" Version of the DAS

Table 119. Structure DASCKPT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THESE EQUATES REPRESENT THE ERROR CONDITIONS THAT ARE REFLECTED IN DASERCDE. THERE IS A DASERCDE SLOT FOR EACH POSSIBLE SYSTEM IN AN MAS COMPLEX. DASERROR BIT SETTING INDICATE WHICH SYSTEM HAD AN ERROR AND WHAT OFFSET INTO DASERCDE SHOULD BE LOOKED AT.			
52	(34)	X'4'	0	DASMNTER	"4,L'DASERCDE" VOLUME NOT MOUNTED
52	(34)	X'8'	0	DASDUPER	"8,L'DASERCDE" DUPLICATE SPOOL VOLUMES
52	(34)	X'C'	0	DASALCER	"12,L'DASERCDE" ALLOCATION ERROR
52	(34)	X'10'	0	DASPMTER	"16,L'DASERCDE" PREVIOUS MOUNTED VOL NOT MOUNTED
52	(34)	X'14'	0	DASEXTER	"20,L'DASERCDE" EXTENT ERROR
52	(34)	X'18'	0	DASFMTER	"24,L'DASERCDE" PREV. MOUNTED VOL NOT FORMATTED
52	(34)	X'1C'	0	DASENQER	"28,L'DASERCDE" ENQ already held for volume
52	(34)	X'20'	0	DASUCBER	"32,L'DASERCDE" UCBINFO macro failed
52	(34)	X'24'	0	DASCDRER	"36,L'DASERCDE" IOSCDR macro failed
52	(34)	X'28'	0	DASNEDER	"40,L'DASERCDE" NED not found by IOSCDR
52	(34)	X'2C'	0	DASDIAGR	"44,L'DASERCDE" DIAGNOSE inst error
52	(34)	X'30'	0	DASDLSPC	"48,L'DASERCDE" LSPACE macro failed
52	(34)	X'34'	0	DASNOTRG	"52,L'DASERCDE" No track groups
52	(34)	X'38'	0	DASXTNDE	"56,L'DASERCDE" Extend SPOOL error
52	(34)	X'3C'	0	DASXTNSP	"60,L'DASERCDE" Extend SPOOL error - Insufficient space
52	(34)	X'40'	0	DASXTEXT	"64,L'DASERCDE" Extend SPOOL error - No extents in data set
52	(34)	X'44'	0	DASXTSIZ	"68,L'DASERCDE" Extend SPOOL error - Data set already req size
		THE FOLLOWING EQUATES ARE USED TO MAP OUT FIELDS IN THE MASTER RECORD ASSOCIATED WITH THE DAS. THE FIELDS IN THE MASTER RECORD CAN BE THOUGHT OF AS AN EXTENSION TO EACH DAS. ALTHOUGH THERE IS A DASEXTGA ASSOCIATED WITH EACH DAS, IT IS KEPT IN THE MASTER RECORD BECAUSE IT IS ALTERED BY THE CKPT PROCESSOR EACH CYCLE. THE DAS EXTENSION AREAS ARE CONTIGUOUS IN STORAGE, AS ARE THE DASES. THE NTH EXTENSION AREA IS ASSOCIATED WITH THE NTH DAS (AS DEFINED BY DASEXTNO). Note: track groups assigned to the BLOB are considered allocated for purposes of this count. DAS extension sizes if large data set support is active ($SPLLGDS on)			
52	(34)	X'0'	0	DASXTGA4	"0,4" Number of TGs allocated
52	(34)	X'4'	0	DASXTLN4	"L'DASXTGA4" Length of DAS extension

Table 120. Structure MIGR808

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIGR808	, HASP808 parms
0	(0)	CHARACTER	6	MIGRSRC	Migration source volume
6	(6)	CHARACTER	6	MIGRTAR	Migration target volume
12	(C)	BITSTRING	1	MIGRFRNT	Indication if upfront SRC and targ text should be cut. x'FF' - yes x'00' - no
13	(D)	BITSTRING	1	MIGRBACK	Requested backend text

Table 120. Structure MIGR808 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Following two fields only valid when migrator takeover message is being cut. MIGRFLAG -> MIGRFTAK			
14	(E)	CHARACTER	4	MIGDWNMR	Down or hot-startable member
18	(12)	CHARACTER	4	MIGTAKMR	Migrator takeover member
22	(16)	BITSTRING	1	MIGRFLAG	MIGR808 Flag
		1...		MIGRFMOV	"B'10000000'" Use MOVE completion text
		.1..		MIGRFMRG	"B'01000000'" Use MERGE completion text
		..1.		MIGRFTAK	"B'00100000'" Migrator takeover message
22	(16)	X'17'	0	MIGR8LEN	"*-MIGR808" Length of a HASP808 parms

Table 121. Cross Reference for $DAS

Name	Offset	Hex Tag
DAS	0	
DASACTIV	7	C
DASALCER	34	C
DASALLOC	7	4
DASALOCS	0	0
DASAVAIL	7	CC
DASBLOB	9C	4
DASBNCAN	89	80
DASBUSY	8	0
DASCDRER	34	24
DASCDRN	9C	80
DASCFMT	9C	10
DASCHALT	9C	40
DASCKPT	0	
DASCKPTL	34	34
DASCLOTK	4	0
DASCMDID	C	
DASCMD2	9E	0
DASCMNDS	9C	F0
DASCMND2	9C	80
DASCSA	0	
DASCSAC	A0	
DASCSALN	C0	C0
DASCSTRT	9C	20
DASCTGAL	0	
DASCUPTK	8	0
DASCXTND	9F	80
DASDEBXT	A0	
DASDIAGR	34	2C
DASDLSPC	34	30
DASDONE	4	0

Table 121. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DASDRAIN	7	80
DASDSN	3C	40404040
DASDUPER	34	8
DASENDC	C0	C0
DASENQER	34	1C
DASENQTK	4C	
DASERCDE	11	0
DASERROR	D	0
DASEXSTS	7	10
DASEXTER	34	14
DASEXTNO	6	0
DASFINAL	7	2
DASFLAG	7	0
DASFLAGA	9F	0
DASFLAGB	89	0
DASFLAG2	9C	0
DASFLAG3	9D	0
DASFLAG4	39	
DASFLAG5	74	
DASFLAG6	75	
DASFLAG8	87	0
DASFLAG9	6C	
DASFMTER	34	18
DASGRTOK	84	
DASHALT	7	40
DASINACT	9C	8
DASINDIC	0	
DASINDLN	C	D
DASINIT	9C	2
DASIOOK	7	48
DASJBNUM	6C	0
DASJOBWT	9C	1
DASLOTRK	30	0
DASMAPO	94	0
DASMAPSZ	90	
DASMAPTR	7C	
DASMASK	8	0
DASMGCMP	88	
DASMIGIO	6C	
DASMIGSZ	6E	4
DASMIGT	6D	
DASMIGTR	3A	
DASMNTER	34	4
DASMTCSZ	36	1
DASNEDER	34	28
DASNORTK	2E	0

Table 121. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DASNOTGP	34	0
DASNOTRG	34	34
DASNUMTC	7C	
DASPMTER	34	10
DASRPS	C	0
DASRPSF	7	1
DASSELEC	7	8
DASSIZ	34	D4
DASSIZC	C0	160
DASSIZCO	A0	A0
DASSTACT	B0	10
DASSTAT	B0	0
DASSTDRN	B0	30
DASSTEXT	B0	50
DASSTHLT	B0	40
DASSTINA	B0	0
DASSTMAP	B0	90
DASSTMIG	B0	70
DASSTMMG	B0	72
DASSTMMV	B0	71
DASSTRK	70	0
DASSTSTR	B0	20
DASSYAFF	76	
DASTARG	80	
DASTART	7	20
DASTARTS	80	
DASTBITM	78	
DASTGNUM	68	0
DASTGSIZ	98	0
DASTKCYL	28	0
DASTRADD	70	
DASTRAKQ	88	0
DASTRK	30	
DASTRKLM	30	
DASTYPE	38	0
DASUCBER	34	20
DASUPTRK	32	0
DASVOLID	0	40404040
DASVRSN	34	8
DASWORKQ	8C	0
DASXTEXT	34	40
DASXTGA4	34	0
DASXTLN4	34	4
DASXTNDE	34	38
DASXTNSP	34	3C
DASXTSIZ	34	44

Table 121. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DAS3CNCL	9D	20
DAS3EFWZ	9D	10
DAS3ITGM	9D	80
DAS3STUN	9D	8
DAS3SYSA	9D	40
DAS4ECKD	39	8
DAS4MFMT	39	40
DAS4PFMT	39	10
DAS4RDTD	39	4
DAS4RELT	39	1
DAS4SFMT	39	20
DAS4SIG	39	80
DAS4WTRD	39	2
DAS5CYL	74	8
DAS5FALC	74	20
DAS5IOHT	74	40
DAS5LGDS	74	80
DAS5POST	74	10
DAS6CYLS	75	40
DAS6MAX	75	80
DAS6RESV	75	8
DAS6RSTA	75	4
DAS6TRKS	75	20
DAS6XTER	75	1
DAS6XTND	75	2
DAS7CLUM	86	20
DAS7CLU1	86	2C
DAS7CLU2	86	28
DAS7CLU3	86	24
DAS7NOMG	86	0
DAS7PEND	86	4
DAS7PHAS	86	0
DAS7PHA1	86	14
DAS7PHA2	86	1C
DAS7SET1	86	8
DAS7SET2	86	C
DAS7SET3	86	10
DAS8CANC	87	2
DAS8CNAK	87	1
DAS8MAPT	87	4
DAS8MGMR	87	10
DAS8MGMV	87	20
DAS8TARG	87	80
DAS8TMOV	87	40
DAS8UPTG	87	8
DAS9MAPD	6C	40

Table 121. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DAS9NMIG	6C	80
MIGDWNMR	E	
MIGRBACK	D	
MIGRFLAG	16	
MIGRFMOV	16	80
MIGRFMRG	16	40
MIGRFRNT	C	
MIGRFTAK	16	20
MIGRSRC	0	
MIGRTAR	6	
MIGR8LEN	16	17
MIGR808	0	
MIGTAKMR	12	

$DAWNWRK information

$DAWNWRK heading information

Common name: JES2 DAWN Processor

Macro ID: $DAWNWRK

DSECT name: PCE ($DAWNWRK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol DWNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $DAWNPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the DAWN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 DAWN Processor and by its support routine and exits. $DAWNWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DAWNWRK are actually part of PCE DSECT, but only map PCEs with the value PCEDWNID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$DAWNWRK mapping

Table 122. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	SIGNED	4	(6)	Reserved for future use
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'18'	0	DWNPCEWL	"*-PCEWORK" Length of DAWN PCE

$DCT information

$DCT programming interface information

The following fields are **NOT** programming interface information:

- DCTACB
- DCTDCB
- DCTUCB
- MDCTPCL

$DCT heading information

Common name: Device Control Table

Macro ID: $DCT

DSECT name: DCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DCT '
Offset: DCTID-DCT
Length: 4

Storage attributes: Subpool: 2
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: Size is of varying lengths. See $DCTTABs and the length equates throughout DCT for the length specifications for each DCT type.

Created by: Most DCTs are allocated using the $DCTDYN service during initialization or as a result of a $ADD command. Remote and network subdevices are obtained during JES2 initialization.

Pointed to by:

- the PCEDCT field of the associated $PCE data area, if any
- chaining fields, and associated-device fields, in related $DCT data areas, including DCTCHAIN, DCTFSSCH, MDCTADCT, MDCTDCT, XDCTDCT, MDCTACT, XDCTACTV, MDCTSDCT
- anchor fields for all $DCTs in the $HCT data area, including $DCTPOOL and $DCTPOOL2
- anchor fields for each type of $DCT data area, in the $HCT or $UCT data area, as directed by each $DCT type's defining $DCTTAB specification
- I/O, request, and status anchors in the $HCT data area
- fields within the $MLMWORK data area, including MLMSNALG, MLMSNAAL, MLMLOGQ, MLMXLDCT
- fields within other device-managing JES2 processor work areas, like $MLMWORK, including the $RCPWORK, $NPMWORK, and $XFRWORK data area, and subtask $DTEOFF data area
- fields within RJE/NJE related data areas used for RJE terminal definition, NJE node definition, and I/O, including the RJE $RAT data area, NJE $NIT and $NITP and $PCT data areas, and VTAM $ICE data area
- fields within parameters lists for JES2 exits, in the $XPL data area, typically labeled XnnnDCT, where nnn is the exit number

The following fields are used to chain DCTs on the $#POST work queues:

- $NJEADCT field of the HCT data area
- $OFFADCT field of the HCT data area
- $LCLADCT field of the HCT data area
- DCTNACTV field of the DCT data area
- DCTPACTV field of the DCT data area

Serialization: Standard JES2 reentrancy techniques

Function: The DCT defines the devices used by the JES2 address space, their attributes and the related parameter settings. A DCT may or may not be supported on a one-for-one basis by a processor (PCE). If they are thus supported, the PCE might not exist if the DCT is not active.

$DCT mapping

Table 123. Structure DCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCT	DEVICE CONTROL TABLE DSECT
		GENERAL DCT FOUNDATION - REQUIRED AND COMMON TO ALL DCTS. NOTE THAT THE FOLLOWING FIELDS (THROUGH DCTDEVTP) MUST CORRESPOND EXACTLY TO THE PCEDADCT AND PPPDADCT FIELDS			
0	(0)	CHARACTER	4	DCTID	CONTROL BLOCK IDENTIFIER
4	(4)	SIGNED	2	DCTSIZE	DCT size in bytes
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	DCTPCE	ADDRESS OF PROCESSOR CNTRL ELEM.
12	(C)	SIGNED	4	DCTFLGFW(0)	FOLLOWING FOUR FLAG BYTES MUST BE KEPT CONTIGUOUS FOR COMPARE AND SWAP PROCESSING
12	(C)	BITSTRING	1	DCTSTAT	STATUS FLAGS
		1...		DCTINUSE	"B'10000000'" DCT is in use
		.1..		DCTDRAIN	"B'01000000'" DCT is drained
		..1.		DCTHOLD	"B'00100000'" DCT is held
		...1		DCTUNAL	"B'00010000'" DCT is unallocated
		.... 1...		DCTRTAM	"B'00001000'" DCT in process by RTAM
		.... .1..		DCTSTRT	"B'00000100'" SPOF xmitter/receiver START INDICATOR

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCTPATTN	"B'00000100'" Local reader attention pending
		.... ..1.		DCTATTN	"B'00000010'" DCT is set for attention processing
		1		DCTPAUSE	"B'00000001'" DCT is paused
13	(D)	BITSTRING	1	DCTFLAGS	OPERATOR COMMAND FLAGS
		1...		DCTSTOP	"B'10000000'" $Z command
		.1..		DCTDELET	"B'01000000'" $C command
		..1.		DCTRSTRT	"B'00100000'" $E command
		...1		DCTRPT	"B'00010000'" $N command
		...1		DCTSOFF2	"B'00010000'" MDCTSTAT/DCTSOFF shadow for line DCTs, used only during CMD $SCAN, $N LINE not supported
		.... 1...		DCTBKSP	"B'00001000'" $B command
		.... .1..		DCTHOLDJ	"B'00000100'" $T...,H command
		11		DCTSPACE	"B'00000011'" $T...,K=X command
		.... ..1.		DCTSP2	"B'00000010'" Force double spacing
		1		DCTSP1	"B'00000001'" Force single spacing
		1		DCTLOGAL	"B'00000001'" $TLNEx,E=Y command
14	(E)	BITSTRING	1	DCTFLAG2	MORE DCT FLAGS
		1...		DCTRACE	"B'10000000'" Device eligible for I/O tracing
		.1..		DCTERMNR	"B'01000000'" Stream terminated by receiver
		..1.		DCTRBFF	"B'00100000'" NJE Route buffer full
		...1		DCTRRDY	"B'00010000'" NJE Route receiver ready
		.... 1...		DCT2POST	"B'00001000'" SNA line manager is waiting to be $POSTed
		.... .1..		DCT2PTRC	"B'00000100'" Processor tracing on (TR=P), only used to save PCETRACE value across $PCEDYN PCE activity
		.... ..1.		DCT2RSP	"B'00000010'" NJE device open/close wait
		1		DCTRTE	"B'00000001'" Route codes (HASPINIT only)
		1		DCTOPEN	"B'00000001'" NJE/RJE device open req
15	(F)	BITSTRING	1	DCTFSSFL	DCT FLAGS FOR AN FSS OWNED DVC
		1...		DCTSTART	"B'10000000'" Device is being started
		.1..		DCTFCKMD	"B'01000000'" CKPT mode page 'ON', TIME 'OFF'
		..1.		DCTFDFLT	"B'00100000'" Reset setup defaults
		...1		DCTFSYNC	"B'00010000'" Dev parm changes require synch order
		.... 1...		DCTFSET	"B'00001000'" Dev parm changes require set order
		.... .1..		DCTCMODF	"B'00000100'" Change mode to FSS mode
		.... ..1.		DCTCMODJ	"B'00000010'" Change mode to JES mode
		1		DCTFSSMD	"B'00000001'" DCT/PCE is in FSS mode
16	(10)	ADDRESS	4	DCTDCB(0)	ADDRESS OF DATA CONTROL BLOCK
16	(10)	ADDRESS	4	DCTACB(0)	ADDRESS OF ACB

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	DCTSEEK	MTTR value $EXCP
20	(14)	BITSTRING	4		Reserved
16	(10)	DBL WORD	8	DCTMQTRD(0)	MQTR value for $EXCP
16	(10)	BITSTRING	1	DCTSEEKF	'FF'x if MQTR is set
17	(11)	BITSTRING	1		Reserved
18	(12)	BITSTRING	6	DCTMQTR	MQTR value for $EXCP
24	(18)	ADDRESS	4	MDCTSDCT(0)	ADDR OF NXT SUSPND RMT DCT (SNA)
24	(18)	ADDRESS	4	DCTBUFAD	ADDRESS OF CURRENT BUFFER
28	(1C)	ADDRESS	4	DCTEWF	PCE WITH EWF TO POST OR EXIT ADDR
32	(20)	SIGNED	2	DCTBUFCN	Count of active buffers
32	(20)	X'14'	0	DCTBUFLM	"20" Max buffers for some DCT types (NOT enforced for all types)
34	(22)	BITSTRING	1	DCTDEVTP	DEVICE TYPE

```
Start of DEVICE TYPE definition
Since bits are combined to define some device
types, extreme caution must be used when
testing the type. For example, the X'20' bit
is on for local and remote printers and punches,
and NJE and SPOF job and sysout transmitters.
Use a TM instruction to test for a class of
device. Use a CLI instruction to test for an
exact type of device. Examples:
Test for a local printer:
  CLI DCTDEVTP,DCTPRT Local printer?
  BNE SKIPIT No, skip it
Test for a local or remote printer or punch:
  TM DCTDEVTP,DCTPRPU Prt/punch or transmitter?
  BZ SKIPIT No, skip it
  TM DCTDEVTP,DCTNET Transmitter?
  BO SKIPIT Yes, skip it
EQU X'00' RESERVED FOR PCEDARD
EQU X'01' RESERVED FOR PCEDAWR
```

		.... ..1.		DCTRJE	"X'02'" REMOTE JOB ENTRY DEVICE
		.... .1..		DCTINT	"X'04'" INTERNAL DEVICE
		.... 1...		DCTNET	"X'08'" NETWORK REMOTE DEVICE
		.1..		DCTDVTPX	"X'40'" EXTRA FLAG TO FURTHER IDENTIFY DCT DEVICE TYPES, PROVIDING UNIQUE IDS ACROSS ALL DCT TYPES
		1...		DCTSPOF	"X'80'" SPOOL OFFLOAD DEVICE
34	(22)	X'2'	0	DCTLNE	"DCTRJE" REMOTE JOB ENTRY LINE
34	(22)	X'E'	0	DCTMLNE	"DCTINT+DCTRJE+DCTNET" MAS JOB ENTRY LINE
34	(22)	X'6'	0	DCTLOG	"DCTINT+DCTRJE" APPLICATION LOGON DCT
34	(22)	X'C'	0	DCTSRV	"DCTINT+DCTNET" NJE SERVER DCT
		...1		DCTRDR	"X'10'" LOCAL CARD READER
34	(22)	X'12'	0	DCTRJR	"DCTRJE+DCTRDR" REMOTE CARD READER
34	(22)	X'14'	0	DCTINR	"DCTINT+DCTRDR" INTERNAL READER
34	(22)	X'50'	0	DCTRJI	"DCTDVTPX+DCTRDR" REQUEST-FOR-JOBID DCT
		..1.		DCTPRT	"X'20'" LOCAL PRINTER
34	(22)	X'22'	0	DCTRPR	"DCTRJE+DCTPRT" REMOTE PRINTER
		..11		DCTPUN	"X'30'" LOCAL PUNCH
34	(22)	X'32'	0	DCTRPU	"DCTRJE+DCTPUN" REMOTE PUNCH
34	(22)	X'20'	0	DCTPRPU	"DCTPRT" PRINTER OR PUNCH

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
34	(22)	X'30'	0	DCTRPP	"DCTRDR+DCTPRPU" READER, PRINTER, OR PUNCH
34	(22)	X'42'	0	DCTRCON	"DCTRJE+DCTDVTPX" REMOTE CONSOLE
34	(22)	X'18'	0	DCTNJR	"DCTNET+DCTRDR" NETWORK JOB RECEIVER
34	(22)	X'38'	0	DCTNJT	"DCTNJR+DCTPRPU" NETWORK JOB TRANSMITTER
34	(22)	X'8'	0	DCTNSR	"DCTNET" NETWORK SYSOUT RECEIVER
34	(22)	X'28'	0	DCTNST	"DCTNSR+DCTPRPU" NETWORK SYSOUT TRANSMITTER
34	(22)	X'58'	0	DCTNRR	"DCTNJR+DCTDVTPX" NETWORK ROUTE RECEIVER
34	(22)	X'78'	0	DCTNRT	"DCTNJT+DCTDVTPX" NETWORK ROUTE TRANSMITTER
34	(22)	X'90'	0	DCTXJR	"DCTSPOF+DCTRDR" SPOOL OFFLOAD JOB RECEIVER
34	(22)	X'B0'	0	DCTXJT	"DCTXJR+DCTPRPU" SPOOL OFFLOAD JOB TRANSMITTER
34	(22)	X'80'	0	DCTXSR	"DCTSPOF" SPOOL OFFLOAD SYSOUT RECEIVER
34	(22)	X'A0'	0	DCTXST	"DCTXSR+DCTPRPU" SPOOL OFFLOAD SYSOUT XMITTER
34	(22)	X'84'	0	DCTOFF	"DCTSPOF+DCTINT" SPOOL OFFLOAD MEDIA DEVICE
End of DEVICE TYPE definition					
35	(23)	BITSTRING	1	DCTFLAG3	Flags
		1...		DCT3JWS	"B'10000000'" Dev uses JOB work sel
		.1..		DCT3SWS	"B'01000000'" Dev uses SYSOUT work sel
		..1.		DCT3IOER	"B'00100000'" $ASYNC error detected
35	(23)	X'1C'	0	DCTDALEN	"*-DCTPCE" LENGTH OF DA DCT FOR $EXCP
36	(24)	BITSTRING	1	DCTSTAT2	SECOND STATUS FLAG BYTE
37	(25)	BITSTRING	1	MDCTMLMQ	Expected MLM queue offset
38	(26)	SIGNED	2	DCTRSINT	Device restart interval (minutes)
40	(28)	BITSTRING	4	DCTRSTIM	Last device drain time (STCK)
44	(2C)	BITSTRING	1	DCTFLAG4	Flags
		1...		DCT4ARST	"B'10000000'" Automatically restart device
		.1..		DCT4NSYN	"B'01000000'" Skip CDCT synchronization
45	(2D)	BITSTRING	7		Reserved for future use
52	(34)	ADDRESS	4	DCTCHAIN	ADDRESS OF NEXT DCT
56	(38)	CHARACTER	8	DCTDEVN	EBCDIC DEVICE NAME
64	(40)	ADDRESS	4	DCTUCB	UCB ADDRESS
68	(44)	ADDRESS	4	DCTTOKA	SECURITY TOKEN ADDRESS - IF 0, JES TOKEN IS ASSOCIATED WITH DEVICE; ELSE, IS ADDRESS OF TOKEN
72	(48)	CHARACTER	8	DCTSECLB	SECLABEL for device
80	(50)	ADDRESS	8	DCTCDCTX	Addr of common storage extension (64-bit)
88	(58)	BITSTRING	1	DCTLRECL	DEVICE DEFAULT LRECL

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Start of DEVICE ID definition			
89	(59)	BITSTRING	3	DCTDEVID	DEVICE IDENTITY
		DCTDEVID (first byte only) Use CLI, not TM, to test DCTINRID since the equate value is 0.			
		....		DCTINRID	"B'00000000'" Internal reader
		For the following devices, the low 4 bits may be used as a device number 'x': local device - always 0 remote device - RMTn.RDx, RMTn.PRx, RMTn.PUx network device - Ln.JRx, Ln.JTx, Ln.STx, Ln.SRx route device - always hex '8' (DCTRTEID) spof device - always hex 'F' (DCTXFRID) Use CLI to test for a local device. E.G. CLI DCTDEVID,DCTRDRID Local reader? Use TM to test for an RJE or an NJE E.G. TM DCTDEVID,DCTRMTID+DCTNJTID BM Is RJE or NJE BO Is Line or Logon BZ Is Local			
		...1		DCTRDRID	"B'00010000'" Card reader
		..1.		DCTPRTID	"B'00100000'" Printer
		..11		DCTPUNID	"B'00110000'" Punch
		.1..		DCTNJTID	"B'01000000'" Job transmitter
		.1.1		DCTNJRID	"B'01010000'" Job reader
		.11.		DCTNSTID	"B'01100000'" Sysout transmitter
		.111		DCTNSRID	"B'01110000'" Sysout receiver
		1...		DCTRMTID	"B'10000000'" Remote device
		B'10010000' DCTRMTID+DCTRDRID B'10100000' DCTRMTID+DCTPRTID B'10110000' DCTRMTID+DCTPUNID			
		11..		DCTLGNID	"B'11000000'" Logon
		11.1		DCTLNEID	"B'11010000'" Line
		111.		DCTSRVID	"B'11100000'" Server
		DCTXFRID is valid only when combined with one of the transmitter/receiver bit equates.			
		 1111		DCTXFRID	"B'00001111'" Spool transfer device
		1111 1111		DCTOFFID	"B'11111111'" Offload parent device
		DCTRTEID is valid only when combined with the job receiver or job transmitter equate.			
		.... 1...		DCTRTEID	"B'00001000'" Route device
		The following equates indicate pseudo devices. There can be up to 15 of these ('0001'b-'1111'b). CLI must be used to test for these devices.			
		1		DCTSFSID	"B'00000001'" SJFR pseudo device
		.... ..1.		DCTSPNID	"B'00000010'" Spin pseudo device - to prevent JOE from getting selected while waiting for checkpoint write
		11		DCTCOMID	"B'00000011'" Command pseudo device

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCTPRGID	"B'00000100'" Psuedo device indicating JOE is being purged
		.... .1.1		DCTARMID	"B'00000101'" ARM support processor
		EQU B'00000110' Unused EQU B'00000111' Unused EQU B'00001000' Unused EQU B'00001001' Unused EQU B'00001010' Unused EQU B'00001011' Unused EQU B'00001100' Unused			
		.... 11.1		DCTSAPID	"B'00001101'" Sysout API
		.... 111.		DCTOUTID	"B'00001110'" TSO Output command device
		 1111		DCTXWTID	"B'00001111'" External writer device
		The DCTNUM portion of DCTDEVID for the DCTOUTID pseudo device indicates whether the JOE is "checked out" to a non-group request (1) or just busy in PSO (0). If the DCTNUM portion of DCTDEVID is non-zero for the DCTCOMID pseudo device, it indicates that the specific command has completed processing of the JOE.			
89	(59)	X'5A'	0	DCTNUM	"DCTDEVID+1,2,C'H'" DEVICE NUMBER
89	(59)	X'1'	0	DCTTODNE	"1" $TO has processed the JOE
89	(59)	X'2'	0	DCTRDONE	"2" $R or $GR has processed the JOE
		End of DEVICE ID definition			
92	(5C)	SIGNED	4	DCTUSER0	RESERVED FOR USER
96	(60)	SIGNED	4	DCTUSER1	RESERVED FOR USER
		DCT FOUNDATION EXTENSION ORG POINT - REQUIRED.			
104	(68)	DBL WORD	8	DCTFEORG(0)	DCT FOUNDATION EXT ORIGIN
		LOCAL DEVICE FOUNDATION EXTENSION			
104	(68)	ADDRESS	4		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		RESERVED
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	4		RESERVED
124	(7C)	CHARACTER	4	DCTUNIT	UNIT FOR LOCAL DEVICES, LINES
128	(80)	BITSTRING	8		Reserved
		SNA LOGON DCT FOUNDATION EXTENSION			
104	(68)	ADDRESS	4		MDCTADCT ADDR NEXT ACTIVE LOGON DCT
108	(6C)	ADDRESS	4	MDCTICE	ADDR OF FIRST LOGGED ON ICE
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR SNA LOGON DCTS
116	(74)	BITSTRING	1	MDCTXERR	VTAM EXIT ROUTINE ERROR CODE
117	(75)	BITSTRING	1	MDCTATYP	APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1	MDCTSUSP	DCT SUSPEND FLAG
123	(7B)	ADDRESS	1	MDCTPWDL	APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
TCP NETSRV DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT Addr next active server DCT
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR NETSRV DCTs
116	(74)	BITSTRING	1		Not used
117	(75)	BITSTRING	1		MDCTTYPE APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1		DCT SUSPEND FLAG
123	(7B)	ADDRESS	1		APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	ADDRESS	4		MDCTPCL PCL address
132	(84)	BITSTRING	4		Not used
BSC LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4	MDCTADCT	ADDR OF NEXT ACTIVE LINE DCT
108	(6C)	BITSTRING	1	MDCTRSEQ	RECEIVE SEQUENCE COUNT
109	(6D)	BITSTRING	1	MDCTTSEQ	TRANSMIT SEQUENCE COUNT
110	(6E)	BITSTRING	1	MDCTMODE	ADAPTER MODE SET VALUE
111	(6F)	ADDRESS	1	MDCTERCT	LINE ERROR COUNT
112	(70)	ADDRESS	4	MDCTDCT	ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1	MDCTLINE	LINE CHARACTERISTICS
117	(75)	BITSTRING	1	MDCTTYPE	TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTATTN	LINE ACTION FLAGS
119	(77)	BITSTRING	1	MDCTSTAT	LINE STATUS FLAGS
120	(78)	SIGNED	2	MDCTBFSZ	MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2	MDCTFCS	LAST RECEIVED FCS
124	(7C)	CHARACTER	4		MDCTUNIT UNIT FOR LOCAL DEVICES, LINES
128	(80)	ADDRESS	4	MDCTPCL	PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
SNA LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		MDCTICE ADDR OF FIRST ALLOCATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	ADDRESS	4	MDCTWICE	ADDR OF ICE IN WAIT-TIME DELAY
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('SNA ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
TCP/IP LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		Not used for TCP/IP
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2		Not used for TCP/IP
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('TCP ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	ADDRESS	4	MDCTQTBF	TBUF queued for line req (in jesxTBUF data space)
BSC REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1	MDCTRECL	REMOTE DEVICE MAX RECORD LENGTH
105	(69)	BITSTRING	1	MDCTRCB	REMOTE DEVICE RECORD CNTRL BYTE
106	(6A)	BITSTRING	1	MDCTFMT	TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1	MDCTFEAT	TERMINAL FEATURES
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		RESERVED
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BFR SIZE - 5
122	(7A)	BITSTRING	2		MDCTFCS REMOTE FUNCTION CTRL SEQ
124	(7C)	CHARACTER	4		DCTUNIT RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	MDCTRFXE	"*"
SNA REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1		MDCTRECL REMOTE DEV MAX RECORD LEN
105	(69)	BITSTRING	1	MDCTSEL	REMOTE DEVICE DATASTREAM SELECT
106	(6A)	BITSTRING	1		MDCTFMT TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1		MDCTFEAT TERMINAL FEATURES

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	ADDRESS	4		MDCTICE ADDR OF ASSOCIATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTFLG1	REMOTE FLAG BYTE
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	ADDRESS	2		MDCTBFSZ MAXIMUM RU SIZE
122	(7A)	BITSTRING	1		RESERVED
123	(7B)	ADDRESS	1	MDCTCHLM	OUTSTANDING CHAIN LIMIT
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
	SPOOL OFFLOAD (XFR) DCT FOUNDATION EXTENSION				
104	(68)	BITSTRING	1	XDCTSTAT	STATUS FLAG BYTE
105	(69)	BITSTRING	1	XDCTRCB	STREAM IDENTIFIER
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	ADDRESS	4	XDCTDCT	PTR TO CHAIN OF RECV/TRANS DCTS
112	(70)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
	Line transmitter/receiver DCT extension				
104	(68)	ADDRESS	1		MDCTRECL DEVICE MAX RECORD LENGTH
105	(69)	ADDRESS	1		MDCTRCB DEVICE RECORD CNTRL BYTE
106	(6A)	ADDRESS	2		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT Address of next xmitter/ receiver
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	2		RESERVED
122	(7A)	ADDRESS	2		MDCTFCS LAST RECEIVED FCS
124	(7C)	ADDRESS	4		RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	DCTSREND	"*"
	DEVICE EXTENSION ORG POINT - OPTIONAL.				
136	(88)	DBL WORD	8	DCTEXORG(0)	DCT DEVICE EXTENSION ORIGIN
	READER DCT EXTENSION				
136	(88)	SIGNED	2	DCTXEQND	DEFAULT EXECUTION NODE
138	(8A)	BITSTRING	1	DCTRDFL1	Reader flags
		1...		DCTR1IND	"B'10000000'" Independent mode
139	(8B)	BITSTRING	1		Reserved for future use
140	(8C)	SIGNED	4	DCTRDRT(0)	READER ROUTE CODE
140	(8C)	SIGNED	2	DCTRDNOD	NODE NUMBER
142	(8E)	SIGNED	2	DCTRDRTE	REMOTE NUMBER

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	SIGNED	4	DCTPRINT(0)	DEFAULT PRINT ROUTE CODE
144	(90)	SIGNED	2	DCTPRNOD	NODE NUMBER
146	(92)	SIGNED	2	DCTPRRTE	LOCAL PRINTER/REMOTE NUMBER
148	(94)	CHARACTER	8	DCTPRSER	PRINT USERID
156	(9C)	SIGNED	4	DCTPUNCH(0)	DEFAULT PUNCH ROUTE CODE
156	(9C)	SIGNED	2	DCTPUNOD	NODE NUMBER
158	(9E)	SIGNED	2	DCTPURTE	LOCAL PUNCH/REMOTE NUMBER
160	(A0)	CHARACTER	8	DCTPUSER	PUNCH USERID
168	(A8)	BITSTRING	4	DCTSIAFF	Default system affinity
172	(AC)	BITSTRING	1	DCTRAUTH	READER COMMAND AUTHORITY
173	(AD)	CHARACTER	8	DCTJCLA8	Default job class
181	(B5)	CHARACTER	1	DCTMCLAS	DEFAULT MSGCLASS
182	(B6)	BITSTRING	1	DCTPRINC	PRIORITY INCREMENT
183	(B7)	BITSTRING	1	DCTPRLIM	PRIORITY LIMIT
183	(B7)	X'B8'	0	DCTIRORG	"*" END OF COMMON READER DCT FIELDS
184	(B8)	SIGNED	4	DCTRDEND(0)	END OF READER DCT
184	(B8)	X'B8'	0	DCTJREND	"*" END OF JOB RECEIVER DCT
OPTIONAL SPECIFIC DEVICE EXTENSIONS. EACH DEVICE TYPE MAY DEFINE DIFFERENT DEVICE EXTENSIONS. HOWEVER, TWO COMMON BEGINNINGS EXIST FOR THE DEVICE EXTENSION - ONE FOR DEVICES THAT REQUIRE JOB WORK SELECTION CRITERIA AND ONE FOR DEVICES THAT REQUIRE SYSOUT WORK SELECTION CRITERIA. NOTE THAT ANY DEVICE REQUIRING ONE OF THESE WORK SELECTION SECTIONS MUST DEFINE THAT SECTION STARTING AT DCTEXORG. FIRST, DEFINE FIELDS COMMON TO BOTH SETS OF CRITERIA.					
136	(88)	BITSTRING	1	DCTWORK	JOB RECEIVER WORK AREA
CTWSP--$WSP PREFIX=DCT,DSECT=NO Generate $#GET parms					
184	(B8)	DBL WORD	8	DCTWSP(0)	HASP WSP
184	(B8)	SIGNED	4	DCTCWS(0)	Start of common work select
184	(B8)	CHARACTER	4	DCTID2	
184	(B8)	X'6'	0	DCTVOLEN	"6" Length of volume
184	(B8)	X'4'	0	DCTVOLMX	"4" Maximum number of volumes
188	(BC)	SIGNED	1	DCTNMVOL	Number of volumes
189	(BD)	BITSTRING	3		Reserved for future use
Note that the xxxVOL field must always precede the xxxWS field and that the xxxWSPRI must always be the first byte of xxxWS					
192	(C0)	BITSTRING	0	DCTVOL(0)	Device select volume list
192	(C0)	X'4'	0	DCTWSENT	"4" Length of ws entry
192	(C0)	X'C'	0	DCTWSPRL	"DCTWSREQ-DCTWSBEG" Offset of first ws entry
xxxMAXWS is derived by determining which WSTAB has the largest number of possible entries and then adding two for potential WSTAB user entries in the table pair. As of z/OS Release 13 the largest table is that of the Sysout API which has 23 entries.					
192	(C0)	X'19'	0	DCTMAXWS	"22+1+2" Number of criteria that will fit in xxxWSREQ

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	SIGNED	4	(0)	
216	(D8)	CHARACTER	1	DCTWSBEG(0)	Beginning of WS list
216	(D8)	BITSTRING	1	DCTWSPRI	WS priority flag
		1...		DCTQVAL	"B'10000000'" Class optimum WS prio
		.1..		DCTRVAL	"B'01000000'" Route optimum WS prio
		..1.		DCTQWS	"B'00100000'" Use class list for WS
		...1		DCTSLASH	"B'00010000'" Optional criteria switch
		.... 1...		DCTVOLFL	"B'00001000'" Use volume for WS
		.... .1..		DCTWSRNG	"B'00000100'" Select by range specified
		.... ..1.		DCTWSRGS	"B'00000010'" Range criterion after slash
		1		DCTRWS	"B'00000001'" Select by route specifed
217	(D9)	BITSTRING	1	DCTWSPR2	2nd WS priority flag
		1...		DCTWSODP	"B'10000000'" Outdisp specified in WS or Outdisp is not valid WS criterion for dev
		.1..		DCTWSLIM	"B'01000000'" Limit specified in WS
		..1.		DCTSLLIM	"B'00100000'" Limit is after slash
		...1		DCTWSCTK	"B'00010000'" Select by CTOKEN
		.... 1...		DCTODPNV	"B'00001000'" Outdisp is not a valid WS criterion for dev; forced to WRITE/KEEP
		.... .1..		DCTPRIRQ	"B'00000100'" Priority in WS list
		Position indicator is an index of attribute in the criteria value vector. For attributes before PRIORITY, this is the same as index of attribute in the WSREQ array. For attribute after PRIORITY, it is one greater, because PRIORITY tales two bytes in the value vector. Value of X'FF' for xxxPOS, indicates that attribute is not in the WSREQ or it's position is irrelevant.			
218	(DA)	BITSTRING	1	DCTQPOS	Position of Q
219	(DB)	BITSTRING	1	DCTLPOS	Position of LIM
220	(DC)	BITSTRING	1	DCTRPOS	Position of RC
221	(DD)	BITSTRING	1	DCTPPOS	Position of P (set to &P.POSNL if ignored)
222	(DE)	SIGNED	2	DCTONODE	Job's origin node number
224	(E0)	BITSTRING	1	DCTPPOSM	Position of P
225	(E1)	BITSTRING	3		Reserved
		1111 1111		DCTPOSNL	"X'FF'" Position has not been set
228	(E4)	BITSTRING	1	DCTWSREQ	Work selection via ws parm
228	(E4)	X'D8'	0	DCTWS	"DCTWSBEG,*-DCTWSBEG,C'X'" Max length ws list
328	(148)	ADDRESS	4	DCTWSTB	Addr of related ws table pair
328	(148)	X'4'	0	DCTRCMAX	"4" Define maximum route codes
328	(148)	X'0'	0	DCTNODE	"0,2,C'H'" Offset/len of node in rc
328	(148)	X'2'	0	DCTROUTE	"2,2,C'H'" Offset/length of remote in rc
328	(148)	X'4'	0	DCTUSEID	"4,8,C'D'" Offset/len of userid in rc

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
328	(148)	X'C'	0	DCTRCLEN	"L'DCTNODE+L'DCTROUTE+L'DCTUSEID" Len of rc
328	(148)	X'4'	0	DCTNRLEN	"L'DCTNODE+L'DCTROUTE" Len of node and route
332	(14C)	CHARACTER	0	DCTRC(0)	Space for route codes
380	(17C)	ADDRESS	2	(0)	xxxNRC must follow xxxRC
380	(17C)	CHARACTER	8	DCTJOBNM	Job name for device work select
388	(184)	CHARACTER	8	DCTCURJB	Job name of element last selected
396	(18C)	CHARACTER	8	DCTCRUID	Value for creator= keyword
404	(194)	ADDRESS	1	DCTNRC	Number of route codes
405	(195)	BITSTRING	1	DCTRTEQ	and route output queue flag
		1...		DCTWSLOC	"B'10000000'" Scan local output queue
		.1..		DCTWSRMT	"B'01000000'" Scan remote output queue
		..1.		DCTWSNET	"B'00100000'" Scan network queue
		...1		DCTWSUSE	"B'00010000'" Scan userid queue
		1...		DCTINDIR	"B'10000000'" Indirect routing flag (HASPINIT ONLY)
406	(196)	BITSTRING	1	DCTWSFG5	Misc flags
		1...		DCT1GENC	"B'10000000'" Low job id has a generic
		.1..		DCT1GEN1	"B'01000000'" Low job id has generic '*' as the first character
407	(197)	BITSTRING	1		Reserved for future use
408	(198)	SIGNED	4	DCTJNUML	Device select low job number
412	(19C)	SIGNED	4	DCTJNUMH	Device select high job number
416	(1A0)	CHARACTER	8	DCTJCHRL	Character view of low job number
424	(1A8)	CHARACTER	8	DCTJCHRH	Character view of high job number
432	(1B0)	ADDRESS	4	(2)	Reserved for future use
440	(1B8)	BITSTRING	1	DCTWSFG1	Device select flags
		1...		DCTWSHLD	"B'10000000'" Select held jobs
		.1..		DCTWSHNS	"B'01000000'" Hold operand not specified
		..1.		DCTWSNOT	"B'00100000'" Send notify message
		...1		DCTWSFJR	"B'00010000'" Select within JOB range
		.... 1...		DCTWSFST	"B'00001000'" Select within STC range
		.... .1..		DCTWSFTS	"B'00000100'" Select within TSU range
		.... ..1.		DCTWSFAP	"B'00000010'" Select APPC initiators
		1		DCTWSFJG	"B'00000001'" Select JOBGROUPs
		...1 1111		DCTWSANY	"B'00011111'" Select any range
441	(1B9)	BITSTRING	1	DCTWSFG4	Device select flags
		1...		DCTWSENL	"B'10000000'" Enforce line limits
		.1..		DCTWSENP	"B'01000000'" Enforce page limits
		B'00111111' Reserved for future use			
444	(1BC)	SIGNED	4	DCTWRNUM	Writer ID number for JOE/Writer exclude list
448	(1C0)	BITSTRING	8	DCTWRASI	Writer ID address space level used for JOE/Writer exclude list

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
456	(1C8)	CHARACTER	8	DCTDEVN2	Device name of form: For non-SAPI DCTDEVN For SAPI jobname.sss2appl
456	(1C8)	X'1C8'	0	DCTDEVNC	"DCTDEVN2,*-DCTDEVN2,C'C'" Complete device name
473	(1D9)	BITSTRING	1	DCTDEVT2	Device type (copy of DCTDEVTP)
474	(1DA)	BITSTRING	3	DCTDEVI2	Device identity (copy of DCTDEVID)
477	(1DD)	BITSTRING	3		Reserved for future use
480	(1E0)	SIGNED	4	DCTLIMLO	Device lower limit (records)
484	(1E4)	SIGNED	4	DCTLIMHI	Device upper limit (records)
488	(1E8)	SIGNED	4	(0)	Force alignment
488	(1E8)	X'130'	0	DCTCWSLN	"*-DCTCWS" Length of common criteria fields
	Job work selection criteria fields				
184	(B8)	SIGNED	4	DCTJWS(0)	Start of job work selection
184	(B8)	BITSTRING	304		Fields common with sysout select
488	(1E8)	BITSTRING	4	DCTSAF	Device select affinity list
492	(1EC)	ADDRESS	4	DCTSAFPT	System affinity list pointer
496	(1F0)	CHARACTER	8	DCTSRVCL	Service class
504	(1F8)	CHARACTER	16	DCTSCHE	Scheduling environment
520	(208)	BITSTRING	1	DCTJWSFL	Job Work Selection flags
		1...		DCTJCFMT	"B'10000000'" Job Work Selection class list format : OFF = Class list contains up to 36 one char class names. ON = Class list contains a mixture of up to 8 eight char class names and class group names.
521	(209)	BITSTRING	1		Reserved
522	(20A)	CHARACTER	64	DCTJCLAS	Job Work Selection class list, terminated by a blank. Contents depend on the Class list format bit (see above).
522	(20A)	CHARACTER	36	DCTJCLS1	1 character class list (___JCFMT bit off)
522	(20A)	CHARACTER	8	DCTJCLS8(0)	8 character class list (___JCFMT bit on)
522	(20A)	X'192'	0	DCTJWSLN	"*-DCTJWS" Length of WSP for job work selection
	Sysout work selection criteria fields				
184	(B8)	SIGNED	4	DCTSWS(0)	Start of sysout work selection
184	(B8)	BITSTRING	304		Fields common with sysout select
488	(1E8)	CHARACTER	8	DCTFORMS	Current print/punch forms id
496	(1F0)	CHARACTER	37	DCTCLASS	SYSOUT Work Selection class list, terminated by blank. Contains a list of one byte values.
533	(215)	BITSTRING	3		Reserved
536	(218)	CHARACTER	64	DCTJCOR	Job Correlator
600	(258)	CHARACTER	8	DCTWFORM(0)	Forms for work selection
600	(258)	X'258'	0	DCTWFORC	"DCTWFORM,*-DCTWFORM,C'C'" Forms
664	(298)	CHARACTER	4	DCTFCB	Printer fcb (carriage tape) id
668	(29C)	CHARACTER	4	DCTUCS	Printer ucs id

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
672	(2A0)	CHARACTER	4	DCTFLASH	Printer overlay frame
676	(2A4)	CHARACTER	4	DCTFLSHD	N/I-printer overlay default
680	(2A8)	SIGNED	4	DCTPLIML	Device lower limit (pages)
684	(2AC)	SIGNED	4	DCTPLIMH	Device upper limit (pages)
688	(2B0)	SIGNED	4	DCTAGE	Age in seconds since JOE creation
692	(2B4)	CHARACTER	8	DCTWTRID	Ext wtr name for work select
700	(2BC)	BITSTRING	8	DCTPRMD	Prmode index list
708	(2C4)	ADDRESS	4	DCTPRTBL	Address of PRMODE table or zero
712	(2C8)	BITSTRING	1	DCTWSFG2	Device select flag
		1...		DCTWSDSH	"B'10000000'" Select held output
		.1..		DCTNIBRS	"B'01000000'" Select bursted output
		..1.		DCTWSDAN	"B'00100000'" Select held/non-held output
		...1		DCTWSBNS	"B'00010000'" Burst operand not specified
The following two bits are mutually exclusive. If both of them are OFF, this device DOES NOT support IP-format destination (this is the default for all JES2 local devices.)					
		.... 1...		DCTWSIP	"B'00001000'" Select only IP-format
		.... .1..		DCTWSBTH	"B'00000100'" Select both IP and non-IP
		.... ..1.		DCTWSTKN	"B'00000010'" Select by token mapped by $CTOKEN & blocked output is OK
713	(2C9)	BITSTRING	1	DCT1STFL	Device select flag byte
713	(2C9)	X'8'	0	DCT1SODW	"$ODWRITE" Select OUTDISP=WRITE
713	(2C9)	X'4'	0	DCT1SODH	"$ODHOLD" Select OUTDISP=HOLD
713	(2C9)	X'2'	0	DCT1SODK	"$ODKEEP" Select OUTDISP=KEEP
713	(2C9)	X'1'	0	DCT1SODL	"$ODLEAVE" Select OUTDISP=LEAVE
713	(2C9)	X'F'	0	DCT1SODA	"$ODANY" Check all bit settings
714	(2CA)	BITSTRING	2		Reserved for future use
xxxPJOE identifies the next JOE for this device to process. Three different values are possible: 0 - nothing in queue for this device positive - one JOE to process and the address is the positive value in xxxPJOE -1 - more then one JOE in queue for this device					
716	(2CC)	ADDRESS	4	DCTPJOE	Next JOE to process
716	(2CC)	X'218'	0	DCTSWSCR	"*-DCTSWS" Length of WSP fields which represent SYSOUT work selection criteria
The following fields are used to manage WSP and are not part of selection criteria.					
720	(2D0)	ADDRESS	4	DCTGTW	Address of $#GET Trace work area
724	(2D4)	ADDRESS	4	DCTASAPI	Address of SAPID (ALET is in $SAPTOK in HCT)
728	(2D8)	ADDRESS	4	DCTNACTV	Next active DCT address SAPI - next WSP in chain
732	(2DC)	ADDRESS	4	DCTPACTV	Previous active DCT address SAPI - prev WSP in chain

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
736	(2E0)	BITSTRING	1	DCTWSFG3	WSP status flag
		1...		DCTWS3QD	"B'10000000'" DCT is on an active DCT Q SAPI - WSP is on a list of postable WSPs
		.1..		DCTWS3QT	"B'01000000'" SAPI - WSP is on list for selection on token
		..1.		DCTWS3QX	"B'00100000'" SAPI - WSP is on list for selection expression
		...1		DCTWS3CF	"B'00010000'" WSP classification for cache was performed
		.... 1...		DCTWS3XN	"B'00001000'" WSP expression is not compatible with cache key
737	(2E1)	BITSTRING	3		Reserved for future use
		Cache list entries in xxxCLENT list represent this WSP in the $#POST cache. (See XCWELT in $XCW.) Cache nodes in the xxxCNODE list are the cache nodes which point to this WSP as last scanned WSP. (See XCWNODE in $XCW.)			
744	(2E8)	ADDRESS	8	DCTCLENT	Ptr to cache list entries
752	(2F0)	ADDRESS	8	DCTCNODE	Ptr to cache nodes
760	(2F8)	ADDRESS	4	(0)	Align on a full word
760	(2F8)	X'240'	0	DCTSWSLN	"*-DCTSWS" Length of WSP for SYSOUT work selection
760	(2F8)	X'240'	0	DCTLENG	"*-DCTCWS" Allocation length of WSP
		SNA LOGON DCT EXTENSION			
136	(88)	CHARACTER	8		APPLICATION PASSWORD
144	(90)	ADDRESS	2	MDCTSNCT	COUNT OF LOGGED ON TERMINALS
146	(92)	ADDRESS	1		RESERVED FOR SNA LOGON DCTS
147	(93)	ADDRESS	1	MDCTAPNL	APPLICATION NAME LENGTH
148	(94)	CHARACTER	8	MDCTAPPL	APPLICATION NAME
156	(9C)	SIGNED	4	MDCTLOGN	COUNT OF LOGONS TO APPL
160	(A0)	SIGNED	4	MDCTNICE	LOGON FAILED FOR ICE COUNT
164	(A4)	SIGNED	4	MDCTNLNE	LOGON FAILED FOR LINE COUNT
168	(A8)	SIGNED	4	MDCTINVL	LOGON FAILED FOR DATA COUNT
172	(AC)	SIGNED	4	MDCTABRT	SESSION ABNORMAL TERM COUNT
176	(B0)	SIGNED	4		RESERVED FOR FUTURE USE
184	(B8)	DBL WORD	8	MDCTRAWK(0)	ACTIVE RECEIVE ANY BUFFER WORK
184	(B8)	SIGNED	2	MDCTRALM	ACTIVE RECEIVE ANY BUFFER LIMIT
186	(BA)	SIGNED	2	MDCTRACT	ACTIVE RECEIVE ANY BUFFER COUNT
188	(BC)	ADDRESS	4	MDCTRABF	ACTIVE RECEIVE ANY BUFFER CHAIN
192	(C0)	DBL WORD	8	MDCTRQWK(0)	QUEUED RECEIVE ANY BUFFER WORK
192	(C0)	SIGNED	2	MDCTRQLM	QUEUED RECEIVE ANY BUFFER LIMIT
194	(C2)	SIGNED	2	MDCTRQCT	QUEUED RECEIVE ANY BUFFER COUNT
196	(C4)	ADDRESS	4	MDCTRQBF	QUEUED RECEIVE ANY BUFFER CHAIN
200	(C8)	DBL WORD	8	MDCTEXWK(0)	EXIT ROUTINE WORK AREA
200	(C8)	SIGNED	4	MDCTEXCD(0)	EXIT ROUT. ACTION CODE WORKAREA
200	(C8)	BITSTRING	3		RESERVED
203	(CB)	BITSTRING	1	MDCTXCOD	EXIT ROUTINE REQ ACTION CODE

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
204	(CC)	ADDRESS	4	MDCTEXIT	ADDR OF NEXT SCHED LOGON DCT
208	(D0)	SIGNED	4	MDCTLGND(0)	END OF SNA LOGON DCT
TCP/IP NETSRV DCT extension					
136	(88)	CHARACTER	8	MDCTPGM	Program name
144	(90)	CHARACTER	8	MDCTPROC	Proc name
152	(98)	ADDRESS	2	MDCTKEEP	Default keep alive interval
154	(9A)	SIGNED	2	MDCTSBSZ	Server buffer size
156	(9C)	ADDRESS	4	MDCTSCK	SCK address
160	(A0)	CHARACTER	8	MDCTSOCK	Socket name
168	(A8)	ADDRESS	4	MDCTSSQD	SQD used to start server ASID
172	(AC)	SIGNED	2	MDCTASID	ASID of server addrspc
174	(AE)	BITSTRING	1	MDCTNFLG	NETSRV flags
		1...		MDCTNVRB	"B'10000000'" NETSRV Verbose mode at NETSRV level
		.1..		MDCTNTRC	"B'01000000'" NETSRV common tracing at NETSRV level
		..1.		MDCTNTRJ	"B'00100000'" NETSRV JES tracing at NETSRV level
		...1		MDCTNSEC	"B'00010000'" SECURE=REQUIRED specified
		.... 1...		MDCTNOSE	"B'00001000'" SECURE=OPTIONAL specified
		.... .1..		MDCTNSLO	"B'00000100'" Active with SECURE=REQUIRED
175	(AF)	BITSTRING	1		Reserved
176	(B0)	CHARACTER	8	MDCTASNM	Address space name
184	(B8)	CHARACTER	8	MDCTSTAK	TCP/IP stack name
192	(C0)	SIGNED	4	MDCTSVND(0)	END OF TCP SERVER DCT
BSC LINE DCT EXTENSION					
136	(88)	CHARACTER	8	MDCTPSWD	RJE LINE PASSWORD
144	(90)	ADDRESS	4	MDCTOBUF	RJE OUTPUT BUFFER CHAIN
148	(94)	SIGNED	4	MDCTIMOK	TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4	MDCTRAT	ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTCODE	ADDRESS OF RJE CODE TABLE
160	(A0)	BITSTRING	0	MDCTOTAL(0)	DCT EVENT COUNTERS
160	(A0)	SIGNED	4	MDCTXCP	LINE COUNTS - TOTAL EXCPS
164	(A4)	SIGNED	4	MDCTNAK	NAKS TO WRITE TEXT
168	(A8)	SIGNED	4	MDCTDCK	DATA CHECKS TO READ TEXT
172	(AC)	SIGNED	4	MDCTTO	TIMEOUTS TO READ TEXT
176	(B0)	SIGNED	4	MDCTREM	ALL OTHER ERRORS
180	(B4)	BITSTRING	0	MDCTCNTS(0)	DCT SESSION EVENT COUNTERS
180	(B4)	SIGNED	4	MDCTSXCP	SESSION COUNTS - TOTAL EXCPS
184	(B8)	SIGNED	4	MDCTSNAK	NAKS TO WRITE TEXT
188	(BC)	SIGNED	4	MDCTSDCK	DATA CHECKS TO READ TEXT
192	(C0)	SIGNED	4	MDCTSTO	TIMEOUTS TO READ TEXT

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	SIGNED	4	MDCTSREM	ALL OTHER ERRORS
200	(C8)	BITSTRING	1	MDCTPMBC	NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1	MDCTPMFL	NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2	MDCTDCNT	DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4	MDCTACT(0)	ACTIVE HARDWARE RJE DCT
204	(CC)	ADDRESS	4	MDCTNM	NETWORK MULTIPLE TRUNK QUEUE
208	(D0)	ADDRESS	4	MDCTNA	NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2	MDCTNR	NETWORK HALF LINE RESISTANCE
214	(D6)	SIGNED	2	MDCTNNR	NETWORK NODE TO NODE RESISTANCE
216	(D8)	ADDRESS	4	MDCTNCES	NETWORK CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1	MDCTNFL2	NETWORK FLAGS II
221	(DD)	BITSTRING	1	MDCTNFL3	Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1	MDCTLNCC	Last NCC signon record sent
224	(E0)	SIGNED	2	MDCTOPCT	COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1	MDCTNFL	NETWORK FLAGS
227	(E3)	SIGNED	1	MDCTCMCT	CONSOLE MESSAGE COUNT
227	(E3)	X'CC'	0	MDCTNETA	"MDCTNM,*-MDCTNM" NETWORK AREA FOR $NPMWORK
228	(E4)	BITSTRING	8	MDCTNEGR	PENDING NEGATIVE XMTTER RESPONSES
236	(EC)	SIGNED	4	MDCTNO(0)	LINE ROUTE CODE
236	(EC)	ADDRESS	2	MDCTNODE	NODE NUMBER
238	(EE)	ADDRESS	1	MDCTQUAL	QUALIFIER
239	(EF)	ADDRESS	1		RESERVED FOR FUTURE USE
240	(F0)	ADDRESS	4	MDCTNMAP	NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4	MDCTRNTA	REACHABLE NODES TABLE ADDR, ZERO UNLESS LINE IN NJE USE RNT=1 BIT PER NODE
248	(F8)	CHARACTER	8	MDCTNPAS	PASSWORD to send to node (BSC Only)
256	(100)	SIGNED	4	MDCTMDOM	$HASP500 DOM ID
260	(104)	SIGNED	4	MDCTIFEA	NJE signon feature flags supported by this line
264	(108)	ADDRESS	4	MDCTNLDV(0)	Numbers of line subdevices
264	(108)	ADDRESS	1	MDCTJTNM	LINEnn JTNUM= value
265	(109)	ADDRESS	1	MDCTJRNM	LINEnn JRNUM= value
266	(10A)	ADDRESS	1	MDCTSTNM	LINEnn STNUM= value
267	(10B)	ADDRESS	1	MDCTSRNM	LINEnn SRNUM= value
268	(10C)	ADDRESS	4	MDCTMRT	MRT address
272	(110)	ADDRESS	4	MDCTMRRT	MRRT address
276	(114)	SIGNED	4	MDCTSONT(0)	Multi-trunk signon retry time
276	(114)	SIGNED	4	MDCTNOTS	RCP CMB Throw-away time
280	(118)	BITSTRING	8	MDCTIKEY	Secure NJE signon key
288	(120)	BITSTRING	8	MDCTISTR	Secure NJE random string
296	(128)	BITSTRING	8	MDCTESTR	Encrypted received string
304	(130)	ADDRESS	4	MDCTISWL	SWEL addr (secure signon)
308	(134)	SIGNED	4	MDCTRSTM	MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2	MDCTRSTI	MDCTRSTI Restart interval (minutes)

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1	MDCTRSTF	MDCTRSTF Flags
		1...		MDCTRFCY	"B'10000000'" Auto-restart NJE connection
		.1..		MDCTRFCN	"B'01000000'" Never Auto-restart
316	(13C)	SIGNED	2	MDCTLNOD	Associated node
320	(140)	SIGNED	4	MDCTLEND(0)	END OF LINE DCT
SNA LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		MDCTSNCT ALLOCATED SESSION COUNT
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTATE	APT address for automatic restart from NPM recovery
160	(A0)	SIGNED	4	MDCTVREQ	TOTAL COUNT OF VTAM REQ PROCESSED
164	(A4)	SIGNED	4	MDCTXRSP	TOTAL COUNT OF EXCEPTION RESP
168	(A8)	SIGNED	4	MDCTLUST	TOTAL COUNT OF LUSTAT RECEIVED
172	(AC)	SIGNED	4	MDCTBIDR	TOTAL COUNT OF BID REJECTED
176	(B0)	SIGNED	4	MDCTMPER	TOTAL COUNT OF TEMPORARY ERRORS
180	(B4)	SIGNED	4	MDCTSCNT(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	SIGNED	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8	MDCTATMP	APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	SNA LINE DCT END (MDCTLEND)
TCP LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		RESERVED
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4		MDCTSCK SCK address for related socket
160	(A0)	CHARACTER	8		MDCTSOCK Socket name
168	(A8)	ADDRESS	4	MDCTNDCT	Addr of NETSRV DCT
172	(AC)	SIGNED	4		RESERVED
176	(B0)	SIGNED	4		RESERVED
180	(B4)	SIGNED	4	(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1	MDCTTFLG	TCP Flags
		1...		MDCTTDRN	"B'10000000'" STOP NRQ sent ($P)
		.1..		MDCTTVRB	"B'01000000'" NETSRV verbose mode at line level

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		MDCTTTRC	"B'00100000'" NETSRV common tracing at line level
		...1		MDCTTTRJ	"B'00010000'" NETSRV JES tracing at line level
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	BITSTRING	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		MDCTNPAS Node Password
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	TCP LINE DCT END (MDCTLEND)
MAS LINE DCT EXTENSION					
136	(88)	ADDRESS	0	MDCTAFTK(0)	Affinity token for member
136	(88)	CHARACTER	8		Reserved
144	(90)	BITSTRING	1	MDCTMEMB	ID of associated member
145	(91)	BITSTRING	3		Reserved
148	(94)	SIGNED	4		Time of last transmission
152	(98)	ADDRESS	4		MDCTRAT Address of NIT entry
156	(9C)	ADDRESS	4	MDCTNATP	NATP chain for response to member signon propagation
160	(A0)	ADDRESS	4	MDCTNPCH	Chain of permanent NATPs
164	(A4)	ADDRESS	4	MDCTNQSE	QSE address
168	(A8)	ADDRESS	4	MDCTMDNQ	Member down chain field
172	(AC)	SIGNED	4	MDCTMTIM	Time last MAS I/J sent to this member

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	SIGNED	4	MDCTMDID	$HASP501 DOM id
180	(B4)	SIGNED	4	(5)	Reserved
200	(C8)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		Reserved
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Reserved
224	(E0)	SIGNED	2		Reserved
226	(E2)	BITSTRING	1		MDCTNFL Network flags
227	(E3)	SIGNED	1		Reserved
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
260	(104)	SIGNED	4		NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		LINEnn JTNUM= value
265	(109)	ADDRESS	1		LINEnn JRNUM= value
266	(10A)	ADDRESS	1		LINEnn STNUM= value
267	(10B)	ADDRESS	1		LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		Reserved
288	(120)	BITSTRING	8		Reserved
296	(128)	BITSTRING	8		Reserved
304	(130)	ADDRESS	4		Reserved
308	(134)	SIGNED	4		Reserved
312	(138)	SIGNED	2		Reserved
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		Reserved
316	(13C)	SIGNED	2		Reserved
320	(140)	SIGNED	4	(0)	MAS LINE DCT END (MDCTLEND)
	LOCAL/RMT PRINT/PUNCH DCT EXTENSION.				
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	CHARACTER	8	DCTFSSNM	FSS NAME

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
768	(300)	ADDRESS	4	DCTFSSCH(0)	NEXT FSS DCT (INIT ONLY)
768	(300)	SIGNED	2	DCTFSSNW(0)	FSS ID TO CHANGE TO FOR NEW FSS (POST-INIT FSS-MODE DCT ONLY)
768	(300)	SIGNED	4	DCTWKBUF	ADDR OF PRINTER WORK BUFFER (POST-INIT JES-MODE DCT)
772	(304)	SIGNED	4	DCTFSID(0)	FSID OF DEVICE FSA, FSS MODE
772	(304)	SIGNED	2	DCTFSSID	FSS PORTION OF FSID
774	(306)	SIGNED	2	DCTFSAID	FSA PORTION OF FSID
776	(308)	CHARACTER	4	DCTNIFCB	3800 INSTALLATN DEFAULT FCB
780	(30C)	CHARACTER	4	DCTDDFCB	DEVICE DEFAULT FCB
784	(310)	BITSTRING	1	DCTINDEX	PRINTER INDEX VALUE
785	(311)	BITSTRING	1	DCTPPFL	PRINT/PUNCH FLAGS
786	(312)	BITSTRING	1	DCTPPSW	PRINT/PUNCH SWITCHES
787	(313)	BITSTRING	1	DCTPPSW2	PRINT/PUNCH SWITCHES
788	(314)	BITSTRING	1	DCTPPSW3	PRINT/PUNCH SWITCHES
789	(315)	BITSTRING	1	DCTPPSW4	PRINT/PUNCH SWITCHES
790	(316)	BITSTRING	1	DCTPPSW5	PRINT/PUNCH Switches
		1...		DCT5C1ON	"B'10000000'" Chnl 1 is only new page
		.1..		DCT5CALL	"B'01000000'" All chnls are new page
		..1.		DCT5TUCS	"B'00100000'" UCS has been modified via a $T command
		...1		DCT5TFSS	"B'00010000'" FSSID is to be removed
		.... 1...		DCT5DNRC	"B'00001000'" Device not responding condition
		.... .1..		DCT5$SPN	"B'00000100'" $Sprt for FSS prt pending
		.... ..1.		DCT5$PPN	"B'00000010'" $Pprt for FSS prt pending
		1		DCT5FROF	"B'00000001'" FSA level rolling trace off
791	(317)	BITSTRING	1	DCTPPSW6	PRINT/PUNCH Switches
		1...		DCT6NOTR	"B'10000000'" TRC on OUTPUT card not honored
792	(318)	CHARACTER	4	DCTCHAR1	N/I-PRINTER XLATE TABLE 1
796	(31C)	CHARACTER	4	DCTCHAR2	N/I-PRINTER XLATE TABLE 2
800	(320)	CHARACTER	4	DCTCHAR3	N/I-PRINTER XLATE TABLE 3
804	(324)	CHARACTER	4	DCTCHAR4	N/I-PRINTER XLATE TABLE 4
808	(328)	CHARACTER	4	DCTMODF	N/I-PRINTER MODIFY IDENTIFIER
812	(32C)	ADDRESS	2	DCTLDPID	3800 LOST DATA PAGE ID G38E
814	(32E)	BITSTRING	1	DCTDCPTN	DEFAULT COMPACTION TABLE NUMBER
815	(32F)	BITSTRING	1	DCTACPTN	ACTIVE COMPACTION TABLE NUMBER
816	(330)	SIGNED	2	DCTCKPTP	NO. OF LOGICAL PAGES/CKPT
818	(332)	SIGNED	2	DCTCKPTL	NO. OF LINES/LOGICAL PAGE
820	(334)	SIGNED	2	DCTCKPTT	AMT OF TIME BEFORE FORCED CKPT
822	(336)	SIGNED	2	DCTNPRO	TIME BEFORE NON PROCESS RUN OUT
824	(338)	ADDRESS	4	DCTPRTRN	ADDRESS OF DEFAULT TRAN TABLE
828	(33C)	ADDRESS	4	DCTCCWTB	ADDRESS OF DEFAULT CCW TRN TBLE
832	(340)	SIGNED	4	DCTCSW	PRINT INTERVENTION REQ AREA

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
832	(340)	X'344'	0	DCTPREND	"*" PRINT/PUNCH DCT EXTENSION END
	SPOOL OFFLOAD DEVICE DCT EXTENSION				
136	(88)	ADDRESS	4	XDCTDTE	ADDRESS OF SUB-TASK DTE
140	(8C)	SIGNED	4	XDCTSEQN	NUM BLOCKS READ FOR LOAD CKPT
144	(90)	SIGNED	2	XDCTXNUM	DEVICE NUMBER
146	(92)	SIGNED	2	XDCTSUBR	SUB-TASK REQUEST
148	(94)	SIGNED	2	XDCTSUBC	SUB-TASK REQ COMPLETION CODE
150	(96)	BITSTRING	1	XDCTUNCT	UNIT COUNT
151	(97)	BITSTRING	1	XDCTFLG1	FLAG BYTE
152	(98)	BITSTRING	1	XDCTFLG2	FLAG BYTE
153	(99)	BITSTRING	1	XDCTVOLS	OFFLOAD VOLUME COUNT
154	(9A)	BITSTRING	1	XDCTLABL	LABEL TYPE (SL,NL,...)
155	(9B)	BITSTRING	2	XDCTRTPD	RETENTION PERIOD IN DAYS
157	(9D)	CHARACTER	8	XDCTUNIT	DEFAULT UNIT NAME
165	(A5)	BITSTRING	1	XDCTOFSL	Offload archive bits
166	(A6)	BITSTRING	2	XDCTFREE	RESERVED FOR FUTURE USAGE
	THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER				
168	(A8)	SIGNED	4	XDCTTIME	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	SIGNED	4	XDCTDATE	DATE OFFLOAD DATA SET ALLOCATED
	THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER				
176	(B0)	SIGNED	4	XDCTTVER	TIME VERIFICATION STAMP
180	(B4)	SIGNED	4	XDCTDVER	DATE VERIFICATION STAMP
184	(B8)	ADDRESS	4	XDCTCMPQ	XFRDCT SUB-TASK COMPLETION Q
188	(BC)	ADDRESS	4	XDCTBUFQ	Q OF BUFFERS WAITING COMPLETION
192	(C0)	ADDRESS	4	XDCTACTV	QUEUE OF ACTIVE XFR DCTS
196	(C4)	BITSTRING	1	XDCTERCT	READ ERROR COUNT
197	(C5)	BITSTRING	1	XDCTOPCT	COUNT OF RECV/TRANS DCTS OPEN
198	(C6)	SIGNED	2	XDCTMAXB	Max buffers allowed to hold
200	(C8)	CHARACTER	44	XDCTDSN	OFFLOAD DATASET NAME
244	(F4)	SIGNED	4	DCTXFEND(0)	END OF OFFLOAD DCT EXTENSION
	JOB TRANSMITTER DCT EXTENSION				
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	1	DCTJTDSP	DISPOSITION FLAGS
		1...		DCTJTDPG	"B'10000000'" PURGE JOB AFTER DUMP
		.1..		DCTJTDHD	"B'01000000'" HOLD JOB AFTER DUMP
		..1.		DCTJTDKP	"B'00100000'" KEEP JOB AFTER DUMP
586	(24A)	X'24B'	0	DCTOJEND	"*" OFFLOAD JOB XMITTER DCT EXT END
586	(24A)	X'24B'	0	DCTJTEND	"*" NETWORK JOB XMITTER
	SYSOUT TRANSMITTER DCT EXTENSION.				
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
760	(2F8)	BITSTRING	1	DCTSTDSP	DISPOSITION FLAG
		1...		DCTSTDPG	"B'10000000'" PURGE DATA SET AFTER DUMP
		.1..		DCTSTDHD	"B'01000000'" HOLD DATA SET AFTER DUMP
		..1.		DCTSTDKP	"B'00100000'" KEEP DATA SET AFTER DUMP
761	(2F9)	BITSTRING	3		Reserved for future use
761	(2F9)	X'2FC'	0	DCTOSEND	"*" OFFLOAD SYSOUT XMITTER EXT END
761	(2F9)	X'2FC'	0	DCTSTEND	"*" NETWORK SYSOUT XMITTER
OFFLOAD JOB RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	4	DCTJRSAF	DEVICE MODIFY AFFINITY (EBCDIC)
590	(24E)	BITSTRING	4	DCTJRMSF	DEVICE MODIFY AFFINITY (FLAGS)
594	(252)	BITSTRING	1	DCT1JRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1JHLD	"B'10000000'" HOLD JOB MODIFY FLAG
		.1..		DCT1JHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
595	(253)	CHARACTER	8	DCTJRMC8	Device modify job class
603	(25B)	BITSTRING	1		RESERVED FOR FUTURE USE
604	(25C)	ADDRESS	4	DCTJRMNO	DEVICE MODIFY NODE NUMBER
604	(25C)	X'25E'	0	DCTOJRLN	"*" JOB RECEIVER DCT END
OFFLOAD SYSOUT RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	BITSTRING	1	DCT1SRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1SHLD	"B'10000000'" SET HELD POST-EXECUTION JOBS
		.1..		DCT1SHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
		.... 1...		DCT1SBUR	"B'00001000'" SET BURSTED OUTPUT
		.... .1..		DCT1SBNL	"B'00000100'" BURST NOT TO BE MODIFIED
761	(2F9)	BITSTRING	1	DCT2SRFL	DEVICE MODIFY FLAG2 BYTE
761	(2F9)	X'8'	0	DCT2MODW	"$ODWRITE" MODIFY OUTDISP=WRITE
761	(2F9)	X'4'	0	DCT2MODH	"$ODHOLD" MODIFY OUTDISP=HOLD
761	(2F9)	X'2'	0	DCT2MODK	"$ODKEEP" MODIFY OUTDISP=KEEP
761	(2F9)	X'1'	0	DCT2MODL	"$ODLEAVE" MODIFY OUTDISP=LEAVE
761	(2F9)	X'F'	0	DCT2MODA	"$ODANY" CHECK ALL BIT SETTINGS
762	(2FA)	BITSTRING	1	DCT3SRFL	DEVICE SELECT FLAG3 BYTE
762	(2FA)	X'8'	0	DCT3SODW	"$ODWRITE" SELECT OUTDISP=WRITE
762	(2FA)	X'4'	0	DCT3SODH	"$ODHOLD" SELECT OUTDISP=HOLD
762	(2FA)	X'2'	0	DCT3SODK	"$ODKEEP" SELECT OUTDISP=KEEP
762	(2FA)	X'1'	0	DCT3SODL	"$ODLEAVE" SELECT OUTDISP=LEAVE
762	(2FA)	X'F'	0	DCT3SODA	"$ODANY" CHECK ALL BIT SETTINGS
763	(2FB)	CHARACTER	1	DCTSRMCL	DEVICE MODIFY JOB CLASS
764	(2FC)	CHARACTER	12	DCTSRMNO	DEVICE MODIFY NODE NUMBER
776	(308)	CHARACTER	4	DCTSRMFC	DEVICE MODIFY FCB ID

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
780	(30C)	CHARACTER	4	DCTSRMFL	DEVICE MODIFY FLASH
784	(310)	CHARACTER	4	DCTSRMUC	DEVICE MODIFY UCS ID
788	(314)	CHARACTER	8	DCTSRMPR	DEVICE MODIFY PRMODE LIST
796	(31C)	CHARACTER	8	DCTSRMFO	DEVICE MODIFY FORMS ID
804	(324)	CHARACTER	1	DCTSRMWI	DEVICE MODIFY WRITER ID
804	(324)	X'32C'	0	DCTOREND	"*" SYSOUT RECEIVER DCT END
	DCTSTAT2				
		1...		DCTCIP	"B'10000000'" COMMAND IN PROGRESS
		.1..		DCTGTDCB	"B'01000000'" DEVICE NEEDS A DCB
		..1.		DCTGTBSM	"B'00100000'" DEVICE NEEDS A BSAM DCB
		...1		DCTNEWFS	"B'00010000'" DCT FSS-OWNERSHIP IS TO BE CHANGED TO THE FSS IN DCTFSSNW
		.... 1...		DCT$TFLS	"B'00001000'" $T FLASH INDICATOR
		.... .1..		DCTR190	"B'00000100'" RMT PRPU WILL STOP FOR A REPLY TO SETUP MESSAGE
		.... ..1.		DCT$TNSP	"B'00000010'" $T FSS PRT.. non setup parameters change require FSACB updates
		1		DCTRCVPG	"B'00000001'" NJE xmitter received 'permission granted'
	MDCTATTN				
		1...		MDCTIMER	"B'10000000'" TIMED ACTION REQUESTED
		.1..		MDCTPAWS	"B'01000000'" LINE PAUSE REQUESTED
		..1.		MDCTJOB1	"B'00100000'" JOB POST INDICATOR 1
		...1		MDCTJOB2	"B'00010000'" JOB POST INDICATOR 2
804	(324)	X'30'	0	MDCTJOB	"MDCTJOB1+MDCTJOB2" JOB POST INDICATION
		.... 1...		MDCTDSC	"B'00001000'" LINE DISCONNECT SEQUENCE
		.... .1..		MDCTINTE	"B'00000100'" DISCINTV exceeded reason to be put in HASP203 msg
		.... ..1.		MDCTSTRT	"B'00000010'" START VERIFICATION REQUIRED
		1		MDCTATT8	"B'00000001'" RESERVED FOR FUTURE USE
	MDCTSTAT				
		1...		DCTLEASE	"B'10000000'" DEDICATED LINE
		1...		DCTADS	"B'10000000'" ABNORMAL END OF DATA
		.1..		DCTSHARE	"B'01000000'" SHARED LINE
		..1.		DCTETX	"B'00100000'" AN ETX HAS BEEN RECEIVED
		..1.		DCTFLUSH	"B'00100000'" STREAM HAS BEEN TERMINATED
		...1		DCTSOFF	"B'00010000'" SIGNOFF RCVD OR DISCONNECT REQD
		...1		DCTEOF	"B'00010000'" AN EOF HAS BEEN DETECTED
		.... 1...		DCTSINON	"B'00001000'" REMOTE DCT IS ATTACHED TO LNE DCT

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCTSHMSG	"B'00000100'" Message issued for denied nonshare req (Init only)
		.... .1..		DCTPOST	"B'00000100'" I/O COMPLETE FLAG
		.... ..1.		DCTABORT	"B'00000010'" TRANSMISSION WAS ABORTED
		1		DCTPBUF	"B'00000001'" REMOTE OUTPUT BUFFER INDICATOR
		1		DCTPSUSP	"B'00000001'" REMOTE DEVICE HAS BEEN SUSPENDED
	XDCTSTAT				
		1...		XDCTOPEN	"B'10000000'" $EXTP OPEN ISSUED
		.1..		XDCTERR	"B'01000000'" I/O ERROR INDICATOR
	EQU B'00100000' DCTFLUSH EQU B'00010000' DCTEOF				
		.... 1...		XDCTMSG	"B'00001000'" FORCE DRAINED MESSAGE
		.... .1..		XDCTSKIP	"B'00000100'" RECEIVER SKIPPING BUFFER
	EQU B'00000010' DCTABORT EQU B'00000001' DCTPBUF MDCTLINE				
		1...		DCTPTRSP	"B'10000000'" TRANSPARENCY
		.1..		DCTPASCI	"B'01000000'" USASCII CODE
		..1.		DCTPCTC	"B'00100000'" CHANNEL-TO-CHANNEL ADAPTER
		...1		DCTPHASP	"B'00010000'" HASP-TO-HASP
		.... 1...		DCTPCOMP	"B'00001000'" COMPRESS-EXPAND FEATURE
		.... .1..		DCTPNADS	"B'00000100'" NO ABORTIVE DISCONNECT
		.... ..1.		DCTPWIDE	"B'00000010'" WIDE-BAND LINE
		1		DCTPFULL	"B'00000001'" FULL-DUPLEX LINE
	MDCTTYPE				
		1...		DCTPSNA	"B'10000000'" SNA LU TYPE TERMINAL
		.1..		DCTPCPU	"B'01000000'" BSC CPU TYPE TERMINAL
		..1.		DCTPHDW	"B'00100000'" BSC HARDWARE TERMINAL
		...1		DCTPTCP	"B'00010000'" TCP/IP LOGICAL DEVICE
		 1111		DCTPSUBC	"B'00001111'" LOW ORDER 4 BITS (X'0F') FOR DEVICE SUB-CLASSIFICATION
804	(324)	X'81'	0	DCTPLU1	"DCTPSNA+X'01'" SNA LU TYPE 1
804	(324)	X'41'	0	DCTP20S2	"DCTPCPU+X'01'" 360/20 SUBMODEL 2
804	(324)	X'42'	0	DCTP20S5	"DCTPCPU+X'02'" 360/20 SUBMODEL 5
804	(324)	X'43'	0	DCTP20S6	"DCTPCPU+X'03'" 360/20 SUBMODEL 6
804	(324)	X'44'	0	DCTP360	"DCTPCPU+X'04'" SYSTEM/360
804	(324)	X'45'	0	DCTP1130	"DCTPCPU+X'05'" 1130
804	(324)	X'46'	0	DCTPSYS3	"DCTPCPU+X'06'" SYSTEM/3
804	(324)	X'47'	0	DCTPCRS7	"DCTPCPU+X'07'" RESERVED FOR FUTURE USE
804	(324)	X'48'	0	DCTPSY36	"DCTPCPU+X'08'" SYSTEM 36 (BSC MODE)

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
804	(324)	X'49'	0	DCTP370	"DCTPCPU+X'09'" SYSTEM/370
804	(324)	X'4A'	0	DCTP20S4	"DCTPCPU+X'0A'" 360/20 SUBMODEL 4
804	(324)	X'4B'	0	DCTP2922	"DCTPCPU+X'0B'" 2922
804	(324)	X'21'	0	DCTP2770	"DCTPHDW+X'01'" 2770
804	(324)	X'22'	0	DCTP3781	"DCTPHDW+X'02'" 3781
804	(324)	X'23'	0	DCTP3740	"DCTPHDW+X'03'" 3740
804	(324)	X'24'	0	DCTP3780	"DCTPHDW+X'04'" 3780
804	(324)	X'25'	0	DCTP2780	"DCTPHDW+X'05'" 2780
		MDCTSEL			
		1...		DCTPOUTB	"B'10000000'" OUTBOUND DEVICE SELECTION
		MDCTPMFL			
		1...		DCTNPLIM	"B'10000000'" PATH MANAGER BUFFER LIMIT REACHED
		MDCTFMT			
		1...		DCTPBLK	"B'10000000'" BLOCKED RECORDS
		.1..		DCTPVAR	"B'01000000'" VARIABLE LENGTH RECORDS
		..1.		DCTPROG	"B'00100000'" MULTI-LEAVING INTERFACE
		.... 1...		DCTPFCB	"B'00001000'" DEVICE FCB HAS BEEN LOADED
		CTPPRES EQU B'00000100' COMPRESSED DATASTREAM ACTIVE			
		.... ..1.		DCTPALTC	"B'00000010'" ALTERNATE CODE SELECTED
		1		DCTPCPCT	"B'00000001'" COMPACTED DATASTREAM ACTIVE
		...1		DCTHOLDS	"B'00010000'" NJE TRANSMISSION HOLD STREAM
		MDCTFEAT CTPTRSP EQU B'10000000' TERMINAL TRANSPARENCY			
		.... ..1.		DCTPMRF	"B'00000010'" MULTIPLE-RECORD FEATURE
		.1..		DCTPBEXP	"B'01000000'" BUFFER EXPANSION FEATURE
		..1.		DCTPABEX	"B'00100000'" ADDITIONAL BUFFER EXPANSION
		..1.		DCTPNDST	"B'00100000'" MEDIA NOT BASIC EXCHANGE
		...1		DCTPTAB	"B'00010000'" HORIZONTAL FORMAT CONTROL
		...1		DCTPCCTL	"B'00010000'" CARRIAGE CONTROL
		.... 1...		DCTPSHDR	"B'00001000'" SETUP HEADER FEATURE
		.... .1..		DCTPPRES	"B'00000100'" COMPRESS-EXPAND FEATURE
		CTPALTC EQU B'00000010' ALTERNATE CODE SELECTED CTPCPCT EQU B'00000001' COMPACTION FEATURE DCTRAUTH			
		.... 1...		DCTREJRM	"B'00001000'" REMOTE RESTRICTION

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCTREJJB	"B'00000100'" RESTRICTED FROM JOB COMMANDS
		.... ..1.		DCTREJDV	"B'00000010'" RESTRICTED FROM DEVICE COMMANDS
		1		DCTREJSY	"B'00000001'" RESTRICTED FROM SYSTEM COMMANDS
	MDCTNFL				
		1...		MDCTNFLL	"B'10000000'" THIS END LOW NODE
		.1..		MDCTNFLC	"B'01000000'" CONCURRENCE REQUIRED
		..1.		MDCTNFLE	"B'00100000'" RESET REQUIRED
		...1		MDCTNFLQ	"B'00010000'" ON ACTIVE QUEUE
		.... 1...		MDCTNFLS	"B'00001000'" SECONDARY TRUNK
		.... .1..		MDCTNFLI	"B'00000100'" SIGNON INPUT EXPECTED
		.... ..1.		MDCTNFLP	"B'00000010'" Signon is pending MAS validation
		1		MDCTNJEH	"B'00000001'" SEND NJE HDR TO SESSION PARTNR
	MDCTNFL2				
		1...		MDCTNF2R	"B'10000000'" THIS LINE REQUIRES RESTART
		.1..		MDCTNF2S	"B'01000000'" RESTART OF THIS LINE IS AS SECONDARY
		..1.		MDCTNF2N	"B'00100000'" Restart line after draining it
		...1		MDCTNF2A	"B'00010000'" Signon of NJE line as primary trunk has completed
		.... 1...		MDCTNF2D	"B'00001000'" The transmitter/receiver DCTs for this line are assigned at init and should not be freed
		.... .1..		MDCTNF2I	"B'00000100'" Received 'I' record, awaiting MAS validation
		.... ..1.		MDCTNF2J	"B'00000010'" Received 'J' record, awaiting MAS validation
	MDCTNFL3				
		1...		MDCTNF3M	"B'10000000'" Multi-trunk bit set from MAS validation
		.1..		MDCTNF3J	"B'01000000'" Multi-trunk bit set from 'J' record
		..1.		MDCTNF3S	"B'00100000'" Secure NJE signon
		...1		MDCTNF3Q	"B'00010000'" DCT is queued to PCT
		1		MDCTNF3E	"B'00000001'" $EXTP PUT failed for other than buffer shortage while transmitting NMR
	DCTPPFL				
		1...		DCTEJECT	"B'10000000'" PRINTER IS AT TOP OF PAGE
		.1..		DCTRPSSE	"B'01000000'" REMOTE PRINTER - SUPPRESS PAGE EJECT ON RMT SIGNON

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCTRUSBC	"B'01000000'" REMOTE PUNCH - SUPPRESS BLANK CARD TO FLUSH PUNCH BETWEEN/ AFTER DATA SETS
		..1.		DCTALIGN	"B'00100000'" PRINTER WILL ACCEPT ALIGNMENT
		...1		DCTRANS	"B'00010000'" PRINTER TRANSLATION SPECIFIED
		.... 1...		DCTTCEL	"B'00001000'" TRACK-CELL DESPOOLING
		.... .1..		DCTRMFCB	"B'00000100'" REMOTE PRINTER HAS FCB FEATURE
		.... ..1.		DCTSUSPD	"B'00000010'" OUTPUT SUSPEND IS ALLOWED
CTPAUSE EQU B'00000001' OPERATOR SET PAUSE=YES					
		DCTPPSW			
		1...		DCTPPSWC	"B'10000000'" FCB CARRIAGE ALTERED
		..1.		DCTPPSWB	"B'00100000'" FCB NOT STANDARD
		...1		DCTPPSWS	"B'00010000'" SUPRESS SEPARATOR PAGES
		.... 1...		DCTPPSWT	"B'00001000'" UCS TRAIN ALTERED
		.... .1..		DCTPPSWU	"B'00000100'" UCS NOT STANDARD
		.... ..1.		DCTPPSWI	"B'00000010'" DEVICE IDLE MESSAGE ISSUED
		1		DCTPPSWO	"B'00000001'" OPERATOR ACTION ALLOWED
		DCTPPSW2			
		1...		DCTNIPRT	"B'10000000'" N/I-PRINTER DCT IDENTIFIER
		.1..		DCTSTFSS	"B'01000000'" Device can only be successfully started if in FSS mode (for example, AFP1 devices)
		..1.		DCTNIMRK	"B'00100000'" N/I-PRT FORMS MARK ALTERED
		...1		DCTCKJAM	"B'00010000'" N/I-CANCEL KEY OR PAPER JAM G38E
		.... 1...		DCTNINIT	"B'00001000'" N/I-PRINTER INITIALIZATION SWITCH
		.... .1..		DCTSEPNL	"B'00000100'" N/I DON'T LOAD DEFAULT FOR SEP
		.... ..1.		DCTSDSSW	"B'00000010'" NOSEPDS/SEPDS SWITCH
		1		DCTBFCKP	"B'00000001'" $B/$F FROM LAST CHECKPOINT
		DCTPPSW3 THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE FOR HASPCOMM PROCESSING			
		1...		DCTDOPN	"B'10000000'" DCB HAS BEEN OPENED
		.1..		DCTS3TFC	"B'01000000'" FCB has been modified via a $T command
		..1.		DCTUCSBL	"B'00100000'" USE 4245 BLDL/LOAD FLAG
		...1		DCT3UCSV	"B'00010000'" PERFORM 424X UCS VERIFY
		.... 1...		DCTS3CNO	"B'00001000'" COPYMARKS NONE
		.... .1..		DCTS3CDS	"B'00000100'" COPYMARKS ON DATASET LEVEL

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DCTS3CJB	"B'00000010'" COPYMARKS ON JOB LEVEL
		1		DCTS3CON	"B'00000001'" COPYMARKS CONSTANT
804	(324)	X'F'	0	DCTS3CPY	"DCTS3CNO+DCTS3CDS+DCTS3CJB+DCTS3CON" COPYMARKS reset
	DCTPPSW4				
		1...		DCTS4NPS	"B'10000000'" NO DATA SET PRESELECTION
		.1..		DCTSNHLT	"B'01000000'" DO NOT HALT DEV FOR SETUP
		..1.		DCTSNHOR	"B'00100000'" SETUP=NOHALT OVERRIDE
		...1		DCTS4OPI	"B'00010000'" INTERVENTION-REQUIRED CONDITION
		.... 1...		DCTS4TUN	"B'00001000'" Unit has been modified via $T command
		.... .1..		DCTS4AIS	"B'00000100'" Send data ASIS to remote
		.... ..1.		DCT4TRNY	"B'00000010'" TRANS=YES
		1		DCT4TRNN	"B'00000001'" TRANS=NO
	XDCTFLG1				
		1...		XDCT1DMP	"B'10000000'" TRANSMIT (DUMP)
		.1..		XDCT1LOD	"B'01000000'" RECEIVE (LOAD)
		..1.		XDCT1SUB	"B'00100000'" SUBTASK OPERATING ON THIS DCT
		...1		XDCT1ALC	"B'00010000'" OFFLOAD DATASET ALLOCATED
		.... 1...		XDCT1CLS	"B'00001000'" CLOSE ISSUED FOR OFFLOAD DCT
		.... .1..		XDCT1VER	"B'00000100'" RECORD VERIFICATION ERROR
		.... ..1.		XDCT1RD	"B'00000010'" READ IN PROGRESS FOR OFFLOAD
		1		XDCT1STR	"B'00000001'" OFFLOAD DEVICE BEING RESTARTED
	XDCTFLG2				
		1...		XDCT2ST	"B'10000000'" OFFLOAD XMIT/RECEIVE CAN BEGIN
		.1..		XDCT2PRO	"B'01000000'" SAF PROTECTION IF DISP=NEW
		..1.		XDCT2NDF	"B'00100000'" Node of offload and this node are different
		...1		XDCT2NVR	"B'00010000'" Skip checks of time/date stamp from first record
		.... 1...		XDCT2CRT	"B'00001000'" Set create time for jobs and SYSOUT to original creation time
	MDCTFLG1 SNA REMOTE DCT FLAG BYTE				
		1...		MDCT1OUT	"B'10000000'" OUTPUT EXISTS FOR THIS DEV

Table 123. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MDCT1EOT	"B'01000000'" ACKN END-OF-TRANS (ATC) FLG

Table 124. Cross Reference for $DCT

Name	Offset	Hex Tag
DCT	0	
DCT$TFLS	324	8
DCT$TNSP	324	2
DCTABORT	324	2
DCTACB	10	
DCTACPTN	32F	
DCTADS	324	80
DCTAGE	2B0	
DCTALIGN	324	20
DCTARMID	59	5
DCTASAPI	2D4	
DCTATTN	C	2
DCTBFCKP	324	1
DCTBKSP	D	8
DCTBUFAD	18	
DCTBUFCN	20	
DCTBUFLM	20	14
DCTCCWTB	33C	
DCTCDCTX	50	
DCTCHAIN	34	
DCTCHAR1	318	
DCTCHAR2	31C	
DCTCHAR3	320	
DCTCHAR4	324	
DCTCIP	324	80
DCTCKJAM	324	10
DCTCKPTL	332	
DCTCKPTP	330	
DCTCKPTT	334	
DCTCLASS	1F0	
DCTCLENT	2E8	
DCTCMODF	F	4
DCTCMODJ	F	2
DCTCNODE	2F0	
DCTCOMID	59	3
DCTCRUID	18C	
DCTCSW	340	
DCTCURJB	184	
DCTCWS	B8	
DCTCWSLN	1E8	130
DCTDALEN	23	1C

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTDCB	10	
DCTDCPTN	32E	
DCTDDFCB	30C	
DCTDELET	D	40
DCTDEVID	59	
DCTDEVI2	1DA	
DCTDEVN	38	
DCTDEVNC	1C8	1C8
DCTDEVN2	1C8	
DCTDEVTP	22	
DCTDEVT2	1D9	
DCTDOPN	324	80
DCTDRAIN	C	40
DCTDVTPX	22	40
DCTEJECT	324	80
DCTEOF	324	10
DCTERMNR	E	40
DCTETX	324	20
DCTEWF	1C	
DCTEXORG	88	
DCTFCB	298	
DCTFCKMD	F	40
DCTFDFLT	F	20
DCTFEORG	68	
DCTFLAGS	D	
DCTFLAG2	E	
DCTFLAG3	23	
DCTFLAG4	2C	
DCTFLASH	2A0	
DCTFLGFW	C	
DCTFLSHD	2A4	
DCTFLUSH	324	20
DCTFORMS	1E8	
DCTFSAID	306	
DCTFSET	F	8
DCTFSID	304	
DCTFSSCH	300	
DCTFSSFL	F	
DCTFSSID	304	
DCTFSSMD	F	1
DCTFSSNM	2F8	
DCTFSSNW	300	
DCTFSYNC	F	10
DCTGTBSM	324	20
DCTGTDCB	324	40
DCTGTW	2D0	

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTHOLD	C	20
DCTHOLDJ	D	4
DCTHOLDS	324	10
DCTID	0	
DCTID2	B8	E6E2D740
DCTINDEX	310	
DCTINDIR	195	80
DCTINR	22	14
DCTINRID	59	0
DCTINT	22	4
DCTINUSE	C	80
DCTIRORG	B7	B8
DCTJCFMT	208	80
DCTJCHRH	1A8	
DCTJCHRL	1A0	
DCTJCLAS	20A	
DCTJCLA8	AD	
DCTJCLS1	20A	
DCTJCLS8	20A	
DCTJCOR	218	
DCTJNUMH	19C	
DCTJNUML	198	
DCTJOBNM	17C	
DCTJREND	B8	B8
DCTJRMC8	253	
DCTJRMNO	25C	
DCTJRMSF	24E	
DCTJRSAF	24A	
DCTJTDHD	24A	40
DCTJTDKP	24A	20
DCTJTDPG	24A	80
DCTJTDSP	24A	
DCTJTEND	24A	24B
DCTJWS	B8	
DCTJWSFL	208	
DCTJWSLN	20A	192
DCTLDPID	32C	
DCTLEASE	324	80
DCTLENG	2F8	240
DCTLGNID	59	C0
DCTLIMHI	1E4	
DCTLIMLO	1E0	
DCTLNE	22	2
DCTLNEID	59	D0
DCTLOG	22	6
DCTLOGAL	D	1

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTLPOS	DB	
DCTLRECL	58	
DCTMAXWS	C0	19
DCTMCLAS	B5	
DCTMLNE	22	E
DCTMODF	328	
DCTMQTR	12	
DCTMQTRD	10	
DCTNACTV	2D8	
DCTNET	22	8
DCTNEWFS	324	10
DCTNIBRS	2C8	40
DCTNIFCB	308	
DCTNIMRK	324	20
DCTNINIT	324	8
DCTNIPRT	324	80
DCTNJR	22	18
DCTNJRID	59	50
DCTNJT	22	38
DCTNJTID	59	40
DCTNMVOL	BC	
DCTNODE	148	0
DCTNPLIM	324	80
DCTNPRO	336	
DCTNRC	194	
DCTNRLEN	148	4
DCTNRR	22	58
DCTNRT	22	78
DCTNSR	22	8
DCTNSRID	59	70
DCTNST	22	28
DCTNSTID	59	60
DCTNUM	59	5A
DCTODPNV	D9	8
DCTOFF	22	84
DCTOFFID	59	FF
DCTOJEND	24A	24B
DCTOJRLN	25C	25E
DCTONODE	DE	
DCTOPEN	E	1
DCTOREND	324	32C
DCTOSEND	2F9	2FC
DCTOUTID	59	E
DCTPABEX	324	20
DCTPACTV	2DC	
DCTPALTC	324	2

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTPASCI	324	40
DCTPATTN	C	4
DCTPAUSE	C	1
DCTPBEXP	324	40
DCTPBLK	324	80
DCTPBUF	324	1
DCTPCCTL	324	10
DCTPCE	8	
DCTPCOMP	324	8
DCTPCPCT	324	1
DCTPCPU	324	40
DCTPCRS7	324	47
DCTPCTC	324	20
DCTPFCB	324	8
DCTPFULL	324	1
DCTPHASP	324	10
DCTPHDW	324	20
DCTPJOE	2CC	
DCTPLIMH	2AC	
DCTPLIML	2A8	
DCTPLU1	324	81
DCTPMRF	324	2
DCTPNADS	324	4
DCTPNDST	324	20
DCTPOSNL	E1	FF
DCTPOST	324	4
DCTPOUTB	324	80
DCTPPFL	311	
DCTPPOS	DD	
DCTPPOSM	E0	
DCTPPRES	324	4
DCTPPSW	312	
DCTPPSWB	324	20
DCTPPSWC	324	80
DCTPPSWI	324	2
DCTPPSWO	324	1
DCTPPSWS	324	10
DCTPPSWT	324	8
DCTPPSWU	324	4
DCTPPSW2	313	
DCTPPSW3	314	
DCTPPSW4	315	
DCTPPSW5	316	
DCTPPSW6	317	
DCTPREND	340	344
DCTPRGID	59	4

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTPRINC	B6	
DCTPRINT	90	
DCTPRIRQ	D9	4
DCTPRLIM	B7	
DCTPRMD	2BC	
DCTPRNOD	90	
DCTPROG	324	20
DCTPRPU	22	20
DCTPRRTE	92	
DCTPRSER	94	
DCTPRT	22	20
DCTPRTBL	2C4	
DCTPRTID	59	20
DCTPRTRN	338	
DCTPSHDR	324	8
DCTPSNA	324	80
DCTPSUBC	324	F
DCTPSUSP	324	1
DCTPSYS3	324	46
DCTPSY36	324	48
DCTPTAB	324	10
DCTPTCP	324	10
DCTPTRSP	324	80
DCTPUN	22	30
DCTPUNCH	9C	
DCTPUNID	59	30
DCTPUNOD	9C	
DCTPURTE	9E	
DCTPUSER	A0	
DCTPVAR	324	40
DCTPWIDE	324	2
DCTP1130	324	45
DCTP20S2	324	41
DCTP20S4	324	4A
DCTP20S5	324	42
DCTP20S6	324	43
DCTP2770	324	21
DCTP2780	324	25
DCTP2922	324	4B
DCTP360	324	44
DCTP370	324	49
DCTP3740	324	23
DCTP3780	324	24
DCTP3781	324	22
DCTQPOS	DA	
DCTQVAL	D8	80

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTQWS	D8	20
DCTRACE	E	80
DCTRANS	324	10
DCTRAUTH	AC	
DCTRBFF	E	20
DCTRC	14C	
DCTRCLEN	148	C
DCTRCMAX	148	4
DCTRCON	22	42
DCTRCVPG	324	1
DCTRDEND	B8	
DCTRDFL1	8A	
DCTRDNOD	8C	
DCTRDONE	59	2
DCTRDR	22	10
DCTRDRID	59	10
DCTRDRT	8C	
DCTRDRTE	8E	
DCTREJDV	324	2
DCTREJJB	324	4
DCTREJRM	324	8
DCTREJSY	324	1
DCTRJE	22	2
DCTRJI	22	50
DCTRJR	22	12
DCTRMFCB	324	4
DCTRMTID	59	80
DCTROUTE	148	2
DCTRPOS	DC	
DCTRPP	22	30
DCTRPR	22	22
DCTRPSSE	324	40
DCTRPT	D	10
DCTRPU	22	32
DCTRRDY	E	10
DCTRSINT	26	
DCTRSTIM	28	
DCTRSTRT	D	20
DCTRTAM	C	8
DCTRTE	E	1
DCTRTEID	59	8
DCTRTEQ	195	
DCTRUSBC	324	40
DCTRVAL	D8	40
DCTRWS	D8	1
DCTR1IND	8A	80

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTR190	324	4
DCTSAF	1E8	
DCTSAFPT	1EC	
DCTSAPID	59	D
DCTSCHE	1F8	
DCTSDSSW	324	2
DCTSECLB	48	
DCTSEEK	10	
DCTSEEKF	10	
DCTSEPNL	324	4
DCTSFSID	59	1
DCTSHARE	324	40
DCTSHMSG	324	4
DCTSIAFF	A8	
DCTSINON	324	8
DCTSIZE	4	
DCTSLASH	D8	10
DCTSLLIM	D9	20
DCTSNHLT	324	40
DCTSNHOR	324	20
DCTSOFF	324	10
DCTSOFF2	D	10
DCTSPACE	D	3
DCTSPNID	59	2
DCTSPOF	22	80
DCTSP1	D	1
DCTSP2	D	2
DCTSREND	80	88
DCTSRMCL	2FB	
DCTSRMFC	308	
DCTSRMFL	30C	
DCTSRMFO	31C	
DCTSRMNO	2FC	
DCTSRMPR	314	
DCTSRMUC	310	
DCTSRMWI	324	
DCTSRV	22	C
DCTSRVCL	1F0	
DCTSRVID	59	E0
DCTSTART	F	80
DCTSTAT	C	
DCTSTAT2	24	
DCTSTDHD	2F8	40
DCTSTDKP	2F8	20
DCTSTDPG	2F8	80
DCTSTDSP	2F8	

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTSTEND	2F9	2FC
DCTSTFSS	324	40
DCTSTOP	D	80
DCTSTRT	C	4
DCTSUSPD	324	2
DCTSWS	B8	
DCTSWSCR	2CC	218
DCTSWSLN	2F8	240
DCTS3CDS	324	4
DCTS3CJB	324	2
DCTS3CNO	324	8
DCTS3CON	324	1
DCTS3CPY	324	F
DCTS3TFC	324	40
DCTS4AIS	324	4
DCTS4NPS	324	80
DCTS4OPI	324	10
DCTS4TUN	324	8
DCTTCEL	324	8
DCTTODNE	59	1
DCTTOKA	44	
DCTUCB	40	
DCTUCS	29C	
DCTUCSBL	324	20
DCTUNAL	C	10
DCTUNIT	7C	
DCTUSEID	148	4
DCTUSER0	5C	
DCTUSER1	60	
DCTVOL	C0	
DCTVOLEN	B8	6
DCTVOLFL	D8	8
DCTVOLMX	B8	4
DCTWFORC	258	258
DCTWFORM	258	
DCTWKBUF	300	
DCTWORK	88	
DCTWRASI	1C0	
DCTWRNUM	1BC	
DCTWS	E4	D8
DCTWSANY	1B8	1F
DCTWSBEG	D8	
DCTWSBNS	2C8	10
DCTWSBTH	2C8	4
DCTWSCTK	D9	10
DCTWSDAN	2C8	20

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTWSDSH	2C8	80
DCTWSENL	1B9	80
DCTWSENP	1B9	40
DCTWSENT	C0	4
DCTWSFAP	1B8	2
DCTWSFG1	1B8	
DCTWSFG2	2C8	
DCTWSFG3	2E0	
DCTWSFG4	1B9	
DCTWSFG5	196	
DCTWSFJG	1B8	1
DCTWSFJR	1B8	10
DCTWSFST	1B8	8
DCTWSFTS	1B8	4
DCTWSHLD	1B8	80
DCTWSHNS	1B8	40
DCTWSIP	2C8	8
DCTWSLIM	D9	40
DCTWSLOC	195	80
DCTWSNET	195	20
DCTWSNOT	1B8	20
DCTWSODP	D9	80
DCTWSP	B8	
DCTWSPRI	D8	
DCTWSPRL	C0	C
DCTWSPR2	D9	
DCTWSREQ	E4	
DCTWSRGS	D8	2
DCTWSRMT	195	40
DCTWSRNG	D8	4
DCTWSTB	148	
DCTWSTKN	2C8	2
DCTWSUSE	195	10
DCTWS3CF	2E0	10
DCTWS3QD	2E0	80
DCTWS3QT	2E0	40
DCTWS3QX	2E0	20
DCTWS3XN	2E0	8
DCTWTRID	2B4	
DCTXEQND	88	
DCTXFEND	F4	
DCTXFRID	59	F
DCTXJR	22	90
DCTXJT	22	B0
DCTXSR	22	80
DCTXST	22	A0

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTXWTID	59	F
DCT1GENC	196	80
DCT1GEN1	196	40
DCT1JHLD	252	80
DCT1JHNL	252	40
DCT1JRFL	252	
DCT1SBNL	2F8	4
DCT1SBUR	2F8	8
DCT1SHLD	2F8	80
DCT1SHNL	2F8	40
DCT1SODA	2C9	F
DCT1SODH	2C9	4
DCT1SODK	2C9	2
DCT1SODL	2C9	1
DCT1SODW	2C9	8
DCT1SRFL	2F8	
DCT1STFL	2C9	
DCT2MODA	2F9	F
DCT2MODH	2F9	4
DCT2MODK	2F9	2
DCT2MODL	2F9	1
DCT2MODW	2F9	8
DCT2POST	E	8
DCT2PTRC	E	4
DCT2RSP	E	2
DCT2SRFL	2F9	
DCT3IOER	23	20
DCT3JWS	23	80
DCT3SODA	2FA	F
DCT3SODH	2FA	4
DCT3SODK	2FA	2
DCT3SODL	2FA	1
DCT3SODW	2FA	8
DCT3SRFL	2FA	
DCT3SWS	23	40
DCT3UCSV	324	10
DCT4ARST	2C	80
DCT4NSYN	2C	40
DCT4TRNN	324	1
DCT4TRNY	324	2
DCT5$PPN	316	2
DCT5$SPN	316	4
DCT5CALL	316	40
DCT5C1ON	316	80
DCT5DNRC	316	8
DCT5FROF	316	1

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCT5TFSS	316	10
DCT5TUCS	316	20
DCT6NOTR	317	80
MDCTABRT	AC	
MDCTACT	CC	
MDCTADCT	68	
MDCTAFTK	88	
MDCTAPNL	93	
MDCTAPPL	94	
MDCTASID	AC	
MDCTASNM	B0	
MDCTATE	9C	
MDCTATMP	F8	
MDCTATTN	76	
MDCTATT8	324	1
MDCTATYP	75	
MDCTBFSZ	78	
MDCTBIDR	AC	
MDCTCHLM	7B	
MDCTCMCT	E3	
MDCTCNTS	B4	
MDCTCODE	9C	
MDCTDCK	A8	
MDCTDCNT	CA	
MDCTDCT	70	
MDCTDSC	324	8
MDCTERCT	6F	
MDCTESTR	128	
MDCTEXCD	C8	
MDCTEXIT	CC	
MDCTEXWK	C8	
MDCTFCS	7A	
MDCTFEAT	6B	
MDCTFLG1	76	
MDCTFMT	6A	
MDCTICE	6C	
MDCTIFEA	104	
MDCTIKEY	118	
MDCTIMER	324	80
MDCTIMOK	94	
MDCTINTE	324	4
MDCTINVL	A8	
MDCTISTR	120	
MDCTISWL	130	
MDCTJOB	324	30
MDCTJOB1	324	20

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTJOB2	324	10
MDCTJRNM	109	
MDCTJTNM	108	
MDCTKEEP	98	
MDCTLEND	140	
MDCTLGND	D0	
MDCTLINE	74	
MDCTLNCC	DF	
MDCTLNOD	13C	
MDCTLOGN	9C	
MDCTLUST	A8	
MDCTMDID	B0	
MDCTMDNQ	A8	
MDCTMDOM	100	
MDCTMEMB	90	
MDCTMLMQ	25	
MDCTMODE	6E	
MDCTMPER	B0	
MDCTMRRT	110	
MDCTMRT	10C	
MDCTMTIM	AC	
MDCTNA	D0	
MDCTNAK	A4	
MDCTNATP	9C	
MDCTNCES	D8	
MDCTNDCT	A8	
MDCTNEGR	E4	0
MDCTNETA	E3	CC
MDCTNFL	E2	
MDCTNFLC	324	40
MDCTNFLE	324	20
MDCTNFLG	AE	
MDCTNFLI	324	4
MDCTNFLL	324	80
MDCTNFLP	324	2
MDCTNFLQ	324	10
MDCTNFLS	324	8
MDCTNFL2	DC	
MDCTNFL3	DD	
MDCTNF2A	324	10
MDCTNF2D	324	8
MDCTNF2I	324	4
MDCTNF2J	324	2
MDCTNF2N	324	20
MDCTNF2R	324	80
MDCTNF2S	324	40

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTNF3E	324	1
MDCTNF3J	324	40
MDCTNF3M	324	80
MDCTNF3Q	324	10
MDCTNF3S	324	20
MDCTNICE	A0	
MDCTNJEH	324	1
MDCTNLDV	108	
MDCTNLNE	A4	
MDCTNM	CC	
MDCTNMAP	F0	
MDCTNNR	D6	
MDCTNO	EC	
MDCTNODE	EC	
MDCTNOSE	AE	8
MDCTNOTS	114	
MDCTNPAS	F8	
MDCTNPCH	A0	
MDCTNQSE	A4	
MDCTNR	D4	
MDCTNSEC	AE	10
MDCTNSLO	AE	4
MDCTNTRC	AE	40
MDCTNTRJ	AE	20
MDCTNVRB	AE	80
MDCTOBUF	90	
MDCTOPCT	E0	
MDCTOTAL	A0	
MDCTPAWS	324	40
MDCTPCL	80	
MDCTPGM	88	
MDCTPMBC	C8	
MDCTPMFL	C9	
MDCTPROC	90	
MDCTPSWD	88	
MDCTPWDL	7B	
MDCTQTBF	84	
MDCTQUAL	EE	
MDCTRABF	BC	
MDCTRACT	BA	
MDCTRALM	B8	
MDCTRAT	98	
MDCTRAWK	B8	
MDCTRCB	69	
MDCTRECL	68	
MDCTREM	B0	

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTRFCN	13B	40
MDCTRFCY	13B	80
MDCTRFXE	80	88
MDCTRNTA	F4	
MDCTRQBF	C4	
MDCTRQCT	C2	
MDCTRQLM	C0	
MDCTRQWK	C0	
MDCTRSEQ	6C	
MDCTRSTF	13B	
MDCTRSTI	138	
MDCTRSTM	134	
MDCTSBSZ	9A	
MDCTSCK	9C	
MDCTSCNT	B4	
MDCTSDCK	BC	
MDCTSDCT	18	
MDCTSEL	69	
MDCTSNAK	B8	
MDCTSNCT	90	
MDCTSOCK	A0	
MDCTSONT	114	
MDCTSREM	C4	
MDCTSRNM	10B	
MDCTSSQD	A8	
MDCTSTAK	B8	
MDCTSTAT	77	
MDCTSTNM	10A	
MDCTSTO	C0	
MDCTSTRT	324	2
MDCTSUSP	7A	
MDCTSVND	C0	
MDCTSXCP	B4	
MDCTTDRN	DE	80
MDCTTFLG	DE	
MDCTTO	AC	
MDCTTSEQ	6D	
MDCTTTRC	DE	20
MDCTTTRJ	DE	10
MDCTTVRB	DE	40
MDCTTYPE	75	
MDCTVREQ	A0	
MDCTWICE	78	
MDCTXCOD	CB	
MDCTXCP	A0	
MDCTXERR	74	

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTXRSP	A4	
MDCT1EOT	324	40
MDCT1OUT	324	80
XDCTACTV	C0	
XDCTBUFQ	BC	
XDCTCMPQ	B8	
XDCTDATE	AC	
XDCTDCT	6C	
XDCTDSN	C8	
XDCTDTE	88	
XDCTDVER	B4	
XDCTERCT	C4	
XDCTERR	324	40
XDCTFLG1	97	
XDCTFLG2	98	
XDCTFREE	A6	
XDCTLABL	9A	
XDCTMAXB	C6	
XDCTMSG	324	8
XDCTOFSL	A5	
XDCTOPCT	C5	
XDCTOPEN	324	80
XDCTRCB	69	
XDCTRTPD	9B	
XDCTSEQN	8C	
XDCTSKIP	324	4
XDCTSTAT	68	
XDCTSUBC	94	
XDCTSUBR	92	
XDCTTIME	A8	
XDCTTVER	B0	
XDCTUNCT	96	
XDCTUNIT	9D	
XDCTVOLS	99	
XDCTXNUM	90	
XDCT1ALC	324	10
XDCT1CLS	324	8
XDCT1DMP	324	80
XDCT1LOD	324	40
XDCT1RD	324	2
XDCT1STR	324	1
XDCT1SUB	324	20
XDCT1VER	324	4
XDCT2CRT	324	8
XDCT2NDF	324	20
XDCT2NVR	324	10

Table 124. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
XDCT2PRO	324	40
XDCT2ST	324	80

$DCTTAB information

$DCTTAB programming interface information

$DCTTAB is a programming interface.

$DCTTAB heading information

Common name: DCT Table Entry DSECT

Macro ID: $DCTTAB

DSECT name: DTAB

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of DCTTABs is preceded by an eyecatcher '**DCT POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: Part of HASJES20 or user exit load module
Key: 1
Residency: Part of the HASJES20 load module in the JES2 address space for HASP tables. Virtual and real storage anywhere within the JES2 address space for USER tables.

Size: See DTABELEN

Created by: Assembly

Pointed to by: MCTDCTTH field of the $MCT data area
MCTDCTTU field of the $MCT data area
DTABSCHN field of the $DCTTAB data area
PTABDTAB field of the $PCETAB data area
The end of the previous DCTTAB is the start of the next DCTTAB in the pool.

Serialization: $DCTTABs are read only.

Function: $DCTTAB maps the static tables used by JES2 for creation, location, and deletion of $DCTs.
$DCTTABs are used to define devices supported by IBM distributed code. They can also be used to define installation defined devices or to override IBM defined devices (this does not imply that IBM distributed code will support the installation defined devices).

$DCTTAB mapping

Table 125. Structure DTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTAB	
0	(0)	CHARACTER	8	DTABNAME	DCT TABLE ENTRY NAME
8	(8)	CHARACTER	24	DTABDESC	DCT DESCRIPTION
32	(20)	CHARACTER	8	DTABALS	DCT NAME ALIAS
40	(28)	BITSTRING	1	DTABFLG1	GENERAL FLAGS
		1...		DTAB1DEU	"B'10000000'" ENTRY IS USER DTAB ENTRY

Table 125. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DTAB1DEH	"B'01000000'" ENTRY IS HASP DTAB ENTRY
		..1.		DTAB1PCE	"B'00100000'" DCTS OF THIS TYPE EACH HAVE CORRESPONDING PCES
		...1		DTAB1MP	"B'00010000'" DCTS OF THIS TYPE ARE MANAGED AS AS A GROUP BY ONE PCE
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE
		1...		DTAB2SUB	"B'10000000'" DCT HAS SUBTYPE CHAIN (PARENT)
		.1..		DTAB2POL	"B'01000000'" DCT IS IN $DCTPOOL CHAIN
		..1.		DTAB2DCB	"B'00100000'" EXCP DCB AND DEB FOR DCT
		...1		DTAB2BSM	"B'00010000'" BSAM DCB BUILT FOR THIS DCT
		.... 1...		DTAB2CDC	"B'00001000'" CDCT BUILT FOR THIS DCT
42	(2A)	BITSTRING	1	DTABFLG3	Third flag
		1...		DTAB3JWS	"B'10000000'" Dev does JOB work sel
		.1..		DTAB3SWS	"B'01000000'" Dev does SYSOUT work sel
43	(2B)	BITSTRING	1	DTABFLG4	Fourth flag
		1...		DTAB4PPU	"B'10000000'" PCEPTR field in the UCT
		.1..		DTAB4PPH	"B'01000000'" PCEPTR field in the HCT
		..1.		DTAB4PPA	"B'00100000'" PCEPTR field in the ADDR
		...1		DTAB4PPT	"B'00010000'" PCEPTR field in the TOKEN
44	(2C)	BITSTRING	1	DTABPPTT	PCEPTR TOKEN level
45	(2D)	BITSTRING	1	DTABFLG5	Fifth flag
		1...		DTAB5CHU	"B'10000000'" CHAIN field in the UCT
		.1..		DTAB5CHH	"B'01000000'" CHAIN field in the HCT
		..1.		DTAB5CHA	"B'00100000'" CHAIN field is Address
		...1		DTAB5CHT	"B'00010000'" CHAIN field is Token
46	(2E)	BITSTRING	1	DTABCHTT	CHAIN TOKEN level
47	(2F)	BITSTRING	1	DTABFLG6	Sixth flag
		1...		DTAB6CTU	"B'10000000'" COUNT field in the UCT
		.1..		DTAB6CTH	"B'01000000'" COUNT field in the HCT
		..1.		DTAB6CTA	"B'00100000'" COUNT field is Address
		...1		DTAB6CTT	"B'00010000'" COUNT field is Token
48	(30)	BITSTRING	1	DTABCNTT	COUNT TOKEN level
49	(31)	BITSTRING	2		Reserved for future use
51	(33)	ADDRESS	1	DTABALIL	Length of ALIAS
52	(34)	BITSTRING	1	DTABID	DCTDEVTP FIELD
53	(35)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
54	(36)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
55	(37)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
56	(38)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
57	(39)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
58	(3A)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET

Table 125. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	ADDRESS	4	DTABPCEP(0)	Offset/address of managing PCE address if DTAB1MP is On
64	(40)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on
68	(44)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
72	(48)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
76	(4C)	ADDRESS	4	DTABCHN	Offset/address of DCT Chain field
80	(50)	ADDRESS	4	DTABCNT	Offset/address of DCT COUNT field
84	(54)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
86	(56)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
88	(58)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
92	(5C)	CHARACTER	16	DTABPPTK	PCEPTR token name
108	(6C)	CHARACTER	16	DTABCNTK	COUNT token name
124	(7C)	CHARACTER	16	DTABCHTK	CHAIN token name
124	(7C)	X'3'	0	DTABVERS	"3" DTAB version level
124	(7C)	X'8C'	0	DTABELEN	"*-DTAB" LENGTH OF DCT TABLE ENTRY DSECT

Table 126. Cross Reference for $DCTTAB

Name	Offset	Hex Tag
DTAB	0	
DTABALIL	33	
DTABALS	20	
DTABCHN	4C	
DTABCHTK	7C	40404040
DTABCHTT	2E	
DTABCNT	50	
DTABCNTK	6C	40404040
DTABCNTT	30	
DTABDESC	8	
DTABDESL	39	
DTABDEV	36	
DTABELEN	7C	8C
DTABFLG1	28	
DTABFLG2	29	
DTABFLG3	2A	
DTABFLG4	2B	
DTABFLG5	2D	
DTABFLG6	2F	
DTABHV	56	
DTABID	34	
DTABLEN	3C	
DTABLV	54	
DTABNAME	0	

Table 126. Cross Reference for $DCTTAB (continued)

Name	Offset	Hex Tag
DTABNAML	37	
DTABPCEP	40	
DTABPPTK	5C	40404040
DTABPPTT	2C	
DTABPTAB	40	
DTABPTYP	35	
DTABRTN	58	
DTABSCHN	3A	
DTABSUBL	38	
DTABVERS	7C	3
DTABWSDF	48	
DTABWSTB	44	
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB2BSM	29	10
DTAB2CDC	29	8
DTAB2DCB	29	20
DTAB2POL	29	40
DTAB2SUB	29	80
DTAB3JWS	2A	80
DTAB3SWS	2A	40
DTAB4PPA	2B	20
DTAB4PPH	2B	40
DTAB4PPT	2B	10
DTAB4PPU	2B	80
DTAB5CHA	2D	20
DTAB5CHH	2D	40
DTAB5CHT	2D	10
DTAB5CHU	2D	80
DTAB6CTA	2F	20
DTAB6CTH	2F	40
DTAB6CTT	2F	10
DTAB6CTU	2F	80

$DILWORK information

$DILWORK heading information

Common name: JES2 BERT Lock POST Processor

Macro ID: $DILWORK

DSECT name: PCE ($DILWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol DILPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $DILPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first BERT POST PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 BERT Lock POST Processor and by its support routines and exits. $DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DILWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEDILID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$DILWORK mapping

Table 127. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	DILDWA	Address of active DWA
4096	(1000)	X'EBC'	0	DILPCEWS	"*-PCEWORK" Length of $DILBERT PCE

$DLSWORK information

$DLSWORK heading information

Common name: JES2 Deadline Secheduling PCE work area

Macro ID: $DLSWORK

DSECT name: PCE ($DLSWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol DLWWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $DLSPCE field of the $HCT data area. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Deadline Scheduling processor and by its support routines.
$DLSWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DLSWORK are actually part of PCE DSECT, but only map PCEs with the value PCEDLSID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$DLSWORK mapping

Table 128. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	1	DLSFLAG1	Flags:
		1...		DLS1MSTR	"B'10000000'" This PCE is DLS master
		.1..		DLS1MEVT	"B'01000000'" MAS event to process
		..1.		DLS1CPAV	"B'00100000'" Cell pool available
		...1		DLS1PCEF	"B'00010000'" DLS PCE failed on this member
		.... 1...		DLS1CLN	"B'00001000'" Request to perform cleanup
		.... .1..		DLS1TMO	"B'00000100'" Time offset(s) changed
329	(149)	BITSTRING	3		Reserved
332	(14C)	SIGNED	4	DLSTMINT	Timer interval in ETOD units
336	(150)	ADDRESS	8	DLSHUNTC	Chain of HOLDUNTL events (ascending time order)
344	(158)	ADDRESS	8	DLSHUNTN	Chain of new HOLDUNTL events (LIFO)
352	(160)	ADDRESS	8	DLSHUNTI	Intermediate chain of HOLDUNTL events
360	(168)	ADDRESS	8	DLSSTBYE	Chain of DLS job entries for jobs with STARTBY
368	(170)	BITSTRING	16	DLSETOD	UTC time in ETOD format
384	(180)	SIGNED	4	DLSJCNT	Count of DLS job entries
388	(184)	SIGNED	4	DLSLASTV	DLSJCNT at last validation
392	(188)	BITSTRING	12	DLSEVTQE	Event Timer Queue Element
404	(194)	BITSTRING	12	DLSHBTQE	Heartbeat Timer Queue Element
416	(1A0)	BITSTRING	4	DLSMMASK	Known members mask
420	(1A4)	BITSTRING	4	DLSWMASK	Work mask
424	(1A8)	BITSTRING	224	DLSSQD	Embedded SQD
648	(288)	SIGNED	4	DLSSCSEQ	Scan sequence number
652	(28C)	SIGNED	4		Reserved
		Entry of DLSTMOFA array is time offset in ETOD format for member N (includes leap seconds). Array is indexed by member id.			
656	(290)	DBL WORD	8	DLSTMOFA(0)	Time offset array
920	(398)	ADDRESS	8	DLSPROCA(4)	Array of chains to process
952	(3B8)	SIGNED	4	DLSPJQE	Ptr to previous JQE
956	(3BC)	SIGNED	4	DLSCURRI	Current JQE index
960	(3C0)	SIGNED	4	DLSNEXTI	Next JQE index
964	(3C4)	SIGNED	4	DLSPREVI	Previous JQE index

Table 128. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Each entry with index N of JQE backtrack array is a pointer to JQE at position N in a queue. Entry with index 0 is not used			
968	(3C8)	ADDRESS	8	DLSJQEAR	JQE backtrack array
976	(3D0)	SIGNED	8	DLSJQEAL	Length of JQE backtrack array in IARV64 input format MACDATE -03/01/19-<6>
0	(0)	X'3D8'	0	M00M1195	"DLSIARV" ++ IARV64 NAME
984	(3D8)	DBL WORD	8	DLSIARV(0)	++ IARV64 PARM LIST
984	(3D8)	BITSTRING	1	DLSIARV_XVERSION	++ INPUT XVERSION
985	(3D9)	BITSTRING	1	DLSIARV_XREQUEST	++ XREQUEST
985	(3D9)	X'1'	0	DLSIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
985	(3D9)	X'2'	0	DLSIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
985	(3D9)	X'3'	0	DLSIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
985	(3D9)	X'4'	0	DLSIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
985	(3D9)	X'5'	0	DLSIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
985	(3D9)	X'6'	0	DLSIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
985	(3D9)	X'7'	0	DLSIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
985	(3D9)	X'8'	0	DLSIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
985	(3D9)	X'9'	0	DLSIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
985	(3D9)	X'A'	0	DLSIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
985	(3D9)	X'B'	0	DLSIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
985	(3D9)	X'C'	0	DLSIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
985	(3D9)	X'D'	0	DLSIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
985	(3D9)	X'E'	0	DLSIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
985	(3D9)	X'F'	0	DLSIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
985	(3D9)	X'10'	0	DLSIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
985	(3D9)	X'11'	0	DLSIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
985	(3D9)	X'12'	0	DLSIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
986	(3DA)	BITSTRING	1	DLSIARV_XFLAGS0	++ FIELD_LABEL
		1...		DLSIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		DLSIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		DLSIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
987	(3DB)	BITSTRING	1	DLSIARV_XKEY	++
988	(3DC)	BITSTRING	1	DLSIARV_XFLAGS1	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		DLSIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD

Table 128. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DLSIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		DLSIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		DLSIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		DLSIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		DLSIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		DLSIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
989	(3DD)	BITSTRING	1	DLSIARV_XFLAGS2	++ FIELD_LABEL
		1...		DLSIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		DLSIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		DLSIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		DLSIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		DLSIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		DLSIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		DLSIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		DLSIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
990	(3DE)	BITSTRING	1	DLSIARV_XFLAGS3	++ FIELD_LABEL
		1...		DLSIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		DLSIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DLSIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		DLSIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		DLSIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DLSIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DLSIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		DLSIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
991	(3DF)	BITSTRING	1	DLSIARV_XFLAGS4	++ FIELD_LABEL
		1...		DLSIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DLSIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD

Table 128. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DLSIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DLSIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DLSIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DLSIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DLSIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		DLSIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
992	(3E0)	DBL WORD	8	DLSIARV_XSEGMENTS	++
1000	(3E8)	CHARACTER	16	DLSIARV_XTTOKEN	++
1016	(3F8)	DBL WORD	8	DLSIARV_XUSERTKN	++
1024	(400)	ADDRESS	8	DLSIARV_XORIGIN	++
1032	(408)	ADDRESS	8	DLSIARV_XRANGLIST	++
1040	(410)	ADDRESS	8	DLSIARV_XMEMOBJSTART	++
1048	(418)	SIGNED	4	DLSIARV_XGUARDSIZE	++
1052	(41C)	SIGNED	4	DLSIARV_XCONVERTSIZE	++
1056	(420)	SIGNED	4	DLSIARV_XALETVALUE	++
1060	(424)	SIGNED	4	DLSIARV_XNUMRANGE	++
1064	(428)	ADDRESS	4	DLSIARV_XV64LISTPTR	++
1068	(42C)	SIGNED	4	DLSIARV_XV64LISTLENGTH	++
1072	(430)	DBL WORD	8	DLSIARV_XCONVERTSTART	++
1080	(438)	DBL WORD	8	DLSIARV_XCONVERTSIZE64	++
1088	(440)	DBL WORD	8	DLSIARV_XGUARDSIZE64	++
1096	(448)	CHARACTER	8	DLSIARV_XUSERTOKEN	++
1104	(450)	BITSTRING	1	DLSIARV_XDUMPPRIORITY	++
1105	(451)	BITSTRING	1	DLSIARV_XFLAGS5	++ FIELD_LABEL
		1...		DLSIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DLSIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DLSIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DLSIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DLSIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		DLSIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DLSIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		DLSIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1106	(452)	BITSTRING	1	DLSIARV_XFLAGS6	++ FIELD_LABEL
		1...		DLSIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DLSIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DLSIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD

Table 128. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DLSIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DLSIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DLSIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DLSIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		DLSIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1107	(453)	BITSTRING	1	DLSIARV_XFLAGS7	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		DLSIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DLSIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		DLSIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DLSIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DLSIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		DLSIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		DLSIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1108	(454)	BITSTRING	1	DLSIARV_XDUMP	++ XDUMP
1108	(454)	X'0'	0	DLSIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1108	(454)	X'1'	0	DLSIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1108	(454)	X'2'	0	DLSIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1108	(454)	X'3'	0	DLSIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1108	(454)	X'20'	0	DLSIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1108	(454)	X'21'	0	DLSIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1108	(454)	X'FF'	0	DLSIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1109	(455)	BITSTRING	1	DLSIARV_XFLAGS8	++ FIELD_LABEL
		1...		DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		DLSIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		DLSIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		DLSIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		DLSIARV_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		DLSIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		DLSIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD

Table 128. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		DLSIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
1110	(456)	BITSTRING	2	DLSIARV_XOWNERASID	++
1112	(458)	BITSTRING	1	DLSIARV_XOPTIONVALUE	++
1113	(459)	CHARACTER	8	DLSIARV_XRSV0001	++ RESERVED
1121	(461)	CHARACTER	8	DLSIARV_XOWNERJOBNAME	++
1129	(469)	CHARACTER	7	DLSIARV_XRSV0004	++ RESERVED
1136	(470)	ADDRESS	8	DLSIARV_XDMAPAGETABLE	++
1144	(478)	DBL WORD	8	DLSIARV_XUNITS	++
1152	(480)	BITSTRING	1	DLSIARV_XFLAGS9	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		DLSIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DLSIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DLSIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		DLSIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		DLSIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1153	(481)	BITSTRING	1	DLSIARV_XFLAGS10	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		DLSIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		DLSIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
1154	(482)	CHARACTER	6	DLSIARV_XRSV0005	++ RESERVED
1154	(482)	X'488'	0	DLSIARV_PL_END	"*" ++ END OF BASE PLIST
1016	(3F8)	DBL WORD	8	DLSIARV_XOUTMOTKN	++
1016	(3F8)	DBL WORD	8	DLSIARV_XMOTKN	++
1040	(410)	ADDRESS	8	DLSIARV_XINORIGIN	++
1160	(488)	X'B0'	0	DLSIARVL	"*-DLSIARV" ++ LENGTH OF PLIST
				IARV64-6	
0	(0)	X'B0'	0	DLSIARS	"*-DLSIARV" Size of above
1160	(488)	SIGNED	4	DLSERCNT	Error count
1164	(48C)	SIGNED	4	DLSEXTID	$MSTNTFY exit id
1168	(490)	BITSTRING	1	DLSXREQ	Space for DLS XREQ request
		Tree descriptor describes the AVL tree used to access DLS job entries for jobs with STARTBY. Tree descriptor is mapped by XTDTREE DSECT in macro $XTREE.			
1320	(528)	BITSTRING	1	DLSSTREE	Tree descriptor
		Tree node descriptor describes the node of the AVL tree in DLSSBTR. Node descriptor is mapped by XTNNODE DSECT in macro $XTREE.			
4240	(1090)	BITSTRING	1	DLSSNODD	Node descriptor
4240	(1090)	X'F98'	0	DLSWKSIZ	"*-PCEWORK" Length of DLS PCE

Table 129. Cross Reference for $DLSWORK

Name	Offset	Hex Tag
DLSCURRI	3BC	
DLSERCNT	488	
DLSETOD	170	
DLSEVTQE	188	
DLSEXTID	48C	
DLSFLAG1	148	
DLSHBTQE	194	
DLSHUNTC	150	
DLSHUNTI	160	
DLSHUNTN	158	
DLSIARS	0	B0
DLSIARV	3D8	
DLSIARV_KEYUSED_CONVERTSIZE64	3DC	4
DLSIARV_KEYUSED_CONVERTSTART	3DC	10
DLSIARV_KEYUSED_DUMP	453	80
DLSIARV_KEYUSED_GUARDSIZE64	3DC	8
DLSIARV_KEYUSED_INORIGIN	481	80
DLSIARV_KEYUSED_KEY	3DC	80
DLSIARV_KEYUSED_MOTKN	3DC	2
DLSIARV_KEYUSED_OPTIONVALUE	453	40
DLSIARV_KEYUSED_OWNERJOBNAME	3DC	1
DLSIARV_KEYUSED_SVCDUMPRGN	453	20
DLSIARV_KEYUSED_TTOKEN	3DC	20
DLSIARV_KEYUSED_UNITS	480	80
DLSIARV_KEYUSED_USERTKN	3DC	40
DLSIARV_PL_END	482	488
DLSIARV_XAFFINITY_SYSTEM	3DE	40
DLSIARV_XALETVALUE	420	
DLSIARV_XAMOUNTSIZE_1MEG	452	2
DLSIARV_XAMOUNTSIZE_4K	452	4
DLSIARV_XATTRIBUTE_DEFS	453	10
DLSIARV_XATTRIBUTE_NOTOWNERGONE	453	4
DLSIARV_XATTRIBUTE_OWNERGONE	453	8
DLSIARV_XCHANGEACCESS_GLOBAL	3DD	8
DLSIARV_XCLEAR_NO	3DF	40
DLSIARV_XCOND_YES	3DD	80
DLSIARV_XCONTROL_AUTH	3DD	20
DLSIARV_XCONVERT_FROMGUARD	3DF	2
DLSIARV_XCONVERT_TOGUARD	3DF	4
DLSIARV_XCONVERTSIZE	41C	
DLSIARV_XCONVERTSIZE64	438	
DLSIARV_XCONVERTSTART	430	
DLSIARV_XDETACHFIXED_YES	452	20
DLSIARV_XDISCARDPAGES_YES	0	4
DLSIARV_XDMAPAGETABLE	470	
DLSIARV_XDOAUTHCHECKS_YES	452	10

Table 129. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XDUMP	454	
DLSIARV_XDUMP_ALL	454	FF
DLSIARV_XDUMP_LIKECSA	454	3
DLSIARV_XDUMP_LIKELSQA	454	21
DLSIARV_XDUMP_LIKERGN	454	20
DLSIARV_XDUMP_LIKESQA	454	2
DLSIARV_XDUMP_NO	454	1
DLSIARV_XDUMP_NONE	454	0
DLSIARV_XDUMPPRIORITY	450	
DLSIARV_XDUMPPROTOCOL_YES	451	80
DLSIARV_XEXECUTABLE_NO	0	1
DLSIARV_XEXECUTABLE_YES	0	2
DLSIARV_XFLAGS0	3DA	
DLSIARV_XFLAGS1	3DC	
DLSIARV_XFLAGS10	481	
DLSIARV_XFLAGS2	3DD	
DLSIARV_XFLAGS3	3DE	
DLSIARV_XFLAGS4	3DF	
DLSIARV_XFLAGS5	451	
DLSIARV_XFLAGS6	452	
DLSIARV_XFLAGS7	453	
DLSIARV_XFLAGS8	455	
DLSIARV_XFLAGS9	480	
DLSIARV_XFPROT_NO	3DD	40
DLSIARV_XGUARDLOC_HIGH	3DD	10
DLSIARV_XGUARDSIZE	418	
DLSIARV_XGUARDSIZE64	440	
DLSIARV_XINORIGIN	410	
DLSIARV_XKEEPREAL_NO	3DF	1
DLSIARV_XKEY	3DB	
DLSIARV_XLOCALSYSAREA_YES	452	8
DLSIARV_XLONG_NO	3DF	80
DLSIARV_XMATCH_MOTOKEN	3DA	20
DLSIARV_XMATCH_USERTOKEN	3DE	80
DLSIARV_XMEMLIMIT_COND	452	1
DLSIARV_XMEMLIMIT_NO	452	40
DLSIARV_XMEMOBJSTART	410	
DLSIARV_XMOTKN	3F8	
DLSIARV_XMOTKNCREATOR_SYSTEM	3DA	40
DLSIARV_XMOTKNSOURCE_SYSTEM	3DA	80
DLSIARV_XNUMRANGE	424	
DLSIARV_XOPTIONVALUE	458	
DLSIARV_XORDER_DUMPPRIORITY	451	40
DLSIARV_XORIGIN	400	
DLSIARV_XOUTMOTKN	3F8	
DLSIARV_XOWNER_NO	3DE	10

Table 129. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XOWNERASID	456	
DLSIARV_XOWNERCOM_BYASID	451	1
DLSIARV_XOWNERCOM_HOME	451	8
DLSIARV_XOWNERCOM_PRIMARY	451	4
DLSIARV_XOWNERCOM_SYSTEM	451	2
DLSIARV_XOWNERJOBNAME	461	
DLSIARV_XPAGEFRAMESIZE_ALL	3DD	1
DLSIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DLSIARV_XPAGEFRAMESIZE_MAX	3DD	2
DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	455	80
DLSIARV_XPAGEFRAMESIZE_1M	480	10
DLSIARV_XPAGEFRAMESIZE_1MEG	3DD	4
DLSIARV_XPAGEFRAMESIZE_2G	480	8
DLSIARV_XRANGLIST	408	
DLSIARV_XREQUEST	3D9	
DLSIARV_XREQUEST_CHANGEACCESS	3D9	B
DLSIARV_XREQUEST_CHANGEGUARD	3D9	D
DLSIARV_XREQUEST_COUNTPAGES	3D9	10
DLSIARV_XREQUEST_DETACH	3D9	3
DLSIARV_XREQUEST_DISCARDDATA	3D9	7
DLSIARV_XREQUEST_GETCOMMON	3D9	F
DLSIARV_XREQUEST_GETSHARED	3D9	2
DLSIARV_XREQUEST_GETSTOR	3D9	1
DLSIARV_XREQUEST_LIST	3D9	E
DLSIARV_XREQUEST_PAGEFIX	3D9	4
DLSIARV_XREQUEST_PAGEIN	3D9	8
DLSIARV_XREQUEST_PAGEOUT	3D9	6
DLSIARV_XREQUEST_PAGEUNFIX	3D9	5
DLSIARV_XREQUEST_PCIEFIX	3D9	11
DLSIARV_XREQUEST_PCIEUNFIX	3D9	12
DLSIARV_XREQUEST_PROTECT	3D9	9
DLSIARV_XREQUEST_SHAREMEMOBJ	3D9	A
DLSIARV_XREQUEST_UNPROTECT	3D9	C
DLSIARV_XRSV0001	459	
DLSIARV_XRSV0004	469	
DLSIARV_XRSV0005	482	
DLSIARV_XSADMP_NO	0	10
DLSIARV_XSADMP_YES	0	20
DLSIARV_XSEGMENTS	3E0	
DLSIARV_XSENSITIVE_NO	481	20
DLSIARV_XSENSITIVE_YES	481	40
DLSIARV_XSVCDUMPRGN_ALL	3DE	1
DLSIARV_XSVCDUMPRGN_NO	3DE	4
DLSIARV_XTRACKINFO_YES	453	2
DLSIARV_XTTOKEN	3E8	
DLSIARV_XTYPE_DREF	451	10

Table 129. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XTYPE_FIXED	480	4
DLSIARV_XTYPE_PAGEABLE	451	20
DLSIARV_XUNITS	478	
DLSIARV_XUNITSIZE_1M	480	40
DLSIARV_XUNITSIZE_2G	480	20
DLSIARV_XUNLOCKED_YES	453	1
DLSIARV_XUSERTKN	3F8	
DLSIARV_XUSERTOKEN	448	
DLSIARV_XUSE2GTO32G_YES	3DE	20
DLSIARV_XUSE2GTO64G_YES	0	8
DLSIARV_XVERSION	3D8	
DLSIARV_XVIEW_HIDDEN	3DF	8
DLSIARV_XVIEW_READONLY	3DF	20
DLSIARV_XVIEW_SHAREDWRITE	3DF	10
DLSIARV_XV64COMMON_NO	452	80
DLSIARV_XV64LISTLENGTH	42C	
DLSIARV_XV64LISTPTR	428	
DLSIARV_XV64SELECT_NO	3DE	8
DLSIARV_XV64SHARED_NO	3DE	2
DLSIARVL	488	B0
DLSJCNT	180	
DLSJQEAL	3D0	
DLSJQEAR	3C8	
DLSLASTV	184	
DLSMMASK	1A0	
DLSNEXTI	3C0	
DLSPJQE	3B8	
DLSPREVI	3C4	
DLSPROCA	398	
DLSSCSEQ	288	
DLSSNODD	1090	
DLSSQD	1A8	
DLSSTBYE	168	
DLSSTREE	528	
DLSTMINT	14C	
DLSTMOFA	290	
DLSWKSIZ	1090	F98
DLSWMASK	1A4	
DLSXREQ	490	
DLS1CLN	148	8
DLS1CPAV	148	20
DLS1MEVT	148	40
DLS1MSTR	148	80
DLS1PCEF	148	10
DLS1TMO	148	4
M00M1195	0	3D8

Table 129. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex	Tag
PCE	0		

$DSB information

$DSB heading information

Common name: Data Space Control Block

Macro ID: $DSB

DSECT name: DSB

Owning component: JES2 (SC1BH)

Eye-catcher ID: $DSB
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4

Storage attributes: Subpool: 231 or 229
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in common storage (if SCOPE=LOCAL or SCOPE=ALL) and private storage (if SCOPE=LOCAL).

Size: See DSBLEN (plus an 8 byte prefix)

Created by: HASCDSS during data space create

Pointed to by: CCTDSB field of the $HCCT data area
HXBDSB field of the $HASXB data area
DSBNEXT field of the $DSB data area
SCIDDSB field of the $SCID data area for CKPT versions

Serialization: None required

Function: This DSECT maps a work area used in the maintenance of JES2 dataspaces.

$DSB mapping

Table 130. Structure DSB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSB	DATASPACE BLOCK
0	(0)	BITSTRING	1	DSBVERS	CONTROL BLOCK VERSION
0	(0)	X'2'	0	DSBVERSN	"2" Current control block ver
1	(1)	BITSTRING	1	DSBFLAG1	Latest $DSPSERV request type (see DSWAIFL1 for bit values). Not set for RELEASE requests
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	DSBNEXT	Pointer to the next DSB
8	(8)	SIGNED	4	DSBRC	Return code from latest service routine ($DSPSERV or $ALESERV)
12	(C)	SIGNED	4	DSBALET	ALET FOR JES2 TO USE WHEN ACCESSING THE DATA SPACE
16	(10)	BITSTRING	8	DSBSTKN	DATASPACE TOKEN
24	(18)	ADDRESS	4	DSBOASCB	Owning ASCB address
28	(1C)	BITSTRING	8	DSBOSTKN	Owning STOKEN value
36	(24)	ADDRESS	4	DSBOTCB	Owning TCB address
40	(28)	BITSTRING	16	DSBOTTKN	Owning TCB TTOKEN
56	(38)	ADDRESS	4	DSBORG	DATASPACE ORIGIN
60	(3C)	SIGNED	4	DSBBLKSM	MAX data space size
64	(40)	SIGNED	4	DSBBLKSC	Current data space size

Table 130. Structure DSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	DSBBLKSI	Initial data space size
72	(48)	CHARACTER	8	DSBPNAME	Name passed on $DSPSERV
80	(50)	CHARACTER	8	DSBNAME(0)	Constructed data space name
80	(50)	CHARACTER	4	DSBNAME1	USUALLY SUBSYSTEM NAME
84	(54)	CHARACTER	4	DSBNAME2	First 4 bytes of DSBPNAME
88	(58)	CHARACTER	8	DSBOUTN	DATASPACE NAME USED
96	(60)	BITSTRING	1	DSBKEY	DATASPACE KEY
97	(61)	BITSTRING	1	DSBFLAG2	Data space flags
		1...		DSB2FPRO	"B'10000000'" DS is fetch protected
		..1.		DSB2OWNM	"B'00100000'" OWNER=MASTER specified
		...1		DSB2OWNC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSB2OWNA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSB2SCLO	"B'00000100'" SCOPE=LOCAL data space
		.... ..1.		DSB2SCAL	"B'00000010'" SCOPE=ALL data space
		1		DSB2SCCO	"B'00000001'" SCOPE=COMMON data space
98	(62)	BITSTRING	1	DSBFLAG3	Data space processing flags
		1...		DSB3IDCK	"B'10000000'" Init deck check option
99	(63)	BITSTRING	1		RESERVED FOR FUTURE USE
100	(64)	ADDRESS	4	DSBLIST	Pointer to DSPSERV work area (used for CREATE and DELETE only)
104	(68)	SIGNED	4	DSBVRBAS	Alt base for VER/REP facil
108	(6C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
120	(78)	DBL WORD	8	(0)	Ensure doubleword alignment
120	(78)	X'78'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

Table 131. Cross Reference for $DSB

Name	Offset	Hex Tag
DSB	0	
DSBALET	C	
DSBBLKSC	40	
DSBBLKSI	44	
DSBBLKSM	3C	
DSBFLAG1	1	
DSBFLAG2	61	
DSBFLAG3	62	
DSBKEY	60	
DSBLEN	78	78
DSBLIST	64	
DSBNAME	50	
DSBNAME1	50	
DSBNAME2	54	
DSBNEXT	4	
DSBOASCB	18	
DSBORG	38	
DSBOSTKN	1C	
DSBOTCB	24	

Table 131. Cross Reference for $DSB (continued)

Name	Offset	Hex Tag
DSBOTTKN	28	
DSBOUTN	58	
DSBPNAME	48	
DSBRC	8	
DSBSTKN	10	
DSBVERS	0	
DSBVERSN	0	2
DSBVRBAS	68	
DSB2FPRO	61	80
DSB2OWNA	61	8
DSB2OWNC	61	10
DSB2OWNM	61	20
DSB2SCAL	61	2
DSB2SCCO	61	1
DSB2SCLO	61	4
DSB3IDCK	62	80

$DSCT information

$DSCT programming interface information

$DSCT is a programming interface.

$DSCT heading information

Common name: Data Set Control Table

Macro ID: $DSCT

DSECT name: DSCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DSCT'
Offset: DSID-DSCT
Length: 4

Storage attributes: Subpool: Same as $IOT
Key: Same as $IOT
Residency: The DSCT resides within the $IOT data area.

Size: See DSCTLEN

Created by: $IOTBLD routine, filled in by the $DSCTBLD routine at allocation time

Pointed to by: IOTDSCT field of the $IOT data area contains the offset within the IOT of the DSCT.

Serialization: Same as $IOT

Function: The DSCT is a control block which resides within the IOT control block. The DSCT is initialized only for data sets created by APPC Transaction Programs. The DSCT contains data set level information used to override job level information. The DSCT is located at the end of each spin IOT. Flag IOT2DSCT indicates that the DSCT exists and contains valid information.

$DSCT mapping

Table 132. Structure DSCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSCT	HASP Data Set Control Table
0	(0)	DBL WORD	8	(0)	Assumed double word start
0	(0)	CHARACTER	4	DSID	DSCT identifier
4	(4)	ADDRESS	1	DSVERS	DSCT version number
4	(4)	X'1'	0	DSVERN	"1" DSCT version
5	(5)	BITSTRING	1	DSFLAG1	DSCT flag byte 1
		1...		DSUSUNDF	"B'10000000'" Userid is undefined
6	(6)	SIGNED	2		Reserved for future use
8	(8)	CHARACTER	8	DSJBN	Job name
16	(10)	CHARACTER	8	DSWKID	Work unit identifier
24	(18)	DBL WORD	8	DSESTK	Entry start clock time
32	(20)	DBL WORD	8	DSXSTK	Execution start clock time
40	(28)	SIGNED	4	DSSTRT	Entry time in 1/100's sec
44	(2C)	SIGNED	4	DSSTRD	Entry date 00yydddf
48	(30)	CHARACTER	8	DSUID	User identification field
56	(38)	CHARACTER	8	DSTPUID	Transaction Program Userid
64	(40)	CHARACTER	4	DSACT	Account number
68	(44)	SIGNED	4		Reserved for future use
72	(48)	SIGNED	4		Reserved for future use
76	(4C)	SIGNED	4		Reserved for future use
80	(50)	SIGNED	4		Reserved for future use
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4		Reserved for future use
92	(5C)	SIGNED	4	DSUSERF(5)	Reserved fields for user
92	(5C)	X'70'	0	DSCTLEN	"*-DSCT" Length of DSCT

Table 133. Cross Reference for $DSCT

Name	Offset	Hex Tag
DSACT	40	
DSCT	0	
DSCTLEN	5C	70
DSESTK	18	
DSFLAG1	5	
DSID	0	C4E2C3E3
DSJBN	8	
DSSTRD	2C	
DSSTRT	28	
DSTPUID	38	
DSUID	30	
DSUSERF	5C	
DSUSUNDF	5	80
DSVERN	4	1
DSVERS	4	
DSWKID	10	

Table 133. Cross Reference for $DSCT (continued)

Name	Offset	Hex	Tag
DSXSTK	20		

$DSSCB information

$DSSCB heading information

Common name: Data Set Services Control Block

Macro ID: $DSSCB

DSECT name: DSSCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: DSS
Offset: DSSID-DSSCB
Length: L'DSSID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.

Size: See DSSGLEN+DSSVLEN

Created by: RDSMSG routine in HASPRDR, and
OPJLOG routine in HASPHOPE

Pointed to by: OUTDSSCB field of the $OUTWORK data area

Serialization: See macros $DSOPEN, $DSPUT, and $DSCLOSE

Function: The $DSSCB is a work area used to allow data set services. Three sections are identified in the $DSSCB dsect.
The three sections are: 1) a control section, 2) an internal work area, and 3) a caller's work area.
The Control Section:
Fields in the control section must be set prior to calling $DSOPEN. Failure to set the fields in this section will result in a failure in $DSOPEN.
Internal Work Section:
The internal work area will be set to zero by $DSOPEN. Subsequent data set services will use this internal work area to store information such as buffer pointers and counters.
Caller's Work Area:
The caller section will contain all the fields that the caller of the data set service routines will need to set to write the next record.

$DSSCB mapping

Table 134. Structure DSSCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSSCB	HASP DATA SET SERVICE DSECT
0	(0)	CHARACTER	4	DSSID	DATA SET SERVICE IDENTIFIER
4	(4)	ADDRESS	4	DSSAIOT	POINTER TO ALLOCATION IOT
8	(8)	BITSTRING	8	DSSKEY(0)	RECORD VERIFICATION KEY
8	(8)	BITSTRING	4	DSSJKEY	4-BYTE UNIQUE JOB KEY
12	(C)	BITSTRING	4	DSSDSKEY	4-BYTE UNIQUE DATA SET NUMBER
12	(C)	X'10'	0	DSSGLEN	"*-DSSCB" LEN OF GENERAL SECT OF DSS
		INTERNAL WORK AREA - THESE FIELDS ARE SET TO ZERO ON ENTRY TO THE $DSOPEN ROUTINE			
16	(10)	ADDRESS	4	DSSABUF	STORAGE ADDR OF FIRST BUF

Table 134. Structure DSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	DSSONXT	ADDR OF NEXT RECORD IN BUF
24	(18)	ADDRESS	4	DSSNBUF	STORAGE ADDR OF NEXT BUFFER
28	(1C)	BITSTRING	4	DSSMTTRF	TRACK ADDR OF FIRST BUF IN NEW DS CHAIN CREATED BY $DSPUT
32	(20)	BITSTRING	4	DSSMTTRO	TRACK ADDRESS OF LAST BUFFER IN ORIGINAL DATA SET CHAIN
36	(24)	ADDRESS	4	DSSPIOT	IOT ADDR OF 'OPENED' PDDB
40	(28)	ADDRESS	4	DSSPDDB	ADDRESS OF 'OPENED' PDDB
44	(2C)	SIGNED	4	DSSRECCT	DATA SET RECORD COUNT
48	(30)	SIGNED	4	DSSPGCT	DATA SET PAGE COUNT
52	(34)	SIGNED	4	DSSBYTE	DATA SET BYTE COUNT
56	(38)	ADDRESS	4	DSSRECAD	ADDR OF USER SUPPLIED REC
60	(3C)	ADDRESS	4	DSSEWF	Callers's PCEIOEWF
64	(40)	BITSTRING	1	DSSFLAG1	DATA SET SERVICE FLAG BYTE
		CALLER WORK AREA - DATA IN THIS AREA IS SUPPLIED BY THE CALLER OF $DSPUT. IF CARRIAGE CONTROL INFORMATION IS NOT SUPPLIED THEN TRIPLE SPACING WILL BE SET AS THE DEFAULT CARRIAGE CONTROL. NONE OF THE FIELDS IN THE CALLER WORK AREA WILL BE ZEROED AFTER THE INITIAL ZEROING DONE BY $DSOPEN. IF THE LENGTH OR CARRIAGE CONTROL INFORMATION IS TO CHANGE THEN THE CALLER MUST UPDATE THESE FIELDS PRIOR TO THE CALL TO $DSPUT.				
65	(41)	BITSTRING	1	DSSCCTL	CARRIAGE CONTROL BYTE - IF NOT SET TRIPLE SPACING ASSUME
66	(42)	SIGNED	2	DSSLEN	LENGTH OF INPUT DATA RECORD
68	(44)	ADDRESS	4	DSSRECPT	PNTER TO DATA RECORD
68	(44)	X'38'	0	DSSVLEN	"*-DSSABUF" LENGTH OF VARIABLE SECTION
72	(48)	SIGNED	4	DSSREC(0)	START OF RECORD TEXT
		DSSFLAG1 FLAG SETTINGS FOR DSSFLAG1			
		1...		DSS1OPEN	"B'10000000'" DATA SET HAS BEEN $DSOPENED
		.1..		DSS1NCLS	"B'01000000'" $DSCLOSE DATA SET IN ERROR
		..1.		DSS1PUTS	"B'00100000'" A $DSPUT HAS BEEN COMPLETED
		...1		DSS1FRST	"B'00010000'" $DSCLOSE READ FIRST RECORD OF THE ORIGINAL DATA SET
		.... 1...		DSS1DSTR	"B'00001000'" $DSCLOSE HAS ISSUED DISTERR
		.... .1..		DSS1BTRC	"B'00000100'" Blank truncate data set

Table 135. Cross Reference for $DSSCB

Name	Offset	Hex Tag
DSSABUF	10	
DSSAIOT	4	
DSSBYTE	34	
DSSCB	0	
DSSCCTL	41	
DSSDSKEY	C	

Table 135. Cross Reference for $DSSCB (continued)

Name	Offset	Hex Tag
DSSEWF	3C	
DSSFLAG1	40	
DSSGLEN	C	10
DSSID	0	
DSSJKEY	8	
DSSKEY	8	
DSSLEN	42	
DSSMTTRF	1C	
DSSMTTRO	20	
DSSNBUF	18	
DSSONXT	14	
DSSPDDB	28	
DSSPGCT	30	
DSSPIOT	24	
DSSREC	48	
DSSRECAD	38	
DSSRECCT	2C	
DSSRECPT	44	
DSSVLEN	44	38
DSS1BTRC	48	4
DSS1DSTR	48	8
DSS1FRST	48	10
DSS1NCLS	48	40
DSS1OPEN	48	80
DSS1PUTS	48	20

$DSWA information

$DSWA programming interface information

$DSWA is a programming interface.

$DSWA heading information

Common name: Data Space Services Work Area

Macro ID: $DSWA

DSECT name: DSWA

Owning component: JES2 (SC1BH)

Eye-catcher ID: DSWA
Offset: DSWAID-DSWA
Length: L'DSWAID

Storage attributes: Subpool: 229
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage.

Size: See DSWASIZE

Created by: $DSPSERV macro

Pointed to by: None

Serialization: None required

Function: This DSECT maps the parameter list to the data space services routines in HASCDSS. It is created by the $DSPSERV macro and freed in HASCDSS.

$DSWA mapping

Table 136. Structure DSWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSWA	
0	(0)	CHARACTER	4	DSWAID	$DSWA IDENTIFIER
4	(4)	BITSTRING	1	DSWAVERS	$DSWA VERSION NUMBER
4	(4)	X'3'	0	DSWALEVL	"3" $DSWA CURRENT VERS LEVEL
	INPUT FLAG INDICATORS.				
5	(5)	BITSTRING	1	DSWAIFL1	$DSPSERV FUNCTION FLAG
		1...		DSWAI1CR	"B'10000000'" Create request
		.1..		DSWAI1EX	"B'01000000'" Extend request
		..1.		DSWAI1RL	"B'00100000'" Release request
		...1		DSWAI1DE	"B'00010000'" Delete request
6	(6)	BITSTRING	1	DSWAIFL2	$DSPSERV Parameter flag (flags must be the same as CPMFLAG3)
		1...		DSWAI2FY	"B'10000000'" FPROT=YES specified
		.1..		DSWAI2FN	"B'01000000'" FPROT=NO specified
		..1.		DSWAI2OM	"B'00100000'" OWNER=MASTER specified
		...1		DSWAI2OC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSWAI2OA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSWAI2SL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		DSWAI2SA	"B'00000010'" SCOPE=ALL specified
		1		DSWAI2SC	"B'00000001'" SCOPE=COMMON specified
7	(7)	BITSTRING	1	DSWAIFL3	$DSPSERV general flag
		1...		DSWAI3PD	"B'10000000'" DSWA passed on call
8	(8)	BITSTRING	3	DSWARSD1	Reserved for development
	Input/Output data fields (see $DSPSERV for an explanation of the fields).				
11	(B)	BITSTRING	1	DSWAKEY	KEY= KEYWORD
12	(C)	ADDRESS	4	DSWADSB	DSB= keyword
16	(10)	CHARACTER	8	DSWANAME	NAME= KEYWORD
24	(18)	CHARACTER	8	DSWACALL	NAME OF $DSPSERV CALLER
32	(20)	SIGNED	4	DSWABLCM	BLOCKS=(max,) keyword
36	(24)	SIGNED	4	DSWABLCI	BLOCKS=(,init) keyword
40	(28)	SIGNED	4	DSWASTRT	START= keyword
	DSPSERV ERROR/WARNING EQUATE VALUES.				
40	(28)	X'8'	0	DSWANOES	"8" NO ESTAE COULD BE ESTABLISHED
40	(28)	X'C'	0	DSWAEEST	"12" ESTAE ENTERED, NO DS CREATED
40	(28)	X'10'	0	DSWACERR	"16" CATASTROPHIC RECURSION ERROR
40	(28)	X'28'	0	DSWANCSA	"40" Unable to obtain ECSA storage for the DSB

Table 136. Structure DSWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'2C'	0	DSWANOST	"44" Unable to obtain working storage (in private)
40	(28)	X'30'	0	DSWAINVF	"48" ISSUED WITH INVALID FUNCTION
40	(28)	X'34'	0	DSWAIBLK	"52" CREATE FUNCTION, INVALID BLOCKS
40	(28)	X'38'	0	DSWASRBF	"56" Error in SRB processing
40	(28)	X'3C'	0	DSWATTKF	"60" MVS TCBTOKEN failure
40	(28)	X'40'	0	DSWADSPF	"64" MVS DSPSERV FAILURE
40	(28)	X'44'	0	DSWAALEF	"68" MVS ALESERV FAILURE
40	(28)	X'4C'	0	DSWAIVER	"76" INVALID $DSWA VERSION NUMBER
40	(28)	X'C8'	0	DSWANGEN	"200" DATA SPACE NAME GENERATED
END OF $DSWA DATA AREA.					
44	(2C)	BITSTRING	1	DSWAEND(0)	
44	(2C)	X'2C'	0	DSWASIZE	"DSWAEND-DSWA" SIZE OF $DSWA DATA AREA

Table 137. Cross Reference for $DSWA

Name	Offset	Hex Tag
DSWA	0	
DSWAALEF	28	44
DSWABLCI	24	
DSWABLCM	20	
DSWACALL	18	
DSWACERR	28	10
DSWADSB	C	
DSWADSPF	28	40
DSWAEEST	28	C
DSWAEND	2C	
DSWAIBLK	28	34
DSWAID	0	
DSWAIFL1	5	
DSWAIFL2	6	
DSWAIFL3	7	
DSWAINVF	28	30
DSWAIVER	28	4C
DSWAI1CR	5	80
DSWAI1DE	5	10
DSWAI1EX	5	40
DSWAI1RL	5	20
DSWAI2FN	6	40
DSWAI2FY	6	80
DSWAI2OA	6	8
DSWAI2OC	6	10
DSWAI2OM	6	20
DSWAI2SA	6	2
DSWAI2SC	6	1

Table 137. Cross Reference for $DSWA (continued)

Name	Offset	Hex Tag
DSWAI2SL	6	4
DSWAI3PD	7	80
DSWAKEY	B	
DSWALEVL	4	3
DSWANAME	10	
DSWANCSA	28	28
DSWANGEN	28	C8
DSWANOES	28	8
DSWANOST	28	2C
DSWARSD1	8	
DSWASIZE	2C	2C
DSWASRBF	28	38
DSWASTRT	28	
DSWATTKF	28	3C
DSWAVERS	4	

$DTE information

$DTE programming interface information

$DTE is a programming interface.

$DTE heading information

Common name: HASP Daughter Task Element

Macro ID: $DTE

DSECT name: DTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual storage below the 16M line, and real storage above or below the 16M line, in the private storage of the JES2 address space.

Size: The length of a DTE is the length of the base DTE (defined by the expression, DTEWORK-DTE) plus the length of a variable length work area beginning at symbol DTEWORK.
The length of the work area depends on the type of DTE. These work areas and their lengths are defined in separate mapping macros and are extensions of the DTE DSECT. See the definitions for DTESTID in this macro ($DTE) for the names of the work area mapping macros.
The total length of the DTE is stored in the field DTESIZE.

Created by: The $DTEDYN service. Most DTEs are created during JES2 initialization processing, others are created when needed.

Pointed to by: The TCBBDT field of the MVS TCB control block for the associated JES2 address space subtask. The DTENEXT and DTEPREV pointers in the DTEs' double-threaded chain anchored by the $DTEORG and $DTELAST fields in the $HCT control block. Each DTE type has associated with it a pointer in the HCT or UCT which points to the first DTE of that type in the DTENEXT chain.

Serialization: Compare-and-swap logic may be required for certain fields if they are used by both the JES2 main task and the subtask represented by the DTE.

Function: The DTE is the central means of communication between JES2 main task and its subtasks. All JES2 subtasks are attached by the $DTEDYN service. When a subtask is attached, a DTE is built for it and placed on the DTENEXT and DTEPREV chains (chain heads $DTEORG and $DTELAST respectively). The DTE remains on these chains until the subtask is detached via the $DTEDYN routine. The DTEs are grouped by type (id) on the DTENEXT/DTEPREV chains. DTEs are always pushed onto the chain at the beginning (head) of their subtask type group within the chain. The HASP subtask type chain heads are located in the HCT. An installation may define their own subtask types and place the chain head either in the UCT or HCT. The DTE may contain a work area extension for certain subtask types. This extension begins at the DTEWORK field and is mapped by a mapping macro of the type $DTExxxx.

$DTE mapping

Table 138. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	DAUGHTER TASK ELEMENT DSECT
0	(0)	CHARACTER	4	DTEID(0)	DTE CONTROL BLOCK IDENTIFIER
0	(0)	BITSTRING	1	(0)	$SAVE AREA (SEE PSV IN PCE)
176	(B0)	ADDRESS	4	DTELPSV	ADDR OF LAST/CURRENT SAVE AREA
180	(B4)	ADDRESS	1	DTELEVEL	DTE CONTROL BLOCK VERSION LEVEL
181	(B5)	BITSTRING	1	DTESTID	SUBTASK IDENTIFIER
182	(B6)	SIGNED	2	DTESIZE	SIZE OF DTE + WORK AREA EXT.
184	(B8)	BITSTRING	1	DTEFLAG1	DTE FLAG BYTE 1
		1...		DTE1ACTV	"B'10000000'" SUBTASK ACTIVE
		.1..		DTE1TERM	"B'01000000'" SUBTASK SHUTDOWN REQUESTED
		..1.		DTE1AUTO	"B'00100000'" AUTOMATICALLY STARTED BY IRMVS
		...1		DTE1STAE	"B'00010000'" SUBTASK DETACHED WITH STAE=YES
		.... 1...		DTE1SUB0	"B'00001000'" SUBTASK ATTACHED WITH SZERO=NO
		.... .1..		DTE1ECB	"B'00000100'" JES2 WAITING FOR SUBTASK POST
		.... ..1.		DTE1XECB	"B'00000010'" PCE $WAITING FOR SUBTASK POST
		1		DTE1PJ2	"B'00000001'" JES2 IS COMMING DOWN CLEAN ($HCCT WILL BE FREEMAINED)
185	(B9)	BITSTRING	1	DTEFLAG2	DTE FLAG BYTE 2
		1...		DTE2IERR	"B'10000000'" SUBTASK INITIALIZATION FAILED
		.1..		DTE2TRAC	"B'01000000'" TASK ELIGIBLE FOR TRACING

Table 138. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DTE2CRTM	"B'00100000'" Subtask being cancelled by maintask via CALLRTM
		...1		DTE2$CD	"B'00010000'" Subtask cancelled with dump
186	(BA)	BITSTRING	1	DTEFLAG3	DTE initialization opt flag
		1...		DTE3REQD	"B'10000000'" This subtask is essential, abnormal term will also terminate maintask ($Z03)
		.1..		DTE3RTYP	"B'01000000'" Terminate main task ($Z03) on abnormal term of last or only DTE of type
187	(BB)	BITSTRING	1	DTEERRCT	Subtask ABEND error count
188	(BC)	ADDRESS	4	DTENEXT	FORWARD CHAIN FIELD ($DTEORG)
192	(C0)	ADDRESS	4	DTEPREV	BACKWARD CHAIN FIELD ($DTELAST)
196	(C4)	ADDRESS	4	DTETCB	SUBTASK TCB ADDRESS
200	(C8)	BITSTRING	16	DTETTOKN	Subtask TCB token
216	(D8)	ADDRESS	4	DTEPCE	RELATED PCE ADDRESS OR ZERO, SET TO CURRENT PCE BY DTEDYN UNLESS INIT., MAY BE RESET
220	(DC)	ADDRESS	4	DTEHCT	ADDRESS OF HCT
		SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECBS CAN BE USED DURING NORMAL JES2 PROCESSING ALSO.			
224	(E0)	SIGNED	4	DTEIECB	SUBTASK INITIALIZATION ECB
224	(E0)	BITSTRING	24	DTEIXECB	SUBTASK INITIALIZATION XECB
		SUBTASK WORK ECB'S MUST BE KEPT TOGETHER			
248	(F8)	SIGNED	4	DTEWECB	SUBTASK WORK ECB
248	(F8)	BITSTRING	24	DTEWXECB	SUBTASK WORK XECB
		SUBTASK TERMINATION ECB'S MUST BE KEPT TOGETHER			
272	(110)	SIGNED	4	DTETECB	SUBTASK TERMINATION ECB
272	(110)	BITSTRING	24	DTETXECB	SUBTASK TERMINATION XECB
		SUBTASK TERMINATION ECB LIST, MUST BE KEPT TOGETHER			
296	(128)	ADDRESS	4	DTEECBL1	JES2 TERMINATION ECBLIST
300	(12C)	ADDRESS	4	DTEECBL2	AND STIMER EXIT ROUTINE ECB
304	(130)	SIGNED	4	DTEJECB	(ALL USED ONLY IN HASPTERM)
		END OF ECB AREAS THAT MUST BE KEPT TOGETHER			
308	(134)	CHARACTER	8	DTENAME	SUBTASK EBCDIC NAME
316	(13C)	ADDRESS	4	DTEVRXAD	SUBTASK RECOVERY VRA EXIT ADDR
320	(140)	ADDRESS	4	DTEESXAD	SUBTASK RCVY CLEAN UP EXIT ADDR
324	(144)	ADDRESS	4	DTERTXAD	SUBTASK RCVY RETRY EXIT ADDR
		SUBTASK ESTAE RECOVERY WORK AREA.			
328	(148)	BITSTRING	1	DTEABFLG	SUBTASK RECOVERY ESTAE FLAG
		1...		DTEABEND	"B'10000000'" SUBTASK ABEND IN PROGRESS

Table 138. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DTEABVRA	"B'01000000'" SUBTASK VRA EXIT ACTIVE
		..1.		DTEABESX	"B'00100000'" SUBTASK CLEAN UP EXIT ACTIVE
		...1		DTEABSTR	"B'00010000'" SUBTASK RETRY EXIT ACTIVE
		.... 1...		DTEABREC	"B'00001000'" SUBTASK RETRY RECURSION FLAG
		.... .1..		DTEABTRM	"B'00000100'" Subtask being terminated
329	(149)	BITSTRING	3		RESERVED FOR FUTURE USE
332	(14C)	BITSTRING	492	DTEERA	SUBTASK ERA
824	(338)	BITSTRING	576	DTETRCA	SUBTASK TRCA
1400	(578)	SIGNED	4	DTESDECB	SUBTASK ESTAE SDUMP ECB
	Subtask Work area				
1408	(580)	DBL WORD	8	(0)	
1408	(580)	CHARACTER	108	DTEAWRKA	SUBTASK ESTAE WORK AREA
1408	(580)	X'4A4'	0	DTEASAVL	"*-DTEABFLG" LENGTH OF RECOVERY WORK AREA
	GENERAL PARAMETER LIST AREA AND RESERVED USER FIELDS				
1516	(5EC)	ADDRESS	4	DTEJQE	Related JQE address
1520	(5F0)	SIGNED	2	DTEASID	Associated address space
1522	(5F2)	SIGNED	2		Reserved for future use
1524	(5F4)	SIGNED	4	DTEPARML(2)	8 BYTE PARAMETER LIST
1524	(5F4)	X'5F4'	0	DTEPARM	"DTEPARML,4,C'A'" parm list @ from attach or
1524	(5F4)	X'5F8'	0	DTEPARM2	"DTEPARML+4,4,C'A'" 2 work parm for subtsk use
1532	(5FC)	SIGNED	4	DTEUSER1	RESERVED FOR USER
1536	(600)	SIGNED	4	DTEUSER2	RESERVED FOR USER
1540	(604)	SIGNED	4	DTEUSER3	RESERVED FOR USER
1544	(608)	SIGNED	4	DTEUSER4	RESERVED FOR USER
1548	(60C)	SIGNED	4	DTEERRTM	Time of last error
1552	(610)	DBL WORD	8	DTEWORK(0)	VARIABLE LEN SUBTASK WORK AREA
1552	(610)	X'4'	0	DTEVERSN	"4" DTE Version level
1552	(610)	X'610'	0	DTELEN	"*-DTE" LENGTH OF DTE DSECT FOUNDATION
	DTESTID -- SUBTASK IDENTIFIER EQUATES (USER SUBTASK IDS SHOULD BEGIN AT 255 AND WORK DOWN TOWARDS THE JES2 SUBTASK IDS)				
1552	(610)	X'0'	0	DTEIDIMG	"0" HASPIMAG SUBTASK ID; work area mapped by $DTEIMAG
1552	(610)	X'1'	0	DTEIDALC	"1" HOSALLOC SUBTASK ID; work area mapped by $DTEALOC
1552	(610)	X'2'	0	DTEIDSPL	"2" HOSPOOL SUBTASK ID; work area mapped by $DTESPL
1552	(610)	X'3'	0	DTEIDSMF	"3" HASPACCT SUBTASK ID; work area mapped by $DTEACCT

Table 138. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1552	(610)	X'4'	0	DTEIDVTM	"4" HASPVTAM SUBTASK ID; work area mapped by $DTEVTAM
1552	(610)	X'5'	0	DTEIDWTO	"5" HASPWTO SUBTASK ID; work area mapped by $DTEWTO
1552	(610)	X'6'	0	DTEIDCNV	"6" HOSCNVT SUBTASK ID; work area mapped by $DTECNV
1552	(610)	X'7'	0	DTEIDOFF	"7" HASPOFF SUBTASK ID; work area mapped by $DTEOFF
1552	(610)	X'8'	0	DTEIDCVR	"8" HASPCKVR SUBTASK ID; work area mapped by $DTECKVR
1552	(610)	X'9'	0	DTEIDSUB	"9" HASPSUBS SUBTASK ID; work area mapped by $DTESUBS
1552	(610)	X'A'	0	DTEIDCCF	"10" HASPCKCF SUBTASK ID; work area mapped by $DTECKCF
1552	(610)	X'B'	0	DTEIDEOM	"11" HASPEOM SUBTASK ID; work area mapped by $DTEEOM
1552	(610)	X'C'	0	DTEIDMIG	"12" HASPSPOL migrator subtask ID; work area mapped by $DTEMIGR
1552	(610)	X'D'	0	DTEIDASS	"13" HASPSPOL migrator assist subtask ID; work area mapped by $DTEASST
1552	(610)	X'E'	0	DTEIDCDA	"14" HASPCKDA SUBTASK ID; work area mapped by $DTECKDA
1552	(610)	X'F'	0	DTEIDLIM	"15" HASPLIM SUBTASK ID; work area mapped by $DTELIM

Table 139. Cross Reference for $DTE

Name	Offset	Hex Tag
DTE	0	
DTEABEND	148	80
DTEABESX	148	20
DTEABFLG	148	
DTEABREC	148	8
DTEABSTR	148	10
DTEABTRM	148	4
DTEABVRA	148	40
DTEASAVL	580	4A4
DTEASID	5F0	
DTEAWRKA	580	
DTEECBL1	128	
DTEECBL2	12C	
DTEERA	14C	
DTEERRCT	BB	
DTEERRTM	60C	
DTEESXAD	140	
DTEFLAG1	B8	
DTEFLAG2	B9	
DTEFLAG3	BA	
DTEHCT	DC	
DTEID	0	
DTEIDALC	610	1

Table 139. Cross Reference for $DTE (continued)

Name	Offset	Hex Tag
DTEIDASS	610	D
DTEIDCCF	610	A
DTEIDCDA	610	E
DTEIDCNV	610	6
DTEIDCVR	610	8
DTEIDEOM	610	B
DTEIDIMG	610	0
DTEIDLIM	610	F
DTEIDMIG	610	C
DTEIDOFF	610	7
DTEIDSMF	610	3
DTEIDSPL	610	2
DTEIDSUB	610	9
DTEIDVTM	610	4
DTEIDWTO	610	5
DTEIECB	E0	
DTEIXECB	E0	
DTEJECB	130	
DTEJQE	5EC	
DTELEN	610	610
DTELEVEL	B4	
DTELPSV	B0	
DTENAME	134	
DTENEXT	BC	
DTEPARM	5F4	5F4
DTEPARML	5F4	
DTEPARM2	5F4	5F8
DTEPCE	D8	
DTEPREV	C0	
DTERTXAD	144	
DTESDECB	578	
DTESIZE	B6	
DTESTID	B5	
DTETCB	C4	
DTETECB	110	
DTETRCA	338	
DTETTOKN	C8	
DTETXECB	110	
DTEUSER1	5FC	
DTEUSER2	600	
DTEUSER3	604	
DTEUSER4	608	
DTEVERSN	610	4
DTEVRXAD	13C	
DTEWECB	F8	
DTEWORK	610	

Table 139. Cross Reference for $DTE (continued)

Name	Offset	Hex Tag
DTEWXECB	F8	
DTE1ACTV	B8	80
DTE1AUTO	B8	20
DTE1ECB	B8	4
DTE1PJ2	B8	1
DTE1STAE	B8	10
DTE1SUB0	B8	8
DTE1TERM	B8	40
DTE1XECB	B8	2
DTE2$CD	B9	10
DTE2CRTM	B9	20
DTE2IERR	B9	80
DTE2TRAC	B9	40
DTE3REQD	BA	80
DTE3RTYP	BA	40

$DTEACCT information

$DTEACCT programming interface information

$DTEACCT is a programming interface.

$DTEACCT heading information

Common name: HASPACCT subtask DTE work area extension

Macro ID: $DTEACCT

DSECT name: DTE ($DTEACCT is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DSMFLEN equate for the length of the HASPACCT DTE extension.

Created by: JES2 initialization (using $DTEDYN ATTACH service)

Pointed to by: The $DTESMF field of the $HCT data area.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: This area is used by the HASPACCT subtask.
Other tasks cannot use it.

Function: Describes the work area extension to the DTE for the HASPACCT subtask. The DTE is the general control block used by JES2 to communicate with its daughter tasks.
The JMR buffer work area is used to pass the JES2 JMR record to SMFEXIT IEFUJP and the SMFEWTM service.
The work area resides below the 16M line, while the JES2 SMF buffer may reside anywhere.

$DTEACCT mapping

Table 140. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPACCT DTE WORK AREA EXTENSION
1552	(610)	BITSTRING	1352	DSMFJMR	JMR BUFFER WORK AREA
2904	(B58)	SIGNED	4	DSMFWRK(5)	5 WORD WORKAREA FOR SMFEWTM
2924	(B6C)	BITSTRING	4		Reserved for future use
2924	(B6C)	X'560'	0	DSMFLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEALOC information

$DTEALOC heading information

Common name: HASP Allocation Subtask DTE work area DSECT

Macro ID: $DTEALOC

DSECT name: DTE ($DTEALOC is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DDALLEN equate for the length of an allocation subtask DTE extension.

Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTEALOC field of the $HCT data area points into $DTEORG/$DTELAST chain to the HASP allocation subtask DTE.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.

Function: The HASP Dynamic Allocation Subtask DTE work area, $DTEALOC, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
The Dynamic Allocation Subtask DTE handles dynamic allocation (DYNALLOC) requests from the JES2 main task. The $ALLOC service, running under the JES2 main task, fills in the DYNALLOC parameter list, then waits for the subtask to become available. When it does, the main task stores the address of the parameter list in the field DTEPARM. The subtask is then awakened and it does the DYNALLOC.

$DTEALOC mapping

Table 141. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HOSALLOC DTE WORK AREA EXT.
1552	(610)	X'0'	0	DDALLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEASST information

$DTEASST heading information

Common name: HASP Spool Migrator Assist Work Area

Macro ID: $DTEASST

DSECT name: DTE ($DTEASST is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and ASTLLEN for the length of a Migrator Assist Allocation DTE extension.

Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTEASST field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSASST DTE. See $DTE for other pointer fields that apply to all DTE types.

Serialization: This work area is used serially by the HOSASST subtask. No special serialization is necessary.

Function: The Spool Assist DTE work area DSECT, $DTEASST, defines a work area used by the JES2 Migrator Assist subtask (HOSASST).
The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDAST in the field DTESTID, indicating this DTE is a Migrator Assist spool DTE.

$DTEASST mapping

Table 142. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migration assistant Work area
1552	(610)	CHARACTER	1	ASTSTART(0)	Start of Assist mapping
1552	(610)	ADDRESS	4	ASTSTSPL	Address of ECB for subtask to post - informs SPOL PCE request is complete
		Migration request flag - only set by SPOL and INIT PCEs. The SPOL PCE waits for ACK of request as does the INIT PCE with one exception below -- ASTRCVMG.			
1556	(614)	BITSTRING	1	AST1REQU	SPOL PCE and INIT PCE request flags
		....		AST1NORE	"X'00'" No active request
		.... .1..		ASTCREA	"X'04'" Create migration table and MIGR$ASST mailbox
		.... 1...		ASTINIT	"X'08'" Given source DAS - init the corresponding migration table entry. Entry found via DASEXTNO. See ASTSRDAS below.
		.... 11..		ASTDLENT	"X'0C'" Given DAS -- delete migr table entry. Delete track level bitmap. See ASTSRDAS below.
		...1		ASTDLALL	"X'10'" Delete all migration table entries and associated track level bitmaps.

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .1..		ASTRCVMG	"X'14'" Assistant subtask has permission to receive and process incoming messages.
		The following information must be supplied by SPOL post for specific requests: AST1REQU = ASTCREA (Create migration table and MIGR$ASST mailbox. -- ASTCRECV - Create called under direction of migration assistant recovery. AST1REQU = ASTINENT (Init migration table entry) -- ASTALLOC - Indication if MAS member is allocated to SRC dataset. -- ASTRECOV - Init has been directed to perform migration assistant recovery. MIGR$ASST will be created but not cleared. If not ASTRECOV -- MIGR$ASST is cleared upon creation to clean up any stale messages. -- ASTVOLID - Volume ID -- ASTSRDAS - Source DAS -- ASTTRACS - Track bitmap must support this many tracks. -- ASTENQTK - ISGENQ token -- ASTUCBPT - UCB pointer for volume AST1REQU = ASTDLENT (Delete migr table entry) -- ASTSRDAS - source DAS Creation information			
1557	(615)	BITSTRING	1	ASTCRTIN	General creation info
		1...		ASCRRECV	"B'10000000'" Creation called under recovery - do not clear MIGR$ASST
		Initialization and general information			
1558	(616)	BITSTRING	1	ASTSRCST	General init info
		1...		ASTALLOC	"B'10000000'" Member has dataset allocted.
		.1..		ASTRCMSG	"B'01000000'" Assistant subtask has permission to receive incoming messages
1560	(618)	ADDRESS	4	ASTRECOB	Recovery object address
1564	(61C)	BITSTRING	32	ASTENQTK	ISGENQ token
1596	(63C)	CHARACTER	6	ASTVOLID	Volume ID
1604	(644)	SIGNED	4	(0)	Alignment
1604	(644)	ADDRESS	4	ASTUCBPT	UCB address
1608	(648)	ADDRESS	4	ASTSRDAS	Source DAS address
1612	(64C)	SIGNED	4	ASTTRACS	Number of tracks for which track level bitmap must support.
1616	(650)	SIGNED	4	ASTTGBYT	Number of TGM bytes in source at migration start
1620	(654)	BITSTRING	1	ASTSREXT	Source DAS extent number
		Following two fields only set when init with -- assistant recovery -- ASTRECOV above.			
1624	(658)	SIGNED	4	ASMTGSTT	CSA.DASTARTS value
1628	(65C)	SIGNED	4	ASMSBTAS	Relative TTTT where TLBM starts on target DS
		Error flag corresponding to SPOL PCE request.			
1632	(660)	BITSTRING	1	AS1ERFL1	Subtask error flag 1 - set by subtask for SPOL PCE information/action.
		1...		AS1ERABN	"B'10000000'" Sub-task ABENDED

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		AS1MAILE	"B'01000000'" MIGR$ASST mailbox could not be created.
		..1.		AS1TBERR	"B'00100000'" Migration table could not be created.
		...1		AS1BMERR	"B'00010000'" Given a migration - track level bitmap could not be created.
		.... 1...		ASATTACH	"B'00001000'" JESXCF group attach failed
		HOSPASST subtask waits on a ECBLIST. During a migration, this subtask exists on every member in MAS. There is one and only one spool assistant subtask per member. This subtask can handle multiple migrations. The ECBlist is as follows:			
1636	(664)	SIGNED	4	ASECBLST(0)	List of ECBs to wait on
1636	(664)	ADDRESS	4	ASWORKP	Address of work ECB for assistant subtask. Handles posts from SPOL PCE.
1640	(668)	ADDRESS	4	ASTMBOXP	Address of ECB for JESXCF mail box notification. This ECB receives requests from migration subtask(s). Mailbox name - migr$asst
1644	(66C)	SIGNED	4	ASTMBOX	Mail box ECB
1648	(670)	DBL WORD	8	ASTWRKA	Work area for migrator
		Migration assistant mailbox information -- One MIGR$ASST per MAS member.			
1656	(678)	ADDRESS	4	ASMXBUFA	Address of message received
1660	(67C)	SIGNED	4	ASMXBUFL	Message length
1664	(680)	ADDRESS	4	ASMSENDA	Address of send buffer
		START OF ASMMIGIO Copy of runtime I/O directives. ASMMIGIO must match DASMIGIO in CSA DAS. The following is used to atomically update DASMIGIO during migration phase transitions. WARNING!!! DASMIGIO and ASMMIGIO definitions MUST stay in sync.			
1668	(684)	SIGNED	4	ASMMIGIO(0)	Runtime I/O directives. Area size is denoted by by ASMMIGSZ. This is used to atomically update DASMIGIO during migration phase.
1668	(684)	BITSTRING	1	ASMFLAG9	Flag 9
		1...		ASM9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13LMIG permission request" to @Z13LMIG migrator mailbox RN$<VOLSER>. VOLSER is source DAS - DASVOLID.
		.1..		ASM9MAPD	"B'01000000'" Source DAS is mapped to target and DASMPVAL must used to calculate corresponding track in target.
1669	(685)	ADDRESS	1	ASMMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be e-done. Always captured.
1670	(686)	BITSTRING	2	ASMMIGR	Reserved

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1670	(686)	X'4'	0	ASMMIGSZ	"*-ASMMIGIO" Length of area which must be atomically updated.
		END OF ASMMIGIO Too make message processing easier - certain data is extracted from messages and put into work variables.			
1672	(688)	ADDRESS	4	ASMXREQA	Address of XREQ received
1676	(68C)	CHARACTER	16	ASMMKBOX	Mailbox name
1692	(69C)	CHARACTER	16	ASMMEMNM	JESXCF member name
1708	(6AC)	BITSTRING	8	ASMXTOKN	Current XCF message token
1716	(6B4)	CHARACTER	6	ASMVOLID	VOLSER extracted from MSG received
1722	(6BA)	BITSTRING	1	ASMEXTNO	DASEXTNO extracted from MSG received
1723	(6BB)	ADDRESS	1	ASMINFO	XREQINFO extracted from MSG
		End of work variables			
1724	(6BC)	BITSTRING	1	ASMAILST	Mailbox status
		1...		ASAS_CRT	"B'10000000'" MIGR$ASST has been created
1725	(6BD)	CHARACTER	16	ASMIGRAS	
		Migration assistant - spool migration table info: -- One per migration assistant.			
1744	(6D0)	ADDRESS	4	ASTTABLE	Address of spool migration table. 253 entries in table. Each table entry may represent a source migrating volume. From a DAS - addressable by DASEXTNO. See $ASSTTAB for table contents.
1748	(6D4)	SIGNED	4	(10)	Reserved for future use
		List form macros for JESXCF services			
1792	(700)	DBL WORD	8	(0)	Alignment
1792	(700)	BITSTRING	160	ASTIXLST	JESXCF list form macros
1952	(7A0)	DBL WORD	8	ASTIXEND(0)	End of list form area
		------- IXZXIXAC MF=(L,ASTXIXAC) Acknowledge message MACDATE -11/12/03-<1>			
0	(0)	X'700'	0	M00M1211	"ASTXIXAC" ++ IXZXIXAC NAME
1792	(700)	DBL WORD	8	ASTXIXAC(0)	++ IXZXIXAC PARM LIST
1792	(700)	BITSTRING	1	ASTXIXAC_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	BITSTRING	1	ASTXIXAC_XSTB	++ INPUT
		1...		ASTXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1800	(708)	BITSTRING	8	ASTXIXAC_XMSGTOKEN	++ XMSGTOKEN
1808	(710)	ADDRESS	4	ASTXIXAC_XDATA	++ XDATA
1812	(714)	SIGNED	4	ASTXIXAC_XDATALEN	++ XDATALEN
1816	(718)	SIGNED	4	ASTXIXAC_XUSERRC	++ XUSERRC
1820	(71C)	SIGNED	4	ASTXIXAC_XGROUPTOKEN	++ XGROUPTOKEN

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1824	(720)	SIGNED	4	ASTXIXAC_XSYSRC	++ XSYSRC
1828	(724)	SIGNED	4	ASTXIXAC_XSYSRSN	++ XSYSRSN
1832	(728)	BITSTRING	1	ASTXIXAC_XKEYS	++ FIELD_LABEL
		1...		ASTXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		ASTXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ASTXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ASTXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ASTXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
1833	(729)	BITSTRING	1	ASTXIXAC_XMSGATTR	++ INPUT
		1...		ASTXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1833	(729)	X'2A'	0	ASTXIXACL	"*-ASTXIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
1834	(72A)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMC MF=(L,ASTXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
1792	(700)	SIGNED	2	M00M1213(0)	IXZXIXMC-1
1792	(700)	DBL WORD	8	ASTXIXMC(0)	++ IXZXIXMC PARM LIST
1792	(700)	BITSTRING	1	ASTXIXMC_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	BITSTRING	1	ASTXIXMC_XSTB	++ INPUT
		1...		ASTXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1800	(708)	CHARACTER	16	ASTXIXMC_XMBOXNAME	++ XMBOXNAME
1816	(718)	SIGNED	4	ASTXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
1816	(718)	X'1C'	0	ASTXIXMCL	"*-ASTXIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
1820	(71C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXAT MF=(L,ASTXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'700'	0	M00M1214	"ASTXIXAT" ++ IXZXIXAT NAME
1792	(700)	DBL WORD	8	ASTXIXAT(0)	++ IXZXIXAT PARM LIST
1792	(700)	BITSTRING	1	ASTXIXAT_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXAT_XEYECATCH	++ CONSTANT
1799	(707)	CHARACTER	1	ASTXIXAT_XRSV0001	++ RESERVED
1800	(708)	CHARACTER	8	ASTXIXAT_XGROUP	++
1808	(710)	CHARACTER	16	ASTXIXAT_XMEMBER	++
1824	(720)	CHARACTER	8	ASTXIXAT_XRELEASE	++

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1832	(728)	SIGNED	4	ASTXIXAT_XMAINTLVL	++ CONSTANT
1836	(72C)	SIGNED	4	ASTXIXAT_XGROUPTOKEN	++
1840	(730)	BITSTRING	1	ASTXIXAT_XFLAG1	++ FIELD_LABEL
		1...		ASTXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		ASTXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		ASTXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		ASTXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		ASTXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		ASTXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		ASTXIXAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
1841	(731)	BITSTRING	1	ASTXIXAT_XFLAG2	++ FIELD_LABEL
		1...		ASTXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		ASTXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
1842	(732)	CHARACTER	2	ASTXIXAT_XRSV0002	++ RESERVED
1844	(734)	SIGNED	4	ASTXIXAT_XDIAG	++
1848	(738)	CHARACTER	8	ASTXIXAT_XLINKPARMS	++ FIELD_LABEL
1848	(738)	X'40'	0	ASTXIXATL	"*-ASTXIXAT" ++ LENGTH OF PLIST
				IXZXIXAT-6	
1856	(740)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,ASTXIXMB) Create mailbox MACDATE -93/05/10-<1>					
1792	(700)	SIGNED	2	M00M1215(0)	IXZXIXMB-1
1792	(700)	DBL WORD	8	ASTXIXMB(0)	++ IXZXIXMB PARM LIST
1792	(700)	BITSTRING	1	ASTXIXMB_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	CHARACTER	1	ASTXIXMB_XRSV0001	++ RESERVED XRSV0001
1800	(708)	CHARACTER	16	ASTXIXMB_XMBOXNAME	++ XMBOXNAME
1816	(718)	ADDRESS	4	ASTXIXMB_XPOSTXIT	++ XPOSTXIT
1820	(71C)	ADDRESS	4	ASTXIXMB_XPOSTDATA	++ XPOSTDATA
1824	(720)	SIGNED	4	ASTXIXMB_XPOSTALET	++ XPOSTALET
1828	(724)	SIGNED	4	ASTXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
1832	(728)	BITSTRING	1	ASTXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ASTXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ASTXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
1832	(728)	X'29'	0	ASTXIXMBL	"*-ASTXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
1834	(72A)	ADDRESS	2	(0)	Ensure area fits

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXMD MF=(L,ASTXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
1792	(700)	SIGNED	2	M00M1216(0)	IXZXIXMD-1
1792	(700)	DBL WORD	8	ASTXIXMD(0)	++ IXZXIXMD PARM LIST
1792	(700)	BITSTRING	1	ASTXIXMD_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	BITSTRING	1	ASTXIXMD_XSTB	++ INPUT
		1...		ASTXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1800	(708)	CHARACTER	16	ASTXIXMD_XMBOXNAME	++ XMBOXNAME
1816	(718)	SIGNED	4	ASTXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
1816	(718)	X'1C'	0	ASTXIXMDL	"*-ASTXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
1820	(71C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXDT MF=(L,ASTXIXDT) Detach group MACDATE -00/02/02-<1>					
0	(0)	X'700'	0	M00M1217	"ASTXIXDT" ++ IXZXIXDT NAME
1792	(700)	DBL WORD	8	ASTXIXDT(0)	++ IXZXIXDT PARM LIST
1792	(700)	BITSTRING	1	ASTXIXDT_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	CHARACTER	1	ASTXIXDT_XRSV0001	++ RESERVED XRSV0001
1800	(708)	ADDRESS	4	ASTXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
1804	(70C)	CHARACTER	8	ASTXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
1804	(70C)	X'14'	0	ASTXIXDTL	"*-ASTXIXDT" ++ LENGTH OF PLIST
IXZXIXDT-1					
1812	(714)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXSM MF=(L,ASTXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'700'	0	M00M1218	"ASTXIXSM" ++ IXZXIXSM NAME
1792	(700)	DBL WORD	8	ASTXIXSM(0)	++ IXZXIXSM PARM LIST
1792	(700)	BITSTRING	1	ASTXIXSM_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	BITSTRING	1	ASTXIXSM_XMSGATTR	++ INPUT
		1...		ASTXIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1800	(708)	CHARACTER	16	ASTXIXSM_XMBOXNAME	++ XMBOXNAME
1816	(718)	CHARACTER	16	ASTXIXSM_XMEMBER	++ XMEMBER
1832	(728)	ADDRESS	4	ASTXIXSM_XDATA	++ XDATA
1836	(72C)	SIGNED	4	ASTXIXSM_XDATALEN	++ XDATALEN

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1840	(730)	BITSTRING	8	ASTXIXSM_XREQTOKEN	++ XREQTOKEN
1848	(738)	CHARACTER	16	ASTXIXSM_XREQMBOX	++ XREQMBOX
1864	(748)	SIGNED	4	ASTXIXSM_XDATAALET	++ XDATAALET
1868	(74C)	SIGNED	4	ASTXIXSM_XRESPDALT	++ XRESPDALT
1872	(750)	SIGNED	4	ASTXIXSM_XECB	++ XECB
1876	(754)	SIGNED	4	ASTXIXSM_XEXIT	++ XEXIT
1880	(758)	BITSTRING	8	ASTXIXSM_XCONNECT	++ XCONNECT
1888	(760)	SIGNED	4	ASTXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
1892	(764)	SIGNED	4	ASTXIXSM_XUSERRC	++ XUSERRC
1896	(768)	SIGNED	4	ASTXIXSM_XRESPDATA	++ XRESPDATA
1900	(76C)	SIGNED	4	ASTXIXSM_XRESPDLEN	++ XRESPDLEN
1904	(770)	CHARACTER	4	ASTXIXSM_XRSV00001	++ RESERVED XRSV00001
1908	(774)	BITSTRING	8	ASTXIXSM_XMSGTOKEN	++ XMSGTOKEN
1916	(77C)	SIGNED	4	ASTXIXSM_XRIPSIZE	++ XRIPSIZE
1920	(780)	BITSTRING	1	ASTXIXSM_XREQTYPE	++ INPUT
		1...		ASTXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		ASTXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		ASTXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		ASTXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
1921	(781)	BITSTRING	1	ASTXIXSM_XSEGTYPE	++ INPUT
		1...		ASTXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		ASTXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		ASTXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		ASTXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		ASTXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
1922	(782)	BITSTRING	1	ASTXIXSM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		ASTXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		ASTXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		ASTXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		ASTXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		ASTXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		ASTXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		ASTXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
1923	(783)	BITSTRING	1	ASTXIXSM_XKEYS1	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		ASTXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		ASTXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		ASTXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
1923	(783)	X'84'	0	ASTXIXSML	"*-ASTXIXSM" ++ LENGTH OF PLIST
				IXZXIXSM-2	
1924	(784)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,ASTXIXRM) Receive message MACDATE -93/05/10-<1>					
1792	(700)	SIGNED	2	M00M1219(0)	IXZXIXRM-1
1792	(700)	DBL WORD	8	ASTXIXRM(0)	++ IXZXIXRM PARM LIST
1792	(700)	BITSTRING	1	ASTXIXRM_XVERSION	++ INPUT XVERSION
1793	(701)	CHARACTER	6	ASTXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
1799	(707)	CHARACTER	1	ASTXIXRM_XRSV0001	++ RESERVED XRSV0001
1800	(708)	CHARACTER	16	ASTXIXRM_XMBOXNAME	++ XMBOXNAME
1816	(718)	ADDRESS	4	ASTXIXRM_XDATA	++ XDATA
1820	(71C)	SIGNED	4	ASTXIXRM_XDATALEN	++ XDATALEN
1824	(720)	BITSTRING	8	ASTXIXRM_XMSGTOKEN	++ XMSGTOKEN
1832	(728)	SIGNED	4	ASTXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
1836	(72C)	BITSTRING	1	ASTXIXRM_XMSGFETCH	++ INPUT
		1...		ASTXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ASTXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ASTXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ASTXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
1837	(72D)	BITSTRING	1	ASTXIXRM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1837	(72D)	X'2E'	0	ASTXIXRML	"*-ASTXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
1838	(72E)	ADDRESS	2	(0)	Ensure area fits
1952	(7A0)	X'610'	0	ASTCLEAR	"ASTSTART" Area to be zeroed
1952	(7A0)	X'190'	0	ASTLLEN	"*-DTEWORK" Length of work area

Table 143. Cross Reference for $DTEASST

Name	Offset	Hex Tag
ASAS_CRT	6BC	80
ASATTACH	660	8

Table 143. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASCRRECV	615	80
ASECBLST	664	
ASMAILST	6BC	
ASMEXTNO	6BA	
ASMFLAG9	684	
ASMIGRAS	6BD	E2E8E2D1
ASMINFO	6BB	
ASMMEMNM	69C	
ASMMIGIO	684	
ASMMIGR	686	0
ASMMIGSZ	686	4
ASMMIGT	685	
ASMMKBOX	68C	
ASMSBTAS	65C	
ASMSENDA	680	
ASMTGSTT	658	
ASMVOLID	6B4	
ASMXBUFA	678	
ASMXBUFL	67C	
ASMXREQA	688	
ASMXTOKN	6AC	
ASM9MAPD	684	40
ASM9NMIG	684	80
ASTALLOC	616	80
ASTCLEAR	7A0	610
ASTCREA	614	4
ASTCRTIN	615	
ASTDLALL	614	10
ASTDLENT	614	C
ASTENQTK	61C	
ASTINIT	614	8
ASTIXEND	7A0	
ASTIXLST	700	
ASTLLEN	7A0	190
ASTMBOX	66C	
ASTMBOXP	668	
ASTRCMSG	616	40
ASTRCVMG	614	14
ASTRECOB	618	
ASTSRCST	616	
ASTSRDAS	648	
ASTSREXT	654	
ASTSTART	610	
ASTSTSPL	610	
ASTTABLE	6D0	
ASTTGBYT	650	

Table 143. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTTRACS	64C	
ASTUCBPT	644	
ASTVOLID	63C	40404040
ASTWRKA	670	0
ASTXIXAC	700	
ASTXIXAC_KEYUSED_DATA	728	80
ASTXIXAC_KEYUSED_DATALEN	728	40
ASTXIXAC_KEYUSED_SYSRC	728	10
ASTXIXAC_KEYUSED_SYSRSN	728	8
ASTXIXAC_KEYUSED_USERRC	728	20
ASTXIXAC_XDATA	710	
ASTXIXAC_XDATALEN	714	
ASTXIXAC_XEYECATCH	701	
ASTXIXAC_XGROUPTOKEN	71C	
ASTXIXAC_XKEYS	728	
ASTXIXAC_XMSGATTR	729	
ASTXIXAC_XMSGATTR_EXPRESS	729	40
ASTXIXAC_XMSGATTR_J3CONNECT	729	80
ASTXIXAC_XMSGTOKEN	708	
ASTXIXAC_XSTB	707	
ASTXIXAC_XSTB_NO	707	80
ASTXIXAC_XSTB_YES	707	40
ASTXIXAC_XSYSRC	720	
ASTXIXAC_XSYSRSN	724	
ASTXIXAC_XUSERRC	718	
ASTXIXAC_XVERSION	700	
ASTXIXACL	729	2A
ASTXIXAT	700	
ASTXIXAT_XDIAG	734	
ASTXIXAT_XEYECATCH	701	
ASTXIXAT_XFLAG1	730	
ASTXIXAT_XFLAG2	731	
ASTXIXAT_XGROUP	708	
ASTXIXAT_XGROUPTOKEN	72C	
ASTXIXAT_XJ3CONNECT_NO	731	80
ASTXIXAT_XJ3CONNECT_YES	731	40
ASTXIXAT_XLINKPARMS	738	
ASTXIXAT_XMAINTLVL	728	
ASTXIXAT_XMEMBER	710	
ASTXIXAT_XRELEASE	720	
ASTXIXAT_XRSV0001	707	
ASTXIXAT_XRSV0002	732	
ASTXIXAT_XVERSION	700	
ASTXIXAT_XWHICHJES_COMMON	730	8
ASTXIXAT_XWHICHJES_INIT	730	10
ASTXIXAT_XWHICHJES_JES2	730	80

Table 143. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXAT_XWHICHJES_JES3	730	40
ASTXIXAT_XWHICHJES_J2SPOOL	730	2
ASTXIXAT_XWHICHJES_J3CIFSS	730	4
ASTXIXAT_XWHICHJES_J3FSS	730	20
ASTXIXATL	738	40
ASTXIXDT	700	
ASTXIXDT_XEYECATCH	701	
ASTXIXDT_XGROUPTOKEN	708	
ASTXIXDT_XLINKPARMS	70C	
ASTXIXDT_XRSV0001	707	
ASTXIXDT_XVERSION	700	
ASTXIXDTL	70C	14
ASTXIXMB	700	
ASTXIXMB_XEYECATCH	701	
ASTXIXMB_XGROUPTOKEN	724	
ASTXIXMB_XMBOXNAME	708	
ASTXIXMB_XPOSTALET	720	
ASTXIXMB_XPOSTDATA	71C	
ASTXIXMB_XPOSTXIT	718	
ASTXIXMB_XRSV0001	707	
ASTXIXMB_XSYSEVENT_NO	728	40
ASTXIXMB_XSYSEVENT_YES	728	80
ASTXIXMB_XSYSEVENTS	728	
ASTXIXMB_XVERSION	700	
ASTXIXMBL	728	29
ASTXIXMC	700	
ASTXIXMC_XEYECATCH	701	
ASTXIXMC_XGROUPTOKEN	718	
ASTXIXMC_XMBOXNAME	708	
ASTXIXMC_XSTB	707	
ASTXIXMC_XSTB_NO	707	80
ASTXIXMC_XSTB_YES	707	40
ASTXIXMC_XVERSION	700	
ASTXIXMCL	718	1C
ASTXIXMD	700	
ASTXIXMD_XEYECATCH	701	
ASTXIXMD_XGROUPTOKEN	718	
ASTXIXMD_XMBOXNAME	708	
ASTXIXMD_XSTB	707	
ASTXIXMD_XSTB_NO	707	80
ASTXIXMD_XSTB_YES	707	40
ASTXIXMD_XVERSION	700	
ASTXIXMDL	718	1C
ASTXIXRM	700	
ASTXIXRM_KEYUSED_MSGFETCH	72D	80
ASTXIXRM_XDATA	718	

Table 143. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXRM_XDATALEN	71C	
ASTXIXRM_XEYECATCH	701	
ASTXIXRM_XGROUPTOKEN	728	
ASTXIXRM_XKEYS	72D	
ASTXIXRM_XMBOXNAME	708	
ASTXIXRM_XMSGFETCH	72C	
ASTXIXRM_XMSGFETCH_ACKS	72C	10
ASTXIXRM_XMSGFETCH_ALL	72C	80
ASTXIXRM_XMSGFETCH_MESSAGES	72C	40
ASTXIXRM_XMSGFETCH_SYSEVENT	72C	20
ASTXIXRM_XMSGTOKEN	720	
ASTXIXRM_XRSV0001	707	
ASTXIXRM_XVERSION	700	
ASTXIXRML	72D	2E
ASTXIXSM	700	
ASTXIXSM_KEYUSED_CONNECT	782	4
ASTXIXSM_KEYUSED_DATAALET	783	40
ASTXIXSM_KEYUSED_ECB	783	80
ASTXIXSM_KEYUSED_EXIT	782	10
ASTXIXSM_KEYUSED_MSGATTR	782	1
ASTXIXSM_KEYUSED_MSGTOKEN	782	2
ASTXIXSM_KEYUSED_RELEASE_CADS	783	20
ASTXIXSM_KEYUSED_REQMBOX	782	20
ASTXIXSM_KEYUSED_REQTOKEN	782	40
ASTXIXSM_KEYUSED_REQTYPE	782	80
ASTXIXSM_KEYUSED_RIPSIZE	783	10
ASTXIXSM_KEYUSED_SEGTYPE	782	8
ASTXIXSM_XCONNECT	758	
ASTXIXSM_XDATA	728	
ASTXIXSM_XDATAALET	748	
ASTXIXSM_XDATALEN	72C	
ASTXIXSM_XECB	750	
ASTXIXSM_XEXIT	754	
ASTXIXSM_XEYECATCH	701	
ASTXIXSM_XGROUPTOKEN	760	
ASTXIXSM_XKEYS	782	
ASTXIXSM_XKEYS1	783	
ASTXIXSM_XMBOXNAME	708	
ASTXIXSM_XMEMBER	718	
ASTXIXSM_XMSGATTR	707	
ASTXIXSM_XMSGATTR_EXPRESS	707	40
ASTXIXSM_XMSGATTR_J3CONNECT	707	80
ASTXIXSM_XMSGTOKEN	774	
ASTXIXSM_XREQMBOX	738	
ASTXIXSM_XREQTOKEN	730	
ASTXIXSM_XREQTYPE	780	

Table 143. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXSM_XREQTYPE_ASYNC	780	80
ASTXIXSM_XREQTYPE_ASYNCACK	780	20
ASTXIXSM_XREQTYPE_COMM	780	10
ASTXIXSM_XREQTYPE_SYNC	780	40
ASTXIXSM_XRESPDALT	74C	
ASTXIXSM_XRESPDATA	768	
ASTXIXSM_XRESPDLEN	76C	
ASTXIXSM_XRIPSIZE	77C	
ASTXIXSM_XRSV00001	770	
ASTXIXSM_XSEGTYPE	781	
ASTXIXSM_XSEGTYPE_ABORT	781	8
ASTXIXSM_XSEGTYPE_FIRST	781	40
ASTXIXSM_XSEGTYPE_LAST	781	10
ASTXIXSM_XSEGTYPE_MIDDLE	781	20
ASTXIXSM_XSEGTYPE_SINGLE	781	80
ASTXIXSM_XUSERRC	764	
ASTXIXSM_XVERSION	700	
ASTXIXSML	783	84
AST1NORE	614	0
AST1REQU	614	
ASWORKP	664	
AS1BMERR	660	10
AS1ERABN	660	80
AS1ERFL1	660	
AS1MAILE	660	40
AS1TBERR	660	20
DTE	0	
M00M1211	0	700
M00M1213	700	
M00M1214	0	700
M00M1215	700	
M00M1216	700	
M00M1217	0	700
M00M1218	0	700
M00M1219	700	

$DTECKCF information

$DTECKCF heading information

Common name: HASP Checkpoint on CF DTE work area

Macro ID: $DTECKCF

DSECT name: DTE ($DTECKCF is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCCFLEN equate for the length of a checkpoint on CF DTE work area extension.

Created by: Created by $DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTECKCF field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint on CF subtask DTEs.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.

Function: The HASP Checkpoint on CF Subtask DTE work area, $DTECKCF, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask interfactes between JES2 and the XES CF support. Each subtask manages the requests for a single CF. They are attached when the checkpoint is allocated (at connect time) and detached when the CF is no longer needed (at checkpoint unallocate).
A subtask is used to limit the impact of XES suspending the reqester of a service or terminating the connector of a CF.

$DTECKCF mapping

Table 144. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on CF subtask work area ext.
		Performance statistics This area is defined the same in $DTECKDA, $CTECKCF and $CTW. It must follow DTEWORK in both DTE work areas.			
1552	(610)	SIGNED	4	DCCFPSTR(0)	Start of statistics
1552	(610)	DBL WORD	8	DCCFPTIM	Wall clock to complete req
1560	(618)	DBL WORD	8	DCCFPCPU	CPU time to complete req
1568	(620)	SIGNED	4	DCCFPIOC	I/O count for request
1572	(624)	SIGNED	4	DCCFPCNT	CB count for request
1572	(624)	X'610'	0	DCCFPERF	"DCCFPSTR,24,C'C'" Field for all stats
		End of DTE performance statistics			
1576	(628)	SIGNED	4	DCCFEECB	Event ECB
1580	(62C)	ADDRESS	4	DCFBFLST	Pointer to BUFLIST storage
1584	(630)	ADDRESS	8	DCFCFLST	Pointer to CFLIST
1592	(638)	ADDRESS	8	DCFRDBF1	Pointer to 64K buffer for IXLLSTM READ_LIST requests
1600	(640)	ADDRESS	8	DCFRDBF2	Pointer to second 64K buffer for IXLLSTM READ_LIST requests
1608	(648)	ADDRESS	8	DCFRWTKN	Pointer to storage to hold tokens returned from an IXLLSTM READ or WRITE
1616	(650)	ADDRESS	8	DCFLEID	Pointer to LEIDs

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1624	(658)	ADDRESS	8	DCFCFADR	Work areas obtained when structure is connected to
1632	(660)	ADDRESS	8	DCFCFAD2	Work areas based on max checkpoint size
1640	(668)	SIGNED	4	DCFCFSZE	Size of 64 bit work area obtained when structure is connected to
1644	(66C)	SIGNED	4	DCFCFSZ2	Size of 64 bit work area based on max checkpoint size
1648	(670)	ADDRESS	4	DCFLAAS	Addr of set of answer areas
1652	(674)	SIGNED	4	DCFLAASZ	Size of 31 bit LAA work area obtained when structure connected to
1656	(678)	ADDRESS	4	DCFLAAFQ	First free LAA work area
1660	(67C)	SIGNED	4	(5)	Reserved
1680	(690)	DBL WORD	8	(0)	Ensure alignment
1680	(690)	X'80'	0	DCCFLEN	"*-DTEWORK" Length of work area

Table 145. Cross Reference for $DTECKCF

Name	Offset	Hex Tag
DCCFEECB	628	
DCCFLEN	690	80
DCCFPCNT	624	
DCCFPCPU	618	
DCCFPERF	624	610
DCCFPIOC	620	
DCCFPSTR	610	
DCCFPTIM	610	
DCFBFLST	62C	
DCFCFADR	658	
DCFCFAD2	660	
DCFCFLST	630	
DCFCFSZE	668	
DCFCFSZ2	66C	
DCFLAAFQ	678	
DCFLAAS	670	
DCFLAASZ	674	
DCFLEID	650	
DCFRDBF1	638	
DCFRDBF2	640	
DCFRWTKN	648	
DTE	0	

$DTECKDA information

$DTECKDA heading information

Common name: HASP Checkpoint on DASD DTE workarea

Macro ID: $DTECKDA

DSECT name: DTE ($DTECKDA is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCDALEN equate for the length of a checkpoint on DASD DTE work area extension.

Created by: Created by $DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTECKDA field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint on DASD subtask DTEs.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.

Function: The HASP Checkpoint on DASD Subtask DTE work area, $DTECKDA, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask interfaces between JES2 main task and subtask logic that reads and writes the checkpoint on DASD. Each subtask manages the requests for a single DASD data set. They are attached when the checkpoint is allocated and detached when the data set is no longer needed (at checkpoint unallocate). A subtask is used to better manage multiple parallel I/Os to the DASD checkpoint data set.

$DTECKDA mapping

Table 146. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on DASD subtask work area ext.
		Performance statistics This area is defined the same in $DTECKDA, $CTECKCF and $CTW. It must follow DTEWORK in both DTE work areas.			
1552	(610)	SIGNED	4	DCDAPSTR(0)	Start of statistics
1552	(610)	DBL WORD	8	DCDAPTIM	Wall clock to complete req
1560	(618)	DBL WORD	8	DCDAPCPU	CPU time to complete req
1568	(620)	SIGNED	4	DCDAPIOC	I/O count for request
1572	(624)	SIGNED	4	DCDAPCNT	CB count for request
1572	(624)	X'610'	0	DCDAPERF	"DCDAPSTR,24" Field for all statistics
		End of DTE performance statistics			
1576	(628)	DBL WORD	8	DCDAWORK	8 byte work area
1584	(630)	BITSTRING	16	DCDAWK16	16 byte work area
1600	(640)	BITSTRING	1	DCDAFLG1	General DTE flag byte
		1...		DCDA1INI	"B'10000000'" Subtask initializing
1601	(641)	BITSTRING	1	DCDAFLG2	Footprint
1602	(642)	SIGNED	2	DCDABNDC	Subtask ABEND count
1604	(644)	ADDRESS	4	DCDAECBL(0)	ECB list for main wait

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1604	(644)	ADDRESS	4	DCDAWCB@	Work ECB (DTEWECB)
1608	(648)	ADDRESS	4	DCDAECB@	Event ECB (DCDAEECB)
1612	(64C)	ADDRESS	4	DCDAIOEL(0)	I/O ECB list
1612	(64C)	ADDRESS	4	DCDAICB@(0)	I/O ECB pointers
1636	(664)	ADDRESS	4		Space for work ECB
1640	(668)	SIGNED	4	DCDAEECB	Event ECB
1648	(670)	DBL WORD	8	DCDALPST	STCK of last POST
1656	(678)	DBL WORD	8	DCDALOBT	STCK of last OBTAIN
	Function related statistics				
1664	(680)	SIGNED	4	DCDAFUNC	Current function
1668	(684)	SIGNED	4	DCDAFSAV	Last function
1672	(688)	DBL WORD	8	DCDAT1ST	Time DDA_T1IO routine
1680	(690)	DBL WORD	8	DCDAT1ND	started and ended
1688	(698)	DBL WORD	8	DCDAR2ST	Time DDA_RD2 routine
1696	(6A0)	DBL WORD	8	DCDAR2ND	started and ended
1704	(6A8)	DBL WORD	8	DCDAWRST	Time DDA_WRT routine
1712	(6B0)	DBL WORD	8	DCDAWRND	started and ended
1720	(6B8)	DBL WORD	8	DCDALKST	Time DDA_LOCK routine
1728	(6C0)	DBL WORD	8	DCDALKND	started and ended
1736	(6C8)	DBL WORD	8	DCDAULST	Time DDA_UNLK routine
1744	(6D0)	DBL WORD	8	DCDAULND	started and ended
1752	(6D8)	DBL WORD	8	DCDAFMST	Time DDA_FMT routine
1760	(6E0)	DBL WORD	8	DCDAFMND	started and ended
1768	(6E8)	DBL WORD	8	DCDAXTST	Time DDA_XTND routine
1776	(6F0)	DBL WORD	8	DCDAXTND	started and ended
	Various data pointers				
1784	(6F8)	ADDRESS	4	DCDACKG	CKG address
1788	(6FC)	ADDRESS	4	DCDADEB	Address of DEB for this CKPT
1792	(700)	ADDRESS	4	DCDAUCB	UCB address
1796	(704)	ADDRESS	4	DCDAUCBX	UCB extension addr (UCBCMEXT)
1800	(708)	CHARACTER	44	DCDADSN	CKPT date set name
1844	(734)	CHARACTER	6	DCDAVOL	and VOLSER
1850	(73A)	BITSTRING	2		Reserved
1852	(73C)	SIGNED	4	DCDCMLST(0)	ALIGN ON FULL WORD
1852	(73C)	ADDRESS	1		THREE BYTES OF FLAGS
1853	(73D)	ADDRESS	1		INDICATING THE FUNC-
1854	(73E)	ADDRESS	1		TION TO BE PERFORMED
1855	(73F)	ADDRESS	1		NO OPTION THREE
1856	(740)	ADDRESS	4		PARAMETER TWO
1860	(744)	ADDRESS	4		PARAMETER THREE
1864	(748)	ADDRESS	4		PARAMETER FOUR
1868	(74C)	ADDRESS	4	DCDAKAWA	Current KAWA address
1872	(750)	DBL WORD	8	(0)	Double word for DSCB

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1872	(750)	BITSTRING	148	DCDADSCB	DSCB from OBTAIN
2020	(7E4)	SIGNED	4	DCDAOBEC	Obtain error count
2024	(7E8)	BITSTRING	120	DCDAMSGW	Message work area
2144	(860)	SIGNED	4	DCDATRKC	Number of tracks/cylenders
2148	(864)	SIGNED	4	DCDANRTK	Number of 4K records per track
2152	(868)	SIGNED	4	DCDAMSTN	Number of records for the master record
2156	(86C)	SIGNED	4	DCDACHLN	Number of CHLOG entries after track 1 data
2160	(870)	SIGNED	4	DCDA4KST	Absolute start TTTT for 4k pages in CKPT
2164	(874)	SIGNED	4	DCDA4KRC	Start record for 4K pages
2168	(878)	BITSTRING	16	DCDARPS	Sector numbers for 4K recs
2184	(888)	DBL WORD	8	DCDAEXT(0)	Extent start/end absolute address
2184	(888)	BITSTRING	4	DCDALOW	Lower CCccch of extent
2188	(88C)	BITSTRING	4	DCDAHIGH	Upper CCccch of extent
2192	(890)	DBL WORD	8	DCDABS(0)	DS start/end absolute track number
2192	(890)	SIGNED	4	DCDALOWA	Start absolute track no.
2196	(894)	SIGNED	4	DCDAHIAB	End absolute track number
2200	(898)	BITSTRING	1	DCDADEVF	Device flags
		1...		DCDAECKD	"B'10000000'" Device supports ECKD CCWs
		.1..		DCDARDTD	"B'01000000'" Read track data CCW support
		..1.		DCDAWTRD	"B'00100000'" Write trk data CCW support
		...1		DCDAMIDW	"B'00010000'" Device supports MIDAWs
2201	(899)	BITSTRING	3	DCDAAPPB	Saved value from DEBAPPB
2204	(89C)	BITSTRING	4		Reserved
		The following are work areas used in building channel programs (routines KIOPAGE)			
2208	(8A0)	DBL WORD	8	DCDAIODA(0)	KIOPAGE work area
2208	(8A0)	ADDRESS	4	DCDACKA	Current CKA address
2212	(8A4)	ADDRESS	4	DCDACCWS	Free pointer in CCW area
2216	(8A8)	ADDRESS	4	DCDACCWD	Free pointer in data area
2220	(8AC)	ADDRESS	4	DCDAMXCC	Max CCW pointer
2224	(8B0)	ADDRESS	4	DCDAMXCD	Max CKD pointer
2228	(8B4)	ADDRESS	4	DCDAMXRG	Max rangelist pointer
2232	(8B8)	SIGNED	4	DCDARCNT	Records in current domain
2236	(8BC)	ADDRESS	4	DCDALOCR	Current locate record data area
2240	(8C0)	BITSTRING	5	DCDACHR(0)	Current CCHHR
2240	(8C0)	BITSTRING	4	DCDACCHH	Current CCHH
2244	(8C4)	BITSTRING	1	DCDAR	and R
2245	(8C5)	BITSTRING	1	DCDAIOF1	I/O flag byte
		1...		DCDA1ADJ	"B'10000000'" Adjacent DASD records flag
		.1..		DCDA1STA	"B'01000000'" Adjacent storage address

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2248	(8C8)	SIGNED	4	DCDALSTR	Last record+1 in current CTENT
2252	(8CC)	ADDRESS	4	DCDALSTK	1st byte past last local KIT
Statistics for I/Os					
2256	(8D0)	SIGNED	4	DCDAIOCT	Count of normal I/Os started
2260	(8D4)	SIGNED	4	DCDARTCT	Count of retry I/Os started
2264	(8D8)	SIGNED	4	DCDARCCT	Count of records processed
2264	(8D8)	X'8A0'	0	DCDAIOWA	"DCDAIODA,*-DCDAIODA" Equate for work area
2272	(8E0)	DBL WORD	8	(0)	Align save area
2272	(8E0)	BITSTRING	144	DCDASAVE	F4SA save area for KIOPAGE
2416	(970)	DBL WORD	8	(0)	Align save area
2416	(970)	BITSTRING	144	DCDAPGSV	F4SA save area for KPGPGSR
2560	(A00)	DBL WORD	8	(0)	Align save area
2560	(A00)	BITSTRING	144	DCDACHKI	F4SA save area for KPGCHKIO
2704	(A90)	SIGNED	4		Reserved
------- $BLDMSG MF=L List form of $BLDMSG					
2708	(A94)	SIGNED	4	DCDABLDM(0)	Control block ID
2712	(A98)	BITSTRING	4		Console ID
2716	(A9C)	ADDRESS	4		Address of the CART
2720	(AA0)	ADDRESS	4		Pointer for JOBID
2724	(AA4)	ADDRESS	4		Control block address
2728	(AA8)	ADDRESS	4		Display routine address
2732	(AAC)	ADDRESS	4	(6)	6 word work area
2756	(AC4)	ADDRESS	4		Caller's R11 value
2760	(AC8)	BITSTRING	2		ROUT code for Message
2762	(ACA)	BITSTRING	2		Not used
2764	(ACC)	CHARACTER	4		Message ID
2768	(AD0)	CHARACTER	1		Separator character
2769	(AD1)	ADDRESS	1		Flag byte 1
2770	(AD2)	ADDRESS	1		'DISPER'
2771	(AD3)	ADDRESS	1		Flag byte 2
2772	(AD4)	ADDRESS	1		Flag byte 3
2773	(AD5)	ADDRESS	1		Severity of message
2774	(AD6)	CHARACTER	8		Symbolic name of dest.
2782	(ADE)	BITSTRING	14		Not used
2796	(AEC)	ADDRESS	4	(0)	Ensure multiple of 4
2796	(AEC)	ADDRESS	2	(0)	
2800	(AF0)	DBL WORD	8	(0)	Start of ORG area
2800	(AF0)	BITSTRING	256	DCDAORG	Basic work are
------- TRKCALC MF=L TRKCALC work area					
2800	(AF0)	ADDRESS	4	DCDATCAL	DVCT OR UCB ADDR, OR DEVTYPE
2804	(AF4)	BITSTRING	1		FLAG BYTE
2805	(AF5)	BITSTRING	1		RESERVED

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2806	(AF6)	ADDRESS	2		TRACK BALANCE
2808	(AF8)	ADDRESS	1		RECORD NUMBER
2809	(AF9)	ADDRESS	1		KEY LENGTH
2810	(AFA)	ADDRESS	2		DATA LENGTH
2810	(AFA)	X'AF0'	0	DCDATRKL	"DCDATCAL,*-DCDATCAL" Work area equate
2812	(AFC)	ADDRESS	2	(0)	Ensure not too long

```
------- IARV64 MF=(L,DCDAIARV),PLISTVER=MAX IARV64 work area
                MACDATE -03/01/19-<6>
```

0	(0)	X'AF0'	0	M00M1225	"DCDAIARV" ++ IARV64 NAME
2800	(AF0)	DBL WORD	8	DCDAIARV(0)	++ IARV64 PARM LIST
2800	(AF0)	BITSTRING	1	DCDAIARV_XVERSION	++ INPUT XVERSION
2801	(AF1)	BITSTRING	1	DCDAIARV_XREQUEST	++ XREQUEST
2801	(AF1)	X'1'	0	DCDAIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2801	(AF1)	X'2'	0	DCDAIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2801	(AF1)	X'3'	0	DCDAIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2801	(AF1)	X'4'	0	DCDAIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2801	(AF1)	X'5'	0	DCDAIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2801	(AF1)	X'6'	0	DCDAIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2801	(AF1)	X'7'	0	DCDAIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
2801	(AF1)	X'8'	0	DCDAIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2801	(AF1)	X'9'	0	DCDAIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2801	(AF1)	X'A'	0	DCDAIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2801	(AF1)	X'B'	0	DCDAIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2801	(AF1)	X'C'	0	DCDAIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2801	(AF1)	X'D'	0	DCDAIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2801	(AF1)	X'E'	0	DCDAIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2801	(AF1)	X'F'	0	DCDAIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2801	(AF1)	X'10'	0	DCDAIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2801	(AF1)	X'11'	0	DCDAIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2801	(AF1)	X'12'	0	DCDAIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2802	(AF2)	BITSTRING	1	DCDAIARV_XFLAGS0	++ FIELD_LABEL
		1...		DCDAIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCDAIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		DCDAIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2803	(AF3)	BITSTRING	1	DCDAIARV_XKEY	++
2804	(AF4)	BITSTRING	1	DCDAIARV_XFLAGS1	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		DCDAIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		DCDAIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		DCDAIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		DCDAIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		DCDAIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		DCDAIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		DCDAIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2805	(AF5)	BITSTRING	1	DCDAIARV_XFLAGS2	++ FIELD_LABEL
		1...		DCDAIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		DCDAIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		DCDAIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		DCDAIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		DCDAIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		DCDAIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		DCDAIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		DCDAIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2806	(AF6)	BITSTRING	1	DCDAIARV_XFLAGS3	++ FIELD_LABEL
		1...		DCDAIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		DCDAIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DCDAIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		DCDAIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DCDAIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DCDAIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DCDAIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		DCDAIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2807	(AF7)	BITSTRING	1	DCDAIARV_XFLAGS4	++ FIELD_LABEL
		1...		DCDAIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DCDAIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		DCDAIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DCDAIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DCDAIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DCDAIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DCDAIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		DCDAIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2808	(AF8)	DBL WORD	8	DCDAIARV_XSEGMENTS	++
2816	(B00)	CHARACTER	16	DCDAIARV_XTTOKEN	++
2832	(B10)	DBL WORD	8	DCDAIARV_XUSERTKN	++
2840	(B18)	ADDRESS	8	DCDAIARV_XORIGIN	++
2848	(B20)	ADDRESS	8	DCDAIARV_XRANGLIST	++
2856	(B28)	ADDRESS	8	DCDAIARV_XMEMOBJSTART	++
2864	(B30)	SIGNED	4	DCDAIARV_XGUARDSIZE	++
2868	(B34)	SIGNED	4	DCDAIARV_XCONVERTSIZE	++
2872	(B38)	SIGNED	4	DCDAIARV_XALETVALUE	++
2876	(B3C)	SIGNED	4	DCDAIARV_XNUMRANGE	++
2880	(B40)	ADDRESS	4	DCDAIARV_XV64LISTPTR	++
2884	(B44)	SIGNED	4	DCDAIARV_XV64LISTLENGTH	++
2888	(B48)	DBL WORD	8	DCDAIARV_XCONVERTSTART	++
2896	(B50)	DBL WORD	8	DCDAIARV_XCONVERTSIZE64	++
2904	(B58)	DBL WORD	8	DCDAIARV_XGUARDSIZE64	++
2912	(B60)	CHARACTER	8	DCDAIARV_XUSERTOKEN	++
2920	(B68)	BITSTRING	1	DCDAIARV_XDUMPPRIORITY	++
2921	(B69)	BITSTRING	1	DCDAIARV_XFLAGS5	++ FIELD_LABEL
		1...		DCDAIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DCDAIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DCDAIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DCDAIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DCDAIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCDAIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DCDAIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		DCDAIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2922	(B6A)	BITSTRING	1	DCDAIARV_XFLAGS6	++ FIELD_LABEL
		1...		DCDAIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DCDAIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DCDAIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		DCDAIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DCDAIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DCDAIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DCDAIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		DCDAIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2923	(B6B)	BITSTRING	1	DCDAIARV_XFLAGS7	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		DCDAIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DCDAIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		DCDAIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DCDAIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DCDAIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		DCDAIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		DCDAIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2924	(B6C)	BITSTRING	1	DCDAIARV_XDUMP	++ XDUMP
2924	(B6C)	X'0'	0	DCDAIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
2924	(B6C)	X'1'	0	DCDAIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2924	(B6C)	X'2'	0	DCDAIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2924	(B6C)	X'3'	0	DCDAIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2924	(B6C)	X'20'	0	DCDAIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2924	(B6C)	X'21'	0	DCDAIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2924	(B6C)	X'FF'	0	DCDAIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2925	(B6D)	BITSTRING	1	DCDAIARV_XFLAGS8	++ FIELD_LABEL
		1...		DCDAIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		DCDAIARV_XPAGEFRAMESIZE_DREF1MEG	
					"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		DCDAIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		DCDAIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		DCDAIARV_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		DCDAIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		DCDAIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		1		DCDAIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2926	(B6E)	BITSTRING	2	DCDAIARV_XOWNERASID	++
2928	(B70)	BITSTRING	1	DCDAIARV_XOPTIONVALUE	++
2929	(B71)	CHARACTER	8	DCDAIARV_XRSV0001	++ RESERVED
2937	(B79)	CHARACTER	8	DCDAIARV_XOWNERJOBNAME	++
2945	(B81)	CHARACTER	7	DCDAIARV_XRSV0004	++ RESERVED
2952	(B88)	ADDRESS	8	DCDAIARV_XDMAPAGETABLE	++
2960	(B90)	DBL WORD	8	DCDAIARV_XUNITS	++
2968	(B98)	BITSTRING	1	DCDAIARV_XFLAGS9	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		DCDAIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DCDAIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DCDAIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		DCDAIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		DCDAIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2969	(B99)	BITSTRING	1	DCDAIARV_XFLAGS10	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		DCDAIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		DCDAIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
2970	(B9A)	CHARACTER	6	DCDAIARV_XRSV0005	++ RESERVED
2970	(B9A)	X'BA0'	0	DCDAIARV_PL_END	"*" ++ END OF BASE PLIST
2832	(B10)	DBL WORD	8	DCDAIARV_XOUTMOTKN	++
2832	(B10)	DBL WORD	8	DCDAIARV_XMOTKN	++
2856	(B28)	ADDRESS	8	DCDAIARV_XINORIGIN	++
2976	(BA0)	X'B0'	0	DCDAIARVL	"*-DCDAIARV" ++ LENGTH OF PLIST
				IARV64-6	
0	(0)	X'B0'	0	DCDAV64L	"*-DCDAORG" Length of IARV64 area
2976	(BA0)	ADDRESS	2	(0)	Ensure not too long

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- ISGENQ PLISTVER=1,MF=(L,DCDARSV) ISGENQ work area MACDATE -01/23/13-<2>					
		1		DCDARSV_XCOND_NO	"X'01'"
		.... ..1.		DCDARSV_XCOND_YES	"X'02'"
		1		DCDARSV_XREQUEST_OBTAIN	"X'01'"
		.... ..1.		DCDARSV_XREQUEST_CHANGE	"X'02'"
		11		DCDARSV_XREQUEST_RELEASE	"X'03'"
0	(0)	X'AF0'	0	M00M1227	"DCDARSV" ++ ISGENQ NAME
2800	(AF0)	DBL WORD	8	DCDARSV(0)	++ ISGENQ PARM LIST
2800	(AF0)	BITSTRING	1	DCDARSV_XVERSION	++ INPUT XVERSION
2801	(AF1)	CHARACTER	1	DCDARSV_XRSV0000	++ RESERVED
2802	(AF2)	BITSTRING	1	DCDARSV_XSCOPE	++ XSCOPE
2802	(AF2)	X'1'	0	DCDARSV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
2802	(AF2)	X'2'	0	DCDARSV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
2802	(AF2)	X'3'	0	DCDARSV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
2802	(AF2)	X'3'	0	DCDARSV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
2803	(AF3)	BITSTRING	1	DCDARSV_XCONTROL	++ XCONTROL
2803	(AF3)	X'1'	0	DCDARSV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
2803	(AF3)	X'2'	0	DCDARSV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
2804	(AF4)	BITSTRING	1	DCDARSV_XFLAGS1	++ FIELD_LABEL
		.1..		DCDARSV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		DCDARSV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		DCDARSV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		DCDARSV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		DCDARSV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		DCDARSV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		1		DCDARSV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
2805	(AF5)	BITSTRING	1	DCDARSV_XFLAGS2	++ FIELD_LABEL
		1...		DCDARSV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		DCDARSV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		DCDARSV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		DCDARSV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		DCDARSV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		DCDARSV_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		1		DCDARSV_XRNAME_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
2806	(AF6)	BITSTRING	1	DCDARSV_XFLAGS3	++ FIELD_LABEL
		1...		DCDARSV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		1		DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
2807	(AF7)	BITSTRING	1	DCDARSV_XFLAGS4	++ FIELD_LABEL
		1		DCDARSV_XUCB@_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
2808	(AF8)	ADDRESS	8	DCDARSV_XRESTABLE_ADDR3164	++ ADDR3164
2816	(B00)	ADDRESS	8	DCDARSV_XENQTOKEN_ADDR3164	++ ADDR3164
2824	(B08)	ADDRESS	8	DCDARSV_XRETURNTABLE_ADDR3164	
2832	(B10)	ADDRESS	8	DCDARSV_XENQTOKENTBL_ADDR3164	
2840	(B18)	ADDRESS	8	DCDARSV_XRNAME_ADDR3164	++ ADDR3164
2848	(B20)	ADDRESS	8	DCDARSV_XANSAREA_ADDR3164	++ ADDR3164
2856	(B28)	CHARACTER	8	DCDARSV_XQNAME	++
2864	(B30)	CHARACTER	16	DCDARSV_XOWNINGTTOKEN	++
2880	(B40)	SIGNED	4	DCDARSV_XRESTABLE_ALET	++ ALET
2884	(B44)	SIGNED	4	DCDARSV_XENQTOKEN_ALET	++ ALET
2888	(B48)	SIGNED	4	DCDARSV_XRETURNTABLE_ALET	++ ALET
2892	(B4C)	SIGNED	4	DCDARSV_XENQTOKENTBL_ALET	++ ALET
2896	(B50)	SIGNED	4	DCDARSV_XRNAME_ALET	++ ALET
2900	(B54)	SIGNED	4	DCDARSV_XANSAREA_ALET	++ ALET
2904	(B58)	SIGNED	4	DCDARSV_XANSLEN	++
2908	(B5C)	ADDRESS	4	DCDARSV_XECB@	++
2912	(B60)	ADDRESS	4	DCDARSV_XUCB@	++
2916	(B64)	BITSTRING	2	DCDARSV_XNUMRES	++
2918	(B66)	BITSTRING	1	DCDARSV_XRNAMELEN	++
2919	(B67)	CHARACTER	1	DCDARSV_XRSV0001	++ RESERVED
2920	(B68)	CHARACTER	8	DCDARSV_XRSVNNNN	++ RESERVED
2920	(B68)	X'B70'	0	DCDARSV_PL_END	"*" ++ END OF BASE PLIST
2802	(AF2)	BITSTRING	1	DCDARSV_XSCOPEVAL	++
2803	(AF3)	BITSTRING	1	DCDARSV_XCONTROLVAL	++
2928	(B70)	X'80'	0	DCDARSVL	"*-DCDARSV" ++ LENGTH OF PLIST
				ISGENQ-2	
2928	(B70)	ADDRESS	2	(0)	Ensure not too long
2800	(AF0)	SIGNED	4	(0)	Ensure alignment
2800	(AF0)	BITSTRING	16	DCDAPPL	PURGE parameter list
2816	(B00)	ADDRESS	2	(0)	Ensure not too long
2800	(AF0)	DBL WORD	8	(0)	

Table 146. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2800	(AF0)	BITSTRING	100	DCDAEXDS	$EXTENDS list form
2900	(B54)	ADDRESS	2	(0)	Ensure not too long
3056	(BF0)	DBL WORD	8	(0)	Ensure alignment
3056	(BF0)	X'5E0'	0	DCDALEN	"*-DTEWORK" Length of work area

Table 147. Cross Reference for $DTECKDA

Name	Offset	Hex Tag
DCDAAPPB	899	
DCDABLDM	A94	C2D3C440
DCDABNDC	642	
DCDABS	890	
DCDACCHH	8C0	
DCDACCWD	8A8	
DCDACCWS	8A4	
DCDACHKI	A00	
DCDACHLN	86C	
DCDACHR	8C0	
DCDACKA	8A0	
DCDACKG	6F8	
DCDADEB	6FC	
DCDADEVF	898	
DCDADSCB	750	
DCDADSN	708	
DCDAECB@	648	
DCDAECBL	644	
DCDAECKD	898	80
DCDAEECB	668	
DCDAEXDS	AF0	0
DCDAEXT	888	
DCDAFLG1	640	
DCDAFLG2	641	
DCDAFMND	6E0	
DCDAFMST	6D8	
DCDAFSAV	684	
DCDAFUNC	680	
DCDAHIAB	894	
DCDAHIGH	88C	
DCDAIARV	AF0	
DCDAIARV_KEYUSED_CONVERTSIZE64	AF4	4
DCDAIARV_KEYUSED_CONVERTSTART	AF4	10
DCDAIARV_KEYUSED_DUMP	B6B	80
DCDAIARV_KEYUSED_GUARDSIZE64	AF4	8
DCDAIARV_KEYUSED_INORIGIN	B99	80
DCDAIARV_KEYUSED_KEY	AF4	80
DCDAIARV_KEYUSED_MOTKN	AF4	2

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_KEYUSED_OPTIONVALUE	B6B	40
DCDAIARV_KEYUSED_OWNERJOBNAME	AF4	1
DCDAIARV_KEYUSED_SVCDUMPRGN	B6B	20
DCDAIARV_KEYUSED_TTOKEN	AF4	20
DCDAIARV_KEYUSED_UNITS	B98	80
DCDAIARV_KEYUSED_USERTKN	AF4	40
DCDAIARV_PL_END	B9A	BA0
DCDAIARV_XAFFINITY_SYSTEM	AF6	40
DCDAIARV_XALETVALUE	B38	
DCDAIARV_XAMOUNTSIZE_1MEG	B6A	2
DCDAIARV_XAMOUNTSIZE_4K	B6A	4
DCDAIARV_XATTRIBUTE_DEFS	B6B	10
DCDAIARV_XATTRIBUTE_NOTOWNERGONE	B6B	4
DCDAIARV_XATTRIBUTE_OWNERGONE	B6B	8
DCDAIARV_XCHANGEACCESS_GLOBAL	AF5	8
DCDAIARV_XCLEAR_NO	AF7	40
DCDAIARV_XCOND_YES	AF5	80
DCDAIARV_XCONTROL_AUTH	AF5	20
DCDAIARV_XCONVERT_FROMGUARD	AF7	2
DCDAIARV_XCONVERT_TOGUARD	AF7	4
DCDAIARV_XCONVERTSIZE	B34	
DCDAIARV_XCONVERTSIZE64	B50	
DCDAIARV_XCONVERTSTART	B48	
DCDAIARV_XDETACHFIXED_YES	B6A	20
DCDAIARV_XDISCARDPAGES_YES	0	4
DCDAIARV_XDMAPAGETABLE	B88	
DCDAIARV_XDOAUTHCHECKS_YES	B6A	10
DCDAIARV_XDUMP	B6C	
DCDAIARV_XDUMP_ALL	B6C	FF
DCDAIARV_XDUMP_LIKECSA	B6C	3
DCDAIARV_XDUMP_LIKELSQA	B6C	21
DCDAIARV_XDUMP_LIKERGN	B6C	20
DCDAIARV_XDUMP_LIKESQA	B6C	2
DCDAIARV_XDUMP_NO	B6C	1
DCDAIARV_XDUMP_NONE	B6C	0
DCDAIARV_XDUMPPRIORITY	B68	
DCDAIARV_XDUMPPROTOCOL_YES	B69	80
DCDAIARV_XEXECUTABLE_NO	0	1
DCDAIARV_XEXECUTABLE_YES	0	2
DCDAIARV_XFLAGS0	AF2	
DCDAIARV_XFLAGS1	AF4	
DCDAIARV_XFLAGS10	B99	
DCDAIARV_XFLAGS2	AF5	
DCDAIARV_XFLAGS3	AF6	
DCDAIARV_XFLAGS4	AF7	
DCDAIARV_XFLAGS5	B69	

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XFLAGS6	B6A	
DCDAIARV_XFLAGS7	B6B	
DCDAIARV_XFLAGS8	B6D	
DCDAIARV_XFLAGS9	B98	
DCDAIARV_XFPROT_NO	AF5	40
DCDAIARV_XGUARDLOC_HIGH	AF5	10
DCDAIARV_XGUARDSIZE	B30	
DCDAIARV_XGUARDSIZE64	B58	
DCDAIARV_XINORIGIN	B28	
DCDAIARV_XKEEPREAL_NO	AF7	1
DCDAIARV_XKEY	AF3	
DCDAIARV_XLOCALSYSAREA_YES	B6A	8
DCDAIARV_XLONG_NO	AF7	80
DCDAIARV_XMATCH_MOTOKEN	AF2	20
DCDAIARV_XMATCH_USERTOKEN	AF6	80
DCDAIARV_XMEMLIMIT_COND	B6A	1
DCDAIARV_XMEMLIMIT_NO	B6A	40
DCDAIARV_XMEMOBJSTART	B28	
DCDAIARV_XMOTKN	B10	
DCDAIARV_XMOTKNCREATOR_SYSTEM	AF2	40
DCDAIARV_XMOTKNSOURCE_SYSTEM	AF2	80
DCDAIARV_XNUMRANGE	B3C	
DCDAIARV_XOPTIONVALUE	B70	
DCDAIARV_XORDER_DUMPPRIORITY	B69	40
DCDAIARV_XORIGIN	B18	
DCDAIARV_XOUTMOTKN	B10	
DCDAIARV_XOWNER_NO	AF6	10
DCDAIARV_XOWNERASID	B6E	
DCDAIARV_XOWNERCOM_BYASID	B69	1
DCDAIARV_XOWNERCOM_HOME	B69	8
DCDAIARV_XOWNERCOM_PRIMARY	B69	4
DCDAIARV_XOWNERCOM_SYSTEM	B69	2
DCDAIARV_XOWNERJOBNAME	B79	
DCDAIARV_XPAGEFRAMESIZE_ALL	AF5	1
DCDAIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DCDAIARV_XPAGEFRAMESIZE_MAX	AF5	2
DCDAIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	B6D	80
DCDAIARV_XPAGEFRAMESIZE_1M	B98	10
DCDAIARV_XPAGEFRAMESIZE_1MEG	AF5	4
DCDAIARV_XPAGEFRAMESIZE_2G	B98	8
DCDAIARV_XRANGLIST	B20	
DCDAIARV_XREQUEST	AF1	
DCDAIARV_XREQUEST_CHANGEACCESS	AF1	B
DCDAIARV_XREQUEST_CHANGEGUARD	AF1	D
DCDAIARV_XREQUEST_COUNTPAGES	AF1	10
DCDAIARV_XREQUEST_DETACH	AF1	3

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XREQUEST_DISCARDDATA	AF1	7
DCDAIARV_XREQUEST_GETCOMMON	AF1	F
DCDAIARV_XREQUEST_GETSHARED	AF1	2
DCDAIARV_XREQUEST_GETSTOR	AF1	1
DCDAIARV_XREQUEST_LIST	AF1	E
DCDAIARV_XREQUEST_PAGEFIX	AF1	4
DCDAIARV_XREQUEST_PAGEIN	AF1	8
DCDAIARV_XREQUEST_PAGEOUT	AF1	6
DCDAIARV_XREQUEST_PAGEUNFIX	AF1	5
DCDAIARV_XREQUEST_PCIEFIX	AF1	11
DCDAIARV_XREQUEST_PCIEUNFIX	AF1	12
DCDAIARV_XREQUEST_PROTECT	AF1	9
DCDAIARV_XREQUEST_SHAREMEMOBJ	AF1	A
DCDAIARV_XREQUEST_UNPROTECT	AF1	C
DCDAIARV_XRSV0001	B71	
DCDAIARV_XRSV0004	B81	
DCDAIARV_XRSV0005	B9A	
DCDAIARV_XSADMP_NO	0	10
DCDAIARV_XSADMP_YES	0	20
DCDAIARV_XSEGMENTS	AF8	
DCDAIARV_XSENSITIVE_NO	B99	20
DCDAIARV_XSENSITIVE_YES	B99	40
DCDAIARV_XSVCDUMPRGN_ALL	AF6	1
DCDAIARV_XSVCDUMPRGN_NO	AF6	4
DCDAIARV_XTRACKINFO_YES	B6B	2
DCDAIARV_XTTOKEN	B00	
DCDAIARV_XTYPE_DREF	B69	10
DCDAIARV_XTYPE_FIXED	B98	4
DCDAIARV_XTYPE_PAGEABLE	B69	20
DCDAIARV_XUNITS	B90	
DCDAIARV_XUNITSIZE_1M	B98	40
DCDAIARV_XUNITSIZE_2G	B98	20
DCDAIARV_XUNLOCKED_YES	B6B	1
DCDAIARV_XUSERTKN	B10	
DCDAIARV_XUSERTOKEN	B60	
DCDAIARV_XUSE2GTO32G_YES	AF6	20
DCDAIARV_XUSE2GTO64G_YES	0	8
DCDAIARV_XVERSION	AF0	
DCDAIARV_XVIEW_HIDDEN	AF7	8
DCDAIARV_XVIEW_READONLY	AF7	20
DCDAIARV_XVIEW_SHAREDWRITE	AF7	10
DCDAIARV_XV64COMMON_NO	B6A	80
DCDAIARV_XV64LISTLENGTH	B44	
DCDAIARV_XV64LISTPTR	B40	
DCDAIARV_XV64SELECT_NO	AF6	8
DCDAIARV_XV64SHARED_NO	AF6	2

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARVL	BA0	B0
DCDAICB@	64C	
DCDAIOCT	8D0	
DCDAIODA	8A0	
DCDAIOEL	64C	
DCDAIOF1	8C5	
DCDAIOWA	8D8	8A0
DCDAKAWA	74C	
DCDALEN	BF0	5E0
DCDALKND	6C0	
DCDALKST	6B8	
DCDALOBT	678	
DCDALOCR	8BC	
DCDALOW	888	
DCDALOWA	890	
DCDALPST	670	
DCDALSTK	8CC	
DCDALSTR	8C8	
DCDAMIDW	898	10
DCDAMSGW	7E8	
DCDAMSTN	868	
DCDAMXCC	8AC	
DCDAMXCD	8B0	
DCDAMXRG	8B4	
DCDANRTK	864	
DCDAOBEC	7E4	
DCDAORG	AF0	
DCDAPCNT	624	
DCDAPCPU	618	
DCDAPERF	624	610
DCDAPGSV	970	
DCDAPIOC	620	
DCDAPPL	AF0	0
DCDAPSTR	610	
DCDAPTIM	610	
DCDAR	8C4	
DCDARCCT	8D8	
DCDARCNT	8B8	
DCDARDTD	898	40
DCDARPS	878	
DCDARSV	AF0	
DCDARSV_KEYUSED_CONTROL	AF6	80
DCDARSV_PL_END	B68	B70
DCDARSV_XANSAREA_ADDR3164	B20	
DCDARSV_XANSAREA_ALET	B54	
DCDARSV_XANSLEN	B58	

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDARSV_XCOND_NO	0	1
DCDARSV_XCOND_YES	0	2
DCDARSV_XCONTENTIONACT_FAIL	AF4	20
DCDARSV_XCONTROL	AF3	
DCDARSV_XCONTROL_DO_NOT_OVERRIDE	AF5	10
DCDARSV_XCONTROL_EXCLUSIVE	AF3	2
DCDARSV_XCONTROL_SHARED	AF3	1
DCDARSV_XCONTROLVAL	AF3	
DCDARSV_XECB@	B5C	
DCDARSV_XENQMAX_NO	AF4	4
DCDARSV_XENQTOKEN_ADDR3164	B00	
DCDARSV_XENQTOKEN_ALET	B44	
DCDARSV_XENQTOKENTBL_ADDR3164	B10	
DCDARSV_XENQTOKENTBL_ALET	B4C	
DCDARSV_XFLAGS1	AF4	
DCDARSV_XFLAGS2	AF5	
DCDARSV_XFLAGS3	AF6	
DCDARSV_XFLAGS4	AF7	
DCDARSV_XNUMRES	B64	
DCDARSV_XOWNINGTTOKEN	B30	
DCDARSV_XQNAME	B28	
DCDARSV_XQNAME_DO_NOT_OVERRIDE	AF4	1
DCDARSV_XREQUEST_CHANGE	0	2
DCDARSV_XREQUEST_OBTAIN	0	1
DCDARSV_XREQUEST_RELEASE	0	3
DCDARSV_XRESERVEVOLUME_YES	AF5	80
DCDARSV_XRESLIST_YES	AF4	8
DCDARSV_XRESTABLE_ADDR3164	AF8	
DCDARSV_XRESTABLE_ALET	B40	
DCDARSV_XRETURNTABLE_ADDR3164	B08	
DCDARSV_XRETURNTABLE_ALET	B48	
DCDARSV_XRNAME_ADDR3164	B18	
DCDARSV_XRNAME_ALET	B50	
DCDARSV_XRNAME_DO_NOT_OVERRIDE	AF5	1
DCDARSV_XRNAMELEN	B66	
DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	AF6	1
DCDARSV_XRNL_DO_NOT_OVERRIDE	AF5	4
DCDARSV_XRNL_NO	AF4	2
DCDARSV_XRSVNNNN	B68	
DCDARSV_XRSV0000	AF1	
DCDARSV_XRSV0001	B67	
DCDARSV_XSCOPE	AF2	
DCDARSV_XSCOPE_DO_NOT_OVERRIDE	AF5	8
DCDARSV_XSCOPE_STEP	AF2	1
DCDARSV_XSCOPE_SYSPLEX	AF2	3
DCDARSV_XSCOPE_SYSTEM	AF2	2

Table 147. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDARSV_XSCOPE_SYSTEMS	AF2	3
DCDARSV_XSCOPEVAL	AF2	
DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	AF5	2
DCDARSV_XSYNCHRES_NO	AF5	20
DCDARSV_XSYNCHRES_YES	AF5	40
DCDARSV_XTEST_YES	AF4	40
DCDARSV_XUCB@	B60	
DCDARSV_XUCB@_DO_NOT_OVERRIDE	AF7	1
DCDARSV_XVERSION	AF0	
DCDARSV_XWAITTYPE_ECB	AF4	10
DCDARSVL	B70	80
DCDARTCT	8D4	
DCDAR2ND	6A0	
DCDAR2ST	698	
DCDASAVE	8E0	
DCDATCAL	AF0	
DCDATRKC	860	
DCDATRKL	AFA	AF0
DCDAT1ND	690	
DCDAT1ST	688	
DCDAUCB	700	
DCDAUCBX	704	
DCDAULND	6D0	
DCDAULST	6C8	
DCDAVOL	734	
DCDAV64L	0	B0
DCDAWCB@	644	
DCDAWK16	630	
DCDAWORK	628	
DCDAWRND	6B0	
DCDAWRST	6A8	
DCDAWTRD	898	20
DCDAXTND	6F0	
DCDAXTST	6E8	
DCDA1ADJ	8C5	80
DCDA1INI	640	80
DCDA1STA	8C5	40
DCDA4KRC	874	
DCDA4KST	870	
DCDCMLST	73C	
DTE	0	
M00M1225	0	AF0
M00M1227	0	AF0

$DTECKVR information

$DTECKVR heading information

Common name: HASP Checkpoint Version DTE work area

Macro ID: $DTECKVR

DSECT name: DTE ($DTECKVR is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCKVLEN equate for the length of a checkpoint version DTE work area extension.

Created by: n/a
Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTECKVR field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint versions DTE.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.

Function: The HASP Checkpoint Version/APPLCOPY Subtask DTE work area, $DTECKVR, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask maintains one or more versions of the checkpoint data set for use by authorized programs. When attached, it determines which of the two modes of checkpoint maintenance are in operation. In a Checkpoint Version, a data space is established and versions are created and maintained. In an Application Copy (APPLCOPY), the checkpoint is serviced in extended common or private storage. Both types are serviced by the same subtask.

$DTECKVR mapping

Table 148. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint Version subtask work area ext.
1552	(610)	DBL WORD	8	DCKVTSMP	Time of last 'full' sampling
1552	(610)	X'8'	0	DCKVLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTECNV information

$DTECNV programming interface information

The following field is **NOT** programming interface information:

- DCNVDEBS

$DTECNV heading information

Common name: JCL Conversion subtask DTE work area

Macro ID: $DTECNV

DSECT name: DTE ($DTECNV is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCNVLEN equate for the length of a JCL conversion DTE extension.

Created by: $DTEDYN ATTACH, called from the JCL conversion JES2 processor to ATTACH its associated JCL conversion subtask. The subtask (and DTE) definitions are defined in the $DTETAB tables.

Pointed to by: The JPCEDTE field of the associated JCL conversion $PCE control block.
The $DTECNVT pointer in the $HCT control block, pointing into the $DTEORG/$DTELAST chain, to the first JCL conversion $DTE control block.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: This area is used serially by the JCL-conversion processor and its associated subtask. Other tasks can not use it.
The chain fields should only be managed by the JES2 main task $DTEDYN and subtask RAS facilities.

Function: The JCL-conversion subtask DTE work area DSECT, $DTECNV, describes the work area extension to the DTE for the JCL-conversion subtask. The mapping defines the fields after label DTEWORK.
There are one or more JCL-conversion processors, defined by $PCE control blocks, in a JES2 address space. Each one attaches a subtask. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to manage and communicate with its daughter tasks.

$DTECNV mapping

Table 149. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP CONVERSION SUBTASK WORK AREA
1552	(610)	ADDRESS	4	DCNVHCCT	HCCT address
1556	(614)	ADDRESS	4	DCNVCIP	CIPARM parm area address
1560	(618)	SIGNED	4	DCNVCIPL	and ALET to access
1564	(61C)	ADDRESS	4	DCNVCIW	31 bit CI work area address
1568	(620)	ADDRESS	4	DCNVCIWB	24 bit CI work area address
1572	(624)	ADDRESS	4	DCNVCICB	CICB for owning addr space (zero if JES2 subtask)
1576	(628)	SIGNED	4	DCNVSAVE(15)	ESTAE REGISTER SAVE AREA
1636	(664)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1640	(668)	ADDRESS	4	DCNVJCTA	Address of JCT buffer (See DCNVXJCT below for use in EXIT 6)
1640	(668)	X'5C'	0	DCNVLEN	"*-DTEWORK" LENGTH OF THE CNVT DTE DSECT

Table 150. Structure DCNVPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCNVPARM	, EXIT 6 parameter list
0	(0)	ADDRESS	4	DCNVUWAA	Address of user work area
4	(4)	ADDRESS	4	DCNVP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
8	(8)	ADDRESS	4	DCNVDTEA	Address of DTE
12	(C)	ADDRESS	4	DCNVXJCT	Address of JCT buffer
16	(10)	ADDRESS	4	DCNVCNMB	Address of converter message buffer

Table 151. Cross Reference for $DTECNV

Name	Offset	Hex Tag
DCNVCICB	624	
DCNVCIP	614	
DCNVCIPL	618	
DCNVCIW	61C	
DCNVCIWB	620	
DCNVCNMB	10	
DCNVDTEA	8	
DCNVHCCT	610	
DCNVJCTA	668	
DCNVLEN	668	5C
DCNVPARM	0	
DCNVP2A	4	
DCNVSAVE	628	
DCNVSJBP	664	
DCNVUWAA	0	
DCNVXJCT	C	
DTE	0	

$DTEEOM information

$DTEEOM heading information

Common name: HASP End of Memory DTE work area

Macro ID: $DTEEOM

DSECT name: DTE ($DTEEOM is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the EMSLEN equate for the length of a End of Memory DTE work area extension.

Created by: Created by $DTEDYN ATTACH during EOM PCE initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTEEOM field of the $HCT data area points into $DTEORG/$DTELAST chain to the End of Memory subtask DTEs.
EOMDTE of the $EOMWORK data area
See $DTE for other pointer fields that apply to all DTE types.

Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.

Function: The HASP End of Memory DTE work area, $DTEEOM, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask deals with SJBs on the End-of-Memory queue. JES2 resource cleanup is performed here. The SJB is placed on the work queue for this DTE by MVS EOM SSI support.

$DTEEOM mapping

Table 152. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	
1552	(610)	ADDRESS	4	EMSSJB	Address of SJB
1556	(614)	ADDRESS	4	EMSPCE	Address of our PCE
1560	(618)	DBL WORD	8	(0)	Ensure alignment
1560	(618)	X'8'	0	EMSLEN	"*-DTEWORK" Length of work area

$DTEIMG information

$DTEIMG programming interface information

$DTEIMG is a programming interface.

$DTEIMG heading information

Common name: HASPIMAG subtask DTE Work Area

Macro ID: $DTEIMG

DSECT name: DTE ($DTEIMG is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and DIMGLEN for the length of a HASPIMAG subtask DTE extension.

Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: DIMG origin begins at the DTE work area extension field DTEWORK. The HASPIMAG DTE chain head ($DTEIMAG) is located in the HCT.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: This work area is used serially by the HASPIMAG subtask. No special serialization is necessary.

Function: $DTEIMG maps DTE work area extension for HASPIMAG subtasks.
The mapping defines the fields after label DTEWORK.

$DTEIMG mapping

Table 153. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPIMAG DTE WORK AREA EXTENSION
1552	(610)	CHARACTER	8	DIMGNAME	NAME OF LOADED MODULE
1552	(610)	X'613'	0	DIMGBYT3	"DIMGNAME+3" IMAGE NAME PREFIX BYTE
1560	(618)	SIGNED	4	DIMGDCB	ADDRESS OF IMAGELIB DCB
1564	(61C)	SIGNED	4	DIMGBFAD	BUFFER ADDRESS FOR ESTAE
1568	(620)	SIGNED	4	DIMGABCC	ABEND COMP CODE FOR RETRY
1572	(624)	SIGNED	4	DIMGSDCB	ADDRESS OF PRT DCB FOR SETPRT
1576	(628)	CHARACTER	80	DIMGMSG	MESSAGE AREA
1656	(678)	BITSTRING	1	DIMGFLG1	IMAGE LOADER FLAG BYTE
1660	(67C)	ADDRESS	4	DIMGLOAD	ADDRESS OF EP OR DE PARAMETER
1664	(680)	ADDRESS	4		DCB ADDRESS PARAMETER
1668	(684)	ADDRESS	1		PARAMETER LIST FORMAT NUMBER
1669	(685)	ADDRESS	1		RESERVED
1670	(686)	BITSTRING	1		OPTIONS
1671	(687)	BITSTRING	1		OPTIONS
1672	(688)	ADDRESS	4		EXPLICIT LOAD, LOADPT, EXTINFO
1672	(688)	X'10'	0	DIMGLLEN	"*-DIMGLOAD" Length of parm list
		1...		DIMG1ABD	"B'10000000'" IMAGE LOADER ABEND FLAG
		.1..		DIMG1DEL	"B'01000000'" DELETE RTN FLAG IN ESTAE
1672	(688)	X'7C'	0	DIMGLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 154. Cross Reference for $DTEIMG

Name	Offset	Hex Tag
DIMGABCC	620	
DIMGBFAD	61C	
DIMGBYT3	610	613
DIMGDCB	618	
DIMGFLG1	678	
DIMGLEN	688	7C
DIMGLLEN	688	10
DIMGLOAD	67C	
DIMGMSG	628	
DIMGNAME	610	
DIMGSDCB	624	
DIMG1ABD	688	80
DIMG1DEL	688	40
DTE	0	

$DTEMIGR information

$DTEMIGR heading information

Common name: HASP Spool Migrator DTE Work Area

Macro ID: $DTEMIGR

DSECT name: DTE ($DTEMIGR is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and MGRLLEN for the length of a Spool Migrator Work Area DTE Extension.

Created by: Created by $DTEDYN ATTACH during JES2 spool migration. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTEMIG field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSMIGR DTE. See $DTE for other pointer fields that apply to all DTE types.

Serialization: This work area is used serially by the owning HOSMIGR subtask. No special serialization is necessary at this time.

Function: The Spool Migrator DTE work area DSECT, $DTEMIGR, defines a work area used a JES2 Spool Migrator Subtask (HOSMIGR).
The mapping defines the fields after label DTEWORK.
This mapping is only used to map DTEs with the value DTEIDMGR in the field DTESTID, indicating this DTE is a Spool Migrator Subtask DTE.

$DTEMIGR mapping

Table 155. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migrator work area
1552	(610)	CHARACTER	1	MGRSTART(0)	Start of MGR mapping
1552	(610)	ADDRESS	4	MGPSTSPL	Address of XECB subtask will post when work is complete.

```
SPOL PCE drives the migration:
Migration request flag - only set by SPOL PCE
The SPOL PCE waits for the following operations to
complete. Each should be very quick.
 -- Migration initialization
 -- Migration cancel start
 -- Migration un-initiation
but not:
 -- Perform phase 1 (SPOL PCE monitors completion)
 -- Perform phase 2 " " "
 -- Migration cancel (SPOL PCE monitors completion)
```

1556	(614)	BITSTRING	1	MGR1REQU	Migration request
		....		MGR1NORE	"X'00'" No active request
		.... .1..		MGR1INIT	"X'04'" Migration initialization
		.... 1...		MGR1PHA1	"X'08'" Perform phase 1
		.... 11..		MGR1PHA2	"X'0C'" Perform phase 2
		...1		MGR1UNIN	"X'10'" Migration un-initialization
		...1 .1..		MGR1CANC	"X'14'" Migration cancel

```
Subtask error flag 1: Set by migrator subtask.
for interpretation by SPOL PCE.
```

1557	(615)	BITSTRING	1	MG1ERFL1	Subtask error flag 1 - set by subtask for SPOL information/action.
		1...		MG1ERABN	"B'10000000'" Sub-task ABENDed

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MG1MGBAD	"B'01000000'" MG$VOLSER mailbox could not be created.
		..1.		MG1RNBAD	"B'00100000'" RN$VOLSER mailbox could not be created.
		...1		MG1BITMB	"B'00010000'" Track level bitmap(s) could not be created.
		.... 1...		MGATTACH	"B'00001000'" Attach of unique XCF group failed.
		HOSPMIGR subtask waits on a ECBLIST. This subtask has the responsibility of moving data from source to target. The ECBs in the list funnel both: -- Requests made of the subtask (via SPOL PCE) -- and acknowledgements of requests which the HOSPMIGR subtask has outstanding. This subtask is driven by the SPOL PCE and the migration state kept in the source DAS. Start of ECB list			
1560	(618)	SIGNED	4	MGECBLST(0)	List of ECBs to wait on
1560	(618)	ADDRESS	4	MGSPOLP	Address of work ECB. Handles posts/requests from SPOL PCE.
1564	(61C)	SIGNED	4	MGECBLS2(0)	Start ECB for cancel
1564	(61C)	ADDRESS	4	MGGENERP	Address of ECB for general timer. Posted when set time interval expires.
1568	(620)	ADDRESS	4	MGHEARTP	Address of ECB for heart beat timer. Used to broadcast migrator info on a timely basis and check for excessive waits.
1572	(624)	ADDRESS	4	MGMGVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from spool assistant subtasks. Mail box name - MG$VOLSER.
1576	(628)	ADDRESS	4	MGRNVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from MAS member runtime I/O. Mailbox name - RN$VOLSER.
1580	(62C)	ADDRESS	4	MGRNIOP	Address of ECB for I/O I/O completion processing. This ECB is posted when a call to MIGRCOPY is needed.
1584	(630)	ADDRESS	4	MGRNXRQP	Address of ECB for I/O permission completion. This ECB is posted when an XREQ is added to the completed XREQ queue.
		End of ECB list			
1588	(634)	BITSTRING	4	MGRNOCMP	Current "memb active table" used to track acknowledgements from migration assistant members. Used to track ACKS for following phase transitions. -- Start phase 1 -- Start phase 2 -- End migration -- Cancel migration
1592	(638)	BITSTRING	4	MGRMGSTS	Current "memb active table" used to broadcast migr status message to migration assistants
1596	(63C)	BITSTRING	4	MGACTCPY	Copy of original "member @Z21AQ active table" used to @Z21AQ broadcast messages to migration assistants. Used for DIAG.
1600	(640)	SIGNED	4	MGEXITID	Unique exit ID for $MSTNTFY service

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HOSPMIGR timer stuff			
1604	(644)	SIGNED	4	MGGENERE	ECB - Phase 1 and cancel general purpose timer
1608	(648)	SIGNED	4	MGGENEID	STIMERM ID=id-area of general purpose timer
1612	(64C)	SIGNED	4	MGHEARTE	ECB - Heart beat timer
1616	(650)	SIGNED	4	MGHEARID	STIMERM ID=id-area of heart beat timer
		End timer stuff			
1620	(654)	SIGNED	4	(0)	Ensure alignment
1624	(658)	DBL WORD	8	MGRWRKA	Work area 1
1632	(660)	SIGNED	4	MGRWRKB	Work area 2
1636	(664)	ADDRESS	4	MGSRMOBJ	Temporary holding area for migration object address
		Following is used to cut selective WTO when source and/or target datasets are lost during phase 1 or phase 2 processing.			
1640	(668)	BITSTRING	1	MGPATHL	Path lost indicator
		1...		MGPATHS	"B'10000000'" Path to SRC dataset lost
		.1..		MGPATHT	"B'01000000'" Path to TARG dataset lost
		..1.		MGPRERR	"B'00100000'" Recovery TLBM read error
		...1		MGPWTLB	"B'00010000'" TLBM write error
1641	(669)	BITSTRING	3		Reserved for future use
		Excessive wait accumalator - 1/100 sec granularity			
1644	(66C)	SIGNED	2	MGEWAIT	Wait time
1646	(66E)	BITSTRING	2		Reserved for future use
1648	(670)	SIGNED	4	(7)	Reserved for future use
		Migration specific information (General info)			
1676	(68C)	BITSTRING	1	MGRFLG3	Migration specifics
		1...		MGR3MER	"B'10000000'" Migration is a merge
		.1..		MGR3MOV	"B'01000000'" Migration is a move
		..1.		MGRNOCA	"B'00100000'" Migration cannot be cancelled.
		...1		MGR3CANC	"B'00010000'" Migration is being cancelled.
		.... 1...		MGR3CACK	"B'00001000'" Cancel ACK has been recv'ed from all assistants.
		Phase 1 status flags - phase 1 is complete when all conditions are satisfied.			
1677	(68D)	BITSTRING	1	MGRFLG4	Phase 1 status flags
		1...		MGR4COPY	"B'10000000'" Source to target copy is complete

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MGR4PH1A	"B'01000000'" All migration assistants have acknowledge start of phase 1 processing
		..1.		MGR4WAIS	"B'00100000'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		Phase 2 status flags - phase 2 is complete when all conditions are satisfied.			
1678	(68E)	BITSTRING	1	MGRFLG5	Phase 2 status flags
		1...		MGR5PH2A	"B'10000000'" All migration assistants have acknowledged start of phase 2 processing
		.1..		MGR5CATC	"B'01000000'" Source to target catchup is complete
		..1.		MGR5COMP	"B'00100000'" All migration assistants have acknowledged successfuli migration completion.
		...1		MGR5CLER	"B'00010000'" RN$VOLSER mailbox has been cleared in SMGPHAS2 and/or SMGCANCE subroutine.
		.... 1...		MGR5WAIT	"B'00001000'" Phase 2 final wait is complete.
		.... .1..		MGR5WAIS	"B'00000100'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		.... ..1.		MGR5TSET	"B'00000010'" Phase 2 final timer has been set.
		1		MGR5TLBM	"B'00000001'" TLBM has been written
		Phase 2 status flag - second status flag all conditions are satisfied.			
1679	(68F)	BITSTRING	1	MGRFLG52	Phase 2 - second status flg
		1...		MGR52PER	"B'10000000'" Permanent I/O error was was encountered and WTOR presented to operator. ForceConplete was selected so do not ask user again.
		.1..		MGR5CACK	"B'01000000'" Phase 2 was called in recovery/resume mode and determined migation is not cancellable. Phase 2 resumes operation
		Cancellation status flags - cancellation is complete when all conditions are satisfied.			
1680	(690)	BITSTRING	1	MGRFLG6	Phase 1 status flags
		1...		MGR6TSET	"B'10000000'" Cancel final timer has been set.
1681	(691)	BITSTRING	1	MGRPERCE	Percent complete
		Source dataset information -- Set by SPOL PCE after HOSPMIGR is attached and before subtask initiation request. -- Move and merge.			
1682	(692)	CHARACTER	6	MGRSRVOL	Source volser
1688	(698)	BITSTRING	1	MGRSREXT	Binary extent number
1692	(69C)	SIGNED	4	(0)	Ensure alignment

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1692	(69C)	BITSTRING	1	MGRSRDEB	Source DEB
1692	(69C)	X'69C'	0	MGRSRDBB	"MGRSRDEB,DEBBASIZ" DEB basic
1692	(69C)	X'6BC'	0	MGRSRDBE	"MGRSRDEB+DEBBASIZ,DEBEXLEN" Single DA extent
1740	(6CC)	BITSTRING	64	MGRSRRPS	RPS Table for source
1804	(70C)	ADDRESS	4	MGRSRDAS	Source DAS address
		Bitmap information for source dataset. -- The following fields are set during subtask initiation. -- Valid for move and merge. Bitmaps. - Phase 1 bitmap denotes which tracks need be migrated from source to target. Bitmap is primed by with used tracks by SPOl PCE in DAS7SET2 (move) or DAS7SET3 (merge). This map is used for initial source to target copy. 1 bit -> 1 track. - Runtime bitmap - used to tally which tracks have changed since the migration begin. Map is used in phase 2 in determining which tracks must be re-migrated or caught up.			
1808	(710)	DBL WORD	8	(0)	Ensure alignment
1808	(710)	ADDRESS	8	MGRSBITA	Address of phase 1 bitmap in 64 bit private.
1816	(718)	ADDRESS	8	MGRSBITB	Address of runtime bitmap in 64 bit private.
1824	(720)	SIGNED	4	MGRSBTRK	Track capacity of bitmap
1828	(724)	SIGNED	4	MGRSBITR	Number of records needed to store the track level bitmap (MGRSBITB)
1832	(728)	SIGNED	4	MGRNUMRQ	Total number of tracks which must be migrated for this migration.
1836	(72C)	SIGNED	4	MGRNUMMG	Number of tracks that have been migrated
1840	(730)	SIGNED	4	MGRMIGRC	Number of tracks required on target dataset to house master level bitmap and other migrator recovery data.
1844	(734)	SIGNED	4	MGRSBTAS	Relative track at which the track level bitmap starts on target volume
1848	(738)	ADDRESS	4	MGRBMHDR	Header areas for runtime bitmap (one entry per record written to SPOOL)
1852	(73C)	SIGNED	4	MGRBMHDL	Length of MGRBMHDR workarea
		Source dataset track level information. All fields are relevant for move and merge.			
1856	(740)	SIGNED	4	(0)	Ensure alignment
1856	(740)	SIGNED	4	MGASRCST	Absolute track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1860	(744)	SIGNED	4	MGRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing.
1864	(748)	SIGNED	4	MGASRCHI	Highwater track - last ABSOLUTE source track which needs to be written. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1868	(74C)	SIGNED	4	MGRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
1872	(750)	SIGNED	4	MGRSRTRC	Tracks per cylinder
		Source DAS TG information - Move and Merge			
1876	(754)	SIGNED	4	MGRSRBYT	Original number of source TGM bytes.
1880	(758)	SIGNED	4	MGRHITG	Source DAS TG associated with highwater mark.
		Source DAS record level information - Move and merge.			
1884	(75C)	SIGNED	4	MGRSRECT	Number of records per track
		Other source dataset information			
1888	(760)	BITSTRING	1	MGRSRINF	Info
		1...		MGRALLOC	"B'10000000'" Migrator allocated SRC DAS dataset in phase DAS7SET1. Will need to be deallocated in phase DAS7CLUP (backout or non-backout caller). Set by SPOL PCE during phase DAS7SET1.
		.1..		MGRSRREL	"B'01000000'" Source DAS addressing type is relative. If not set then type is absolute.
		..1.		MGRSECKD	"B'00100000'" Extent is on ECKD device
		...1		MGRSRDTD	"B'00010000'" Extent supports read track data CCW
		.... 1...		MGRSWTRD	"B'00001000'" Extent supports write track data CCW
		Following fields are used if the source dataset must be deallocated in phase DAS7CLU1. This would be required if the source DAS was inactive state. This state is denoted by MGRSRINF = MGRALLOC.			
1889	(761)	BITSTRING	32	MGRENQTK	ISGENQ token - Set by SPOL PCE - phase DAS7SET1.
1924	(784)	SIGNED	4	(0)	Ensure alignment
		End of source dataset information Target dataset information -- Move and merge. SPOL PCE sets all target information before phase 1 start. Set at size verification time in phase DAS7SET2 or DAS7SET3.			
1924	(784)	CHARACTER	6	MGRTGVOL	Target volser. Set by SPOL PCE after HOSPMIGR is attached.
1930	(78A)	BITSTRING	1	MGRTGEXT	BINARY EXTENT NUMBER
1932	(78C)	SIGNED	4	(0)	Ensure alignment DATA CONTROL BLOCK
1932	(78C)	SIGNED	4	MGRDCBMF(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1932	(78C)	ADDRESS	4		DCBE ADDRESS
1936	(790)	BITSTRING	12		FDAD, DVTBL
1948	(79C)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1952	(7A0)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1953	(7A1)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1956	(7A4)	ADDRESS	2		BUFL, BUFFER LENGTH
1958	(7A6)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1960	(7A8)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1964	(7AC)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1965	(7AD)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1968	(7B0)	BITSTRING	1		RECFM (RECORD FORMAT)
1969	(7B1)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1972	(7B4)	CHARACTER	8		DDNAME
1980	(7BC)	BITSTRING	1		OFLGS (OPEN FLAGS)
1981	(7BD)	BITSTRING	1		IFLGS (IOS FLAGS)
1982	(7BE)	BITSTRING	2		MACR (MACRO FORMAT)
DATA CONTROL BLOCK EXTENSION.					
1984	(7C0)	SIGNED	4	MGRDCBE(0)	0 Alignment and identifier
1988	(7C4)	SIGNED	2		4 Length of DCBE, minimum is 56
1990	(7C6)	BITSTRING	2		6 Reserved, should be zero
1992	(7C8)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1996	(7CC)	BITSTRING	4		C Disk address of current member
2000	(7D0)	BITSTRING	1		10 Flags set by system
2001	(7D1)	BITSTRING	1		11 Flags set by user
2002	(7D2)	SIGNED	2		12 Number of stripes if extended format
2004	(7D4)	BITSTRING	1		14 Flags set by user
2005	(7D5)	BITSTRING	3		15 Reserved
2008	(7D8)	BITSTRING	4		18 Reserved
2012	(7DC)	ADDRESS	4		1C Block size
2016	(7E0)	BITSTRING	8		20 Reserved & number of blocks in ds
2024	(7E8)	ADDRESS	4		28 End of data routine address or 0
2028	(7EC)	ADDRESS	4		2C I/O error routine (synchronous) or 0
2032	(7F0)	BITSTRING	6		30 Reserved, should be zero
2038	(7F6)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
2038	(7F6)	X'78C'	0	MGRDCB	"MGRDCBMF,*-MGRDCBMF" DCB/DCBE length
2040	(7F8)	BITSTRING	1	MGRTGDEB	Target DEB. Set by SPOL PCE when available.
2040	(7F8)	X'7F8'	0	MGRTGDBB	"MGRTGDEB,DEBBASIZ" DEB basic
2040	(7F8)	X'818'	0	MGRTGDBE	"MGRTGDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2088	(828)	BITSTRING	64	MGRTGRPS	RPS Table for this device Set by SPOL PCE when available.
Target dataset track level information. All fields are relevant for move and merge.					

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2152	(868)	SIGNED	4	MGATGSTR	Absolute track at which target dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2156	(86C)	SIGNED	4	MGATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2160	(870)	SIGNED	4	MGRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2164	(874)	SIGNED	4	MGRTGTRK	Number of tracks in target dataset. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2168	(878)	SIGNED	4	MGRTGTRC	Tracks per cylinder
2172	(87C)	SIGNED	4	MGRTDAST	Target DASSTRK value
	Target TGM information				
2176	(880)	SIGNED	4	MGATGTTG	Tracks per TG. Set by SPOL PCE in DAS7SET2 or DAS7SET3. Valid for move and merge.
2180	(884)	SIGNED	4	MGRTGTG	Number of TGs in target
2184	(888)	SIGNED	4	MGRTGBYT	Number of bytes in target TGM. Only move.
2188	(88C)	SIGNED	4	MGRTGSTT	Start TG reserved in target DAS TGM for pending migration. This is one based. Valid for merge only.
2192	(890)	SIGNED	4	MGRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
	Target DAS record level information - Move and merge.				
2196	(894)	SIGNED	4	MGRTRECT	Number of records per track
	Other target dataset information				
2200	(898)	BITSTRING	1	MGRTGINF	Info
		1...		MGRTECKD	"B'10000000'" Extent is on ECKD device
		.1..		MGRTRDTD	"B'01000000'" Extent supports read track data CCW
		..1.		MGRTWTRD	"B'00100000'" Extent supports write track data CCW
		...1		MGRTSRPS	"B'00010000'" Device supports RPS
	End of target dataset information Migration recovery section - these fields are set by MIGRRECV (Migration recovery) and DADMSET1 in recovery mode. MIGRRECV calls DADMSET1 to jump start the recovery. Mailbox discussion: MG$VOLSER and RN$VOLSER - Normal migration - when creating mailboxes - both are cleared to assure we don't pickup stale messages. - Recovery -- FULL-RECOVERY (see below). This would be single member warm OR hot start. Here we do not clear these mailboxes since our member was the original migrator. -- MIGRATOR-RECOVERY (see below). Our member is becoming the migrator on behalf of another member. Such as migrator-takeover. Here we clear the mailboxes to assure no stale messages.				

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2201	(899)	BITSTRING	1	MGRRECOV	Info
		1...		MGMEMREC	"B'10000000'" Migration recovery is being performed.
		.1..		MGMEMCAN	"B'01000000'" Recovery action is to cancel current phase - represented by SRC DAS7PHAS.
		..1.		MGFULL	"B'00100000'" FULL-RECOVERY. Given source DAS - our member becomes migrator and our migration assistant is also initialized.
		...1		MGMIGRAT	"B'00010000'" MIGRATOR-RECOVERY. Given source DAS our member becomes migrator. Our migration assistant is OK.
		.... 1...		MGASSIST	"B'00001000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
		.... .1..		MGABEND	"B'00000100'" Migrator DTE ABEND recovery
		End - Migration recovery section Subtask status If subtask I/O error - them MGRSERR is set so SPOL PCE subroutine DADMPHA1 or DASMPHA2 may cut the appropriate message.			
2202	(89A)	BITSTRING	1	MGRSERR	Phase 1-2 subtask error id
		Migration subtask work state. MGR3TSTAT is current work being performed by the subtask - this is more granular than MGR1REQU. Some of these states may be materializable via the $DSPL command. Only set by the subtask and may be interpeted by SPOL PCE. Some general statements here: need not be repeated below: -- When subtask sends messages to migration assistants the MGMECUR - current members up table is used on the broadcast meesage. -- The MIGR$ASST mailbox is used to send broadcast messages to migration assistant subtask(s). -- When waiting for ACKS from spool assistant subtask -- the migration subtask waits on MG$VOLSER mailbox.			
2203	(89B)	BITSTRING	1	MGR3STAT	Current subtask work state
		....		MGR3NOST	"X'00'" No active state.
		.... .1..		MGR3INIT	"X'04'" Migration initiation: Migration subtask is creating source level track bitmaps, MG$VOLSER and RN$VOLSER mailboxes.
		.... 1...		MGR3AWP1	"X'08'" Migration initiation complete -- awaiting start of phase 1 from SPOL PCE.
		.... 11..		MGR3AW01	"X'0C'" Phase 1: start Broadcast phase 1 start message to all migration assistants. Actively handling I/O permission requests.
		...1		MGR3COPY	"X'10'" Phase 1: copy All phase 1 ACKs were received. Performing source to target dataset copy. Actively handling I/O permission requests.
		...1 .1..		MGR3AWP2	"X'14'" Subtask has completed phase 1 and is waiting for start of phase 2. SPOL PCE will eventually request phase 2 start. Subtask is still actively processing "IO permission" requests

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 1...		MGR3PER2	"X'18'" Phase 2: Cancellable Broadcast phase 2 start message to all migration assistants. Waiting ACKs. Not processing I/O permission messages.
		...1 11..		MGR3PERN	"X'1C'" Phase 2: Non-cancellable All ACKs received - subtask is performing copy catch-up and handling I/O permission messages.
		..1.		MGR3ENDR	"X'20'" Migration end message has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..1. .1..		MGR3ENDC	"X'24'" Migration end complete Subtask waiting for request from SPOL PCE.
		..1. 1...		MGR3REQC	"X'28'" Migrator has run into an error and migration must be cancelled. Awaiting SPOL PCE to inititate cancel.
		..1. 11..		MGR3CNCL	"X'2C'" Migration cancel msg has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..11		MGR3CNCM	"X'30'" Migration cancellation complete. Subtask waiting for request from SPOL PCE.
		..11 .1..		MGR3P2CM	"X'34'" Phase2 complete
		..11 1...		MGR3UNIT	"X'38'" Migration termination: Track bitmaps, MG$VOLSER and RN$VOLSER mailboxes are deallocated.
		End Subtask status Migration copy service work areas			
2208	(8A0)	ADDRESS	8	MGRIBUFR	Address of buffer work area
2216	(8A8)	DBL WORD	8	MGRIBUFP	Number of 4K pages in area
2224	(8B0)	DBL WORD	8	MGRIWTKN	IARV64 memory token
2232	(8B8)	SIGNED	4	MGRIBUFC	Number of buffers built
2236	(8BC)	SIGNED	4	MGRI31WL	Length of 31 bit CCW area
2240	(8C0)	ADDRESS	4	MGRI24WK	24 bit I/O work area
2244	(8C4)	BITSTRING	1	MGRIFLG1	Migration copy I/O flags
		1...		MGRI1SRC	"B'10000000'" I/O error on source
		.1..		MGRI1TRG	"B'01000000'" I/O error on target
2245	(8C5)	BITSTRING	3		Reserved
		Buffers move from the free chain, to the active read chain when EXCP read is started. When read completed they are moved to the pending write chain. Once the the EXCP write is started, the buffer moves to the write chain. Once the write completes it is returned to the free chain.			
2248	(8C8)	ADDRESS	8	MGRIFREE	Free track buffers
2256	(8D0)	ADDRESS	8	MGRIREAD	Active read buffers
2264	(8D8)	ADDRESS	8	MGRIPEND	Pending write buffers
2272	(8E0)	ADDRESS	8	MGRIWRIT	Active write buffers
2280	(8E8)	ADDRESS	4	MGRIBATI	Address of BAT(s) for read
2284	(8EC)	ADDRESS	4	MGRIBATO	Address of BAT(s) for write

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2288	(8F0)	ADDRESS	8	MGRIBITM	Current bit map to use
2296	(8F8)	SIGNED	4	MGRILTRK	Last track read (-1=>done)
2304	(900)	DBL WORD	8	MGRIWORK	General work area
2312	(908)	SIGNED	4	MGRIECB	I/O request ECB (Call MIGRCOPY when posted)
		Write track level bitmap (MIGRTLBW) work areas			
2316	(90C)	ADDRESS	4	MGRWBSTR	Work area used by service
2320	(910)	SIGNED	4	MGRWBSTL	Length of work area
		I/O permission XREQ queues New XREQs permission requests should be added to MGRIXRQW using $FIFOENQ (CHAIN=XRETCHAN-XREQ). These are pocessed by MIGRCOPY (moved to the MGRIXRQA stack while active). Once the I/O completes, the XREQs are added to the MGRIXRQC and MGRIXRQE ECB is posted. XREQs on the MGRIXRQC queue should be removed with $FIFODEQ (CHAIN=XRETCHAN-XREQ) and ACKed using JESXCF.			
2328	(918)	DBL WORD	8	MGRIXRQW(0)	XREQs pending
2328	(918)	ADDRESS	4	MGRIXRQF	chain
2332	(91C)	ADDRESS	4	MGRIXRQB	(managed by $FIFOENQ)
2336	(920)	ADDRESS	4	MGRIXRQA	XREQs active in I/O
2344	(928)	DBL WORD	8	MGRIXRQC(0)	Completed XREQ
2344	(928)	ADDRESS	4	MGRIXRCF	chain
2348	(92C)	ADDRESS	4	MGRIXRCB	(managed by $FIFOENQ)
2352	(930)	SIGNED	4	MGRIXRQE	Completed XREQ ECB
		Mailbox information: MG$VOLSER: Spool migration mail box - handles ACKS from migrations subtasks and also other information sent during phase 1 and 2. Note: VOLSER uniquely ties this mailbox to a migration. One per migration. RN$VOLSER: Runtime mailbox - RN$VOLSER -- Handles runtime "IO permission" requests in phase 1 and 2. Note: VOLSER uniquely identifies this mailbox from a migration perspective.			
2356	(934)	BITSTRING	1	MGMAILST	Mailbox info
		1...		MGMG_CRT	"B'10000000'" MG$VOLSER has been created
		.1..		MGRN_CRT	"B'01000000'" RN$VOLSER has been created
		..1.		MGATTH	"B'00100000'" Migrator performed attach of unique XCF group and must also perform detach
2357	(935)	CHARACTER	16	MGMGVOLS	Note: last 6 characters must be volser name.
2373	(945)	CHARACTER	16	MGRNTIME	Note: last 6 characters must be volser name.
2389	(955)	CHARACTER	8	MGGROUP	Note: migration XCF group name. Note: XXX is source DASEXTNO in printable decimal.
2397	(95D)	CHARACTER	16	MGRMEMNM	Member name - used for attach of XCF group
2416	(970)	SIGNED	4	MGJDIAG	JESXCF service diag area

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2420	(974)	ADDRESS	4	MGGRPTKN	JESXCF group token used for MG$VOLSER and RN$VOLSER mailbox creation
2424	(978)	SIGNED	4	MGRBOX1	ECB - MG$VOLSER mailbox.
2428	(97C)	SIGNED	4	MGRBOX2	ECB - RN$VOLSER mailbox.
2432	(980)	ADDRESS	4	MGRSENDA	Address of send buffer used for $XBCAST and also "I/O permission" message ACK response.
2436	(984)	SIGNED	4	MGRSENDL	Length of message to send
2440	(988)	ADDRESS	4	MGRXBUFA	Address of received data
2444	(98C)	SIGNED	4	MGRXBUFL	Received message length
2448	(990)	ADDRESS	4	MGRASSSN	Address of send buffer for MIGR$ASST mailbox.
2452	(994)	SIGNED	4	MGR#IOCM	When subroutine SMGIOPER is called this is the maximum number of I/O permission messages to process.
2456	(998)	ADDRESS	1	MGRBTYPE	Broadcast type See $XREQ - XREQINFO XREQPHA1 - phase 1 start XREQPHA2 - phase 2 start XREQCNCL - cancel complete XREQEND - end migration
2464	(9A0)	DBL WORD	8	MGRXTOKN	Current XCF message token
		MACDATE = 08/19/88			
2472	(9A8)	BITSTRING	24	MGRSTMST	REMOTE STIMERM SET PARM LIST
2472	(9A8)	X'18'	0	MGRSTMSL	"*-MGRSTMST" List form length
		Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)			
2496	(9C0)	BITSTRING	1	MGRMFPRM	SPMINIFM parameter list
		Migration timing/count statistics Phase specific times (micro-seconds) and counts			
2528	(9E0)	DBL WORD	8	MGRTINTT	Init phase time (micro)
2536	(9E8)	DBL WORD	8	MGRTSETT	Setup phase time (micro)
2544	(9F0)	DBL WORD	8	MGRTCPYT	Copy phase time (micro)
2552	(9F8)	SIGNED	4	MGRTCPYC	Copy phase track count
2556	(9FC)	SIGNED	4	MGRTCPYM	Copy phase message count
2560	(A00)	DBL WORD	8	MGRTCUPT	Catchup phase time (micro)
2568	(A08)	SIGNED	4	MGRTCUPC	Catchup phase track count
2572	(A0C)	SIGNED	4	MGRTCUPM	Catchup phase message count
2576	(A10)	DBL WORD	8	MGRTCLNT	Cleanup phase time (micro)
2584	(A18)	DBL WORD	8	MGRTNEWT	STCK time migration started
2592	(A20)	DBL WORD	8	MGRTOVRT	Overall time for migration (SMCNEW to success msg)
2600	(A28)	DBL WORD	8	MGRTSTRT(2)	Current phase start STCKE
2616	(A38)	SIGNED	4	MGRTMSGC	I/O permission msg count
2620	(A3C)	SIGNED	4		Reserved
		List form macros for JESXCF and other services			
2624	(A40)	DBL WORD	8	(0)	
2624	(A40)	BITSTRING	200	MGRIXLST	JESXCF list form macros

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2824	(B08)	DBL WORD	8	MGRIXEND(0)	End of list form area
------- IXZXIXAT MF=(L,MGRXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'A40'	0	M00M1224	"MGRXIXAT" ++ IXZXIXAT NAME
2624	(A40)	DBL WORD	8	MGRXIXAT(0)	++ IXZXIXAT PARM LIST
2624	(A40)	BITSTRING	1	MGRXIXAT_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXAT_XEYECATCH	++ CONSTANT
2631	(A47)	CHARACTER	1	MGRXIXAT_XRSV0001	++ RESERVED
2632	(A48)	CHARACTER	8	MGRXIXAT_XGROUP	++
2640	(A50)	CHARACTER	16	MGRXIXAT_XMEMBER	++
2656	(A60)	CHARACTER	8	MGRXIXAT_XRELEASE	++
2664	(A68)	SIGNED	4	MGRXIXAT_XMAINTLVL	++ CONSTANT
2668	(A6C)	SIGNED	4	MGRXIXAT_XGROUPTOKEN	++
2672	(A70)	BITSTRING	1	MGRXIXAT_XFLAG1	++ FIELD_LABEL
		1...		MGRXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		MGRXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		MGRXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		MGRXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		MGRXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		MGRXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		MGRXIXAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
2673	(A71)	BITSTRING	1	MGRXIXAT_XFLAG2	++ FIELD_LABEL
		1...		MGRXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		MGRXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
2674	(A72)	CHARACTER	2	MGRXIXAT_XRSV0002	++ RESERVED
2676	(A74)	SIGNED	4	MGRXIXAT_XDIAG	++
2680	(A78)	CHARACTER	8	MGRXIXAT_XLINKPARMS	++ FIELD_LABEL
2680	(A78)	X'40'	0	MGRXIXATL	"*-MGRXIXAT" ++ LENGTH OF PLIST
IXZXIXAT-6					
2688	(A80)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXAC MF=(L,MGRXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'A40'	0	M00M1226	"MGRXIXAC" ++ IXZXIXAC NAME
2624	(A40)	DBL WORD	8	MGRXIXAC(0)	++ IXZXIXAC PARM LIST
2624	(A40)	BITSTRING	1	MGRXIXAC_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2631	(A47)	BITSTRING	1	MGRXIXAC_XSTB	++ INPUT
		1...		MGRXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MGRXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2632	(A48)	BITSTRING	8	MGRXIXAC_XMSGTOKEN	++ XMSGTOKEN
2640	(A50)	ADDRESS	4	MGRXIXAC_XDATA	++ XDATA
2644	(A54)	SIGNED	4	MGRXIXAC_XDATALEN	++ XDATALEN
2648	(A58)	SIGNED	4	MGRXIXAC_XUSERRC	++ XUSERRC
2652	(A5C)	SIGNED	4	MGRXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2656	(A60)	SIGNED	4	MGRXIXAC_XSYSRC	++ XSYSRC
2660	(A64)	SIGNED	4	MGRXIXAC_XSYSRSN	++ XSYSRSN
2664	(A68)	BITSTRING	1	MGRXIXAC_XKEYS	++ FIELD_LABEL
		1...		MGRXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		MGRXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		MGRXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		MGRXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		MGRXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2665	(A69)	BITSTRING	1	MGRXIXAC_XMSGATTR	++ INPUT
		1...		MGRXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		MGRXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2665	(A69)	X'2A'	0	MGRXIXACL	"*-MGRXIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
2666	(A6A)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMC MF=(L,MGRXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2666	(A6A)	SIGNED	2	M00M1227(0)	IXZXIXMC-1
2672	(A70)	DBL WORD	8	MGRXIXMC(0)	++ IXZXIXMC PARM LIST
2672	(A70)	BITSTRING	1	MGRXIXMC_XVERSION	++ INPUT XVERSION
2673	(A71)	CHARACTER	6	MGRXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2679	(A77)	BITSTRING	1	MGRXIXMC_XSTB	++ INPUT
		1...		MGRXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2680	(A78)	CHARACTER	16	MGRXIXMC_XMBOXNAME	++ XMBOXNAME
2696	(A88)	SIGNED	4	MGRXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2696	(A88)	X'1C'	0	MGRXIXMCL	"*-MGRXIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
2700	(A8C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,MGRXIXMB) Create mailbox MACDATE -93/05/10-<1>					
2624	(A40)	SIGNED	2	M00M1228(0)	IXZXIXMB-1
2624	(A40)	DBL WORD	8	MGRXIXMB(0)	++ IXZXIXMB PARM LIST

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2624	(A40)	BITSTRING	1	MGRXIXMB_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2631	(A47)	CHARACTER	1	MGRXIXMB_XRSV0001	++ RESERVED XRSV0001
2632	(A48)	CHARACTER	16	MGRXIXMB_XMBOXNAME	++ XMBOXNAME
2648	(A58)	ADDRESS	4	MGRXIXMB_XPOSTXIT	++ XPOSTXIT
2652	(A5C)	ADDRESS	4	MGRXIXMB_XPOSTDATA	++ XPOSTDATA
2656	(A60)	SIGNED	4	MGRXIXMB_XPOSTALET	++ XPOSTALET
2660	(A64)	SIGNED	4	MGRXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2664	(A68)	BITSTRING	1	MGRXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		MGRXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		MGRXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2664	(A68)	X'29'	0	MGRXIXMBL	"*-MGRXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
2666	(A6A)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,MGRXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2624	(A40)	SIGNED	2	M00M1229(0)	IXZXIXMD-1
2624	(A40)	DBL WORD	8	MGRXIXMD(0)	++ IXZXIXMD PARM LIST
2624	(A40)	BITSTRING	1	MGRXIXMD_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2631	(A47)	BITSTRING	1	MGRXIXMD_XSTB	++ INPUT
		1...		MGRXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2632	(A48)	CHARACTER	16	MGRXIXMD_XMBOXNAME	++ XMBOXNAME
2648	(A58)	SIGNED	4	MGRXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2648	(A58)	X'1C'	0	MGRXIXMDL	"*-MGRXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
2652	(A5C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXDT MF=(L,MGRXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
0	(0)	X'A40'	0	M00M1230	"MGRXIXDT" ++ IXZXIXDT NAME
2624	(A40)	DBL WORD	8	MGRXIXDT(0)	++ IXZXIXDT PARM LIST
2624	(A40)	BITSTRING	1	MGRXIXDT_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
2631	(A47)	CHARACTER	1	MGRXIXDT_XRSV0001	++ RESERVED XRSV0001
2632	(A48)	ADDRESS	4	MGRXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
2636	(A4C)	CHARACTER	8	MGRXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
2636	(A4C)	X'14'	0	MGRXIXDTL	"*-MGRXIXDT" ++ LENGTH OF PLIST
				IXZXIXDT-1	
2644	(A54)	ADDRESS	2	(0)	Ensure area fits

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXRM MF=(L,MGRXIXRM) Receive message MACDATE -93/05/10-<1>					
2624	(A40)	SIGNED	2	M00M1231(0)	IXZXIXRM-1
2624	(A40)	DBL WORD	8	MGRXIXRM(0)	++ IXZXIXRM PARM LIST
2624	(A40)	BITSTRING	1	MGRXIXRM_XVERSION	++ INPUT XVERSION
2625	(A41)	CHARACTER	6	MGRXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2631	(A47)	CHARACTER	1	MGRXIXRM_XRSV0001	++ RESERVED XRSV0001
2632	(A48)	CHARACTER	16	MGRXIXRM_XMBOXNAME	++ XMBOXNAME
2648	(A58)	ADDRESS	4	MGRXIXRM_XDATA	++ XDATA
2652	(A5C)	SIGNED	4	MGRXIXRM_XDATALEN	++ XDATALEN
2656	(A60)	BITSTRING	8	MGRXIXRM_XMSGTOKEN	++ XMSGTOKEN
2664	(A68)	SIGNED	4	MGRXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2668	(A6C)	BITSTRING	1	MGRXIXRM_XMSGFETCH	++ INPUT
		1...		MGRXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		MGRXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		MGRXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		MGRXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2669	(A6D)	BITSTRING	1	MGRXIXRM_XKEYS	++ FIELD_LABEL
		1...		MGRXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2669	(A6D)	X'2E'	0	MGRXIXRML	"*-MGRXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
2670	(A6E)	ADDRESS	2	(0)	Ensure area fits
------- IARV64 MF=(L,MGRIR64L),PLISTVER=MAX IARV64 list form MACDATE -03/01/19-<6>					
0	(0)	X'A40'	0	M00M1232	"MGRIR64L" ++ IARV64 NAME
2624	(A40)	DBL WORD	8	MGRIR64L(0)	++ IARV64 PARM LIST
2624	(A40)	BITSTRING	1	MGRIR64L_XVERSION	++ INPUT XVERSION
2625	(A41)	BITSTRING	1	MGRIR64L_XREQUEST	++ XREQUEST
2625	(A41)	X'1'	0	MGRIR64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2625	(A41)	X'2'	0	MGRIR64L_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2625	(A41)	X'3'	0	MGRIR64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2625	(A41)	X'4'	0	MGRIR64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2625	(A41)	X'5'	0	MGRIR64L_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2625	(A41)	X'6'	0	MGRIR64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2625	(A41)	X'7'	0	MGRIR64L_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2625	(A41)	X'8'	0	MGRIR64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2625	(A41)	X'9'	0	MGRIR64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2625	(A41)	X'A'	0	MGRIR64L_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2625	(A41)	X'B'	0	MGRIR64L_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2625	(A41)	X'C'	0	MGRIR64L_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2625	(A41)	X'D'	0	MGRIR64L_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2625	(A41)	X'E'	0	MGRIR64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2625	(A41)	X'F'	0	MGRIR64L_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2625	(A41)	X'10'	0	MGRIR64L_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2625	(A41)	X'11'	0	MGRIR64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2625	(A41)	X'12'	0	MGRIR64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2626	(A42)	BITSTRING	1	MGRIR64L_XFLAGS0	++ FIELD_LABEL
		1...		MGRIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		MGRIR64L_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		MGRIR64L_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2627	(A43)	BITSTRING	1	MGRIR64L_XKEY	++
2628	(A44)	BITSTRING	1	MGRIR64L_XFLAGS1	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		MGRIR64L_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		MGRIR64L_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		MGRIR64L_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		MGRIR64L_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		MGRIR64L_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		MGRIR64L_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		MGRIR64L_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2629	(A45)	BITSTRING	1	MGRIR64L_XFLAGS2	++ FIELD_LABEL

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		MGRIR64L_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		MGRIR64L_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		MGRIR64L_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		MGRIR64L_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		MGRIR64L_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		MGRIR64L_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		MGRIR64L_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		MGRIR64L_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2630	(A46)	BITSTRING	1	MGRIR64L_XFLAGS3	++ FIELD_LABEL
		1...		MGRIR64L_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		MGRIR64L_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		MGRIR64L_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		MGRIR64L_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		MGRIR64L_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		MGRIR64L_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		MGRIR64L_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		MGRIR64L_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2631	(A47)	BITSTRING	1	MGRIR64L_XFLAGS4	++ FIELD_LABEL
		1...		MGRIR64L_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		MGRIR64L_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		MGRIR64L_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		MGRIR64L_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		MGRIR64L_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		MGRIR64L_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		MGRIR64L_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		MGRIR64L_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2632	(A48)	DBL WORD	8	MGRIR64L_XSEGMENTS	++
2640	(A50)	CHARACTER	16	MGRIR64L_XTTOKEN	++
2656	(A60)	DBL WORD	8	MGRIR64L_XUSERTKN	++
2664	(A68)	ADDRESS	8	MGRIR64L_XORIGIN	++

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2672	(A70)	ADDRESS	8	MGRIR64L_XRANGLIST	++
2680	(A78)	ADDRESS	8	MGRIR64L_XMEMOBJSTART	++
2688	(A80)	SIGNED	4	MGRIR64L_XGUARDSIZE	++
2692	(A84)	SIGNED	4	MGRIR64L_XCONVERTSIZE	++
2696	(A88)	SIGNED	4	MGRIR64L_XALETVALUE	++
2700	(A8C)	SIGNED	4	MGRIR64L_XNUMRANGE	++
2704	(A90)	ADDRESS	4	MGRIR64L_XV64LISTPTR	++
2708	(A94)	SIGNED	4	MGRIR64L_XV64LISTLENGTH	++
2712	(A98)	DBL WORD	8	MGRIR64L_XCONVERTSTART	++
2720	(AA0)	DBL WORD	8	MGRIR64L_XCONVERTSIZE64	++
2728	(AA8)	DBL WORD	8	MGRIR64L_XGUARDSIZE64	++
2736	(AB0)	CHARACTER	8	MGRIR64L_XUSERTOKEN	++
2744	(AB8)	BITSTRING	1	MGRIR64L_XDUMPPRIORITY	++
2745	(AB9)	BITSTRING	1	MGRIR64L_XFLAGS5	++ FIELD_LABEL
		1...		MGRIR64L_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		MGRIR64L_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		MGRIR64L_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		MGRIR64L_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		MGRIR64L_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		MGRIR64L_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		MGRIR64L_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		MGRIR64L_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2746	(ABA)	BITSTRING	1	MGRIR64L_XFLAGS6	++ FIELD_LABEL
		1...		MGRIR64L_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		MGRIR64L_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		MGRIR64L_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		MGRIR64L_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		MGRIR64L_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		MGRIR64L_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		MGRIR64L_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		MGRIR64L_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2747	(ABB)	BITSTRING	1	MGRIR64L_XFLAGS7	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		MGRIR64L_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		MGRIR64L_KEYUSED_SVCDUMPRGN	
					"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		MGRIR64L_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		MGRIR64L_XATTRIBUTE_OWNERGONE	
					"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		MGRIR64L_XATTRIBUTE_NOTOWNERGONE	
					"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		MGRIR64L_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		MGRIR64L_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2748	(ABC)	BITSTRING	1	MGRIR64L_XDUMP	++ XDUMP
2748	(ABC)	X'0'	0	MGRIR64L_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
2748	(ABC)	X'1'	0	MGRIR64L_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2748	(ABC)	X'2'	0	MGRIR64L_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2748	(ABC)	X'3'	0	MGRIR64L_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2748	(ABC)	X'20'	0	MGRIR64L_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2748	(ABC)	X'21'	0	MGRIR64L_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2748	(ABC)	X'FF'	0	MGRIR64L_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2749	(ABD)	BITSTRING	1	MGRIR64L_XFLAGS8	++ FIELD_LABEL
		1...		MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	
					"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	
					"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		MGRIR64L_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		MGRIR64L_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		MGRIR64L_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		MGRIR64L_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		MGRIR64L_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		1		MGRIR64L_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2750	(ABE)	BITSTRING	2	MGRIR64L_XOWNERASID	++
2752	(AC0)	BITSTRING	1	MGRIR64L_XOPTIONVALUE	++
2753	(AC1)	CHARACTER	8	MGRIR64L_XRSV0001	++ RESERVED
2761	(AC9)	CHARACTER	8	MGRIR64L_XOWNERJOBNAME	++
2769	(AD1)	CHARACTER	7	MGRIR64L_XRSV0004	++ RESERVED
2776	(AD8)	ADDRESS	8	MGRIR64L_XDMAPAGETABLE	++
2784	(AE0)	DBL WORD	8	MGRIR64L_XUNITS	++
2792	(AE8)	BITSTRING	1	MGRIR64L_XFLAGS9	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		MGRIR64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		MGRIR64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		MGRIR64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		MGRIR64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		MGRIR64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2793	(AE9)	BITSTRING	1	MGRIR64L_XFLAGS10	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		MGRIR64L_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		MGRIR64L_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
2794	(AEA)	CHARACTER	6	MGRIR64L_XRSV0005	++ RESERVED
2794	(AEA)	X'AF0'	0	MGRIR64L_PL_END	"*" ++ END OF BASE PLIST
2656	(A60)	DBL WORD	8	MGRIR64L_XOUTMOTKN	++
2656	(A60)	DBL WORD	8	MGRIR64L_XMOTKN	++
2680	(A78)	ADDRESS	8	MGRIR64L_XINORIGIN	++
2800	(AF0)	X'B0'	0	MGRIR64LL	"*-MGRIR64L" ++ LENGTH OF PLIST
				IARV64-6	
2800	(AF0)	ADDRESS	8	MGRIRNGL(0)	Range list for PAGEFIX
2800	(AF0)	ADDRESS	8	MGRIRNGA	Address of area to fix
2808	(AF8)	DBL WORD	8	MGRIRNGP	Number of pages to fix
2808	(AF8)	X'A40'	0	MGRIAR64	"MGRIR64L,*-MGRIR64L" IARV64 MF=L symbol/length
2816	(B00)	ADDRESS	2	(0)	Ensure area fits
2824	(B08)	X'610'	0	MGRCLEAR	"MGRSTART" Area to be zeroed
2824	(B08)	X'4F8'	0	MGRLLEN	"*-DTEWORK" Length of work area

Table 156. Cross Reference for $DTEMIGR

Name	Offset	Hex Tag
DTE	0	
MGABEND	899	4
MGACTCPY	63C	
MGASRCHI	748	
MGASRCST	740	
MGASSIST	899	8
MGATGSTR	868	
MGATGTTG	880	
MGATGWRT	86C	
MGATTACH	615	8
MGATTH	934	20
MGECBLST	618	
MGECBLS2	61C	
MGEWAIT	66C	
MGEXITID	640	
MGFULL	899	20

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGGENEID	648	
MGGENERE	644	
MGGENERP	61C	
MGGROUP	955	E2E8E2D4
MGGRPTKN	974	
MGHEARID	650	
MGHEARTE	64C	
MGHEARTP	620	
MGJDIAG	970	
MGMAILST	934	
MGMEMCAN	899	40
MGMEMREC	899	80
MGMG_CRT	934	80
MGMGVOLP	624	
MGMGVOLS	935	E2E8E2D1
MGMIGRAT	899	10
MGPATHL	668	
MGPATHS	668	80
MGPATHT	668	40
MGPRERR	668	20
MGPSTSPL	610	
MGPWTLB	668	10
MGR#IOCM	994	
MGRALLOC	760	80
MGRASSSN	990	
MGRBMHDL	73C	
MGRBMHDR	738	
MGRBOX1	978	
MGRBOX2	97C	
MGRBTYPE	998	
MGRCLEAR	B08	610
MGRDCB	7F6	78C
MGRDCBE	7C0	C4C3C2C5
MGRDCBMF	78C	
MGRENQTK	761	
MGRFLG3	68C	
MGRFLG4	68D	
MGRFLG5	68E	
MGRFLG52	68F	
MGRFLG6	690	
MGRHITG	758	
MGRIAR64	AF8	A40
MGRIBATI	8E8	
MGRIBATO	8EC	
MGRIBITM	8F0	
MGRIBUFC	8B8	

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIBUFP	8A8	
MGRIBUFR	8A0	
MGRIECB	908	
MGRIFLG1	8C4	
MGRIFREE	8C8	
MGRILTRK	8F8	
MGRIPEND	8D8	
MGRIREAD	8D0	
MGRIRNGA	AF0	
MGRIRNGL	AF0	
MGRIRNGP	AF8	
MGRIR64L	A40	
MGRIR64L_KEYUSED_CONVERTSIZE64	A44	4
MGRIR64L_KEYUSED_CONVERTSTART	A44	10
MGRIR64L_KEYUSED_DUMP	ABB	80
MGRIR64L_KEYUSED_GUARDSIZE64	A44	8
MGRIR64L_KEYUSED_INORIGIN	AE9	80
MGRIR64L_KEYUSED_KEY	A44	80
MGRIR64L_KEYUSED_MOTKN	A44	2
MGRIR64L_KEYUSED_OPTIONVALUE	ABB	40
MGRIR64L_KEYUSED_OWNERJOBNAME	A44	1
MGRIR64L_KEYUSED_SVCDUMPRGN	ABB	20
MGRIR64L_KEYUSED_TTOKEN	A44	20
MGRIR64L_KEYUSED_UNITS	AE8	80
MGRIR64L_KEYUSED_USERTKN	A44	40
MGRIR64L_PL_END	AEA	AF0
MGRIR64L_XAFFINITY_SYSTEM	A46	40
MGRIR64L_XALETVALUE	A88	
MGRIR64L_XAMOUNTSIZE_1MEG	ABA	2
MGRIR64L_XAMOUNTSIZE_4K	ABA	4
MGRIR64L_XATTRIBUTE_DEFS	ABB	10
MGRIR64L_XATTRIBUTE_NOTOWNERGONE	ABB	4
MGRIR64L_XATTRIBUTE_OWNERGONE	ABB	8
MGRIR64L_XCHANGEACCESS_GLOBAL	A45	8
MGRIR64L_XCLEAR_NO	A47	40
MGRIR64L_XCOND_YES	A45	80
MGRIR64L_XCONTROL_AUTH	A45	20
MGRIR64L_XCONVERT_FROMGUARD	A47	2
MGRIR64L_XCONVERT_TOGUARD	A47	4
MGRIR64L_XCONVERTSIZE	A84	
MGRIR64L_XCONVERTSIZE64	AA0	
MGRIR64L_XCONVERTSTART	A98	
MGRIR64L_XDETACHFIXED_YES	ABA	20
MGRIR64L_XDISCARDPAGES_YES	0	4
MGRIR64L_XDMAPAGETABLE	AD8	
MGRIR64L_XDOAUTHCHECKS_YES	ABA	10

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XDUMP	ABC	
MGRIR64L_XDUMP_ALL	ABC	FF
MGRIR64L_XDUMP_LIKECSA	ABC	3
MGRIR64L_XDUMP_LIKELSQA	ABC	21
MGRIR64L_XDUMP_LIKERGN	ABC	20
MGRIR64L_XDUMP_LIKESQA	ABC	2
MGRIR64L_XDUMP_NO	ABC	1
MGRIR64L_XDUMP_NONE	ABC	0
MGRIR64L_XDUMPPRIORITY	AB8	
MGRIR64L_XDUMPPROTOCOL_YES	AB9	80
MGRIR64L_XEXECUTABLE_NO	0	1
MGRIR64L_XEXECUTABLE_YES	0	2
MGRIR64L_XFLAGS0	A42	
MGRIR64L_XFLAGS1	A44	
MGRIR64L_XFLAGS10	AE9	
MGRIR64L_XFLAGS2	A45	
MGRIR64L_XFLAGS3	A46	
MGRIR64L_XFLAGS4	A47	
MGRIR64L_XFLAGS5	AB9	
MGRIR64L_XFLAGS6	ABA	
MGRIR64L_XFLAGS7	ABB	
MGRIR64L_XFLAGS8	ABD	
MGRIR64L_XFLAGS9	AE8	
MGRIR64L_XFPROT_NO	A45	40
MGRIR64L_XGUARDLOC_HIGH	A45	10
MGRIR64L_XGUARDSIZE	A80	
MGRIR64L_XGUARDSIZE64	AA8	
MGRIR64L_XINORIGIN	A78	
MGRIR64L_XKEEPREAL_NO	A47	1
MGRIR64L_XKEY	A43	
MGRIR64L_XLOCALSYSAREA_YES	ABA	8
MGRIR64L_XLONG_NO	A47	80
MGRIR64L_XMATCH_MOTOKEN	A42	20
MGRIR64L_XMATCH_USERTOKEN	A46	80
MGRIR64L_XMEMLIMIT_COND	ABA	1
MGRIR64L_XMEMLIMIT_NO	ABA	40
MGRIR64L_XMEMOBJSTART	A78	
MGRIR64L_XMOTKN	A60	
MGRIR64L_XMOTKNCREATOR_SYSTEM	A42	40
MGRIR64L_XMOTKNSOURCE_SYSTEM	A42	80
MGRIR64L_XNUMRANGE	A8C	
MGRIR64L_XOPTIONVALUE	AC0	
MGRIR64L_XORDER_DUMPPRIORITY	AB9	40
MGRIR64L_XORIGIN	A68	
MGRIR64L_XOUTMOTKN	A60	
MGRIR64L_XOWNER_NO	A46	10

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XOWNERASID	ABE	
MGRIR64L_XOWNERCOM_BYASID	AB9	1
MGRIR64L_XOWNERCOM_HOME	AB9	8
MGRIR64L_XOWNERCOM_PRIMARY	AB9	4
MGRIR64L_XOWNERCOM_SYSTEM	AB9	2
MGRIR64L_XOWNERJOBNAME	AC9	
MGRIR64L_XPAGEFRAMESIZE_ALL	A45	1
MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	0	40
MGRIR64L_XPAGEFRAMESIZE_MAX	A45	2
MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	ABD	80
MGRIR64L_XPAGEFRAMESIZE_1M	AE8	10
MGRIR64L_XPAGEFRAMESIZE_1MEG	A45	4
MGRIR64L_XPAGEFRAMESIZE_2G	AE8	8
MGRIR64L_XRANGLIST	A70	
MGRIR64L_XREQUEST	A41	
MGRIR64L_XREQUEST_CHANGEACCESS	A41	B
MGRIR64L_XREQUEST_CHANGEGUARD	A41	D
MGRIR64L_XREQUEST_COUNTPAGES	A41	10
MGRIR64L_XREQUEST_DETACH	A41	3
MGRIR64L_XREQUEST_DISCARDDATA	A41	7
MGRIR64L_XREQUEST_GETCOMMON	A41	F
MGRIR64L_XREQUEST_GETSHARED	A41	2
MGRIR64L_XREQUEST_GETSTOR	A41	1
MGRIR64L_XREQUEST_LIST	A41	E
MGRIR64L_XREQUEST_PAGEFIX	A41	4
MGRIR64L_XREQUEST_PAGEIN	A41	8
MGRIR64L_XREQUEST_PAGEOUT	A41	6
MGRIR64L_XREQUEST_PAGEUNFIX	A41	5
MGRIR64L_XREQUEST_PCIEFIX	A41	11
MGRIR64L_XREQUEST_PCIEUNFIX	A41	12
MGRIR64L_XREQUEST_PROTECT	A41	9
MGRIR64L_XREQUEST_SHAREMEMOBJ	A41	A
MGRIR64L_XREQUEST_UNPROTECT	A41	C
MGRIR64L_XRSV0001	AC1	
MGRIR64L_XRSV0004	AD1	
MGRIR64L_XRSV0005	AEA	
MGRIR64L_XSADMP_NO	0	10
MGRIR64L_XSADMP_YES	0	20
MGRIR64L_XSEGMENTS	A48	
MGRIR64L_XSENSITIVE_NO	AE9	20
MGRIR64L_XSENSITIVE_YES	AE9	40
MGRIR64L_XSVCDUMPRGN_ALL	A46	1
MGRIR64L_XSVCDUMPRGN_NO	A46	4
MGRIR64L_XTRACKINFO_YES	ABB	2
MGRIR64L_XTTOKEN	A50	
MGRIR64L_XTYPE_DREF	AB9	10

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XTYPE_FIXED	AE8	4
MGRIR64L_XTYPE_PAGEABLE	AB9	20
MGRIR64L_XUNITS	AE0	
MGRIR64L_XUNITSIZE_1M	AE8	40
MGRIR64L_XUNITSIZE_2G	AE8	20
MGRIR64L_XUNLOCKED_YES	ABB	1
MGRIR64L_XUSERTKN	A60	
MGRIR64L_XUSERTOKEN	AB0	
MGRIR64L_XUSE2GTO32G_YES	A46	20
MGRIR64L_XUSE2GTO64G_YES	0	8
MGRIR64L_XVERSION	A40	
MGRIR64L_XVIEW_HIDDEN	A47	8
MGRIR64L_XVIEW_READONLY	A47	20
MGRIR64L_XVIEW_SHAREDWRITE	A47	10
MGRIR64L_XV64COMMON_NO	ABA	80
MGRIR64L_XV64LISTLENGTH	A94	
MGRIR64L_XV64LISTPTR	A90	
MGRIR64L_XV64SELECT_NO	A46	8
MGRIR64L_XV64SHARED_NO	A46	2
MGRIR64LL	AF0	B0
MGRIWORK	900	
MGRIWRIT	8E0	
MGRIWTKN	8B0	
MGRIXEND	B08	
MGRIXLST	A40	
MGRIXRCB	92C	
MGRIXRCF	928	
MGRIXRQA	920	
MGRIXRQB	91C	
MGRIXRQC	928	
MGRIXRQE	930	
MGRIXRQF	918	
MGRIXRQW	918	
MGRI1SRC	8C4	80
MGRI1TRG	8C4	40
MGRI24WK	8C0	
MGRI31WL	8BC	
MGRLLEN	B08	4F8
MGRMEMNM	95D	
MGRMFPRM	9C0	
MGRMGSTS	638	
MGRMIGRC	730	
MGRN_CRT	934	40
MGRNIOP	62C	
MGRNOCA	68C	20
MGRNOCMP	634	

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRNTIME	945	E2E8E2D1
MGRNUMMG	72C	
MGRNUMRQ	728	
MGRNVOLP	628	
MGRNXRQP	630	
MGRPERCE	691	
MGRRECOV	899	
MGRSBITA	710	
MGRSBITB	718	
MGRSBITR	724	
MGRSBTAS	734	
MGRSBTRK	720	
MGRSECKD	760	20
MGRSENDA	980	
MGRSENDL	984	
MGRSERR	89A	
MGRSRBYT	754	
MGRSRCST	744	
MGRSRDAS	70C	
MGRSRDBB	69C	69C
MGRSRDBE	69C	6BC
MGRSRDEB	69C	
MGRSRDTD	760	10
MGRSRECT	75C	
MGRSREXT	698	0
MGRSRINF	760	
MGRSRREL	760	40
MGRSRRPS	6CC	0
MGRSRTRC	750	
MGRSRTRK	74C	
MGRSRVOL	692	
MGRSTART	610	
MGRSTMSL	9A8	18
MGRSTMST	9A8	0
MGRSWTRD	760	8
MGRTCLNT	A10	
MGRTCPYC	9F8	
MGRTCPYM	9FC	
MGRTCPYT	9F0	
MGRTCUPC	A08	
MGRTCUPM	A0C	
MGRTCUPT	A00	
MGRTDAST	87C	
MGRTECKD	898	80
MGRTGBYT	888	
MGRTGDBB	7F8	7F8

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRTGDBE	7F8	818
MGRTGDEB	7F8	
MGRTGENT	890	
MGRTGEXT	78A	0
MGRTGINF	898	
MGRTGRPS	828	0
MGRTGSTT	88C	
MGRTGTG	884	
MGRTGTRC	878	
MGRTGTRK	874	
MGRTGVOL	784	
MGRTGWRT	870	
MGRTINTT	9E0	
MGRTMSGC	A38	
MGRTNEWT	A18	
MGRTOVRT	A20	
MGRTRDTD	898	40
MGRTRECT	894	
MGRTSETT	9E8	
MGRTSRPS	898	10
MGRTSTRT	A28	
MGRTWTRD	898	20
MGRWBSTL	910	
MGRWBSTR	90C	
MGRWRKA	658	0
MGRWRKB	660	
MGRXBUFA	988	
MGRXBUFL	98C	
MGRXIXAC	A40	
MGRXIXAC_KEYUSED_DATA	A68	80
MGRXIXAC_KEYUSED_DATALEN	A68	40
MGRXIXAC_KEYUSED_SYSRC	A68	10
MGRXIXAC_KEYUSED_SYSRSN	A68	8
MGRXIXAC_KEYUSED_USERRC	A68	20
MGRXIXAC_XDATA	A50	
MGRXIXAC_XDATALEN	A54	
MGRXIXAC_XEYECATCH	A41	
MGRXIXAC_XGROUPTOKEN	A5C	
MGRXIXAC_XKEYS	A68	
MGRXIXAC_XMSGATTR	A69	
MGRXIXAC_XMSGATTR_EXPRESS	A69	40
MGRXIXAC_XMSGATTR_J3CONNECT	A69	80
MGRXIXAC_XMSGTOKEN	A48	
MGRXIXAC_XSTB	A47	
MGRXIXAC_XSTB_NO	A47	80
MGRXIXAC_XSTB_YES	A47	40

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXAC_XSYSRC	A60	
MGRXIXAC_XSYSRSN	A64	
MGRXIXAC_XUSERRC	A58	
MGRXIXAC_XVERSION	A40	
MGRXIXACL	A69	2A
MGRXIXAT	A40	
MGRXIXAT_XDIAG	A74	
MGRXIXAT_XEYECATCH	A41	
MGRXIXAT_XFLAG1	A70	
MGRXIXAT_XFLAG2	A71	
MGRXIXAT_XGROUP	A48	
MGRXIXAT_XGROUPTOKEN	A6C	
MGRXIXAT_XJ3CONNECT_NO	A71	80
MGRXIXAT_XJ3CONNECT_YES	A71	40
MGRXIXAT_XLINKPARMS	A78	
MGRXIXAT_XMAINTLVL	A68	
MGRXIXAT_XMEMBER	A50	
MGRXIXAT_XRELEASE	A60	
MGRXIXAT_XRSV0001	A47	
MGRXIXAT_XRSV0002	A72	
MGRXIXAT_XVERSION	A40	
MGRXIXAT_XWHICHJES_COMMON	A70	8
MGRXIXAT_XWHICHJES_INIT	A70	10
MGRXIXAT_XWHICHJES_JES2	A70	80
MGRXIXAT_XWHICHJES_JES3	A70	40
MGRXIXAT_XWHICHJES_J2SPOOL	A70	2
MGRXIXAT_XWHICHJES_J3CIFSS	A70	4
MGRXIXAT_XWHICHJES_J3FSS	A70	20
MGRXIXATL	A78	40
MGRXIXDT	A40	
MGRXIXDT_XEYECATCH	A41	
MGRXIXDT_XGROUPTOKEN	A48	
MGRXIXDT_XLINKPARMS	A4C	
MGRXIXDT_XRSV0001	A47	
MGRXIXDT_XVERSION	A40	
MGRXIXDTL	A4C	14
MGRXIXMB	A40	
MGRXIXMB_XEYECATCH	A41	
MGRXIXMB_XGROUPTOKEN	A64	
MGRXIXMB_XMBOXNAME	A48	
MGRXIXMB_XPOSTALET	A60	
MGRXIXMB_XPOSTDATA	A5C	
MGRXIXMB_XPOSTXIT	A58	
MGRXIXMB_XRSV0001	A47	
MGRXIXMB_XSYSEVENT_NO	A68	40
MGRXIXMB_XSYSEVENT_YES	A68	80

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXMB_XSYSEVENTS	A68	
MGRXIXMB_XVERSION	A40	
MGRXIXMBL	A68	29
MGRXIXMC	A70	
MGRXIXMC_XEYECATCH	A71	
MGRXIXMC_XGROUPTOKEN	A88	
MGRXIXMC_XMBOXNAME	A78	
MGRXIXMC_XSTB	A77	
MGRXIXMC_XSTB_NO	A77	80
MGRXIXMC_XSTB_YES	A77	40
MGRXIXMC_XVERSION	A70	
MGRXIXMCL	A88	1C
MGRXIXMD	A40	
MGRXIXMD_XEYECATCH	A41	
MGRXIXMD_XGROUPTOKEN	A58	
MGRXIXMD_XMBOXNAME	A48	
MGRXIXMD_XSTB	A47	
MGRXIXMD_XSTB_NO	A47	80
MGRXIXMD_XSTB_YES	A47	40
MGRXIXMD_XVERSION	A40	
MGRXIXMDL	A58	1C
MGRXIXRM	A40	
MGRXIXRM_KEYUSED_MSGFETCH	A6D	80
MGRXIXRM_XDATA	A58	
MGRXIXRM_XDATALEN	A5C	
MGRXIXRM_XEYECATCH	A41	
MGRXIXRM_XGROUPTOKEN	A68	
MGRXIXRM_XKEYS	A6D	
MGRXIXRM_XMBOXNAME	A48	
MGRXIXRM_XMSGFETCH	A6C	
MGRXIXRM_XMSGFETCH_ACKS	A6C	10
MGRXIXRM_XMSGFETCH_ALL	A6C	80
MGRXIXRM_XMSGFETCH_MESSAGES	A6C	40
MGRXIXRM_XMSGFETCH_SYSEVENT	A6C	20
MGRXIXRM_XMSGTOKEN	A60	
MGRXIXRM_XRSV0001	A47	
MGRXIXRM_XVERSION	A40	
MGRXIXRML	A6D	2E
MGRXTOKN	9A0	
MGR1CANC	614	14
MGR1INIT	614	4
MGR1NORE	614	0
MGR1PHA1	614	8
MGR1PHA2	614	C
MGR1REQU	614	0
MGR1UNIN	614	10

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGR3AWP1	89B	8
MGR3AWP2	89B	14
MGR3AW01	89B	C
MGR3CACK	68C	8
MGR3CANC	68C	10
MGR3CNCL	89B	2C
MGR3CNCM	89B	30
MGR3COPY	89B	10
MGR3ENDC	89B	24
MGR3ENDR	89B	20
MGR3INIT	89B	4
MGR3MER	68C	80
MGR3MOV	68C	40
MGR3NOST	89B	0
MGR3PERN	89B	1C
MGR3PER2	89B	18
MGR3P2CM	89B	34
MGR3REQC	89B	28
MGR3STAT	89B	0
MGR3UNIT	89B	38
MGR4COPY	68D	80
MGR4PH1A	68D	40
MGR4WAIS	68D	20
MGR5CACK	68F	40
MGR5CATC	68E	40
MGR5CLER	68E	10
MGR5COMP	68E	20
MGR5PH2A	68E	80
MGR5TLBM	68E	1
MGR5TSET	68E	2
MGR5WAIS	68E	4
MGR5WAIT	68E	8
MGR52PER	68F	80
MGR6TSET	690	80
MGSPOLP	618	
MGSRMOBJ	664	
MG1BITMB	615	10
MG1ERABN	615	80
MG1ERFL1	615	
MG1MGBAD	615	40
MG1RNBAD	615	20
M00M1224	0	A40
M00M1226	0	A40
M00M1227	A6A	
M00M1228	A40	
M00M1229	A40	

Table 156. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
M00M1230	0	A40
M00M1231	A40	
M00M1232	0	A40

$DTEOFF information

$DTEOFF programming interface information

$DTEOFF is a programming interface.

$DTEOFF heading information

Common name: Spool Offload subtask DTE Work Area

Macro ID: $DTEOFF

DSECT name: DTE ($DTEOFF is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DOFWLEN equate for the length of a Spool offload DTE extension.

Created by: $DTEDYN ATTACH, called from the Spool Offload I/O manager JES2 processor to ATTACH the Spool Offload subtask for the Spool Offload in response to a $S command against a drained device. The subtask (and DTE) definitions are defined in the $DTETAB tables.

Pointed to by: The $DTEOFF field of the $HCT data area points into the $DTEORG/$DTELAST chain, to the first Spool Offload $DTE control block.
See $DTE for other pointer fields that apply to all DTE types.

Serialization: This area is used by the Spool-offload subtask. Other tasks can not use it.

Function: The Spool-offload subtask DTE work area DSECT, $DTEOFF, describes the work area extension to the DTE for that kind of subtask. The mapping defines the fields after label DTEWORK.
There is one Spool Offload I/O Manager PCE (defined by $PCE control block) in a JES2 address space. This $PCE attaches a spool offload subtask for each Spool Offload Device that is started via the $S command. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to communicate with its daughter tasks.

$DTEOFF mapping

Table 157. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPOFF DTE WORK AREA EXTENSION
1552	(610)	DBL WORD	8	DOFWSTRT(0)	
1552	(610)	X'4'	0	DOFOPENR	"04" SUB-TASK REQUEST CODE FOR OPEN

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1552	(610)	X'8'	0	DOFCLOSR	"08" SUB-TASK REQUEST CODE FOR CLOSE
1552	(610)	X'C'	0	DOFCHEKR	"12" SUB-TASK REQUEST CODE FOR CHECK DATA CONTROL BLOCK
1552	(610)	SIGNED	4	DOFDCBST(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1552	(610)	ADDRESS	4		
1556	(614)	BITSTRING	12		FDAD, DVTBL
1568	(620)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1572	(624)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1573	(625)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1576	(628)	ADDRESS	2		BUFL, BUFFER LENGTH
1578	(62A)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1580	(62C)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1584	(630)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1585	(631)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1588	(634)	BITSTRING	1		RECFM (RECORD FORMAT)
1589	(635)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1592	(638)	CHARACTER	8		DDNAME
1600	(640)	BITSTRING	1		OFLGS (OPEN FLAGS)
1601	(641)	BITSTRING	1		IFLGS (IOS FLAGS)
1602	(642)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1604	(644)	BITSTRING	1		OPTCD, OPTION CODES
1605	(645)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1608	(648)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1612	(64C)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1614	(64E)	ADDRESS	2		
1616	(650)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1620	(654)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1624	(658)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1625	(659)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1628	(65C)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1632	(660)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1634	(662)	ADDRESS	2		LRECL
1636	(664)	ADDRESS	4		CNTRL, NOTE, POINT
1636	(664)	X'610'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB
DATA CONTROL BLOCK EXTENSION.					
1640	(668)	SIGNED	4	DOFDCBES(0)	0 Alignment and identifier
1644	(66C)	SIGNED	2		4 Length of DCBE, minimum is 56
1646	(66E)	BITSTRING	2		6 Reserved, should be zero
1648	(670)	ADDRESS	4		8 0 if not open, OPEN points to DCB

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1652	(674)	BITSTRING	4		C Disk address of current member
1656	(678)	BITSTRING	1		10 Flags set by system
1657	(679)	BITSTRING	1		11 Flags set by user
1658	(67A)	SIGNED	2		12 Number of stripes if extended format
1660	(67C)	BITSTRING	1		14 Flags set by user
1661	(67D)	BITSTRING	3		15 Reserved
1664	(680)	BITSTRING	4		18 Reserved
1668	(684)	SIGNED	4		1C Block size
1672	(688)	BITSTRING	8		20 Reserved & number of blocks in ds
1680	(690)	ADDRESS	4		28 End of data routine address or 0
1684	(694)	ADDRESS	4		2C I/O error routine (synchronous) or 0
1688	(698)	BITSTRING	6		30 Reserved, should be zero
1694	(69E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
1694	(69E)	X'668'	0	DOFDCBE	"DOFDCBES,*-DOFDCBES" DEFINE BASE, LENGTH OF DCBE
1696	(6A0)	SIGNED	4	DOFDECB	EVENT CONTROL BLOCK
1700	(6A4)	BITSTRING	1		TYPE FIELD
1701	(6A5)	BITSTRING	1		TYPE FIELD
1702	(6A6)	ADDRESS	2		LENGTH
1704	(6A8)	ADDRESS	4		DCB ADDRESS
1708	(6AC)	ADDRESS	4		AREA ADDRESS
1712	(6B0)	ADDRESS	4		RECORD POINTER WORD
OFFLOAD DATA SET HEADER RECORD					
1716	(6B4)	BITSTRING	80	DOFHDBUF	OFFLOAD DATASET HEADER RECORD
1716	(6B4)	ADDRESS	1	DOFHVRSN	VERSION NUMBER
1716	(6B4)	X'2'	0	DOFHVRS1	"2" Current version number
1717	(6B5)	BITSTRING	3		RESERVED
1720	(6B8)	SIGNED	4	DOFHTIME	TIME VERIFICATION STAMP
1724	(6BC)	SIGNED	4	DOFHDATE	DATE VERIFICATION STAMP
1728	(6C0)	CHARACTER	8	DOFHNODE	Node name offload done on
1728	(6C0)	X'14'	0	DOFHDLEN	"*-DOFHVRSN" Length of header record
1736	(6C8)	ADDRESS	2	(0)	Generate assembly error if remapping is larger than base area
1736	(6C8)	SIGNED	4	(0)	
1736	(6C8)	ADDRESS	1	DOFABND	FLAGS FOR ESTAEX
1737	(6C9)	ADDRESS	1		SECOND FLAG BYTE
1738	(6CA)	ADDRESS	1		THIRD FLAG BYTE
1739	(6CB)	ADDRESS	1		VERSION NUMBER
1740	(6CC)	ADDRESS	4		TOKEN VALUE AREA
1744	(6D0)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
1748	(6D4)	ADDRESS	4		ALET FOR PARM LIST
1752	(6D8)	ADDRESS	4		FOUR BYTE EXIT ADDR

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		DYNAMIC ALLOCATE PARAMETER LIST			
1756	(6DC)	ADDRESS	4	DOFDAST	
1760	(6E0)	ADDRESS	1	DOFDARB	LENGTH OF RB
1761	(6E1)	ADDRESS	1		ALLOCATE VERB CODE
1762	(6E2)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1764	(6E4)	SIGNED	2	DOFDAERR(2)	ERROR AND INFO CODE
1768	(6E8)	ADDRESS	4	DOFDATPP	POINTER TO TU POINTERS
1772	(6EC)	ADDRESS	4		RESERVED
1776	(6F0)	ADDRESS	1	(4)	FLAGS 2 FIELD
1780	(6F4)	ADDRESS	4	DOFDATP1	
1784	(6F8)	ADDRESS	4	DOFDATP2	
1788	(6FC)	ADDRESS	4	DOFDATP3	
1792	(700)	ADDRESS	4	DOFDATP4	
1796	(704)	ADDRESS	4	DOFDATP5	
1800	(708)	ADDRESS	4	DOFDATP6	
1804	(70C)	ADDRESS	4	DOFDATP7	
1808	(710)	ADDRESS	4	DOFDATP8	
1812	(714)	ADDRESS	4	DOFDATP9	
1816	(718)	ADDRESS	4	DOFDATPA	
1820	(71C)	ADDRESS	4	DOFDATPB	
1824	(720)	ADDRESS	2	DOFDATU1	DSN=
1830	(726)	CHARACTER	44	DOFDADSN	.....
1874	(752)	ADDRESS	2	DOFDATU2	
1880	(758)	BITSTRING	1	DOFDADSP	DISP=OLD
1881	(759)	ADDRESS	2	DOFDATU3	RETURN DD NAME
1887	(75F)	CHARACTER	8	DOFDADDN	
1895	(767)	ADDRESS	2	DOFDATU4	UNITCT=
1901	(76D)	ADDRESS	1	DOFDAUCT	NN
1902	(76E)	ADDRESS	2	DOFDATU5	DISP=CATLG
1909	(775)	ADDRESS	2	DOFDATU6(3)	UNIT=
1915	(77B)	CHARACTER	8	DOFDAUNI	NAME (FROM XDCTUNIT)
1923	(783)	ADDRESS	2	DOFDATU7(3)	VOLUME COUNT
1929	(789)	ADDRESS	1	DOFDAVOL	MAXIMUM VOLUMES = 255
1930	(78A)	ADDRESS	2	DOFDATU8(3)	LABEL=
1936	(790)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1937	(791)	ADDRESS	2	DOFDATU9(3)	RETENTION PERIOD
1943	(797)	ADDRESS	2	DOFDARPD	IN DAYS
1945	(799)	ADDRESS	2	DOFDATUA(2)	SAF PROTECTION OPTION
1949	(79D)	ADDRESS	2	DOFDATUB(2)	UNIT=(,,DEFER)
1953	(7A1)	CHARACTER	1	DOFDATNN(0)	End of text units
		DYNAMIC UN-ALLOCATE PARAMETER LIST			
1956	(7A4)	ADDRESS	4	DOFDUST	
1960	(7A8)	ADDRESS	1	DOFDURB	LENGTH OF RB

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1961	(7A9)	ADDRESS	1		UNALLOCATE VERB CODE
1962	(7AA)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1964	(7AC)	SIGNED	2	(2)	ERROR AND INFO CODE
1968	(7B0)	ADDRESS	4	DOFDUTPP	POINTER TO TU POINTERS
1972	(7B4)	ADDRESS	4		RESERVED
1976	(7B8)	ADDRESS	1	(4)	FLAGS 2 FIELD
1980	(7BC)	ADDRESS	4	DOFDUTP1	
1984	(7C0)	ADDRESS	2	DOFDUTU1	DD NAME
1990	(7C6)	CHARACTER	8	DOFDUDDN	
2000	(7D0)	SIGNED	4	DOFOPRM(0)	ALIGN LIST TO WORD
2000	(7D0)	ADDRESS	1		Option byte
2001	(7D1)	ADDRESS	3		DCB or ACB address
2004	(7D4)	SIGNED	4	DOFABDCC	ABEND COMPLETION CODE
2008	(7D8)	ADDRESS	4	DOFDCTPT	POINTER TO DCT FOR RECOVERY
2012	(7DC)	SIGNED	4	DOFWTECB	
		Pseudo-buffer area for SYNAD/EODAD exits to use for 80-byte header of offload data set. DOFFLAG maps to SPBFLAG1; DOFSYBUF is the origin which corresponds to the start of the buffer.			
2016	(7E0)	BITSTRING	1	DOFFLAG	FLAG FOR SYNAD ROUTINE
		1...		DOFSYNAD	"B'10000000'" I/O ERROR HAS OCCURED
		.1..		DOFEODAD	"B'01000000'" END OF DATA HAS OCCURED
2016	(7E0)	X'7BE'	0	DOFSYBUF	"DOFFLAG-(SPBFLAG1-BFPDSECT)" Beginning of pseudo-buffer
2017	(7E1)	BITSTRING	3		Reserved for future use
		Work area for messages issued from the offload subtask			
2020	(7E4)	SIGNED	4	(0)	
2020	(7E4)	SIGNED	4	DOFMSGA(0)	
2020	(7E4)	ADDRESS	2		TEXT LENGTH
2022	(7E6)	BITSTRING	2		MCSFLAGS
2024	(7E8)	ADDRESS	4		MESSAGE TEXT ADDRESS
2028	(7EC)	ADDRESS	1		VERSION LEVEL
2029	(7ED)	BITSTRING	1		MISCELLANEOUS FLAGS
2030	(7EE)	ADDRESS	1		REPLY LENGTH
2031	(7EF)	ADDRESS	1		LENGTH OF WPX
2032	(7F0)	BITSTRING	2		EXTENDED MCS FLAGS
2034	(7F2)	ADDRESS	2		RESERVED
2036	(7F4)	ADDRESS	4		REPLY BUFFER ADDRESS
2040	(7F8)	ADDRESS	4		REPLY ECB ADDRESS
2044	(7FC)	ADDRESS	4		CONNECT ID
2048	(800)	BITSTRING	2		DESCRIPTOR CODES
2050	(802)	ADDRESS	2		RESERVED
2052	(804)	BITSTRING	16		
2068	(814)	BITSTRING	2		MESSAGE TYPE

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2070	(816)	ADDRESS	2		MESSAGE'S PRIORITY
2072	(818)	CHARACTER	8		JOB ID
2080	(820)	CHARACTER	8		JOB NAME
2088	(828)	CHARACTER	8		RETRIEVAL KEY
2096	(830)	ADDRESS	4		TOKEN FOR DOM
2100	(834)	ADDRESS	4		CONSOLE ID
2104	(838)	CHARACTER	8		SYSTEM NAME
2112	(840)	CHARACTER	8		CONSOLE NAME
2120	(848)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
2124	(84C)	ADDRESS	4		CART ADDRESS
2128	(850)	ADDRESS	4		WSPARM ADDRESS
2128	(850)	X'70'	0	DOFMSGAL	"*-DOFMSGA"
2132	(854)	ADDRESS	2	DOFMSGL	
2134	(856)	CHARACTER	100	DOFMSG	
2134	(856)	X'2AA'	0	DOFWLEN	"*-DOFWSTRT"

Table 158. Cross Reference for $DTEOFF

Name	Offset	Hex Tag
DOFABDCC	7D4	
DOFABND	6C8	
DOFCHEKR	610	C
DOFCLOSR	610	8
DOFDADDN	75F	
DOFDADSN	726	
DOFDADSP	758	1
DOFDAERR	6E4	0
DOFDALBL	790	
DOFDARB	6E0	
DOFDARPD	797	
DOFDAST	6DC	
DOFDATNN	7A1	
DOFDATPA	718	
DOFDATPB	71C	
DOFDATPP	6E8	
DOFDATP1	6F4	
DOFDATP2	6F8	
DOFDATP3	6FC	
DOFDATP4	700	
DOFDATP5	704	
DOFDATP6	708	
DOFDATP7	70C	
DOFDATP8	710	
DOFDATP9	714	
DOFDATUA	799	
DOFDATUB	79D	

Table 158. Cross Reference for $DTEOFF (continued)

Name	Offset	Hex Tag
DOFDATU1	720	
DOFDATU2	752	
DOFDATU3	759	
DOFDATU4	767	
DOFDATU5	76E	
DOFDATU6	775	
DOFDATU7	783	
DOFDATU8	78A	
DOFDATU9	791	
DOFDAUCT	76D	
DOFDAUNI	77B	
DOFDAVOL	789	
DOFDCB	664	610
DOFDCBE	69E	668
DOFDCBES	668	C4C3C2C5
DOFDCBST	610	
DOFDCTPT	7D8	
DOFDECB	6A0	0
DOFDUDDN	7C6	
DOFDURB	7A8	
DOFDUST	7A4	
DOFDUTPP	7B0	
DOFDUTP1	7BC	
DOFDUTU1	7C0	
DOFEODAD	7E0	40
DOFFLAG	7E0	0
DOFHDATE	6BC	0
DOFHDBUF	6B4	0
DOFHDLEN	6C0	14
DOFHNODE	6C0	40404040
DOFHTIME	6B8	0
DOFHVRSN	6B4	
DOFHVRS1	6B4	2
DOFMSG	856	40404040
DOFMSGA	7E4	
DOFMSGAL	850	70
DOFMSGL	854	
DOFOPENR	610	4
DOFOPRM	7D0	
DOFSYBUF	7E0	7BE
DOFSYNAD	7E0	80
DOFWLEN	856	2AA
DOFWSTRT	610	
DOFWTECB	7DC	0
DTE	0	

$DTESPL information

$DTESPL programming interface information

The following field is **NOT** programming interface information:

- SPLSTWA

$DTESPL heading information

Common name: HASP Dynamic Spool Allocation DTE Work Area

Macro ID: $DTESPL

DSECT name: DTE ($DTESPL is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and DSPLLEN for the length of a Dynamic Spool Allocation DTE extension.

Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.

Pointed to by: The $DTESPOL field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSPOOL DTE. See $DTE for other pointer fields that apply to all DTE types.

Serialization: This work area is used serially by the HOSPOOL subtask. No special serialization is necessary.

Function: The Spool Allocation DTE work area DSECT, $DTESPOL, defines a work area used by the JES2 Dynamic Spool Allocation subtask (HOSPOOL).
The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDSPL in the field DTESTID, indicating this DTE is a Dynamic Spool Allocation DTE.

$DTESPL mapping

Table 159. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP SPOOL ALLOCATION WORK AREA
1552	(610)	CHARACTER	1	SPLSTART(0)	Start of SPL mapping
1552	(610)	ADDRESS	4	SPLUCBPT	UCB address
1556	(614)	ADDRESS	4	SPLECBA	Address of ECB for subtask
1560	(618)	ADDRESS	4	SPLTGMA	Volume TGM work area
1564	(61C)	BITSTRING	32	SPLENQTK	ISGENQ token
1596	(63C)	ADDRESS	4	SPLSTWA	Address subtask work area
1600	(640)	SIGNED	4	(10)	Reserved for future use
1600	(640)	X'58'	0	SPLNCLEA	"*-SPLUCBPT" Length to be *not* zeroed
1640	(668)	CHARACTER	1	SPLCSTRT(0)	Fields to be zeroed
1640	(668)	BITSTRING	1	SPLFLG1	REQUEST FLAG BYTE
		1...		SPL1FMT	"B'10000000'" Volume to be formatted

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SPL1NFMT	"B'01000000'" Volume not to be formatted
		..1.		SPL1MFMT	"B'00100000'" Vol to be mini-formatted
		...1		SPL1UNAL	"B'00010000'" Volume to be unallocated
		.... 1...		SPL1ALLO	"B'00001000'" Volume to be allocated
		.... .1..		SPL1BAD	"B'00000100'" Task attached for BADTRACK
		.... ..1.		SPL1WFMT	"B'00000010'" Volume was formatted
1641	(669)	BITSTRING	1	SPLFLG2	ERROR FLAG BYTE
		1...		SPL2OBT	"B'10000000'" OBTAIN error
		.1..		SPL2FMT	"B'01000000'" I/O error during formatting
		..1.		SPL2RDER	"B'00100000'" SPOOL read or block length error
		...1		SPL2UNAL	"B'00010000'" Dynamic allocate error
		.... 1...		SPL2ABND	"B'00001000'" Sub-task ABENDed
		.... .1..		SPL2DVTP	"B'00000100'" DEVTYPE error
		.... ..1.		SPL2EXT	"B'00000010'" Extent size limited to 64K tracks due to number of records per track exceeds 15.
		1		SPL2SIZE	"B'00000001'" Data set size error
1642	(66A)	BITSTRING	1	SPLFLG3	Subtask status flags
		1...		SPL3TGBG	"B'10000000'" Formatting 1st trk in TG
		.1..		SPL3ECKD	"B'01000000'" This is ECKD device
		..1.		SPL3RDTD	"B'00100000'" Extent supports read track data CCW
		...1		SPL3WTRD	"B'00010000'" Extent supports write track data CCW
		.... 1...		SPL3RELT	"B'00001000'" Volume using relative addressing
		.... .1..		SPL3LGDS	"B'00000100'" Volume using large data set addressing
		.... ..1.		SPL3NLGD	"B'00000010'" Not all members support large data sets
		1		SPL3RPS	"B'00000001'" Extent supports RPS
1643	(66B)	BITSTRING	1	SPLFLG4	Additional ERROR flag byte
		1...		SPL4ENQF	"B'10000000'" Exclusive ENQ unable to be obtained
		.1..		SPL4UCBF	"B'01000000'" UCBINFO macro failed
		..1.		SPL4CDRF	"B'00100000'" IOSCDR macro failed
		...1		SPL4NNED	"B'00010000'" No NED found
		.... 1...		SPL4DIAG	"B'00001000'" DIAGNOSE inst error
		.... .1..		SPL4NQSK	"B'00000100'" ENQ bypassed due to minor name construction problem(warm start only)
		.... ..1.		SPL4LSPA	"B'00000010'" LSPACE error - Error obtaining information on largest extent available
		1		SPL4LIMT	"B'00000001'" Spool dataset extent size exceeds 1,048,575 track limit

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1644	(66C)	SIGNED	4	SPLNUMTC	$SSPL and this field contains the number of cylinders or tracks requested for a new volume if the $SSPL SPACE parm was specified
1648	(670)	BITSTRING	1	SPLFLG5	Additional flag byte
		1...		SPL5MAX	"B'10000000'" MAX - $SSPL and MAX has been specified on SPACE keyword parm
		.1..		SPL5CYLS	"B'01000000'" CYL - $SSPL and CYL has been specified on SPACE keyword parm
		..1.		SPL5TRKS	"B'00100000'" TRK - $SSPL and TRK has been specified on SPACE keyword parm
		...1		SPL5DSET	"B'00010000'" The spool subtask HOSPOOL created a spool dataset for this volume.
		.... 1...		SPL5EASA	"B'00001000'" The HOSPOOL subtask allocation is EAS capable. This pertains to both disp(new/old).
		.... .1..		SPL5MIDA	"B'00000100'" The extent supports MIDAWs
		.... ..1.		SPL5LARG	"B'00000010'" Non-LARGEDS is NOT option if records per track > 15. For move migration - handles difference in recs per track geometry when source is on 3380 and target is on 3390 and BUFSIZE is certain value.
1649	(671)	BITSTRING	1	SPLFLG6	Additional ERROR flag byte WARNING!! only used for spool subtask errors - SPLFLG2 also reflects subtask errors.
		1...		SPL6TRKG	"B'10000000'" Spool extent is too small
		.1..		SPL6DSNL	"B'01000000'" Non-standard DSNAME requested in z2 mode
		..1.		SPL6XTER	"B'00100000'" Extend spool failure
1650	(672)	BITSTRING	1	SPLFLG7	Additional request flg byte
		1...		SPL7XTND	"B'10000000'" The HOSPOOL subtask request is EXTEND SPOOL
		.1..		SPL7ENQ	"B'01000000'" The SPOOL ENQ is held
1651	(673)	BITSTRING	1		Ensure alignment
1652	(674)	SIGNED	4	SPLURC	UCBINFO return code
1656	(678)	SIGNED	4	SPLURSN	UCBINFO reason code
1660	(67C)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1664	(680)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1668	(684)	SIGNED	4	SPLDYNRB(0)	Dynamic allocate req block
1688	(698)	SIGNED	4	(0)	Ensure alignment
1688	(698)	BITSTRING	36	SPLDYRBX	Request block extension
1724	(6BC)	SIGNED	4	(0)	Ensure alignment
1724	(6BC)	ADDRESS	4	SPLDYMPA	Address of DYNALLOC alloc error message parameter list
1728	(6C0)	ADDRESS	4	SPLDMSG1	Address of returned MSG #1 for DYNALLOC failure
1732	(6C4)	ADDRESS	4	SPLDMSG2	Address of returned MSG #2 for DYNALLOC failure
1736	(6C8)	BITSTRING	540	SPLDYMSP	The parm list + returned formatted messages area
2276	(8E4)	SIGNED	4	SPLOBTER	Obtain error return code
2280	(8E8)	ADDRESS	4	SPLTEXT(0)	LIST OF TEXT UNIT POINTERS

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2280	(8E8)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT
2284	(8EC)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAME TEXT UNIT
2288	(8F0)	ADDRESS	4	SPLUDSPA(0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCATION REQUESTS
2288	(8F0)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
2292	(8F4)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
2296	(8F8)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
	End of text unit pointers common for both deallocation and allocation.				
2300	(8FC)	ADDRESS	4	SPLEASTA	Pointer to EAS storage indicator. Valid for allocation DISP=(old/new)
	Following text unit pointers are only valid for allocation (disp=new).				
2304	(900)	ADDRESS	4	SPLTRKNA	Pointer to track requested text unit
2308	(904)	ADDRESS	4	SPLNUMTA	Pointer to number of units requested - text unit
2312	(908)	ADDRESS	4	SPLCONTA	Pointer to contiguous storage requested - text unit
2316	(90C)	ADDRESS	4	SPLDKEPA	Pointer to data space disposition (KEEP) - TEXT unit
2320	(910)	ADDRESS	4	SPLDSORA	Pointer to DSORG requested text unit
2324	(914)	ADDRESS	4	SPLDSTYA	Pointer to data set type specification
2328	(918)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
2334	(91E)	CHARACTER	8	SPLDDNAM	DDNAME
2342	(926)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
2348	(92C)	CHARACTER	44	SPLDSNAM	DSNAME
2392	(958)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
2398	(95E)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
2404	(964)	BITSTRING	6	SPLUNTXT	UNIT TEXT
2410	(96A)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
2418	(972)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
2425	(979)	BITSTRING	4	SPLTRACK	Tracks requested text
2429	(97D)	BITSTRING	9	SPLNUMTK	Number units requested text
2438	(986)	BITSTRING	7	SPLCONTX	Contig storage request text
2445	(98D)	BITSTRING	8	SPLDSORT	Data set organization text
2453	(995)	BITSTRING	7	SPLDSKEP	Data set disp (KEEP) text
2460	(99C)	BITSTRING	7	SPLDSTYP	Data set type = basic or large format
2467	(9A3)	BITSTRING	7	SPLEASTX	Data set may or may not reside in EAS storage
2476	(9AC)	SIGNED	4	SPLCMLST(4)	CAMLST FOR OBTAIN
2496	(9C0)	DBL WORD	8	SPLDSCB(0)	OBTAIN WORK AREA
2644	(A54)	BITSTRING	1	SPLINEAS	Indication that all or at least a portion of the extent resides in EAV - EAS storage.
		1...		SPLEAS	"B'10000000'" Yes - in EAS
2645	(A55)	BITSTRING	3		Reserved for future use
2648	(A58)	SIGNED	4	(0)	Ensure alignment

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2648	(A58)	CHARACTER	8	SPLSTRCC(0)	VOLUME'S FIRST EXTENT
2648	(A58)	SIGNED	2	SPLOWLIM(2)	LOWER CCccch of 1st extent Note: stored in absolute format
2652	(A5C)	SIGNED	2	SPLUPLIM(2)	UPPER CCccch of 1st extent Note: stored in absolute format
2656	(A60)	SIGNED	4	SPLCRC	IOSCDR return code
2660	(A64)	SIGNED	4	SPLCRSN	IOSCDR reason code

SPLABS is the absolute start and end track returned from allocating a spool data set.
SPLTRK is the 2 byte track range that is to be placed in the DAS. SPLTRK are relative track numbers if SPL3RELT is on, otherwise they are absolute track numbers. if relative addresses are used, the low track is always 1.
SPLSTRK is the value to add to a relative track address to get an absolute track address. If absolute addressing is being used, SPLSTRK is zero. (You can always add SPLSTRK to a track address to obtain an absolute track address).

2664	(A68)	DBL WORD	8	SPLABS(0)	DS start/end absolute track
2664	(A68)	SIGNED	4	SPLOWABS	Start absolute track no.
2668	(A6C)	SIGNED	4	SPLUPABS	End absolute track number
2672	(A70)	DBL WORD	8	SPLTRK(0)	SPOOL start and end track
2672	(A70)	SIGNED	4	SPLOWTRK	Start track value
2676	(A74)	SIGNED	4	SPLUPTRK	End track value
2680	(A78)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
2684	(A7C)	BITSTRING	48	SPLIOBE	Reserve space for IOB extension
2732	(AAC)	SIGNED	4	(0)	Ensure word alignment
2732	(AAC)	BITSTRING	48	SPLIEDB	Reserve space for I/O error data block
2780	(ADC)	BITSTRING	1	SPLDEB	SPOOL DEB address
2780	(ADC)	X'ADC'	0	SPLDEBB	"SPLDEB,DEBBASIZ" DEB basic
2780	(ADC)	X'AFC'	0	SPLDEBE	"SPLDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2828	(B0C)	ADDRESS	4	SPLNVL	NVL address (during init)
2832	(B10)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
2836	(B14)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
2840	(B18)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
2842	(B1A)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
2844	(B1C)	SIGNED	4	SPLINTRK	Expected number of tracks or zero (set from DAS on warm start)
2848	(B20)	SIGNED	4	SPLNMTRK	Number of tracks in extent
2852	(B24)	SIGNED	4	SPLNOBYM	Number of bytes in TGM
2856	(B28)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
2860	(B2C)	SIGNED	4	SPLMAXTG	Copy of $NUMTG from HCT
2864	(B30)	ADDRESS	4	SPLFMTWA	SPFORMAT work area address
2868	(B34)	SIGNED	4	SPLFMTWL	SPFORMAT work area size
2872	(B38)	ADDRESS	4	SPLFMTWD	Work area data section ptr
2876	(B3C)	ADDRESS	4	SPLFMTDA	Format buffer write area
2880	(B40)	DBL WORD	8	SPLCCWS(0)	CCWS FOR READ COUNT-KEY-DATA
2880	(B40)	DBL WORD	8	SPLCCW1	1ST CCW

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2888	(B48)	DBL WORD	8	SPLCCW2	2ND CCW
2896	(B50)	DBL WORD	8	SPLCCW3	3RD CCW
2904	(B58)	DBL WORD	8	SPLRDCT	READ-IN AREA
2912	(B60)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD
	Fields used as input to SPFORMAT				
2920	(B68)	DBL WORD	8	(0)	Alignment
2920	(B68)	CHARACTER	7	SPLFMSTR	MBBCCHH of the first/only track to be formatted
2927	(B6F)	CHARACTER	1		Reserved
2928	(B70)	CHARACTER	7	SPLFMEND	MMBBCCHH of last track to be formatted.
2935	(B77)	CHARACTER	1		Reserved
	Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)				
2936	(B78)	BITSTRING	1	SPLMFPRM	SPMINIFM parameter list
	SPLOUTP and SPLOUTPL describe an output area used by the UCBINFO and IOSCDR macros.				
2968	(B98)	ADDRESS	4	SPLOUTP	Address of output area
2972	(B9C)	SIGNED	4	SPLOUTPL	Length of output area
2976	(BA0)	SIGNED	4	SPLCDRAS	Size of IOSCDR output area necessary
2980	(BA4)	SIGNED	4	SPLDIAGR	DIAGNOSE return code
2984	(BA8)	BITSTRING	1	SPLCHPID	CHPID used for IOSCDR
2985	(BA9)	BITSTRING	3		Reserved for future use
2988	(BAC)	SIGNED	4	(4)	Reserved for future use
3008	(BC0)	DBL WORD	8	(0)	
3008	(BC0)	BITSTRING	1	SPLEXDS	$EXTENDS list form
3008	(BC0)	X'64'	0	SPLEXDLN	"*-SPLEXDS" Length of parm list
3108	(C24)	SIGNED	4	SPLMXTRK	Maximum number of tracks allowed in a SPOOL.
3112	(C28)	BITSTRING	1	SPLEXTNO	Extent number
3113	(C29)	CHARACTER	1		Reserved for alignment
	MACDATE -01/22/01-<1>				
0	(0)	X'C30'	0	M00M1233	"SPLCAPU" ++ IOSCAPU NAME
3120	(C30)	DBL WORD	8	SPLCAPU(0)	++ IOSCAPU PARM LIST
3120	(C30)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
3121	(C31)	BITSTRING	1	SPLCAPU_XFLAGS1	++ FIELD_LABEL
		1...		SPLCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		SPLCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		SPLCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		SPLCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		SPLCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SPLCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
3122	(C32)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
3124	(C34)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
3128	(C38)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR
3132	(C3C)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
3133	(C3D)	BITSTRING	1	SPLCAPU_XMASK	++ FIELD_LABEL
		1...		SPLCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		SPLCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		SPLCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		SPLCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
3134	(C3E)	BITSTRING	2	SPLCAPU_XASID	++ XASID
3136	(C40)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
3136	(C40)	X'20'	0	SPLCAPUL	"*-SPLCAPU" ++ LENGTH OF PLIST
				IOSCAPU-1	
0	(0)	X'9C0'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'A10'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK ARES
0	(0)	X'A1A'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
3152	(C50)	DBL WORD	8	(0)	EST DOUBLE WORD ALIGNMENT
3152	(C50)	X'668'	0	SPLCLEAR	"SPLCSTRT" Area to be zeroed
3152	(C50)	X'5E8'	0	SPLCLRLN	"*-SPLCSTRT" Length of area to clear
3152	(C50)	X'640'	0	DSPLLEN	"*-DTEWORK" Length of work area

Table 160. Cross Reference for $DTESPL

Name	Offset	Hex Tag
DSPLLEN	C50	640
DTE	0	
M00M1233	0	C30
SPLABS	A68	
SPLCAPU	C30	
SPLCAPU_KEYUSED_ASID	C31	10
SPLCAPU_KEYUSED_CAPTOACT	C31	20
SPLCAPU_KEYUSED_CAPTPTR	C31	4
SPLCAPU_KEYUSED_CAPTUCB	C31	80
SPLCAPU_KEYUSED_UCAPTUCB	C31	40
SPLCAPU_KEYUSED_UCBPTR	C31	8
SPLCAPU_XASID	C3E	
SPLCAPU_XCAPTCOM_NEVER	C3D	10
SPLCAPU_XCAPTCOM_YES	C3D	20
SPLCAPU_XCAPTPTR	C38	
SPLCAPU_XFLAGS1	C31	
SPLCAPU_XLASTING_YES	C3D	40
SPLCAPU_XMASK	C3D	

Table 160. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLCAPU_XMSIFREE_YES	C3D	80
SPLCAPU_XRESERVED1	C32	
SPLCAPU_XRESERVED2	C3C	
SPLCAPU_XRESERVED3	C40	
SPLCAPU_XUCBPTR	C34	
SPLCAPU_XVERSION	C30	
SPLCAPUL	C40	20
SPLCC	0	A1A
SPLCCWS	B40	
SPLCCW1	B40	
SPLCCW2	B48	
SPLCCW3	B50	
SPLCDRAS	BA0	
SPLCFLDS	B60	
SPLCHAIN	67C	
SPLCHPID	BA8	
SPLCLEAR	C50	668
SPLCLRLN	C50	5E8
SPLCMLST	9AC	
SPLCONTA	908	
SPLCONTX	986	
SPLCRC	A60	
SPLCRSN	A64	
SPLCSTRT	668	
SPLDDNAM	91E	
SPLDDTA	8E8	
SPLDDTXT	918	
SPLDEB	ADC	
SPLDEBB	ADC	ADC
SPLDEBE	ADC	AFC
SPLDIAGR	BA4	
SPLDKEPA	90C	
SPLDMSG1	6C0	
SPLDMSG2	6C4	
SPLDPTXT	972	
SPLDSCB	9C0	
SPLDSKEP	995	
SPLDSNAM	92C	
SPLDSNTA	8EC	
SPLDSORA	910	
SPLDSORT	98D	
SPLDSPTA	8F8	
SPLDSTXT	926	
SPLDSTYA	914	
SPLDSTYP	99C	
SPLDYMPA	6BC	

Table 160. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLDYMSP	6C8	
SPLDYNAL	680	
SPLDYNRB	684	
SPLDYRBX	698	
SPLEAS	A54	80
SPLEASTA	8FC	
SPLEASTX	9A3	
SPLECBA	614	
SPLENQTK	61C	
SPLEXDLN	BC0	64
SPLEXDS	BC0	0
SPLEXTNO	C28	
SPLFLG1	668	
SPLFLG2	669	
SPLFLG3	66A	
SPLFLG4	66B	
SPLFLG5	670	
SPLFLG6	671	
SPLFLG7	672	
SPLFMEND	B70	
SPLFMSTR	B68	
SPLFMTDA	B3C	
SPLFMTWA	B30	
SPLFMTWD	B38	
SPLFMTWL	B34	
SPLIEDB	AAC	
SPLINEAS	A54	
SPLINTRK	B1C	
SPLIOBE	A7C	
SPLMAXTG	B2C	
SPLMFPRM	B78	
SPLMSG	0	9C0
SPLMXTRK	C24	
SPLNCLEA	640	58
SPLNMTRK	B20	
SPLNOBYM	B24	
SPLNORTK	B18	
SPLNOTGP	B1A	
SPLNUMTA	904	
SPLNUMTC	66C	
SPLNUMTG	B28	
SPLNUMTK	97D	
SPLNVL	B0C	
SPLOBTER	8E4	
SPLOUTP	B98	
SPLOUTPL	B9C	

Table 160. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLOWABS	A68	
SPLOWLIM	A58	
SPLOWTRK	A70	
SPLRDCT	B58	
SPLSTART	610	
SPLSTRCC	A58	
SPLSTRK	A78	
SPLSTWA	63C	
SPLTCBPT	B10	
SPLTEXT	8E8	
SPLTGMA	618	
SPLTKCYL	B14	
SPLTRACK	979	
SPLTRK	A70	
SPLTRKNA	900	
SPLUCBPT	610	
SPLUDSPA	8F0	
SPLUNIT	96A	
SPLUNITA	8F4	
SPLUNTXT	964	
SPLUPABS	A6C	
SPLUPLIM	A5C	
SPLUPTRK	A74	
SPLURC	674	
SPLURSN	678	
SPLVLTXT	958	
SPLVOLID	95E	
SPLVOLTA	8F0	
SPLWORK	0	A10
SPL1ALLO	668	8
SPL1BAD	668	4
SPL1FMT	668	80
SPL1MFMT	668	20
SPL1NFMT	668	40
SPL1UNAL	668	10
SPL1WFMT	668	2
SPL2ABND	669	8
SPL2DVTP	669	4
SPL2EXT	669	2
SPL2FMT	669	40
SPL2OBT	669	80
SPL2RDER	669	20
SPL2SIZE	669	1
SPL2UNAL	669	10
SPL3ECKD	66A	40
SPL3LGDS	66A	4

Table 160. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPL3NLGD	66A	2
SPL3RDTD	66A	20
SPL3RELT	66A	8
SPL3RPS	66A	1
SPL3TGBG	66A	80
SPL3WTRD	66A	10
SPL4CDRF	66B	20
SPL4DIAG	66B	8
SPL4ENQF	66B	80
SPL4LIMT	66B	1
SPL4LSPA	66B	2
SPL4NNED	66B	10
SPL4NQSK	66B	4
SPL4UCBF	66B	40
SPL5CYLS	670	40
SPL5DSET	670	10
SPL5EASA	670	8
SPL5LARG	670	2
SPL5MAX	670	80
SPL5MIDA	670	4
SPL5TRKS	670	20
SPL6DSNL	671	40
SPL6TRKG	671	80
SPL6XTER	671	20
SPL7ENQ	672	40
SPL7XTND	672	80

$DTESUBS information

$DTESUBS programming interface information

$DTESUBS is a programming interface.

$DTESUBS heading information

Common name: HASPSUBS DTE Work Area Extension

Macro ID: $DTESUBS

DSECT name: DTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: DTE
Offset: DTEID
Length: L'DTEID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual in 24 bit storage, real in 31 bit storage in the JES2 address space

Size: See DSUBLEN

Created by: $DTEDYNA service in HASPDYN

Pointed to by: $DTEGSUB field of the HCT data area
DTENEXT field of the DTE data area
DTEPREV field of the DTE data area
SBWQORG field of the STWORK data area
DSUBNXT field of the DTE data area

Serialization: None required

Function: The $DTESUBS DSECT maps the work area extension for the HASPSUBS subtask(s).

$DTESUBS mapping

Table 161. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPSUBS DTE work area ext
1552	(610)	BITSTRING	1	DSUBFLG1	Flags
		1...		DSUB1NSQ	"B'10000000'" SQD invalid or unavailable
		.1..		DSUB1DEC	"B'01000000'" Subtask count decremented
1553	(611)	BITSTRING	3		Reserved
1556	(614)	ADDRESS	4	DSUBSQD	Address of work SQD
1560	(618)	ADDRESS	4	DSUBNXT	Address of next subtask in chain
1564	(61C)	ADDRESS	4	DSUBSAVE	Address of save area used by called routine
Subtask VRA and recovery fields.					
1568	(620)	ADDRESS	4		Reserved
1572	(624)	SIGNED	2	DSUBABND	Subtask abend count
1574	(626)	BITSTRING	2		Reserved
1576	(628)	CHARACTER	8	DSUBRNAM	Routine name
1584	(630)	ADDRESS	4	DSUBCLRA	$SUBIT caller address
1588	(634)	CHARACTER	8	DSUBMOD	$SUBIT caller module name
1596	(63C)	SIGNED	4	DSUBOFF	$SUBIT caller offset
1600	(640)	BITSTRING	1	DSUBFOOT	Subtask footprint flag byte
		1...		DSUBFTWK	"B'10000000'" Set prior to obtaining work
		.1..		DSUBFTST	"B'01000000'" Set prior to processing request
		..1.		DSUBFTCL	"B'00100000'" Set prior to calling routine
		...1		DSUBFTRC	"B'00010000'" Set following return from routine
		.... 1...		DSUBFTPS	"B'00001000'" Set following caller post
		.... .1..		DSUBFTSQ	"B'00000100'" Set prior to subtask queuing
		.... ..1.		DSUBFTWT	"B'00000010'" Set prior to subtask wait
1601	(641)	BITSTRING	7		Reserved
1608	(648)	DBL WORD	8	DSUBPRFS(0)	Perf stats for SUBSPERF
1608	(648)	DBL WORD	8	DSUBQTIM	Last SQD queue time (micro)
1616	(650)	DBL WORD	8	DSUBRTIM	Last SQD run time (micro)
1624	(658)	DBL WORD	8	DSUBCTIM	Last SQD CPU time (micro)
1632	(660)	DBL WORD	8		Reserved

Table 161. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MACRO-DATE = 03/16/2015					
1640	(668)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1640	(668)	X'668'	0	DSUBDEQL	"*" X02113
1640	(668)	ADDRESS	1		PELLAST flag byte. X02113
1641	(669)	ADDRESS	1		PELMILEN - RNAME length.
1642	(66A)	BITSTRING	1		
PELFLAG - flag byte 2.					
1643	(66B)	ADDRESS	1		PELRET - return code byte.
1644	(66C)	ADDRESS	4		QNAME ADDRESS
1648	(670)	ADDRESS	4		RNAME ADDRESS
1648	(670)	X'668'	0	DSUBDQLS	"DSUBDEQL,*-DSUBDEQL" DEQ list form symbol
1656	(678)	DBL WORD	8	(0)	Align
1656	(678)	X'68'	0	DSUBLEN	"*-DTEWORK" HASPSUBS work area length

Table 162. Cross Reference for $DTESUBS

Name	Offset	Hex Tag
DSUBABND	624	
DSUBCLRA	630	
DSUBCTIM	658	
DSUBDEQL	668	668
DSUBDQLS	670	668
DSUBFLG1	610	
DSUBFOOT	640	
DSUBFTCL	640	20
DSUBFTPS	640	8
DSUBFTRC	640	10
DSUBFTSQ	640	4
DSUBFTST	640	40
DSUBFTWK	640	80
DSUBFTWT	640	2
DSUBLEN	678	68
DSUBMOD	634	
DSUBNXT	618	
DSUBOFF	63C	
DSUBPRFS	648	
DSUBQTIM	648	
DSUBRNAM	628	
DSUBRTIM	650	
DSUBSAVE	61C	
DSUBSQD	614	
DSUB1DEC	610	40
DSUB1NSQ	610	80
DTE	0	

$DTEVTAM information

$DTEVTAM programming interface information

$DTEVTAM is a programming interface.

$DTEVTAM heading information

Common name:	HASPVTAM subtask DTE work area extension
Macro ID:	$DTEVTAM
DSECT name:	DTE ($DTEVTAM is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DVTMLEN equate for the length of a VTAM DTE extension.
Created by:	$DTEDYN ATTACH, called from JES2 initialization processing to ATTACH the DTEs to be associated with a LOGON device. The subtask (and DTE) definitions are defined in the $DTETAB tables.
Pointed to by:	The $DTEVTM pointer in the $HCT control block, pointing into the $DTEORG/$DTELAST chain, to the first VTAM $DTE control block. See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This work area is used serially by the HASPVTAM subtask. No special serialization is necessary. The chain fields should only be managed by the JES2 main task $DTEDYN and subtask RAS facilities.
Function:	This DSECT maps the DTE work area extension for HASPVTAM subtask. The work area is used to pass parameters to VTAM.

$DTEVTAM mapping

Table 163. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPVTAM DTE WORK AREA EXTENSION
1552	(610)	ADDRESS	1	DVTMPWDL	LENGTH OF NODE PASSWORD
1553	(611)	CHARACTER	8	DVTMPSWD	NODE PASSWORD
1561	(619)	ADDRESS	1	DVTMAPNL	LENGTH OF APPL NAME
1562	(61A)	CHARACTER	8	DVTMAPLN	APPL NAME
1562	(61A)	X'12'	0	DVTMLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEWTO information

$DTEWTO programming interface information

The following fields are **NOT** programming interface information:

- CSACID
- CSACIDCH

$DTEWTO heading information

Common name:	HASPWTO Subtask DTE Work Area Extension (DWTO)
Macro ID:	$DTEWTO
DSECT name:	DTE ($DTEWTO is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DWTOLEN equate for the length of a WTO DTE extension.
Created by:	$DTEDYN ATTACH called during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by:	The $DTEWTO field of the $HCT data area points into $DTEORG/$DTELAST chain to the one WTO DTE See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used serially by callers using $WTO $CWTO, or $BLDMSG (under the main task) and by the HASPWTO subtask. Fields that should be used only by the main task begin at label CSARDWRK.
Function:	The Write To Operator subtask DTE work area DSECT, $DTEWTO, describes the work area extension to the DTE for that subtask. The mapping defines the fields after label DTEWORK. The $DTEWTO area is used by the write-to-operator routine running under the JES2 main task. It is also used by the one (and only one) HASPWTO subtask.

$DTEWTO mapping

Table 164. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPCON DTE WORK AREA EXT
1552	(610)	ADDRESS	4	CSACONWQ	HASPCON subtask work queue
	NORMAL WTO FORMAT				
1560	(618)	DBL WORD	8	CSA(0)	
1560	(618)	SIGNED	4	CSAWTOL(0)	
1560	(618)	ADDRESS	2		TEXT LENGTH
1562	(61A)	BITSTRING	2		MCSFLAGS
1564	(61C)	CHARACTER	53		
1689	(699)	ADDRESS	1		VERSION LEVEL
1690	(69A)	BITSTRING	1		MISCELLANEOUS FLAGS
1691	(69B)	ADDRESS	1		REPLY LENGTH
1692	(69C)	ADDRESS	1		LENGTH OF WPX
1693	(69D)	BITSTRING	2		EXTENDED MCS FLAGS
1695	(69F)	ADDRESS	2		RESERVED
1697	(6A1)	ADDRESS	4		REPLY BUFFER ADDRESS
1701	(6A5)	ADDRESS	4		REPLY ECB ADDRESS
1705	(6A9)	ADDRESS	4		CONNECT ID
1709	(6AD)	BITSTRING	2		DESCRIPTOR CODES

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1711	(6AF)	ADDRESS	2		RESERVED
1713	(6B1)	BITSTRING	16		
1729	(6C1)	BITSTRING	2		MESSAGE TYPE
1731	(6C3)	ADDRESS	2		MESSAGE'S PRIORITY
1733	(6C5)	CHARACTER	8		JOB ID
1741	(6CD)	CHARACTER	8		JOB NAME
1749	(6D5)	CHARACTER	8		RETRIEVAL KEY
1757	(6DD)	ADDRESS	4		TOKEN FOR DOM
1761	(6E1)	ADDRESS	4		CONSOLE ID
1765	(6E5)	CHARACTER	8		SYSTEM NAME
1773	(6ED)	CHARACTER	8		CONSOLE NAME
1781	(6F5)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1785	(6F9)	ADDRESS	4		CART ADDRESS
1789	(6FD)	ADDRESS	4		WSPARM ADDRESS
1789	(6FD)	X'701'	0	CSAWPXEN	"*" END OF WPX
		Extensions for MLWTO. These must IMMEDIATELY follow the WPX (generated by the WTO list form)			
1793	(701)	ADDRESS	2	CSALINET	LINE TYPE FIELD
1795	(703)	BITSTRING	1	CSALAREA	AREA ID
1796	(704)	BITSTRING	1	CSALNUM	NUMBER OF LINES
1796	(704)	X'705'	0	CSAMLEND	"*" End of MLWTO extensions
		Map the fields prior to and including the message text			
1560	(618)	SIGNED	2	CSAMSGL	MESSAGE LENGTH + 4
1562	(61A)	SIGNED	2	CSAMCS	MCS FLAGS
1564	(61C)	CHARACTER	125	CSAMSG	TEXT
1564	(61C)	X'81'	0	CSASLEN	"*-CSAMSGL" STANDARD WTO LENGTH
1564	(61C)	X'699'	0	CSATRAIL	"*" START OF TRAILER FIELDS
1564	(61C)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRAIL" Length of WPX plus MLWTO extensions
		End of WPL parameter list area			
1800	(708)	SIGNED	4	(0)	Full word align
1800	(708)	CHARACTER	8	CSAJOBID	Job ID
1808	(710)	CHARACTER	8	CSAJOBNM	Job name
1816	(718)	CHARACTER	8	CSAKEY	Retrieval key (PCE name)
1824	(720)	BITSTRING	3	CSANFM(0)	SYSTEM ID OF SENDER
1824	(720)	BITSTRING	2		NODE NUMBER
1826	(722)	BITSTRING	1		NODE QUALIFIER
1827	(723)	BITSTRING	1		RESERVED
1828	(724)	ADDRESS	4	CSACIDCH	CID (connect id) chain
1832	(728)	ADDRESS	4	CSACID	CID for current CMB
1836	(72C)	ADDRESS	4	CSACMB	Current CMB
		Workarea for HASPCON PCE level service routines			

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1840	(730)	BITSTRING	2	CSARDWRK	LOGICAL ROUTING WORK AREA
1842	(732)	ADDRESS	1	CSAW(4)	
1858	(742)	BITSTRING	8		
1858	(742)	X'2A'	0	CSAWLEN	"*-CSAW"
1884	(75C)	BITSTRING	1	DWTOFLG1	Flags
		1...		DWTO1WAT	"B'10000000'" $WAIT tolerated by caller
	MGCRE work area				
1888	(760)	DBL WORD	8	(0)	Alignment
1888	(760)	SIGNED	2	CSAMGMF(0)	MGCRE PARAMTER LIST
1888	(760)	ADDRESS	1		FLAG FIELD '00'
1889	(761)	ADDRESS	1		RESERVED
1890	(762)	BITSTRING	1		FLAG FIELD
1891	(763)	BITSTRING	1		FLAG FIELD 2
1892	(764)	CHARACTER	5		CONTROL BLOCK ACRONYM 'MGCRE'
1897	(769)	ADDRESS	1		VERSION LEVEL
1898	(76A)	BITSTRING	1		FLAG FIELD 3
1899	(76B)	ADDRESS	1		RESERVED
1900	(76C)	ADDRESS	4		ADDRESS OF THE COMMAND TEXT
1904	(770)	ADDRESS	4		TOKEN
1908	(774)	CHARACTER	8		CONSOLE NAME
1916	(77C)	ADDRESS	4		CONSOLE ID
1920	(780)	BITSTRING	1		COMMAND DISPOSITION
1921	(781)	BITSTRING	2		COMMAND AUTHORITY LEVEL
1923	(783)	BITSTRING	1		RESERVED
1924	(784)	BITSTRING	8		COMMAND AND RESPOSE TOKEN
1932	(78C)	BITSTRING	8		SYSTEM NAME
1940	(794)	ADDRESS	4		UTOKEN ADDRESS
1944	(798)	BITSTRING	4		RESERVED
1944	(798)	X'760'	0	CSAMGMFL	"CSAMGMF,*-CSAMGMF" MGCRE list form
1948	(79C)	SIGNED	2	CSAMGCLN	Command text length
1950	(79E)	CHARACTER	126	CSAMGCMD	Command text
2080	(820)	DBL WORD	8	(0)	
2080	(820)	X'210'	0	DWTOLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 165. Cross Reference for $DTEWTO

Name	Offset	Hex Tag
CSA	618	
CSACID	728	
CSACIDCH	724	
CSACMB	72C	
CSACONWQ	610	
CSAJOBID	708	40404040
CSAJOBNM	710	40404040
CSAKEY	718	40404040

Table 165. Cross Reference for $DTEWTO (continued)

Name	Offset	Hex Tag
CSALAREA	703	0
CSALINET	701	
CSALNUM	704	1
CSALSIZ	61C	6C
CSAMCS	61A	
CSAMGCLN	79C	
CSAMGCMD	79E	
CSAMGMF	760	
CSAMGMFL	798	760
CSAMLEND	704	705
CSAMSG	61C	
CSAMSGL	618	
CSANFM	720	
CSARDWRK	730	0
CSASLEN	61C	81
CSATRAIL	61C	699
CSAW	732	
CSAWLEN	742	2A
CSAWPXEN	6FD	701
CSAWTOL	618	
DTE	0	
DWTOFLG1	75C	
DWTOLEN	820	210
DWTO1WAT	75C	80

$DWA information

$DWA heading information

Common name: HASP $DILBERT Work Area

Macro ID: $DWA

DSECT name: DWA

Owning component: JES2 (SC1BH)

Eye-catcher ID: DWAEYE
Offset: DWAEYE-DWA
Length: L'DWAEYE

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See DWASIZE

Created by: $DILBERT service

Pointed to by: Field $DILHEAD in the $HCT data area
Field $DILTAIL in the $HCT data area
Field DWANEXT in the $DWA data area
Field DWAPREV in the $DWA data area
Field DWANXTEL in the $DWA data area
Field DWAPRVEL in the $DWA data area

Serialization: None Required

Function: Represent requests made using the $DILBERT macro instruction that specifies a routine to be called when the BERT lock for a specific job is released.

$DWA mapping

Table 166. Structure DWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWA	, HASP $DILBERT Work Area
0	(0)	CHARACTER	4	DWAEYE	Eyecatcher
4	(4)	BITSTRING	1	DWATYPE	Type
5	(5)	BITSTRING	1	DWAPFLG1	Flags See $DILFLG1 in $PARMLST
6	(6)	BITSTRING	1	DWAPFLG2	Flags See $DILFLG2 in $PARMLST
7	(7)	BITSTRING	1	DWAFLAG9	Internal flags
		1...		DWA9QUED	"B'10000000'" DWA was queued
		Backend processing is required when the processing at the end of calling the processing routine which was required to update the BERTs would have required a $WAIT in $DOGBERT.			
		.1..		DWA9BEND	"B'01000000'" Backend processing req.
		..1.		DWA9NBRT	"B'00100000'" Failed ... BERT shortage
		...1		DWA9PROS	"B'00010000'" DWA being processed now
		.... 1...		DWA9SPEC	"B'00001000'" Use SPECIAL=YES
		.... .1..		DWA9HEAD	"B'00000100'" Head of side queue
		.... ..1.		DWA9INDI	"B'00000010'" Indirect call to routine
		1		DWA9UNCO	"B'00000001'" Backend processing is for unconditional return
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	ADDRESS	8	DWAPARM0	Parameter for register 0
24	(18)	SIGNED	4	DWAPRMA1	Parameter for AR1
28	(1C)	ADDRESS	4	DWARTN	Address of routine
32	(20)	BITSTRING	4	DWAIMMED	Immediate instruction to executed
36	(24)	ADDRESS	4	DWAPCE	Address of PCE to $POST
40	(28)	ADDRESS	4	DWACALR	Address of $DILBERT caller (for diagnostic purposes)
44	(2C)	SIGNED	4	DWASTCK	Time of $DILBERT call (for diagnostic purposes)
48	(30)	ADDRESS	4	DWANXTEL	Next DWA for element (side queue pointer)
52	(34)	ADDRESS	4	DWAPRVEL	Previous DWA for element (side queue pointer)
56	(38)	SIGNED	4	DWAORG(0)	Common origin
		Parameters common to TYPE=JQE and TYPE=JOE			
56	(38)	SIGNED	4	DWAOFF	JQE/JOE Offset
60	(3C)	ADDRESS	4	DWAART	Address of JQA/JOA
64	(40)	SIGNED	4	DWABERTS	BERTs required to process
68	(44)	SIGNED	4	DWABSTCK	TOD last time we tried
72	(48)	ADDRESS	4	DWAPCEJQ	Save caller's PCEJQE

Table 166. Structure DWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	3	DWAJOJQO	Associated JQE index for the DWA.
	Parameters specific to TYPE=JQE				
79	(4F)	ADDRESS	1	DWADOGJ	ACTION
80	(50)	ADDRESS	1	(5)	
85	(55)	ADDRESS	2		
87	(57)	BITSTRING	4	DWAJBKEY	Job Key for JQE DWAs.
	Parameters specific to TYPE=JOE				
79	(4F)	ADDRESS	1	(2)	
81	(51)	ADDRESS	1	(4)	
85	(55)	ADDRESS	4		
89	(59)	CHARACTER	12	DWAJOEID	JOE ID block (JOENAME, JOEID1, JOEID2) for JOE DWAs.
	End of DWA				
104	(68)	DBL WORD	8	(0)	Ensure doubleword size
104	(68)	X'68'	0	DWASIZE	"*-DWA" Length of DWA

Table 167. Cross Reference for $DWA

Name	Offset	Hex Tag
DWA	0	
DWAART	3C	
DWABERTS	40	
DWABSTCK	44	
DWACALR	28	
DWADOGJ	4F	
DWAEYE	0	
DWAFLAG9	7	
DWAIMMED	20	
DWAJBKEY	57	
DWAJOEID	59	
DWAJOJQO	4C	
DWANEXT	8	
DWANXTEL	30	
DWAOFF	38	
DWAORG	38	
DWAPARM0	10	
DWAPCE	24	
DWAPCEJQ	48	
DWAPFLG1	5	
DWAPFLG2	6	
DWAPREV	C	
DWAPRMA1	18	
DWAPRVEL	34	
DWARTN	1C	

Table 167. Cross Reference for $DWA (continued)

Name	Offset	Hex Tag
DWASIZE	68	68
DWASTCK	2C	
DWATYPE	4	
DWA9BEND	7	40
DWA9HEAD	7	4
DWA9INDI	7	2
DWA9NBRT	7	20
DWA9PROS	7	10
DWA9QUED	7	80
DWA9SPEC	7	8
DWA9UNCO	7	1

$ENFPARM information

$ENFPARM heading information

Common name: ENF parameter list required for the ENFREQ macro

Macro ID: $ENFPARM

DSECT name: ENFPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 241
Key: 1
Residency: Any

Size: See ENFPSIZE

Created by: JES2

Pointed to by: Address contained in a register for use with the ENFREQ service

Serialization: None

Function: Maps the list form of the ENFREQ parameter list as well as storage for the ENFPTR field required by the ENFREQ macro.

$ENFPARM mapping

Table 168. Structure ENFPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENFPARM	DSECT for ENF parms
0	(0)	ADDRESS	4	ENFPPTR	Area for ENFPTR - required by ENFREQ macro
4	(4)	SIGNED	4	ENFPENF(0)	START OF ENF PARAMETER LIST
4	(4)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
6	(6)	ADDRESS	2		REQUESTED ENF ACTION
8	(8)	ADDRESS	4		EVENT CODE
12	(C)	ADDRESS	1		FLAG FIELD
13	(D)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
14	(E)	ADDRESS	1		KEY FOR FREEPRM
15	(F)	ADDRESS	1		SUBPOOL FOR FREEPRM
16	(10)	ADDRESS	4		QUALIFIER

Table 168. Structure ENFPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4		EXIT ROUTINE ADDRESS
24	(18)	ADDRESS	4		Address of caller's parameters
28	(1C)	ADDRESS	4		TOKEN
32	(20)	ADDRESS	4		Length of caller's parameters
36	(24)	ADDRESS	2		VERSION OF PARM LIST
38	(26)	ADDRESS	2		RESERVED FIELD
40	(28)	ADDRESS	4		RETURN ADDRESS
44	(2C)	CHARACTER	8		ESTABLISHER NAME
52	(34)	CHARACTER	8		LISTEN EXIT NAME
60	(3C)	ADDRESS	4		LISTENER NUMBER (RETURNED)
64	(40)	CHARACTER	4		SPECIAL EXIT RETURN CODE
68	(44)	BITSTRING	32		Bit-mapped qualifier
100	(64)	ADDRESS	1		Flag byte
101	(65)	BITSTRING	3		Reserved
104	(68)	ADDRESS	4		Reserved
108	(6C)	CHARACTER	8		XCFFILTERGROUP name
116	(74)	BITSTRING	16		Reserved
132	(84)	CHARACTER	20		Additional space
132	(84)	X'98'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

Table 169. Structure ENF790

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF790	, DSECT for HASP790 message
0	(0)	CHARACTER	8	ENF7EYE	Eye catcher
8	(8)	SIGNED	4	ENF7RC	ENF RC from ENFREQ
12	(C)	SIGNED	4	ENF7COUN	Number of messages
16	(10)	SIGNED	4	ENF7TIME	Seconds since last issued
16	(10)	X'14'	0	ENF7SIZE	"*-ENF790" Length of HASP790 work area

Table 170. Cross Reference for $ENFPARM

Name	Offset	Hex Tag
ENFPARM	0	
ENFPENF	4	
ENFPPTR	0	
ENFPSIZE	84	98
ENF7COUN	C	
ENF7EYE	0	C8C1E2D7
ENF7RC	8	
ENF7SIZE	10	14
ENF7TIME	10	
ENF790	0	

$ENFWORK information

$ENFWORK programming interface information

$ENFWORK is a programming interface.

$ENFWORK heading information

Common name: HASP ENF LISTEN Processor

Macro ID: $ENFWORK

DSECT name: PCE ($ENFWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol ENNPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $ENFPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first ENF LISTEN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 ENF LISTEN Processor and by its support routines and exits. $ENFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ENFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEENFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ENFWORK mapping

Table 171. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	SIGNED	4	ENNALET	ALET for EVT data space
336	(150)	DBL WORD	8	(0)	
336	(150)	BITSTRING	16	ENNTQE	TQE for deregistration wait
352	(160)	DBL WORD	8	(0)	
352	(160)	BITSTRING	320	ENNPARMS	EVT parameter data
672	(2A0)	BITSTRING	4	ENNWMASK	Work mask for XCF messaging
676	(2A4)	BITSTRING	4		Reserved
680	(2A8)	DBL WORD	8	(0)	Force double-word alignment
680	(2A8)	X'160'	0	ENNPCEWS	"*-PCEWORK" Length of $ENF PCE

Table 172. Cross Reference for $ENFWORK

Name	Offset	Hex Tag
ENNALET	148	
ENNPARMS	160	
ENNPCEWS	2A8	160
ENNTQE	150	
ENNWMASK	2A0	
PCE	0	

$EOMWORK information

$EOMWORK heading information

Common name: JES2 End of Memory PCE Work Area

Macro ID: $EOMWORK

DSECT name: PCE ($EOMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol EOMPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $EOMPCE field of the $HCT data area
The EMSPCE field of the $DTEEOM data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 End of Memory Processor. $EOMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $EOMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEEOMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$EOMWORK mapping

Table 173. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	ADDRESS	4	EOMDTE	Address of our EOMDTE
332	(14C)	BITSTRING	4		Reserved for future use
336	(150)	DBL WORD	8	(0)	Alignment
336	(150)	X'8'	0	EOMPCEWL	"*-PCEWORK" Length of misc PCE work area

$ERA information

$ERA programming interface information

The following field is **NOT** programming interface information:

- ERAPRE

$ERA heading information

Common name:	JES2 Error Recovery Area
Macro ID:	$ERA
DSECT name:	ERA
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	ERA Offset: ERAERAID-ERA Length: L'ERAERAID
Storage attributes:	Subpool: 0, Also refer to $DTE and $TRCA Key: 1, Also refer to $DTE and $TRCA Residency: Anywhere. Also refer to the $DTE and $TRCA in which an $ERA is imbedded.
Size:	See ERALENG
Created by:	$ANALYZE routine in HASPTERM getmains an $ERA. An emergency $ERA exists as part of the $TRCA. An $ERA is also created as part of the $DTE.
Pointed to by:	ERAPREV field of the $ERA data area PCEERA field of the $PCE data area PREERA field of the $PRE data area SPNERA field of the $SPNWORK data area TRCAERA field of the $TRCA data area
Serialization:	Fields are serialized implicity, by being changeable by only one task, either the JES2 main task or a JES2 subtask.
Function:	Provides work areas and communication fields required for processing abends in the JES2 address space and possible later recovery. The $ERA is imbedded in the $DTE at field DTEERA for use in a subtask. An emergency $ERA is imbedded in the $TRCA at field TRCAEERA. The $ERA is also getmained separately from other control blocks.

$ERA mapping

Table 174. Structure ERA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERA	HASP ERROR RECOVERY AREA
0	(0)	CHARACTER	4	ERAERAID	EBCDIC ID - 'ERA '
0	(0)	X'0'	0	ERAVN	"0" VERSION NUMBER CURRENTLY 0
4	(4)	ADDRESS	1	ERAERAVN	CONTROL BLOCK VERSION NUMBER
5	(5)	BITSTRING	1	ERAFLAGS	FLAGS - SEE BELOW
6	(6)	BITSTRING	2		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	ERADOMID	DOM ID OF HASP095
12	(C)	ADDRESS	4	ERAERPL	IF HASP CAT. ERROR ERPL ADDRESS - OTHERWISE 0
16	(10)	SIGNED	4	ERACODE	CATASTROPHIC ERROR REASON CODE
ERROR LOCATION AND ENVIRONMENT INFORMATION SECTION					
20	(14)	ADDRESS	4	ERAFADDR	FAILING ADDR FOR ERROR

Table 174. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	4	ERAJLMOD(0)	MODMAP-STYLE ENTRY, JES2 LMOD
40	(28)	SIGNED	4	ERAELMOD(0)	MODMAP-STYLE ENTRY, ERROR LMOD
56	(38)	SIGNED	4	ERAESECT(0)	MODMAP-STYLE ENTRY, ERROR CSECT
72	(48)	SIGNED	4	ERAESRGS(3)	REGS 0,1,2 ON ENTRY TO $ABEND
72	(48)	X'48'	0	ERAESRG0	"ERAESRGS,4" REG 0 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERAESRG1	"ERAESRGS+4,4" REG 1 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERASDWA	"ERAESRG1,4,C'A'" ADDRESS OF SDWA
72	(48)	X'50'	0	ERAESRG2	"ERAESRGS+8,4" REG 2 ON ENTRY TO ESTAE ROUTINE
84	(54)	CHARACTER	8	ERAMODN	Mod name for event record
92	(5C)	CHARACTER	8	ERAMODO	Mod offset for event record
100	(64)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
104	(68)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED- OTHERWISE 0
108	(6C)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
112	(70)	ADDRESS	4	ERACPCE	VALUE OF $CURPCE AT TIME OF ERR
116	(74)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA
		$SETRP SECTION - FOLLOWING FIELDS SET BY $SETRP - DEFAULT VALUES ESTABLISHED IN $RETRY FRONTEND			
118	(76)	BITSTRING	1	ERASETRP	OPTION - I.E. RESUME, TERMINATE, OR PERCOLATE
119	(77)	BITSTRING	1	ERADTEF1	Subtask recovery flag 1 (can be modified in $STABEND VRA exit)
		1...		ERADF1MG	"B'10000000'" Suppress messages for error (HASP078/HASP088)
		.1..		ERADF1DU	"B'01000000'" Suppress SDUMP for error
		..1.		ERADF1QU	"B'00100000'" Quiet SETRP for recovery (RECORD=NO)
		...1		ERADF1NC	"B'00010000'" Do not count as an error for threshold processing
120	(78)	ADDRESS	4	ERARZOOM	ADDRESS OF POINT OF RESUMPTION (FROM RESUME=)
		END OF $SETRP SECTION END OF $SETRP SECTION REGISTER SECTION - - ON ENTRY TO PROCESSOR RECOVERY ROUTINE ERAREGS REGISTERS ARE AS THEY WERE AT TIME OF ERROR. IF $ERROR, ANY REGISTERS WIPED OUT BY $ERROR HAVE BEEN RESET TO VALUES PRIOR TO EXECUTION OF THE $ERROR MACRO. (NOTE THAT THESE REGISTER VALUES ARE FROM SDWASRSV AS OPPOSED TO SDWAGRSV) - ON RETURN TO $RETRY FROM PROCESSOR RECOVERY ROUTINE, IF $SETRP RESUME= IS SPECIFIED, THESE VALUES (ERAREGS) DETERMINE THE REGISTER CONTENTS AT POINT OF RESUMPTION, WITH THE EXECPTION OF R11 (ALWAYS R11), R13 (ALWAYS PCE ADDRESS) AND R15 (ADDRESS OF POINT OF RESUMPTION)				
124	(7C)	BITSTRING	64	ERACREGS	COPY OF REGISTER VALUES PLACED IN ERAREGS IN $ABEND, REGARDLESS OF CHANGES TO ERAREGS BY RTNS
188	(BC)	BITSTRING	64	ERACHRGS	High halves of ERACREGS
252	(FC)	BITSTRING	64	ERAREGS	Register save area
252	(FC)	SIGNED	4	ERAREG0	REGISTER 0

Table 174. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
256	(100)	SIGNED	4	ERAREG1	REGISTER 1
260	(104)	SIGNED	4	ERAREG2	REGISTER 2
264	(108)	SIGNED	4	ERAREG3	REGISTER 3
268	(10C)	SIGNED	4	ERAREG4	REGISTER 4
272	(110)	SIGNED	4	ERAREG5	REGISTER 5
276	(114)	SIGNED	4	ERAREG6	REGISTER 6
280	(118)	SIGNED	4	ERAREG7	REGISTER 7
284	(11C)	SIGNED	4	ERAREG8	REGISTER 8
288	(120)	SIGNED	4	ERAREG9	REGISTER 9
292	(124)	SIGNED	4	ERAREG10	REGISTER 10
296	(128)	SIGNED	4	ERAREG11	REGISTER 11
300	(12C)	SIGNED	4	ERAREG12	REGISTER 12
304	(130)	SIGNED	4	ERAREG13	REGISTER 13
308	(134)	SIGNED	4	ERAREG14	REGISTER 14
312	(138)	SIGNED	4	ERAREG15	REGISTER 15
316	(13C)	BITSTRING	64	ERAHRGS	High half reg save area
316	(13C)	SIGNED	4	ERAHRG0	High half register 0
320	(140)	SIGNED	4	ERAHRG1	High half register 1
324	(144)	SIGNED	4	ERAHRG2	High half register 2
328	(148)	SIGNED	4	ERAHRG3	High half register 3
332	(14C)	SIGNED	4	ERAHRG4	High half register 4
336	(150)	SIGNED	4	ERAHRG5	High half register 5
340	(154)	SIGNED	4	ERAHRG6	High half register 6
344	(158)	SIGNED	4	ERAHRG7	High half register 7
348	(15C)	SIGNED	4	ERAHRG8	High half register 8
352	(160)	SIGNED	4	ERAHRG9	High half register 9
356	(164)	SIGNED	4	ERAHRG10	High half register 10
360	(168)	SIGNED	4	ERAHRG11	High half register 11
364	(16C)	SIGNED	4	ERAHRG12	High half register 12
368	(170)	SIGNED	4	ERAHRG13	High half register 13
372	(174)	SIGNED	4	ERAHRG14	High half register 14
376	(178)	SIGNED	4	ERAHRG15	High half register 15
380	(17C)	BITSTRING	64	ERAAREGS	Access register save area
380	(17C)	SIGNED	4	ERAAR0	Access Register 0
384	(180)	SIGNED	4	ERAAR1	Access Register 1
388	(184)	SIGNED	4	ERAAR2	Access Register 2
392	(188)	SIGNED	4	ERAAR3	Access Register 3
396	(18C)	SIGNED	4	ERAAR4	Access Register 4
400	(190)	SIGNED	4	ERAAR5	Access Register 5
404	(194)	SIGNED	4	ERAAR6	Access Register 6
408	(198)	SIGNED	4	ERAAR7	Access Register 7
412	(19C)	SIGNED	4	ERAAR8	Access Register 8
416	(1A0)	SIGNED	4	ERAAR9	Access Register 9
420	(1A4)	SIGNED	4	ERAAR10	Access Register 10
424	(1A8)	SIGNED	4	ERAAR11	Access Register 11

Table 174. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
428	(1AC)	SIGNED	4	ERAAR12	Access Register 12
432	(1B0)	SIGNED	4	ERAAR13	Access Register 13
436	(1B4)	SIGNED	4	ERAAR14	Access Register 14
440	(1B8)	SIGNED	4	ERAAR15	Access Register 15
444	(1BC)	BITSTRING	8	ERAPSW	Last JES2 related PSW
452	(1C4)	BITSTRING	1	ERAINCD	Interupt code (second byte)
453	(1C5)	BITSTRING	1	ERAILC	Instruction length count
454	(1C6)	BITSTRING	2		Reserved
456	(1C8)	ADDRESS	8	ERATEA	Translation exception addr
464	(1D0)	ADDRESS	8	ERABEA	Breaking event address
472	(1D8)	ADDRESS	4	ERAREGRB	RB that contains JES2 regs (points to RB prefix)
476	(1DC)	ADDRESS	4	ERAJQE	Related JQE address
480	(1E0)	BITSTRING	12		Reserved for future use
492	(1EC)	SIGNED	4	(0)	ROUND TO FULLWORD
492	(1EC)	X'1EC'	0	ERALENG	"*-ERA" LENGTH (ROUNDED TO FULLWORD)
		ERAFLAGS BIT DEFINITIONS			
		1...		ERAEMERG	"X'80'" EMERGENCY ERA, DONT'T FREEMAIN
		.1..		ERAXMS	"X'40'" HOME ASID NOT PRIMARY AT ERROR
		..1.		ERAFRBLC	"X'20'" ERAFADDR CAME FROM $RBFADDR
		...1		ERACSAM	"X'10'" LOAD MODULE WITH ERROR IN CSA
		.... 1...		ERAARMOD	"X'08'" ASC=ARMODE at time of ABEND
		.... .1..		ERAS1J2M	"X'04'" 1st JES2 modules found in HASP088 message traceback
		.... ..1.		ERARSVF6	"X'02'" RESERVED FOR FUTURE USE
		1		ERARSVF7	"X'01'" RESERVED FOR FUTURE USE
		ERASETRP BIT DEFINITIONS			
		1...		ERATRPTM	"X'80'" TERMINATE
		.1..		ERATRPPC	"X'40'" PERCOLATE
		..1.		ERATRPRE	"X'20'" RESUME
		...1		ERAHVRGS	"X'10'" ERA HAS REGS (ON IF SDWA EXISTS)
		.... 1...		ERATRPR0	"X'08'" RESERVED FOR FUTURE USE
		.... .1..		ERATRPR1	"X'04'" RESERVED FOR FUTURE USE
		.... ..1.		ERATRPR2	"X'02'" RESERVED FOR FUTURE USE
		1		ERATRPR3	"X'01'" RESERVED FOR FUTURE USE

Table 175. Cross Reference for $ERA

Name	Offset	Hex Tag
ERA	0	
ERAAREGS	17C	
ERAARMOD	1EC	8
ERAAR0	17C	

Table 175. Cross Reference for $ERA (continued)

Name	Offset	Hex Tag
ERAAR1	180	
ERAAR10	1A4	
ERAAR11	1A8	
ERAAR12	1AC	
ERAAR13	1B0	
ERAAR14	1B4	
ERAAR15	1B8	
ERAAR2	184	
ERAAR3	188	
ERAAR4	18C	
ERAAR5	190	
ERAAR6	194	
ERAAR7	198	
ERAAR8	19C	
ERAAR9	1A0	
ERABEA	1D0	
ERACHRGS	BC	
ERACODE	10	
ERACPCE	70	
ERACREGS	7C	
ERACSAM	1EC	10
ERADF1DU	77	40
ERADF1MG	77	80
ERADF1NC	77	10
ERADF1QU	77	20
ERADOMID	8	
ERADTEF1	77	
ERAELMOD	28	
ERAEMERG	1EC	80
ERAERAID	0	C5D9C140
ERAERAVN	4	
ERAERPL	C	
ERAESECT	38	
ERAESRGS	48	
ERAESRG0	48	48
ERAESRG1	48	4C
ERAESRG2	48	50
ERAFADDR	14	
ERAFLAGS	5	
ERAFRBLC	1EC	20
ERAHRGS	13C	
ERAHRG0	13C	
ERAHRG1	140	
ERAHRG10	164	
ERAHRG11	168	
ERAHRG12	16C	

Table 175. Cross Reference for $ERA (continued)

Name	Offset	Hex Tag
ERAHRG13	170	
ERAHRG14	174	
ERAHRG15	178	
ERAHRG2	144	
ERAHRG3	148	
ERAHRG4	14C	
ERAHRG5	150	
ERAHRG6	154	
ERAHRG7	158	
ERAHRG8	15C	
ERAHRG9	160	
ERAHVRGS	1EC	10
ERAILC	1C5	
ERAINCD	1C4	
ERAJLMOD	18	
ERAJQE	1DC	
ERALENG	1EC	1EC
ERAMODN	54	
ERAMODO	5C	
ERAPRE	64	
ERAPRECT	74	
ERAPREV	68	
ERAPSVAD	6C	
ERAPSW	1BC	
ERAREGRB	1D8	
ERAREGS	FC	
ERAREG0	FC	
ERAREG1	100	
ERAREG10	124	
ERAREG11	128	
ERAREG12	12C	
ERAREG13	130	
ERAREG14	134	
ERAREG15	138	
ERAREG2	104	
ERAREG3	108	
ERAREG4	10C	
ERAREG5	110	
ERAREG6	114	
ERAREG7	118	
ERAREG8	11C	
ERAREG9	120	
ERARSVF6	1EC	2
ERARSVF7	1EC	1
ERARZOOM	78	
ERASDWA	48	4C

Table 175. Cross Reference for $ERA (continued)

Name	Offset	Hex Tag
ERASETRP	76	
ERAS1J2M	1EC	4
ERATEA	1C8	
ERATRPPC	1EC	40
ERATRPRE	1EC	20
ERATRPR0	1EC	8
ERATRPR1	1EC	4
ERATRPR2	1EC	2
ERATRPR3	1EC	1
ERATRPTM	1EC	80
ERAVN	0	0
ERAXMS	1EC	40

$ERPL information

$ERPL heading information

Common name: $ERROR parameter list

Macro ID: $ERPL

DSECT name: ERPL

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: The subpool of the assocated code module
Key: The key of the associated code module
Residency: The residency is that of the associated code module.
Virtual and real storage may be above or below 16M,
in the private storage of a JES2 or FSS address
space, or in common storage.

Size: See the ERPLLENG equate.

Created by: ERPLs are created during an assembly of a module,
in the expansion of a $ERROR macro. A table of
fixed ERPLs is also defined in the JES2 main task's
ABEND routine, representing system ABENDs (e.g SOCx).

Pointed to by: The way that ERPL is pointed to depends on the
environment (JES2, USER, SUBTASK or FSS).
- During an ABEND initiated by a $ERROR macro in the
JES2 assembly environment, the $ERRERPL field of the
HCT control block points to the associated ERPL.
- During an ABEND initiated by a $ERROR macro in the
USER or SUBTASK environment, the ERPL is expanded
immediately after the ABEND macro expansion. Its
address is therefore located from the ABEND SDWA
control block's SDWANXT2 field.
- While processing an error in a $ERROR macro in the
FSS assembly environment, $ERROR expands to a call
of the error processing routine instead of an ABEND.
The ERPL is the call parameter list, in register 14.

Serialization: ERPLs are assembled into modules, and are read-only,

Function: Two types of ERPLs exist: those generated by the $ERROR macro in the JES2, USER, SUBTASK and FSS assembly environments and those that are fixed. The first type of ERPL is a parameter list generated by the $ERROR macro that describes an error situation in which JES2 code recognizes the error and chooses to issue an ABNED. Recovery of the task may or may not be attempted, depending on the situation. The ERPL defines the JES2 error code, message text describing the error, and flags. The second type of ERPL is a fixed ERPL defined to the JES2 main task ESTAE routine that maps certain well known system errors, such as SOCx ABENDs.

$ERPL mapping

Table 176. Structure ERPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERPL	HASP $ERROR PARM LIST DSECT
0	(0)	CHARACTER	4	ERPLCODE	$ERROR CODE, W/O '$', LEFT JUSTIFIED
4	(4)	CHARACTER	8	ERPLMOD	Module with $ERROR
12	(C)	CHARACTER	8	ERPLSEQ	SEQ number of $ERROR
20	(14)	BITSTRING	1	ERPLFLG2	Flags
		1...		ERPLDAFT	"B'10000000'" AFTOKEN specified for dump
		.1..		ERPLDAFF	"B'01000000'" AFFIELD specified for dump
		..1.		ERPLDMAS	"B'00100000'" Dump all MAS members
		...1		ERPLNDMP	"B'00010000'" Take no SDUMP
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	BITSTRING	1	ERPLFLAG	FLAGS
		1...		ERPLTXTF	"X'80'" IF ON THIS ERPL HAS TEXT, ELSE ERPLTEXT CONTAINS ADDR. OF ERPL CONTAINING TEXT
		.1..		ERPLTERM	"X'40'" TERMINATE, IF ON RECOVERY ATTEMPTS NOT PERMITTED
		..1.		ERPLRIPL	"X'20'" INDICATES AN ERROR REQUIRING RE-IPL
		...1		ERPLTREG	"X'10'" On indicates R0 at ABEND has addr of error text
		.... 1...		ERPLDIS	"X'08'" $DISTERR in disguise
		.... .1..		ERPLRVO	"X'04'" RECVOPTS was specified
		.... ..1.		ERPLHCT	"X'02'" On indicates that $ERREOPT has addr of RECVOPTS
		1		ERPLPERC	"X'01'" PERCOLATE requested
The next two fields must be in this order					
23	(17)	SIGNED	1	ERPLTXTL	LENGTH OF TEXT IF ANY, ELSE UNUSED
24	(18)	ADDRESS	4	ERPLTEXT	ADDR. OF ERPL CONTAINING TEXT, OR TEXT, DEPENDING ON ERPLTXTF (NO ALIGNMENT IS INTENTIONAL)
The next field is only here if ERPLRVO is on. If ERPLTEXT contains text, this field, if specified, immediately follows that text.					
28	(1C)	CHARACTER	8	ERPLRCVO	RECVOPTS to use in recovery
28	(1C)	X'24'	0	ERPLLENG	"*-ERPL" LENGTH OF ERPL

Table 177. Structure DISTITLE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DISTITLE	
0	(0)	SIGNED	1	DISDMPL	Length of title
1	(1)	CHARACTER	26	DISTEXT	Fixed message
27	(1B)	CHARACTER	8	DISSYM	Symbol of disastrous error
27	(1B)	X'22'	0	DISTLEN	"*-DISTEXT" Length of title

Table 178. Cross Reference for $ERPL

Name	Offset	Hex Tag
DISDMPL	0	
DISSYM	1B	
DISTEXT	1	
DISTITLE	0	
DISTLEN	1B	22
ERPL	0	
ERPLCODE	0	
ERPLDAFF	14	40
ERPLDAFT	14	80
ERPLDIS	16	8
ERPLDMAS	14	20
ERPLFLAG	16	
ERPLFLG2	14	
ERPLHCT	16	2
ERPLLENG	1C	24
ERPLMOD	4	
ERPLNDMP	14	10
ERPLPERC	16	1
ERPLRCVO	1C	
ERPLRIPL	16	20
ERPLRVO	16	4
ERPLSEQ	C	
ERPLTERM	16	40
ERPLTEXT	18	
ERPLTREG	16	10
ERPLTXTF	16	80
ERPLTXTL	17	

$ERRTAB information

$ERRTAB heading information

Common name: Error count table

Macro ID: $ERRTAB

DSECT name: ERRTAB

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$$ERRTAB'
Offset: 0
Length: 8

Storage attributes:	Subpool: 0 Key: 1 Residency: 31 bit storage
Size:	See ERRTABLN for the length of the table used by the JES2 main task.
Created by:	During initialization in private storage.
Pointed to by:	$ERRTABA field of the $HCT data area
Serialization:	None.
Function:	Provides data for monitor subtask about the various error types and their corresponding counts

$ERRTAB mapping

Table 179. Structure ERRTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERRTAB	Error count table
0	(0)	CHARACTER	8	ERRTABID	ERRTAB Eyecatcher
8	(8)	SIGNED	4	ERRTABLN	Error table size
12	(C)	BITSTRING	1	ERRTNENT	Number of entries
16	(10)	SIGNED	4	ERRFRST(0)	Start of element array
16	(10)	X'10'	0	ERRPRFX	"*-ERRTAB" Length of prefix

Table 180. Structure ERRELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERRELE	Element of array
0	(0)	CHARACTER	8	ERRNAME	Name of error
8	(8)	SIGNED	4	ERRCOUNT	Count of errors
12	(C)	ADDRESS	1	ERRCATGR	Category of errors defined in $RVSTACK
16	(10)	SIGNED	4	(0)	
16	(10)	X'10'	0	ERRENTSZ	"*-ERRELE" Length of one entry

Table 181. Cross Reference for $ERRTAB

Name	Offset	Hex Tag
ERRCATGR	C	
ERRCOUNT	8	
ERRELE	0	
ERRENTSZ	10	10
ERRFRST	10	
ERRNAME	0	
ERRPRFX	10	10
ERRTAB	0	
ERRTABID	0	5B5BC5D9
ERRTABLN	8	
ERRTNENT	C	

$EVT information

$EVT programming interface information

$EVT is a programming interface.

$EVT heading information

Common name:	HASP ENF LISTEN Event DSECT
Macro ID:	$EVT
DSECT name:	EVT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'EVT ' Offset: EVTID-EVT Length: L'EVTID
Storage attributes:	Subpool: n/a Key: 1 Residency: jesxEVT data space
Size:	See EVTLEN
Created by:	HASCENF
Pointed to by:	CCTENFQH field of the $HCCT data area CCTENFQT field of the $HCCT data area EVTNEXT field of the $EVT data area EVTPREV field of the $EVT data area
Serialization:	-The EVTs chained from the HCCT are serialized using the $FIFOENQ and $FIFODEQ services.
Function:	The EVT defines ENF LISTEN events which have been queued, by the ENF LISTEN exits in HASCENF, for processing by the JES2 main task.

$EVT mapping

Table 182. Structure EVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVT	
0	(0)	CHARACTER	4	EVTID	EVT identifier
4	(4)	ADDRESS	1	EVTVRSN	Current version in storage
4	(4)	X'1'	0	EVTCURVN	"1" Current version number
5	(5)	BITSTRING	1	EVTFLAG1	EVT flags
		1...		EVT1GETM	"B'10000000'" EVTPARMS contains a pointer to CSA containing EVT data
6	(6)	SIGNED	2	EVTTYPE	Type - for a branch table
6	(6)	X'0'	0	EVT41GL	"0" Event type 41 - WLMENF12
6	(6)	X'4'	0	EVT41CP	"4" Event type 41 - WLMENF22
6	(6)	X'8'	0	EVT42	"8" Event type 42 - SRMENF15
6	(6)	X'C'	0	EVT46	"12" Event type 46 - OMVS active
6	(6)	X'10'	0	EVT56	"16" Event type 56 - reset job
6	(6)	X'14'	0	EVT57CM	"20" Event type 57 - command
6	(6)	X'18'	0	EVT57RV	"24" Event type 57 - recovery
6	(6)	X'1C'	0	EVT62	"28" Event type 62 - RACF SETR
6	(6)	X'20'	0	EVT58JU	"32" Event type 58 - JOE update
6	(6)	X'24'	0	EVT58	"36" Event type 58 - Data set
6	(6)	X'28'	0	EVT70	"40" Event type 70 - Job status

Table 182. Structure EVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'2C'	0	EVT53	"44" Event type 53 - Time offset
8	(8)	ADDRESS	4	EVTNEXT	Next EVT on queue
12	(C)	ADDRESS	4	EVTPREV	Previous EVT on Q
		Event parameters as passed to LISTEN exit			
16	(10)	DBL WORD	8	EVTPARMS(0)	Event Parameters
16	(10)	ADDRESS	4	EVTCDATA	Address when data is in CSA
16	(10)	CHARACTER	4		Event 41 parameters
16	(10)	CHARACTER	4		Event 42 parameters
16	(10)	CHARACTER	84		Event 56 parameters
16	(10)	CHARACTER	48		Event 57 parameters
16	(10)	CHARACTER	24		Event 62 parameters
16	(10)	CHARACTER	320		Event 58
16	(10)	CHARACTER	216		70
16	(10)	BITSTRING	8		Event 53
336	(150)	X'140'	0	EVTPARML	"*-EVTPARMS" Length of largest parms
336	(150)	DBL WORD	8	(0)	Round length to double word
336	(150)	X'150'	0	EVTLENG	"*-EVT" EVT Length

Table 183. Cross Reference for $EVT

Name	Offset	Hex Tag
EVT	0	
EVTCDATA	10	
EVTCURVN	4	1
EVTFLAG1	5	
EVTID	0	
EVTLENG	150	150
EVTNEXT	8	
EVTPARML	150	140
EVTPARMS	10	
EVTPREV	C	
EVTTYPE	6	
EVTVRSN	4	
EVT1GETM	5	80
EVT41CP	6	4
EVT41GL	6	0
EVT42	6	8
EVT46	6	C
EVT53	6	2C
EVT56	6	10
EVT57CM	6	14
EVT57RV	6	18
EVT58	6	24
EVT58JU	6	20
EVT62	6	1C

Table 183. Cross Reference for $EVT (continued)

Name	Offset	Hex Tag
EVT70	6	28

$EZA information

$EZA programming interface information

$EZA is a programming interface.

$EZA heading information

Common name:	EZASMI work areas
Macro ID:	$EZA
DSECT name:	EZA
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	EZA Offset: EZAID Length: 4
Storage attributes:	Subpool: 0 Key: 1 Residency: VIRTUAL - anywhere REAL - anywhere
Size:	See SCKLEN
Created by:	Jes2 initialization
Pointed to by:	$EZAADDR field of the HCT data area
Serialization:	JES2 main task
Function:	Work areas for TCP/IP functions from JES2 main task

$EZA mapping

Table 184. Structure EZA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EZA	EZASMI work area DSECT
0	(0)	CHARACTER	4	EZAID	Control block identifier
0	(0)	X'1'	0	EZAVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	EZAVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	DBL WORD	8	(0)	
8	(8)	BITSTRING	8	EZAGBL	Global work area for the JES2 address space
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	176	EZATASK	Task work area for the JES2 Main Task
192	(C0)	DBL WORD	8	(0)	
192	(C0)	SIGNED	2	EZAMXSOC	Max sockets value
194	(C2)	SIGNED	2		Reserved
196	(C4)	SIGNED	4	EZAMXSNO	Max socket number
200	(C8)	SIGNED	4	EZAERRNO	ERRNO value
204	(CC)	SIGNED	4	EZARETCD	RETCD value
208	(D0)	SIGNED	4	EZADUBER	ERRNO value for DUBJOBPERM
212	(D4)	SIGNED	4	EZADUBRT	RETCD value for DUBJOBPERM

Table 184. Structure EZA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	SIGNED	2	EZAIPLNG	Length value
218	(DA)	BITSTRING	1	EZAFLAG1	Flags
		1...		EZA1RCOV	"B'10000000'" Recovery recursion flag
		.1..		EZA1DUBP	"B'01000000'" JES2 dubbed permanent process
		..1.		EZA1ENF	"B'00100000'" ENF 46 received
219	(DB)	BITSTRING	133	EZAWIPAD	Work area for IP address
352	(160)	DBL WORD	8	(0)	
352	(160)	BITSTRING	256	EZAWORK	Working storage
608	(260)	DBL WORD	8	(0)	
608	(260)	X'260'	0	EZALENTH	"*-EZA" IP address for socket

Table 185. Cross Reference for $EZA

Name	Offset	Hex Tag
EZA	0	
EZADUBER	D0	
EZADUBRT	D4	
EZAERRNO	C8	
EZAFLAG1	DA	
EZAGBL	8	
EZAID	0	
EZAIPLNG	D8	
EZALENTH	260	260
EZAMXSNO	C4	
EZAMXSOC	C0	
EZARETCD	CC	
EZATASK	10	
EZAVRNUM	0	1
EZAVRSN	4	
EZAWIPAD	DB	
EZAWORK	160	
EZA1DUBP	DA	40
EZA1ENF	DA	20
EZA1RCOV	DA	80

$FCLWORK information

$FCLWORK heading information

Common name: JES2 FSS Cleanup on EOM PCE Work Area

Macro ID: $FCLWORK

DSECT name: PCE ($FCLWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol FCLPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $FCLPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by a JES2 FSS Cleanup on EOM Processor and by its support routines and exits. $FCLWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $FCLWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEFCLID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$FCLWORK mapping

Table 186. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	DBL WORD	8	(0)	Force double-word alignment
328	(148)	X'0'	0	FCLPCEWS	"*-PCEWORK" Length of work area

$FSACB information

$FSACB programming interface information

$FSACB is a programming interface.

$FSACB heading information

Common name: JES2 FSA Control Block

Macro ID: $FSACB

DSECT name: FSACB

Owning component: JES2 (SC1BH)

Eye-catcher ID: FSA
Offset: FSACBID-FSACB
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage is anywhere in CSA.

Size: See FSACBLEN

Created by: HASPFSSP

Pointed to by: FSSFSACH field of the $FSSCB data area

Serialization: The FSACB chain is serialized via the local and CMS locks.

Function: The FSACB is the function subsystem application level control block.

$FSACB mapping

Table 187. Structure FSACB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSACB	FSA CONTROL BLOCK DSECT
0	(0)	CHARACTER	4	FSACBID	FSA CONTROL BLOCK ID
4	(4)	ADDRESS	4	FSAFSID	FSID FOR THIS FSA
4	(4)	X'6'	0	FSAID	"FSAFSID+2,2,C'A'" ID FOR THIS FSA WITHIN FSS
8	(8)	ADDRESS	4	FSAFSSA	POINTER TO PARENT FSS
12	(C)	ADDRESS	4	FSACHAIN	CHAIN PTR FOR FSA,LOCK SERIAL
16	(10)	ADDRESS	4	FSAEXTN	A(FSACB EXTENSION IN FSS ASID)
20	(14)	ADDRESS	4	FSATCB	ADDRESS OF TCB CONNECTING FSA
24	(18)	ADDRESS	4	FSAEDECB	ECB FOR ERROR DCON
28	(1C)	SIGNED	4	FSAXECB(0)	XECB TO POST FSS SERVICE PCE
52	(34)	CHARACTER	4	FSAUNIT	ADDRESS OF DEVICE OWNED BY FSA
52	(34)	X'35'	0	FSAUNIT3	"FSAUNIT+1,3" 3-digit devnum - note that FSAUNIT must begin with 0
56	(38)	CHARACTER	8	FSADEVN	NAME OF DEVICE OWNED BY FSA
These four fields must remain together					
64	(40)	ADDRESS	4	FSAREQQS	A(REQUEST JIB STACK)
68	(44)	ADDRESS	4	FSAACTQS	A(ACTIVE JIB PSEUDO-STACK)
72	(48)	ADDRESS	4	FSARETQS	A(RETURN JIB STACK)
For a return request, while the FSS PCE is waiting for a CKPT write, the JIB address is saved here.					
76	(4C)	ADDRESS	4	FSAJIBSV	JIB save area
76	(4C)	X'10'	0	FSALENQS	"*-FSAREQQS" LGTH OF JIB QUEUE POINTER FLDS
80	(50)	SIGNED	2	FSAJQECP	JOBNO OF PREV CANCELLED JOB
82	(52)	SIGNED	2	FSAJOECT	COUNT OF JOES ASSIGNED TO FSA
PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPFSSM. THIS MATCHES THE ONE DEFINED IN $PPPWORK.					
84	(54)	SIGNED	4	FSAAPARM(0)	PARM LIST FOR PRTAUTH
84	(54)	ADDRESS	4	FSAJCTAD	JCT ADDRESS
88	(58)	ADDRESS	4	FSAPDDBA	PDDB ADDRESS
92	(5C)	ADDRESS	4	FSAANEWS	JESNEWS ADDRESS
96	(60)	CHARACTER	40	FSALOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
136	(88)	ADDRESS	4		RESERVED FOR FUTURE USE END OF PRTAUTH PARM LIST
140	(8C)	SIGNED	4	FSAFLAGS(0)	FSA FLAGS
140	(8C)	BITSTRING	1	FSAFLAG1	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
141	(8D)	BITSTRING	1	FSAFLAG2	FLAG BYTE - GENERAL USAGE
142	(8E)	BITSTRING	1	FSAFLAG3	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
143	(8F)	BITSTRING	1	FSAFLAG4	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
144	(90)	SIGNED	4	FSAFLAG(0)	MORE FSA FLAGS

Table 187. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	1	FSAFLAGO	FLAG BYTE - FSI ORDER USAGE
145	(91)	BITSTRING	1	FSAFLAGI	FLAG BYTE - SETUP FOR FSA REQUIRES OPERATOR INTVNTN, SEE ORDIVFI IN IAZFSIP FOR BIT DEFINITIONS
146	(92)	BITSTRING	1	FSAFLAGR	FLAG BYTE - RAS, TRACING Note: Update with NIL/OIL
147	(93)	BITSTRING	1	FSAFLAG5	FLAG BYTE - ESTAE INDICATOR Note: Update with NIL/OIL
FSAFLAG5 FLAG5 BYTE - BIT DEFINITIONS Note: Use NIL/OIL to update.					
		1...		FSA5PCAB	"B'10000000'" ABEND OF PC'D ORDER/ POST FSSM
		.1..		FSA5PINT	"B'01000000'" DEVICE INTERVENTION-REQUIRED CONDITION
		..1.		FSA5OINT	"B'00100000'" OPERATOR INTERVENTION ORDER REQUIRED
		...1		FSA5DONE	"B'00010000'" FSSP MAY NOW FREE FSACB
		.... 1...		FSA5DNRC	"B'00001000'" Device not responding condition
		.... .1..		FSA5DSRP	"B'00000100'" FSA repositioning within DS
		.... ..1.		FSA5BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSA5BIT7	"B'00000001'" RESERVED FOR FUTURE USE
148	(94)	ADDRESS	4	FSAPCE	ADDRESS OF ASSOCIATED PCE
152	(98)	SIGNED	4	FSAFLAGA(0)	Additional FSA flags
152	(98)	BITSTRING	1	FSAFLAG6	Flag byte - to be used in FSS address space only
FSAFLAG6 FLAG6 byte - bit def.					
		1...		FSA6DSNA	"B'10000000'" Data set was not allocated in previous GETDS
153	(99)	BITSTRING	1	FSAFLAG7	Flag byte - modified only from JES address space
FSAFLAG7 FLAG7 byte - bit def.					
		1...		FSA7JISF	"B'10000000'" JES initiated Stop FSA - order is not being simulated
		.1..		FSA701IS	"B'01000000'" For this FSA HASP701 - FSA FAILED TO DISCONNECT issued during response processing
154	(9A)	BITSTRING	2		Reserved for future use
156	(9C)	SIGNED	4		Reserved for future use
160	(A0)	SIGNED	4	(0)	END OF FSA DSECT
160	(A0)	X'A0'	0	FSACBLEN	"*-FSACB" LENGTH OF THE FSA CONTROL BLOCK
FSAFLAG1 Note: Use NIL/OIL to update.					
		1...		FSAOROUT	"B'10000000'" FSA ORDER OUTSTANDING
		.1..		FSARSOUT	"B'01000000'" FSA RESPONSE OUTSTANDING
		..1.		FSAQUIES	"B'00100000'" QUIESCE THE DEVICE

Table 187. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		FSASTPDV	"B'00010000'" STOP THE DEVICE (DEV QUIESCED)
		.... 1...		FSADRAIN	"B'00001000'" STOP THE FSA (DEV DRAINED)
		.... .1..		FSAHALT	"B'00000100'" HALT THE DEVICE
		.... ..1.		FSAZDEV	"B'00000010'" SYNCH ORDER REQUIRED TO $Z DEV
		1		FSADVCST	"B'00000001'" DEVICE HAS BEEN STARTED
FSAFLAG2					
		1...		FSACTIVE	"B'10000000'" FSA IS ACTIVE
		.1..		FSAHSERR	"B'01000000'" NO MATCHING DCT, JES2 HOT START
		..1.		FSAFJSPG	"B'00100000'" JOB SEPARATOR PRINTING ON
		...1		FSAFDSPG	"B'00010000'" DS SEPARATOR PRINTING ON
		.... 1...		FSAEDGMK	"B'00001000'" MARK FORMS ON
		.... .1..		FSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSADUMP	"B'00000010'" DUMP REQUESTED ON STOP DEVICE
		1		FSAOPIR	"B'00000001'" OPERATOR INTERVENTION REQUESTED
FSAFLAG3 Note: Use NIL/OIL to update.					
		1...		FSAGTDSP	"B'10000000'" POST FSA FOR GETDS COMPLETION
		.1..		FSAOINIT	"B'01000000'" INITIAL OP. INTERVENTION NEEDED
		..1.		FSAFRMSC	"B'00100000'" SETUP REQUIRED FOR FORMS
		...1		FSAFLSHC	"B'00010000'" SETUP REQUIRED FOR FLASH
		.... 1...		FSABRSTC	"B'00001000'" SETUP REQUIRED FOR BURSTER
160	(A0)	X'38'	0	FSASETUP	"FSAFRMSC+FSAFLSHC+FSABRSTC" SETUP REQUIRED MASK
		.... .1..		FSAUPDTK	"B'00000100'" OPERATOR INTERVENTION ORDER REQ'D TO UPDATE INTERVENTION TOKENS
		.... ..1.		FSASTCHG	"B'00000010'" OPERATOR ISSUED $T DURING SETUP REQUEST - FORCE GETDS
		1		FSA3JREQ	"B'00000001'" JIB REQUEST NEEDED BY GETDS
FSAFLAG4 Note: Use NIL/OIL to update. THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE FOR HASPCOMM PROCESSING					
		1...		FSA4TCEL	"B'10000000'" DEV SET TO TRK-CELL DESPOOL
		.1..		FSA4NPSL	"B'01000000'" NO DATA SET PRESELECTION
		..1.		FSA4FIT	"B'00100000'" FSA INITIATED TERM REQUEST

Table 187. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		FSA4NHLT	"B'00010000'" DEV IS 'SETUP=NOHALT'
		.... 1...		FSA4CMNO	"B'00001000'" COPYMARKS NONE
		.... .1..		FSA4CMDS	"B'00000100'" INCREMENT COPYMARKS FOR DS
		.... ..1.		FSA4CMJB	"B'00000010'" INCREMENT COPYMARKS FOR JOB
		1		FSA4CNST	"B'00000001'" COPYMARKS REMAIN CONSTANT
160	(A0)	X'F'	0	FSA4CPYM	"FSA4CMDS+FSA4CMJB+FSA4CNST+FSA4CMNO" COPYMARKS RESET
FSAFLAGO					
		1...		FSABKWDO	"B'10000000'" SYNCH OUTSTANDING FOR $B
		.1..		FSAFWRDO	"B'01000000'" SYNCH OUTSTANDING FOR $F
		..1.		FSARSRTO	"B'00100000'" SYNCH OUTSTANDING FOR $E
		...1		FSACNCLO	"B'00010000'" SYNCH OUTSTANDING FOR $C
		.... 1...		FSAINRTO	"B'00001000'" SYNCH OUTSTANDING FOR $I
		.... .1..		FSAHALTO	"B'00000100'" SYNCH OUTSTANDING FOR $Z
		.... ..1.		FSACJPO	"B'00000010'" SYNCH OUTSTANDING FOR $CJ,P
		1		FSAQRYO	"B'00000001'" QUERY OUTSTANDING FOR $DU
FSAFLAGR Note: Use NIL/OIL to update.					
		1...		FSATRACE	"B'10000000'" PROCESSOR TRACING IS ON
		.1..		FSACNECT	"B'01000000'" FSA IS FULLY CONNECTED
		..1.		FSADCON	"B'00100000'" FSA IS(WILL) DISCONNECT
		...1		FSADCONX	"B'00010000'" JES2 IS EXPECTING DISCONNECT
		.... 1...		FSAEOT	"B'00001000'" FSA IS IN (THROUGH) EOT
		.... .1..		FSAFDRAN	"B'00000100'" FORCE DRAIN THE FSA
		.... ..1.		FSACMDA	"B'00000010'" FSS DEVICE COMMAND ACTIVE
		1		FSAROLTR	"B'00000001'" FSA rolling trace on

Table 188. Cross Reference for $FSACB

Name	Offset	Hex Tag
FSAACTQS	44	
FSAANEWS	5C	
FSAAPARM	54	
FSABEND	A0	4
FSABKWDO	A0	80
FSABRSTC	A0	8
FSACB	0	
FSACBID	0	

Table 188. Cross Reference for $FSACB (continued)

Name	Offset	Hex Tag
FSACBLEN	A0	A0
FSACHAIN	C	
FSACJPO	A0	2
FSACMDA	A0	2
FSACNCLO	A0	10
FSACNECT	A0	40
FSACTIVE	A0	80
FSADCON	A0	20
FSADCONX	A0	10
FSADEVN	38	
FSADRAIN	A0	8
FSADUMP	A0	2
FSADVCST	A0	1
FSAEDECB	18	
FSAEDGMK	A0	8
FSAEOT	A0	8
FSAEXTN	10	
FSAFDRAN	A0	4
FSAFDSPG	A0	10
FSAFJSPG	A0	20
FSAFLAG	90	
FSAFLAGA	98	
FSAFLAGI	91	
FSAFLAGO	90	
FSAFLAGR	92	
FSAFLAGS	8C	
FSAFLAG1	8C	
FSAFLAG2	8D	
FSAFLAG3	8E	
FSAFLAG4	8F	
FSAFLAG5	93	
FSAFLAG6	98	
FSAFLAG7	99	
FSAFLSHC	A0	10
FSAFRMSC	A0	20
FSAFSID	4	
FSAFSSA	8	
FSAFWRDO	A0	40
FSAGTDSP	A0	80
FSAHALT	A0	4
FSAHALTO	A0	4
FSAHSERR	A0	40
FSAID	4	6
FSAINRTO	A0	8
FSAJCTAD	54	
FSAJIBSV	4C	

Table 188. Cross Reference for $FSACB (continued)

Name	Offset	Hex Tag
FSAJOECT	52	
FSAJQECP	50	
FSALENQS	4C	10
FSALOGST	60	
FSAOINIT	A0	40
FSAOPIR	A0	1
FSAOROUT	A0	80
FSAPCE	94	
FSAPDDBA	58	
FSAQRYO	A0	1
FSAQUIES	A0	20
FSAREQQS	40	
FSARETQS	48	
FSAROLTR	A0	1
FSARSOUT	A0	40
FSARSRTO	A0	20
FSASETUP	A0	38
FSASTCHG	A0	2
FSASTPDV	A0	10
FSATCB	14	
FSATRACE	A0	80
FSAUNIT	34	
FSAUNIT3	34	35
FSAUPDTK	A0	4
FSAXECB	1C	
FSAZDEV	A0	2
FSA3JREQ	A0	1
FSA4CMDS	A0	4
FSA4CMJB	A0	2
FSA4CMNO	A0	8
FSA4CNST	A0	1
FSA4CPYM	A0	F
FSA4FIT	A0	20
FSA4NHLT	A0	10
FSA4NPSL	A0	40
FSA4TCEL	A0	80
FSA5BIT6	93	2
FSA5BIT7	93	1
FSA5DNRC	93	8
FSA5DONE	93	10
FSA5DSRP	93	4
FSA5OINT	93	20
FSA5PCAB	93	80
FSA5PINT	93	40
FSA6DSNA	98	80
FSA7JISF	99	80

Table 188. Cross Reference for $FSACB (continued)

Name	Offset	Hex Tag
FSA701IS	99	40

$FSAXB information

$FSAXB programming interface information

$FSAXB is a programming interface.

$FSAXB heading information

Common name: FSA Control Block Extension

Macro ID: $FSAXB

DSECT name: FAXB

Owning component: JES2 (SC1BH)

Eye-catcher ID: FAXB
Offset: FAXBCBID-FAXB
Length: L'FAXBCBID

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is above the 16M line if the FSS supports running in 31 bit AMODE. Otherwise it is below the 16M line. Storage is located in the private area of the FSS address space.

Size: See FAXBLEN

Created by: HASPFSSM during FSA connect

Pointed to by: FSAEXTN field of the $FSACB data area

Serialization: None required

Function: This area provides private address space working storage for FSA level FSI requests.

$FSAXB mapping

Table 189. Structure FAXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FAXB	FSA CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FAXBCBID	FSA CONTROL BLOCK EXT ID
4	(4)	SIGNED	4	FAXBFSID	FUNCTIONAL SUBSYSTEM APPLICATION ID
8	(8)	ADDRESS	4	FAXBFSAA	A(FSACB) FOR THIS EXTENSION
12	(C)	ADDRESS	4	FAXBRECB	ECB FOR HALT DEVICE ($Z) CMD
16	(10)	SIGNED	4	FAXBFSIP(0)	ORDER FSIREQ PARM LIST
220	(DC)	SIGNED	4	FAXBFSIR(0)	ORDER RESPONSE AREA
280	(118)	SIGNED	4	FAXBPOST(0)	POST FSIREQ PARM LIST
316	(13C)	SIGNED	4	FAXBPSAV(18)	POST SAVE AREA
316	(13C)	X'13C'	0	FAXBOSAV	"FAXBPSAV" ORDER SAVE AREA
388	(184)	ADDRESS	4	FAXBSJIB	ADDR OF JIB REQUIRING SETUP
392	(188)	SIGNED	4	FAXBJCJP	Job number of $CJ,P job
				THE FIELDS THROUGH FAXBBRST MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMO THESE FIELDS REPRESENT THE CURRENT DEVICE SETUP.	
396	(18C)	BITSTRING	8	FAXBFRMS	CURRENT FORMS ID ON DEVICE

Table 189. Structure FAXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
404	(194)	CHARACTER	0	FAXBWFRM(0)	
468	(1D4)	CHARACTER	4	FAXBFLSH	CURRENT FLASH ID ON DEVICE
472	(1D8)	CHARACTER	4	FAXBFCB	CURRENT FCB ID ON DEVICE
476	(1DC)	CHARACTER	4	FAXBUCS	CURRENT UCS ID ON DEVICE
480	(1E0)	CHARACTER	1	FAXBBRST	CURRENT BURST SETTING (Y/N)
480	(1E0)	X'55'	0	FAXBDLEN	"*-FAXBFRMS" LENGTH FOR SETUP PARMS
481	(1E1)	CHARACTER	1	FAXBFLSD	DEFAULT FLASH ID FOR DEVICE
THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.					
485	(1E5)	BITSTRING	8	FAXBFRMO	ORIGINAL FORMS ID FOR DEVICE
493	(1ED)	CHARACTER	0	FAXBWFRO(0)	
557	(22D)	CHARACTER	4	FAXBFLSO	ORIGINAL FLASH ID FOR DEVICE
561	(231)	CHARACTER	4	FAXBFCBO	ORIGINAL FCB ID ON DEVICE
565	(235)	CHARACTER	4	FAXBUCSO	ORIGINAL UCS ID ON DEVICE
569	(239)	CHARACTER	1	FAXBBSTO	ORIGINAL BURST SETTING (Y/N)
Work area for ASAXWC macros MACDATE -12/21/18-<0>					
0	(0)	X'23C'	0	M00M1255	"FAXLIST" ++ ASAXWC NAME
572	(23C)	SIGNED	4	FAXLIST(0)	++ ASAXWC PARM LIST
572	(23C)	CHARACTER	4	FAXLIST_XPARMAREA1	++ FIELD_LABEL
576	(240)	CHARACTER	24	FAXLIST_XPARMAREA2	++ FIELD_LABEL
576	(240)	X'258'	0	FAXLIST_PL_END	"*" ++ END OF BASE PLIST
572	(23C)	ADDRESS	4	FAXLIST_XPATTERNSTR_ADDR	++ ADDR
576	(240)	SIGNED	4	FAXLIST_XPATTERNSTRLEN	++
580	(244)	ADDRESS	4	FAXLIST_XSTRING_ADDR	++ ADDR
584	(248)	SIGNED	4	FAXLIST_XSTRINGLEN	++
588	(24C)	ADDRESS	4	FAXLIST_XZEROORMORE_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XONECHAR_ADDR	++ ADDR
596	(254)	ADDRESS	4	FAXLIST_XDELIMITER_ADDR	++ ADDR
572	(23C)	ADDRESS	4	FAXLIST_XPPPATTERNINFO_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPPATTERNSTR_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPPATTERNSTRLEN	++
584	(248)	ADDRESS	4	FAXLIST_XPPZEROORMORE_ADDR	++ ADDR
588	(24C)	ADDRESS	4	FAXLIST_XPPONECHAR_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XPPDELIMITER_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPSTRING_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPSTRINGLEN	++
600	(258)	X'1C'	0	FAXLISTL	"*-FAXLIST" ++ LENGTH OF PLIST
ASAXWC-0					
600	(258)	BITSTRING	256	FAXAREA	Work area passed to ASAXWC
856	(358)	DBL WORD	8	(0)	

Table 189. Structure FAXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
856	(358)	X'358'	0	FAXBLEN	"*-FAXB" LENGTH OF THE FSA CNTL BLOCK EXT

Table 190. Cross Reference for $FSAXB

Name	Offset	Hex Tag
FAXAREA	258	
FAXB	0	
FAXBBRST	1E0	
FAXBBSTO	239	
FAXBCBID	0	
FAXBDLEN	1E0	55
FAXBFCB	1D8	
FAXBFCBO	231	
FAXBFLSD	1E1	
FAXBFLSH	1D4	
FAXBFLSO	22D	
FAXBFRMO	1E5	
FAXBFRMS	18C	
FAXBFSAA	8	
FAXBFSID	4	
FAXBFSIP	10	
FAXBFSIR	DC	
FAXBJCJP	188	
FAXBLEN	358	358
FAXBOSAV	13C	13C
FAXBPOST	118	
FAXBPSAV	13C	
FAXBRECB	C	
FAXBSJIB	184	
FAXBUCS	1DC	
FAXBUCSO	235	
FAXBWFRM	194	
FAXBWFRO	1ED	
FAXLIST	23C	
FAXLIST_PL_END	240	258
FAXLIST_XDELIMITER_ADDR	254	
FAXLIST_XONECHAR_ADDR	250	
FAXLIST_XPARMAREA1	23C	
FAXLIST_XPARMAREA2	240	
FAXLIST_XPATTERNSTR_ADDR	23C	
FAXLIST_XPATTERNSTRLEN	240	
FAXLIST_XPPDELIMITER_ADDR	250	
FAXLIST_XPPONECHAR_ADDR	24C	
FAXLIST_XPPPATTERNINFO_ADDR	23C	
FAXLIST_XPPPATTERNSTR_ADDR	240	
FAXLIST_XPPPATTERNSTRLEN	244	

Table 190. Cross Reference for $FSAXB (continued)

Name	Offset	Hex Tag
FAXLIST_XPPSTRING_ADDR	240	
FAXLIST_XPPSTRINGLEN	244	
FAXLIST_XPPZEROORMORE_ADDR	248	
FAXLIST_XSTRING_ADDR	244	
FAXLIST_XSTRINGLEN	248	
FAXLIST_XZEROORMORE_ADDR	24C	
FAXLISTL	258	1C
M00M1255	0	23C

$FSSCB information

$FSSCB programming interface information

The following fields are **NOT** programming interface information:

- FSSAXL
- FSSETL
- FSSLXL
- FSSLXV

$FSSCB heading information

Common name:	JES2 FSS Control Block
Macro ID:	$FSSCB
DSECT name:	FSSCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'FSS ' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage is anywhere.
Size:	See FSSCBLEN
Created by:	DYNFSS in HASPFSSP
Pointed to by:	CCTFSSCB field of the HCCT data area (first FSSCB) FSSCHAIN field of the previous FSSCB data area
Serialization:	The chain can be added to by the JES2 main task. At this time the chain cannot be broken to accomplish a delete.
Function:	The FSSCB represents a functional subsystem (FSS) defined to JES2. It points to the FSSXB in the FSS address space, and the chain of FSACB's for applications assigned to the FSS.

$FSSCB mapping

Table 191. Structure FSSCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSSCB	FSS CONTROL BLOCK DSECT
0	(0)	CHARACTER	8	FSSNAME	FUNCTIONAL SUBSYSTEM NAME
8	(8)	CHARACTER	8	FSSPROCN	CATALOGED PROC NAME FOR FSS

Table 191. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	8	FSSFSSMN	FSS SUPPORT MODULE NAME (FSSM)
24	(18)	SIGNED	4	FSSFSSML	FSS SUPPORT MODULE LENGTH
28	(1C)	ADDRESS	4	FSSCHAIN	ADDR OF NEXT FSSCB OFF CCTFSSCB
32	(20)	ADDRESS	2	FSSASID	ASID FOR THE FSS ADDRESS SPACE
34	(22)	ADDRESS	2	FSSFSSID	FSS PORTION OF FSID FOR FSAS
	HASPFSSM CROSS MEMORY SERVICE TABLES				
36	(24)	SIGNED	4	FSSLXL(0)	LINKAGE INDEX (LX) LIST
36	(24)	SIGNED	4	FSSLXN	NUMBER OF LXS REQUESTED
40	(28)	SIGNED	4	FSSLXV	VALUE (LX) RETURNED BY LXRES
44	(2C)	SIGNED	4	FSSAXL(0)	AUTHORIZATION INDEX (AX) LIST
44	(2C)	SIGNED	2	FSSAXN	NUMBER OF AXS REQUESTED
46	(2E)	SIGNED	2	FSSAXV	VALUE (AX) RETURNED BY AXRES
48	(30)	SIGNED	2	FSSAXSV	ORIGINAL AX, SAVED AFTER AXSET
50	(32)	ADDRESS	2		RESERVED FOR FUTURE USE
52	(34)	SIGNED	4	FSSETL(0)	ENTRY TABLE (ET) LIST
52	(34)	SIGNED	4	FSSETN	NUMBER OF ETS CREATED
56	(38)	SIGNED	4	FSSETV	VALUE (TOKEN) RETURNED BY ETCRE
	PC NUMBERS FOR CROSS MEMORY SERVICES ROUTINES IN HASPFSSM (MUST BE IN SAME ORDER AS PC ENTRY POINTS IN $HFCT) AND CROSS-MEMORY COMMUNICATION ECBS.				
60	(3C)	SIGNED	4	FSSPC(0)	
60	(3C)	ADDRESS	4	FSSORDPC	PC # OF XMS FSI-ORDER ROUTINE
64	(40)	ADDRESS	4	FSSPSTPC	PC # OF XMS FSI-POST ROUTINE
68	(44)	SIGNED	4	FSSXECB(0)	XECB TO POST PCE FOR FSS
68	(44)	X'48'	0	FSSDCTCH	"XECBPCE-XECB+FSSXECB" A(DCT CHAIN DURING JES2 INIT OR RE-INIT (HOT START)
92	(5C)	SIGNED	4	FSSEDECB	ECB FOR DISCONNECT COORDINATION
	MISCELLANEOUS CONTROL FIELDS AND FLAG BYTES				
96	(60)	ADDRESS	4	FSSQCTS	Address of QCT area
100	(64)	ADDRESS	4	FSSHFCT	A(HFCT IN FSSM FOR THIS FSS)
104	(68)	ADDRESS	4	FSSRCRTN	A(FSMRCRTN SRB RECONNECT RTN)
108	(6C)	ADDRESS	4	FSSFSACH	A(FSACB CHAIN FOR THIS FSS)
112	(70)	ADDRESS	4	FSSEXTN	A(FSS EXTENSION-FSS ADDR SPACE)
116	(74)	ADDRESS	4	FSSTCB	ADDRESS OF TCB CONNECTING FSS
120	(78)	SIGNED	2	FSSFSAMI	MAX FSA ID IN FSIDS WITHIN FSS
122	(7A)	SIGNED	2	FSSDIFM	COUNT OF DCTS IN FSS MODE
124	(7C)	SIGNED	2	FSSFSVTE	NUMBER OF ENTRIES IN THE FSVT IF THE FSS IS ACTIVE
126	(7E)	SIGNED	2	FSSFSVTL	Lowest valid FSA id in the FSVT if the FSS is active
128	(80)	SIGNED	2		Reserved for future use
130	(82)	BITSTRING	1		Reserved for future use
131	(83)	BITSTRING	1	FSSFLAG4	General status flag. This flag is set only by the FSS address space. No serialization is required

Table 191. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		FSSFLAG4 - If neither of the following bits is ON, then this FSS does NOT support IP-format destination routing.			
		1...		FSS4IP	"B'10000000'" FSS supports ONLY IP-format
		.1..		FSS4BOTH	"B'01000000'" FSS supports BOTH IP&non-IP
132	(84)	SIGNED	4	FSSLWORD(0)	FSS 'LOCK' WORD WITH RAS FLAGS
132	(84)	BITSTRING	1	FSSFLAGA	FLAG BYTE
		FSSFLAGA			
		1...		FSSABORD	"B'10000000'" ABEND IN PC'D TO FSMORDER FSSM
		.1..		FSSA$ACT	"B'01000000'" FSS included in $ACTVFSS
		..1.		FSSASTPI	"B'00100000'" FSS STOP order issued
		...1		FSSABIT3	"B'00010000'" RESERVED FOR FUTURE USE
		.... 1...		FSSABIT4	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		FSSABIT5	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		FSSABIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSSABIT7	"B'00000001'" RESERVED FOR FUTURE USE
133	(85)	BITSTRING	1	FSSFLAG1	FLAG BYTE - GENERAL USAGE
134	(86)	BITSTRING	1	FSSFLAG2	FLAG BYTE - GENERAL USAGE
135	(87)	BITSTRING	1	FSSFLAG3	FLAG BYTE - RAS USE
		1		FSSLMASK	"B'0001'" MASK FOR FSSFLAG3 IN FSSLWORD
136	(88)	SIGNED	4	FSSWORK	Work area
140	(8C)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
144	(90)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	FSSASTKN	FSS address space STKN
160	(A0)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
168	(A8)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value
176	(B0)	CHARACTER	8	FSSJOBID	Job id of the FSS
		FSSORINF will contain FSS level order information: $FSACB address for START FSA (ORDID=8) order. $FSACB address for STOP FSA (ORDID=12) order. PRT PCE address for START FSS (ORDID=0) order. PRT PCE address for STOP FSS (ORDID=4) order.			
184	(B8)	ADDRESS	4	FSSORINF	Who is doing FSS activity
188	(BC)	SIGNED	2	FSSORDID	FSS activity - order id
190	(BE)	SIGNED	2		RESERVED FOR FUTURE IBM USE
192	(C0)	SIGNED	4	(0)	END OF FSSCB DSECT
192	(C0)	X'C0'	0	FSSCBLEN	"*-FSSCB" LENGTH OF THE FSS CONTROL BLOCK
		FLAG DEFINITIONS FSSFLAG1			
		1...		FSSOROUT	"B'10000000'" FSS ORDER OUTSTANDING

Table 191. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		FSSRSOUT	"B'01000000'" FSS RESPONSE OUTSTANDING
		..1.		FSSTART	"B'00100000'" FSS START OUTSTANDING
		...1		FSSTOP	"B'00010000'" About to issue STOP FSS ord
		.... 1...		FSSDRAIN	"B'00001000'" ISSUE STOP FSS ORDER
		.... .1..		FSSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSSDUMP	"B'00000010'" DUMP REQUESTED ON STOP
		1		FSSFDRAN	"B'00000001'" FORCE FSS STOP PROCESSING
	FSSFLAG2				
		1...		FSSACTIV	"B'10000000'" FSS ADDRESS SPACE IS ACTIVE
		.1..		FSS2BIT2	"B'01000000'" RESERVED FOR FUTURE USE
		..1.		FSS2ASD0	"B'00100000'" AUTOMATICALLY SHUT DOWN THE FSS IF THE FSA COUNT GOES TO ZERO
		...1		FSS2PAF	"B'00010000'" If the FSS-Cleanup PCE finds an FSSCB with FSSEOM on, it posts the PCE for each FSA. It then sets this flag so that all the PCEs are post only once
		.... 1...		FSSSTPE	"B'00001000'" PREVIOUS FSS STOP ERROR
		.... .1..		FSS24DG	"B'00000100'" FSS supports 4-digit devs
		.... ..1.		FSS2BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSS2AM31	"B'00000001'" FSS supports AMODE 31
	FSSFLAG3				
		1...		FSSCNCT1	"B'10000000'" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
		.1..		FSSCNCT2	"B'01000000'" FSS HAS COMPLETED CONNECT
		..1.		FSSDCON	"B'00100000'" FSS IS(WILL) DISCONNECTING
		...1		FSSDCONX	"B'00010000'" JES2 IS READY FOR DISCONNECT
		.... 1...		FSSEOM	"B'00001000'" FSS MEMORY HAS ENDED
		.... .1..		FSSEOT	"B'00000100'" FSS CONNECTING TCB HAS ENDED
		.... ..1.		FSSRCOK	"B'00000010'" FSS RECONNECT SRB SUCCESSFUL
		1		FSSRCERR	"B'00000001'" FSS ERROR IN RECONNECT SRB RTN

Table 192. Cross Reference for $FSSCB

Name	Offset	Hex Tag
FSSA$ACT	84	40
FSSABEND	C0	4
FSSABIT3	84	10
FSSABIT4	84	8

Table 192. Cross Reference for $FSSCB (continued)

Name	Offset	Hex Tag
FSSABIT5	84	4
FSSABIT6	84	2
FSSABIT7	84	1
FSSABORD	84	80
FSSACTIV	C0	80
FSSAPARN	A0	
FSSASID	20	
FSSASTKN	98	
FSSASTPI	84	20
FSSAXL	2C	
FSSAXN	2C	
FSSAXSV	30	
FSSAXV	2E	
FSSCB	0	
FSSCBLEN	C0	C0
FSSCHAIN	1C	
FSSCNCT1	C0	80
FSSCNCT2	C0	40
FSSDCON	C0	20
FSSDCONX	C0	10
FSSDCTCH	44	48
FSSDIFM	7A	
FSSDOMID	8C	
FSSDRAIN	C0	8
FSSDUMP	C0	2
FSSEDECB	5C	
FSSEOM	C0	8
FSSEOT	C0	4
FSSETL	34	
FSSETN	34	
FSSETV	38	
FSSEXTN	70	
FSSFDRAN	C0	1
FSSFLAGA	84	
FSSFLAG1	85	
FSSFLAG2	86	
FSSFLAG3	87	
FSSFLAG4	83	
FSSFSACH	6C	
FSSFSAMI	78	
FSSFSSID	22	
FSSFSSML	18	
FSSFSSMN	10	
FSSFSVTE	7C	
FSSFSVTL	7E	
FSSHFCT	64	

Table 192. Cross Reference for $FSSCB (continued)

Name	Offset	Hex Tag
FSSJOBID	B0	
FSSLMASK	87	1
FSSLWORD	84	
FSSLXL	24	
FSSLXN	24	
FSSLXV	28	
FSSNAME	0	
FSSORDID	BC	
FSSORDPC	3C	
FSSORINF	B8	
FSSOROUT	C0	80
FSSPC	3C	
FSSPROCN	8	
FSSPSTPC	40	
FSSPTFN	A8	
FSSQCTS	60	
FSSRCERR	C0	1
FSSRCOK	C0	2
FSSRCRTN	68	
FSSRSOUT	C0	40
FSSSTPE	C0	8
FSSTART	C0	20
FSSTCB	74	
FSSTOP	C0	10
FSSWORK	88	
FSSXECB	44	
FSS2AM31	C0	1
FSS2ASD0	C0	20
FSS2BIT2	C0	40
FSS2BIT6	C0	2
FSS2PAF	C0	10
FSS24DG	C0	4
FSS4BOTH	83	40
FSS4IP	83	80

$FSSWORK information

$FSSWORK programming interface information

$FSSWORK is a programming interface.

$FSSWORK heading information

Common name: HASP FSS-Support processor work area DSECT.

Macro ID: $FSSWORK

DSECT name: PCE ($FSSWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol FSWLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $PRTPCE field of the $HCT data area

Serialization: Normal PCE dispatch serialization

Function: This DSECT provides the work area required by a JES2 processor in support of a functional subsystem application. There are no PCEs of a type called 'FSS', but instead a PCE of another type (e.g. printer) is defined to ensure it is large enough to be changed into a PCE mapped by $FSSWORK if that processor type is allowed to run in FSS mode. See the $PCETAB FSS=YES description for more details.

$FSSWORK mapping

Table 193. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP FSS PROCESSOR
328	(148)	BITSTRING	1	FSWFLAG	PRINT/PUNCH FLAG BYTE
		1...		FSWFORDI	"B'10000000'" CURRENT ORDER WAS ISSUED UNDER CONTROL OF THIS PCE AND A TIMER IS OUTSTANDING (FSWTQE)
		.1..		FSWFMODE	"B'01000000'" THIS PCE PROCESSING MODE SWITCH
		..1.		FSWFACTV	"B'00100000'" THIS PCE HAS ISSUED $ACTIVE
		...1		FSWFNONE	"B'00010000'" FLASH=NONE INDICATOR
		.... 1...		FSWFARET	"B'00001000'" FSSP tried recovery from abend once
329	(149)	BITSTRING	1		RESERVED FOR FUTURE USE
330	(14A)	ADDRESS	2	FSWORDID	ORDID FOR ORDER ISSUED BY PCE
332	(14C)	SIGNED	4	FSWFWORK	FULL WORD WORK AREA
336	(150)	DBL WORD	8	FSWDWORK	DOUBLE WORD WORK AREA
344	(158)	SIGNED	4	FSWCMBAD	ADDRESS OF CMB FOR $DOM
348	(15C)	SIGNED	4	FSWFBPCT	$F/$B PAGE COUNT
352	(160)	BITSTRING	12	FSWTQE	FSS TIME QUEUE ELEMENT
364	(16C)	SIGNED	4	(0)	Insure fullword boundary
364	(16C)	BITSTRING	12	FSWPELMT(0)	$XMPOST POST element
364	(16C)	ADDRESS	4	FSWPERET	$XMPOST POST element ERRET
368	(170)	ADDRESS	4	FSWPECB	$XMPOST POST ELEMENT ECB ADDR
372	(174)	ADDRESS	4	FSWPASCB	$XMPOST POST ELEMENT ASCB ADDR
376	(178)	ADDRESS	2	FSWNRCNT	WAITING FOR RESPONSE COUNT
376	(178)	X'12C'	0	FSWTIME	"300" TIME INTERVAL FOR CONNECT
380	(17C)	ADDRESS	4	FSWFSSCB	ADDRESS OF FSSCB
384	(180)	SIGNED	4	FSWJ2TRP	Pointer to FSA level rolling trace storage
388	(184)	SIGNED	4	FSWFSACT	Trace counter for FSA trace
392	(188)	SIGNED	4	(0)	

Table 193. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	X'40'	0	FSWHLGTH	"*-PCEWORK" FSS PCE WORK AREA HEADER LENGTH
		THE FSS PCE WORK AREA IS COMPRISED OF A HEADER AREA AND 3 VARIABLE LENGTH EXTENSIONS WHICH ARE ORGED OVER EACH OTHER. THESE 3 EXTENSIONS ARE the message, RELDS, and GETDS work areas. The length of the FSS PCE work area is determined by adding the length of the header area to that of the GETDS work area (276 bytes), since it is the largest of the 3 extensions.			
392	(188)	SIGNED	4	FSWJIBWK(0)	JIB Work area
392	(188)	CHARACTER	256	FSWRK	Message work area
392	(188)	CHARACTER	24		JIB RELDS MVCP Wk area
392	(188)	CHARACTER	212		JIB GETDS MVCS work area part 1
604	(25C)	CHARACTER	64		JIB GETDS MVCS work area part 2
668	(29C)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
668	(29C)	X'154'	0	FSWLNGTH	"FSWHLGTH+*-FSWJIBWK" FSS PCE WORK AREA LENGTH

Table 194. Cross Reference for $FSSWORK

Name	Offset	Hex Tag
FSWCMBAD	158	
FSWDWORK	150	
FSWFACTV	148	20
FSWFARET	148	8
FSWFBPCT	15C	
FSWFLAG	148	
FSWFMODE	148	40
FSWFNONE	148	10
FSWFORDI	148	80
FSWFSACT	184	
FSWFSSCB	17C	
FSWFWORK	14C	
FSWHLGTH	188	40
FSWJIBWK	188	
FSWJ2TRP	180	
FSWLNGTH	29C	154
FSWNRCNT	178	
FSWORDID	14A	
FSWPASCB	174	
FSWPECB	170	
FSWPELMT	16C	
FSWPERET	16C	
FSWRK	188	
FSWTIME	178	12C
FSWTQE	160	
PCE	0	

$FSSXB information

$FSSXB programming interface information

$FSSXB is a programming interface.

$FSSXB heading information

Common name:	FSS Control Block Extension DSECT
Macro ID:	$FSSXB
DSECT name:	FSXB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	FSXB Offset: FSXBCBID-FSXB Length: L'FSXBCBID
Storage attributes:	Subpool: 230 Key: 1 Residency: Virtual and real storage is based on the addressing mode of the FSS. If restricted to 24 bit storage, then the FSSXB must be in 24 bit storage. Otherwise it can be anywhere in 31 bit storage.
Size:	See FSXBLEN
Created by:	HASPFSSM during FSS connect processing
Pointed to by:	FSSEXTN field of the FSSCB data area
Serialization:	None required
Function:	The FSSXB is the private area extension to the FSSCB.

$FSSXB mapping

Table 195. Structure FSXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSXB	FSS CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FSXBCBID	FSS CONTROL BLOCK EXT ID
4	(4)	CHARACTER	8	FSXBNAME	FUNCTIONAL SUBSYSTEM NAME
12	(C)	ADDRESS	4	FSXBFSSA	A(FSSCB) FOR THIS EXTENSION
16	(10)	SIGNED	4	FSXBFSIP(0)	ORDER FSIREQ PARM LIST
124	(7C)	SIGNED	4	FSXBFSIR(0)	ORDER RESPONSE AREA
184	(B8)	SIGNED	4	FSXBOSAV(18)	ORDER SAVE AREA
256	(100)	ADDRESS	4	FSXBXETA	ADDR OF ENTRY TABLE DESC (ETD)
256	(100)	X'104'	0	FSXBLEN	"*-FSXB" LENGTH OF THE FSS CNTL BLOCK EXT

$GGEQU information

$GGEQU programming interface information

$GGEQU is a programming interface.

$GGEQU heading information

Common name:	Generic grouping equates
Macro ID:	$GGEQU
DSECT name:	n/a

Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	Defines equates related to the generic grouping services ($GASSIGN, $GKGET, $GKINIT, $GKTERM, $GSINIT, $GSTERM).

$GGEQU mapping

Table 196. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
,$MODULE - $CADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $HASPEQU WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MIT WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MITETBL WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PARMLST WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PSV WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $USERCBS WILL BE GENERATED, IT IS REQUIRED BY
```

```
01 CHANGE ACTIVITY:
  A000000-999999 Created for JES2 4.1.0
        Return codes
        Note: Return code 4 is reserved for future use
               for less severe (warning) conditions.
```

0	(0)	X'0'	0	GGRCOK	"0" Processing successful
0	(0)	X'8'	0	GGRCERR	"8" Error detected

```
        Reason codes
        Each service returns a subset of these reason codes.
        Each service macro's prolog lists the reason codes that
        the service returns.
```

0	(0)	X'0'	0	GGRSOK	"0" Processing successful
0	(0)	X'4'	0	GGRSJDVT	"4" JDVT name is undefined
0	(0)	X'8'	0	GGRSPVST	"8" Private storage is unavailable
0	(0)	X'C'	0	GGRSCMST	"12" Common storage is unavailable
0	(0)	X'10'	0	GGRSIPCE	"16" Caller is not the initialization PCE

```
        Miscellaneous constants
```

0	(0)	X'20'	0	GGMAXFPL	"32" Maximum footprint length
0	(0)	X'20'	0	GGMAXMSL	"32" Maximum message length

Table 197. Cross Reference for $GGEQU

Name	Offset	Hex Tag
GGMAXFPL	0	20
GGMAXMSL	0	20
GGRCERR	0	8
GGRCOK	0	0

Table 197. Cross Reference for $GGEQU (continued)

Name	Offset	Hex Tag
GGRSCMST	0	C
GGRSIPCE	0	10
GGRSJDVT	0	4
GGRSOK	0	0
GGRSPVST	0	8

$GPQE information

$GPQE heading information

Common name: General purpose subtask queue element

Macro ID: $GPQE

DSECT name: GPQE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'GPQE'
Offset: 0
Length: 4

Storage attributes: Subpool: see GPQPOOL
Key: 1
Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of a JES@ NETSRV address space

Size: See CIDSIZE

Created by: $SUBIT service in HASCNJGP

Pointed to by: GPQNEXT field of the $GPQE data area
GPQPREV field of the $GPQE data area
NSCGPQEH field of the $NSCT data area
NSCGPQET field of the $NSCT data area
SQDGPQ field of the $SQD data area

Serialization: Queue managed by $FIFOENQ and $FIFODEQ

Function: General purpose subtask queue element .

$GPQE mapping

Table 198. Structure GPQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GPQE	Work area
0	(0)	CHARACTER	4	GPQEYE	Eyecatcher
4	(4)	ADDRESS	4	GPQNEXT	Next subtask area
8	(8)	ADDRESS	4	GPQPREV	Previous subtask area
12	(C)	SIGNED	4	GPQSQD	SQD address
16	(10)	BITSTRING	16	GPQTTOK	TCB token of requesting task
16	(10)	X'20'	0	GPQLEN	"*-GPQE" LENGTH OF AREA

$GTW information

$GTW heading information

Common name: HASP $#GET trace work area dsect

Macro ID: $GTW

DSECT name: GTW

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'GTW '
Offset: GTWID-GTW
Length: 4

Storage attributes: Subpool: 1
Key: 1
Residency: Anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See GTWLEN

Created by: $#GET and $#POST service routines

Pointed to by: WSPGTW field of the $WSP data area ($#GET)
WSAPSGTW field of the $WSA data area ($#POST)

Serialization: No special serialization other than that currently implied by the $#GET service routine is required.

Function: This dsect maps a work area used by $#GET, $#POST, and $QGET services to save information to be included in the JES2 $TRACE id 20, 30, and 31 records.

$GTW mapping

Table 199. Structure GTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTW	
0	(0)	CHARACTER	4	GTWID	GTW IDENTIFIER
4	(4)	BITSTRING	1	GTWVERS	GTW VERSION
5	(5)	BITSTRING	1	GTWFLAGP	Processing flag byte
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	GTWSTART(0)	START OF $TRACE DATA
	Fields used by more than one routine				
8	(8)	DBL WORD	8	GTWCPU	CPU time in TOD format
16	(10)	DBL WORD	8	GTWTIME	Run time in TOD format
24	(18)	DBL WORD	8	GTWQSUSE	QSUSE time in TOD format
32	(20)	DBL WORD	8	GTWELAPS	Elapsed time microseconds
40	(28)	SIGNED	4	GTWJSCR	NUMBER OF WS CALLS MADE
44	(2C)	SIGNED	4	GTWJNUM	NUMBER OF JOES LOOKED AT
48	(30)	SIGNED	4	GTWJOACT	NUMBER OF $DOGJOE CALLS
52	(34)	SIGNED	4	GTWBEST	Which JOE was selected out of the ones looked at
56	(38)	ADDRESS	4	GTWCALER	Address of caller
60	(3C)	SIGNED	4	GTWWSTAB	WS TABLE ADDRESS
64	(40)	CHARACTER	18	GTWDCTN	Dev name in one of 2 forms For non-SAPI: WSPDEVN2 For SAPI: jobname.sss2appl
64	(40)	X'40'	0	GTWPITN	"GTWDCTN,4" For initiators: PITPATID
82	(52)	ADDRESS	2	(0)	Ensure big enough
82	(52)	ADDRESS	2	(0)	
82	(52)	BITSTRING	1	GTWTFLG1	Caller type
		1...		GTWT1GET	"B'10000000'" $#GET
		.1..		GTWT1PST	"B'01000000'" $#POST
		..1.		GTWT1QGT	"B'00100000'" $QGET
		...1		GTWT1PSO	"B'00010000'" PSO
83	(53)	BITSTRING	100	GTWWS	Device work selection list

Table 199. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
183	(B7)	BITSTRING	25	GTWMASK	Criteria value mask
208	(D0)	DBL WORD	8	GTWORG(0)	Start caller specific data
		Fields used by $#GET/PSO only ($TRACE 20)			
		KEEP THE NEXT 4 BYTES TOGETHER FOR $TRACE FORMATTING			
208	(D0)	BITSTRING	1	GTWDCT	DCT DEVICE TYPE
209	(D1)	BITSTRING	1	GTWFLAG1	1ST FLAG BYTE
		1...		GTW1WS	"B'10000000'" TYPE=WS REQUEST
		.1..		GTW1NET	"B'01000000'" TYPE=NET REQUEST
		..1.		GTW1HYES	"B'00100000'" HAVE=YES REQUEST
		...1		GTW1CNT	"B'00010000'" COUNT=YES request
		.... 1...		GTW1CYES	"B'00001000'" CHAIN=YES REQUEST
		.... .1..		GTW1NSAF	"B'00000100'" SAF=NO request
		.... ..1.		GTW1ALM	"B'00000010'" LINE MGR REQ, AUTOLOGN SCAN
210	(D2)	BITSTRING	1	GTWFLAG2	2ND FLAG BYTE
		1...		GTW2FAST	"B'10000000'" Fast exit from $#GET due to value in DCTPJOE/WSPPJOE
		..1.		GTW2NO	"B'00100000'" NO WORK FOUND
		.... .1..		GTW2JOEX	"B'00000100'" JOE index was used
		.... ..1.		GTW2JXOV	"B'00000010'" JOE index priority array overflow detected
		1		GTW2SAFF	"B'00000001'" GET FAILURE DUE TO SAF CALL
211	(D3)	BITSTRING	1	GTWFLAG3	PSO selection flags
212	(D4)	SIGNED	4	GTWJOES	NUMBER OF JOES DEFINED
216	(D8)	SIGNED	4	GTWQNUM	NUMBER OF JOES IN USE
		THE FOLLOWING TWO COUNTS APPLY ONLY TO CHAIN=YES REQUESTS			
220	(DC)	SIGNED	4	GTWCHCNT	NUMBER OF JOES ON JOB CHAIN
224	(E0)	SIGNED	4	GTWCHSEL	NUMBER SELECTED FROM JQE/JOE CHAIN
228	(E4)	SIGNED	4	GTWROUTE(0)	REMOTE ID OF DATA SELECTED
228	(E4)	SIGNED	2	GTWNODE	NODE ID
230	(E6)	SIGNED	2	GTWRMT	REMOTE ID
232	(E8)	CHARACTER	8	GTWUSER	USERID
240	(F0)	BITSTRING	1	GTWCLASS	CLASS VALUE OF DATA
241	(F1)	BITSTRING	1		Reserved
242	(F2)	BITSTRING	2	GTWVORD	View used when GTW2JOEX
244	(F4)	SIGNED	4		Reserved
244	(F4)	X'F0'	0	GTW20SIZ	"*-GTWSTART" Trace 20 trace size
248	(F8)	BITSTRING	32	GTW#GTST	Perf data at start and
280	(118)	BITSTRING	1	GTW#GTEN	end of $#GET/PSO
		Fields used by $#POST only ($TRACE 30)			
208	(D0)	CHARACTER	8	GTWJONAM	JOE OUTGRP name
216	(D8)	SIGNED	2	GTWJOID1	qualifier 1

Table 199. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
218	(DA)	SIGNED	2	GTWJOID2	qualifier 2
220	(DC)	CHARACTER	8	GTWJQNAM	Job name
228	(E4)	SIGNED	4	GTWJBNUM	Job number
232	(E8)	BITSTRING	1	GTWJQTYP	Job type flags
233	(E9)	BITSTRING	3		Reserved
236	(EC)	SIGNED	4	GTWWSPCT	Number of WSPs scanned
240	(F0)	SIGNED	4	GTWPSTCT	Number of WSPs $POSTed
244	(F4)	SIGNED	4	GTWWTRCT	Number of XWTRs scanned
248	(F8)	SIGNED	4	GTWPSTWR	Number of XWTRs $POSTed
252	(FC)	SIGNED	4	GTWSPICT	Number of SAPIDs scanned (full screening)
256	(100)	SIGNED	4	GTWSPIRT	Number of SAPIDs scanned (abbreviated screening)
260	(104)	SIGNED	4	GTWPSTSP	Number of SAPIDs $POSTed
260	(104)	X'100'	0	GTW30SIZ	"*-GTWSTART" Trace 30 trace size
264	(108)	BITSTRING	32	GTW#PSST	Perf data at start and
296	(128)	BITSTRING	1	GTW#PSEN	end of $#GET/PSO
	Fields used by $QGET only ($TRACE 31)				
	Exit 14 fields				
208	(D0)	SIGNED	4	GTWX14RC	Exit 14 return code
216	(D8)	DBL WORD	8	GTWX14CP	CPU time in TOD format
224	(E0)	DBL WORD	8	GTWX14TM	Run time in TOD format
232	(E8)	DBL WORD	8	GTWX14QS	QSUSE time in TOD format
240	(F0)	DBL WORD	8	GTWX14ET	Elapsed time microseconds
	Exit 49 fields				
248	(F8)	SIGNED	4	GTWX49SK	# jobs vetoed by exit 49
252	(FC)	SIGNED	4	GTWX49CT	# times exit 49 called
256	(100)	DBL WORD	8	GTWX49CP	Cumulative CPU time (TOD)
264	(108)	DBL WORD	8	GTWX49TM	Cumulative run time (TOD)
272	(110)	DBL WORD	8	GTWX49QS	Cumulative QSUSE time (TOD)
280	(118)	DBL WORD	8	GTWX49ET	Cumulative elapsed time in microseconds
288	(120)	CHARACTER	28	GTWSELNM	Selection name
316	(13C)	BITSTRING	1	GTWSELNL	Used length of GTWSELNM
317	(13D)	BITSTRING	1	GTWQFLG1	Flags
		1...		GTWQ1X14	"B'10000000'" Exit 14 was entered
		.1..		GTWQ1X49	"B'01000000'" Exit 49 was entered
		..1.		GTWQ1W49	"B'00100000'" Exit 49 $WAITed
		...1		GTWQ1WLM	"B'00010000'" QGET reject because WLM goals exceeded
318	(13E)	BITSTRING	1	GTWQUEUE	Queue scanned by type
319	(13F)	BITSTRING	1		Reserved for future use
320	(140)	SIGNED	4	GTWQJQAN	Number of JQAs obtained
324	(144)	SIGNED	4	GTWJQMAX	Number of JQEs defined

Table 199. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
328	(148)	SIGNED	4	GTWJQFRE	Number of free JQEs
332	(14C)	SIGNED	4	GTWDUPCT	Number of duplicate rejects
336	(150)	SIGNED	4	GTWCATCT	Number of CAT/WSC rejects
------ $QGET MF=L $QGET parameter list					
340	(154)	ADDRESS	4	GTWQGT	NODE TABLE ADDRESS
344	(158)	ADDRESS	4		CONTROL BLOCK ADDRESS
348	(15C)	ADDRESS	4		ADDRESS OF JQE
352	(160)	ADDRESS	1		QUEUE TYPE SPECIFIED
353	(161)	ADDRESS	1		WORK SELECTION TYPE FLAG
354	(162)	ADDRESS	1		Response byte flags
355	(163)	ADDRESS	1		Reserved
355	(163)	X'10'	0	GTWQGTL	"*-GTWQGT" Length of $QGET parm list
356	(164)	SIGNED	4	(0)	Ensure WORD boundary
356	(164)	CHARACTER	1	GTWCLST	Class list.
356	(164)	X'164'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits
420	(1A4)	SIGNED	4	GTWQGTRC	$QGET return code
424	(1A8)	SIGNED	4		Reserved
424	(1A8)	X'1A4'	0	GTW31SIZ	"*-GTWSTART" Trace 31 trace size
End of GTW					
428	(1AC)	X'1A4'	0	GTWSIZE	"*-GTWSTART" SIZE OF $#GET TRACE RECORD
428	(1AC)	X'5'	0	GTWVERSN	"5" Version number
428	(1AC)	X'1AC'	0	GTWLEN	"*-GTW" LEN OF GTW WORK AREA

Table 200. Cross Reference for $GTW

Name	Offset	Hex Tag
GTW	0	
GTW#GTEN	118	
GTW#GTST	F8	
GTW#PSEN	128	
GTW#PSST	108	
GTWBEST	34	
GTWCALER	38	
GTWCATCT	150	
GTWCHCNT	DC	
GTWCHSEL	E0	
GTWCLASS	F0	
GTWCLST	164	
GTWCPU	8	
GTWDCT	D0	
GTWDCTN	40	
GTWDUPCT	14C	
GTWELAPS	20	

Table 200. Cross Reference for $GTW (continued)

Name	Offset	Hex Tag
GTWFLAGP	5	
GTWFLAG1	D1	
GTWFLAG2	D2	
GTWFLAG3	D3	
GTWID	0	
GTWJBNUM	E4	
GTWJNUM	2C	
GTWJOACT	30	
GTWJOES	D4	
GTWJOID1	D8	
GTWJOID2	DA	
GTWJONAM	D0	
GTWJQFRE	148	
GTWJQMAX	144	
GTWJQNAM	DC	
GTWJQTYP	E8	
GTWJSCR	28	
GTWLEN	1AC	1AC
GTWMASK	B7	
GTWNODE	E4	
GTWORG	D0	
GTWPITN	40	40
GTWPSTCT	F0	
GTWPSTSP	104	
GTWPSTWR	F8	
GTWQFLG1	13D	
GTWQGT	154	
GTWQGTL	163	10
GTWQGTRC	1A4	
GTWQJQAN	140	
GTWQNUM	D8	
GTWQSUSE	18	
GTWQUEUE	13E	
GTWQ1WLM	13D	10
GTWQ1W49	13D	20
GTWQ1X14	13D	80
GTWQ1X49	13D	40
GTWRMT	E6	
GTWROUTE	E4	
GTWSELNL	13C	
GTWSELNM	120	
GTWSIZE	1AC	1A4
GTWSPICT	FC	
GTWSPIRT	100	
GTWSTART	8	
GTWTFLG1	52	

Table 200. Cross Reference for $GTW (continued)

Name	Offset	Hex Tag
GTWTIME	10	
GTWT1GET	52	80
GTWT1PSO	52	10
GTWT1PST	52	40
GTWT1QGT	52	20
GTWUSER	E8	
GTWVERS	4	
GTWVERSN	1AC	5
GTWVORD	F2	
GTWWS	53	
GTWWSCN	164	164
GTWWSPCT	EC	
GTWWSTAB	3C	
GTWWTRCT	F4	
GTWX14CP	D8	
GTWX14ET	F0	
GTWX14QS	E8	
GTWX14RC	D0	
GTWX14TM	E0	
GTWX49CP	100	
GTWX49CT	FC	
GTWX49ET	118	
GTWX49QS	110	
GTWX49SK	F8	
GTWX49TM	108	
GTW1ALM	D1	2
GTW1CNT	D1	10
GTW1CYES	D1	8
GTW1HYES	D1	20
GTW1NET	D1	40
GTW1NSAF	D1	4
GTW1WS	D1	80
GTW2FAST	D2	80
GTW2JOEX	D2	4
GTW2JXOV	D2	2
GTW2NO	D2	20
GTW2SAFF	D2	1
GTW20SIZ	F4	F0
GTW30SIZ	104	100
GTW31SIZ	1A8	1A4

$HASB information

$HASB programming interface information

$HASB is a programming interface.

$HASB heading information

Common name: HASP Address Space Block

Macro ID: $HASB

DSECT name: HASB

Owning component: JES2 (SC1BH)

Eye-catcher ID: HASB
Offset: HSBID
Length: L'HSBID

Storage attributes: Subpool: 241 (ECSA)
Key: 1
Residency: The HASB resides in ECSA. Virtual and real storage are 31-bit.

Size: See HSBLEN

Created by: $SSIBEGN

Pointed to by: ASID*4 + HAVT (See below)

Serialization: Shared by TCBs in the address space.
One $HASB per address space. Local lock is required to increment use count in $HASXB. This ensures that the HASB/HASXB won't be FREEMAINed if it is considered to be temporary.
After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields.
$SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB.
Compare and swap is needed to update the HSBFLAG.

Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions.
Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist for the life of the address space. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned.
All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.

$HASB mapping

Table 201. Structure HASB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HASB	BEGINNING OF $HASB DSECT
0	(0)	CHARACTER	4	HSBID	EYECATCHER OF $HASB
4	(4)	ADDRESS	1	HSBVRSN	VERSION NUMBER FIELD
4	(4)	X'2'	0	HSBVRNUM	"2" THE CURRENT VERSION NUMBER
5	(5)	BITSTRING	1	HSBFLAG	Flag byte, use CS to modify
		1...		HSBDJWEL	"B'10000000'" Dispose JWEL flag
		.1..		HSBSJBE	"B'01000000'" Dump for SJBFIND taken
		..1.		HSBUUSE	"B'00100000'" abend0E0 within SSI, the HXBUSECT is unreliable
6	(6)	SIGNED	2	HSBASID	ASID
8	(8)	SIGNED	4	HSBCRSYS	CROSS SYSTEM REQUEST COUNT
		This field, HSBCRSYS, must be zero for the HASB to be freed. However, it is not checked in the same way as the fields in the section below, so it is not there.			
12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK

Table 201. Structure HASB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	HSBJESCB	Addr of related JES2 CB (see HSBASTYP)
		All fields encompassed by HSBCHECK must be zero for the $SSIEND routine to free the HASB at the end of the SSI call. (Unless it's an END-OF-MEMORY call).			
20	(14)	ADDRESS	4	HSBSJB	ADDRESS OF FIRST SJB
24	(18)	ADDRESS	4	HSBUSER1	RESERVED FOR USER
28	(1C)	ADDRESS	4	HSBINTRE	Address of 1st INTRDR element (IRE)
28	(1C)	X'14'	0	HSBCHECK	"HSBSJB,*-HSBSJB" BEFORE HASB IS FREED THIS MUST BE 0
		The following byte identifies the type of address space and the contents of HSBJESCB. HSBASNSV - PCL for NETSERV address space HSBASCI - CICB for JES2 C/I address space HSBASEDS - EDSCB for email services address space HSBASAUX - AUXCB for JES2AUX address space			
32	(20)	BITSTRING	1	HSBASTYP	JES2 address space type
32	(20)	X'1'	0	HSBASNSV	"1" NETSERV address space
32	(20)	X'2'	0	HSBASCI	"2" JES2 C/I address space
32	(20)	X'3'	0	HSBASEDS	"3" Email delivery addr space
32	(20)	X'4'	0	HSBASAUX	"4" JES2AUX address space
33	(21)	BITSTRING	7		Reserved
40	(28)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
48	(30)	DBL WORD	8	HSBTRETM	Oldest time TRE made active
48	(30)	X'38'	0	HSBLEN	"*-HASB" LENGTH OF $HASB DSECT

Table 202. Cross Reference for $HASB

Name	Offset	Hex Tag
HASB	0	
HSBASAUX	20	4
HSBASCI	20	2
HSBASEDS	20	3
HSBASID	6	
HSBASNSV	20	1
HSBASTYP	20	
HSBCHECK	1C	14
HSBCRSYS	8	
HSBDJWEL	5	80
HSBFLAG	5	
HSBHASXB	C	
HSBID	0	C8C1E2C2
HSBINTRE	1C	
HSBJESCB	10	
HSBLEN	30	38
HSBSJB	14	
HSBSJBE	5	40
HSBSTOKN	28	
HSBTRETM	30	

Table 202. Cross Reference for $HASB (continued)

Name	Offset	Hex Tag
HSBUSER1	18	
HSBUUSE	5	20
HSBVRNUM	4	2
HSBVRSN	4	

$HASPEQU information

$HASPEQU programming interface information

$HASPEQU is a programming interface.

$HASPEQU heading information

Common name: Equates for JES2

Macro ID: $HASPEQU

DSECT name: None

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: N/A
Key: N/A
Residency: N/A

Size: N/A

Created by: N/A

Pointed to by: N/A

Serialization: N/A

Function: The $HASPEQU macro is used to generate the register and other equates required by JES2. It also contains some executable macro in-line parameter list equates.

$HASPEQU mapping

Table 203. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 204. Structure $HASPEQU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	$HASPEQU	, HASP equates DSECT
	Absolute register definitions				
0	(0)	X'0'	0	R0	"0"
0	(0)	X'1'	0	R1	"1"
0	(0)	X'2'	0	R2	"2"
0	(0)	X'3'	0	R3	"3"
0	(0)	X'4'	0	R4	"4"
0	(0)	X'5'	0	R5	"5"
0	(0)	X'6'	0	R6	"6"
0	(0)	X'7'	0	R7	"7"

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	R8	"8"
0	(0)	X'9'	0	R9	"9"
0	(0)	X'A'	0	R10	"10"
0	(0)	X'B'	0	R11	"11"
0	(0)	X'C'	0	R12	"12"
0	(0)	X'D'	0	R13	"13"
0	(0)	X'E'	0	R14	"14"
0	(0)	X'F'	0	R15	"15"
	Access register definitions				
0	(0)	X'0'	0	AR0	"0"
0	(0)	X'1'	0	AR1	"1"
0	(0)	X'2'	0	AR2	"2"
0	(0)	X'3'	0	AR3	"3"
0	(0)	X'4'	0	AR4	"4"
0	(0)	X'5'	0	AR5	"5"
0	(0)	X'6'	0	AR6	"6"
0	(0)	X'7'	0	AR7	"7"
0	(0)	X'8'	0	AR8	"8"
0	(0)	X'9'	0	AR9	"9"
0	(0)	X'A'	0	AR10	"10"
0	(0)	X'B'	0	AR11	"11"
0	(0)	X'C'	0	AR12	"12"
0	(0)	X'D'	0	AR13	"13"
0	(0)	X'E'	0	AR14	"14"
0	(0)	X'F'	0	AR15	"15"
	Floating point registers				
0	(0)	X'0'	0	FP0	"0"
0	(0)	X'2'	0	FP2	"2"
0	(0)	X'4'	0	FP4	"4"
0	(0)	X'6'	0	FP6	"6"
	Values fixed by the hardware				
0	(0)	X'1000'	0	$PGESIZE	"4096" PROCESSOR PAGE SIZE -- 4K
	Miscellaneous definitions				
0	(0)	X'0'	0	NONE	"0" NO BITS ON, NEVER BRANCH
0	(0)	X'FF'	0	FF	"255" ALL BITS ON, ALWAYS BRANCH
0	(0)	BITSTRING	0	FFFF	"X'FFFF'" All bits on for half word
0	(0)	BITSTRING	0	$MAXFSGN	"X'7FFFFFFF'" Max signed value
	Event control field flag definitions defining JES2 dispatcher events for $WAIT,INHIBIT=YES and $POSTS of specific PCEs for events				
		1...		$EWFPOST	"X'80'" INHIBIT SPECIFIC PCE $POST

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$EWFOPER	"X'40'" PROCESSOR DEACTIVATED
		..1.		$EWFIO	"X'20'" WAITING FOR I/O
		...1		$EWFWORK	"X'10'" WAITING FOR WORK
		.... 1...		$EWFHOLD	"X'08'" WAITING FOR $S COMMAND
		Dispatcher resource definitions JES2 values start at 0 and increase while user values start at 63 and decrease - See documentation in the $WAIT and $POST macros			
0	(0)	X'0'	0	$DRMLLM	"0" 'Line manager resource $POSTS'
0	(0)	X'1'	0	$DRABIT	"1" 'Wait for one dispatcher cycle'
0	(0)	X'2'	0	$DRALOC	"2" 'HOSALLOC subtask serialization'
0	(0)	X'3'	0	$DRIMAGE	"3" 'Requested/executed image load'
0	(0)	X'4'	0	$DRBUF	"4" 'Need/freed JES2 buffer'
0	(0)	X'5'	0	$DRJOT	"5" 'Need/added selectable JOEs'
0	(0)	X'6'	0	$DRJOE	"6" 'Need/freed unused JOE'
0	(0)	X'7'	0	$DRTRACK	"7" 'Need/freed spool track group - NON-priv'
0	(0)	X'8'	0	$DRJOB	"8" 'Need job/changed a job's status'
0	(0)	X'9'	0	$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0)	X'A'	0	$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0)	X'B'	0	$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0)	X'C'	0	$DRCKPTL	"12" 'Lurking for CKPT READ'
0	(0)	X'D'	0	$DRCKPTW	"13" 'Need/completed CKPT WRITE cycle'
0	(0)	X'E'	0	$DRCMB	"14" 'Need/freed unused CMB'
0	(0)	X'F'	0	$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0)	X'10'	0	$DRLOCK	"16" 'Need/freed a job lock'
0	(0)	X'11'	0	$DRMAIN	"17" 'Need/freed main storage'
0	(0)	X'12'	0	$DRFSS	"18" 'FSS ORDER serialization'
0	(0)	X'13'	0	$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0)	X'14'	0	$DRPURGE	"20" 'Want/added JQEs to PURGE queue'
0	(0)	X'15'	0	$DRTIPS	"21" 'PCE - update JOE BERT transaction information'
0	(0)	X'16'	0	$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0)	X'17'	0	$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0)	X'18'	0	$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0)	X'19'	0	$DRRMWT	"25" 'PCE waiting to be $POSTed by resource manager'
0	(0)	X'1A'	0	$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0)	X'1B'	0	$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0)	X'1C'	0	$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0)	X'1D'	0	$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0)	X'1E'	0	$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1F'	0	$DRWARM	"31" 'PCE waiting for a member to warm start'
0	(0)	X'20'	0	$DRARMS	"32" 'ARM support processor'
0	(0)	X'21'	0	$DRHOMOG	"33" 'PCEs waiting for JESplex version change'
0	(0)	X'22'	0	$DRPROCLIB	"34" 'PCEs waiting PROCLIB allocate/ unallocate'
0	(0)	X'23'	0	$DRMFMT	"35" 'PCEs waiting for SPOOL mini-format completion'
0	(0)	X'24'	0	$DRCCAN	"36" 'Cancel JOB/TSU/STC in conversion'
0	(0)	X'25'	0	$DRSPI	"37" 'PCEs waiting for Sysout API requests'
0	(0)	X'26'	0	$DRBERTW	"38" 'Waiting for a free BERT'
0	(0)	X'27'	0	$DRBERTL	"39" 'Waiting for a BERT lock to free'
0	(0)	X'28'	0	$DRBREG	"40" 'PCES waiting for WLM registration requests'
0	(0)	X'29'	0	$DRDILBERT	"41" 'PCES waiting for $DILBERT requests'
0	(0)	X'2A'	0	$DRXMITJOB	"42" 'Waiting for NJE JOB activity'
0	(0)	X'2B'	0	$DRALICE	"43" 'PCEs waiting for incomplete warmstart'
0	(0)	X'2C'	0	$DREOM	"44" 'PCES waiting for an EOM to occur'
0	(0)	X'2D'	0	$DRIRCLEAN	"45" 'Internal Reader Cleanup needed'
0	(0)	X'2E'	0	$DRDAWN	"46" 'PCEs waiting for work notifications'
0	(0)	X'2F'	0	$DRJOEI	"47" 'PCEs waiting for JOEINDEX requests'
0	(0)	X'30'	0	$DREDSQ	"48" 'PCEs waiting for email queue needing attention'
0	(0)	X'31'	0	$DRTRACP	"49" 'Need/freed spool track group - priv job'
0	(0)	X'32'	0	$DRJQRB	"50" 'Process JQRB queue'
0	(0)	X'33'	0	$DRCKPTS	"51" 'Low priority PCEs waiting for $QSUSE'
0	(0)	X'40'	0	$DRTOTAL	"64" TOTAL NUMBER OF RESOURCES
0	(0)	X'8'	0	$DRQUEL	"8" LENGTH OF A RESOURCE QUEUE ELMT CIRCULAR FORWARD/BACKWARD PTRS, PCEPCEA/PCEPCEB ARE CHAIN FLDS
		$MSG prefix length EQU			
0	(0)	X'2'	0	$MSGPFXL	"2" TWO BYTE PACKED DEC. MSG NO.
		DISPER= equates for messages in HASPMSG			
		1...		$M064IBE	"B'10000000'" IOBE is present
		.1..		$M064NIB	"B'01000000'" No IOBE is available
		..1.		$M064SNS	"B'00100000'" Sense data is available
		...1		$M064DAD	"B'00010000'" DASD I/O was issued
		.... 1...		$M064MIG	"B'00001000'" SPOOL Migration
		.... .1..		$M064RD	"B'00000100'" Read was being requested

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$M064WRT	"B'00000010'" Write was being requested
		1...		$M068DEV	"B'10000000'" PCE is a device
		.1..		$M068NDV	"B'01000000'" PCE is not a device
		..1.		$M068LDV	"B'00100000'" PCE is a sub-device
		1...		$M120OTH	"B'10000000'" Device is some other type
		.1..		$M120INR	"B'01000000'" Devide is an INTRDR
		1...		$M260CLD	"B'10000000'" Update COLD_START_MODE
		.1..		$M260NCL	"B'01000000'" COLD_START_MODE is OK
		1...		$M276WRM	"B'10000000'" Warm start processing
		.1..		$M276CLD	"B'01000000'" Cold start processing
		..1.		$M276HOT	"B'00100000'" Hot start processing
		1...		$M281ALL	"B'10000000'" ALL members have I/O errors
		.1..		$M281SOM	"B'01000000'" Some memb have no I/O error
		1...		$M416LNG	"B'10000000'" LONG FORM OF MESSAGE
		.1..		$M416SHR	"B'01000000'" SHORT FORM OF MESSAGE
		1...		$M443ATT	"B'10000000'" ATTACH failure form
		.1..		$M443NUM	"B'01000000'" SPOOLNUM exceeded form
		..1.		$M443LEV	"B'00100000'" DSN not supported at level
		1...		$M458CK1	"B'10000000'" CKPT1 FORM OF MESSAGE
		.1..		$M458CK2	"B'01000000'" CKPT2 FORM OF MESSAGE
		1...		$M478CK1	"B'10000000'" One data set in use
		.1..		$M478CK2	"B'01000000'" Two data sets in use
		1...		$M479IO	"B'10000000'" I/O ERROR
		.1..		$M479SID	"B'01000000'" SID=SYSID
		..1.		$M479INT	"B'00100000'" SID=INITIALIZATION
		...1		$M479VAL	"B'00010000'" Validation error
		1...		$M291CC1	"B'10000000'" CCW 1 address filled in
		.1..		$M291CC2	"B'01000000'" CCW 2 address filled in
		..1.		$M291NCW	"B'00100000'" No CCWs addresses available
		...1		$M291SNS	"B'00010000'" Sense data is available
		1...		$M530NOR	"B'10000000'" Non-transactional JOE
		.1..		$M530TRN	"B'01000000'" Display transaction name
		1...		$M539GRP	"B'10000000'" Not valid CLASS or GROUP
		.1..		$M539CLS	"B'01000000'" Not valid CLASS
		1...		$M565LNE	"B'10000000'" Line request
		.1..		$M565CON	"B'01000000'" Connect request
		1...		$M568NIT	"B'10000000'" CBADDR is NIT
		.1..		$M568APT	"B'01000000'" CBADDR is APT
		..1.		$M568SCK	"B'00100000'" CBADDR ia SCK
		...1		$M568NSV	"B'00010000'" CBADDR is NETSRV DCT

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		$M568LGN	"B'00001000'" CBADDR is LOGON DCT
		.... .1..		$M568LIN	"B'00000100'" CBADDR is Line DCT
		1...		$M745INT	"B'10000000'" Internal extend error
		.1..		$M745STD	"B'01000000'" Standard extend error
		1...		$M867NOR	"B'10000000'" Normal volume
		.1..		$M867GOO	"B'01000000'" Go is a valid option
		..1.		$M867MON	"B'00100000'" Mapped on volume
		...1		$M867MTR	"B'00010000'" Active migration target
		.... 1...		$M867MSR	"B'00001000'" Active migration source
		1...		$M897INA	"B'10000000'" Socket is not active
		.1..		$M897ACL	"B'01000000'" Socket active for a line
		..1.		$M897ACS	"B'00100000'" Socket active for a NETSERV
		Other equates for messages in HASPMSG M445DON EQU 4 Already unactivated (obs)			
0	(0)	X'8'	0	$M445OTH	"8" Other MAS members active
0	(0)	X'C'	0	$M445CKP	"12" All CKPTs not allocated
0	(0)	X'10'	0	$M445ZOD	"16" Dep Netowrks (ZODs) exist
		HASP status bit definitions			
		1...		$QSONDA	"X'80'" SHARED QUEUES ARE ON DA
		.1..		$ALMSGSW	"X'40'" ALL AVAILABLE FUNCTIONS MSG ISSUED
		..1.		$DRAINED	"X'20'" THIS SYSTEM IS DRAINED, FLAG IS ON INITIALIALLY, OFF AFTER 'NOREQ' WARM START, SET BY $S/$P
		...1		$CKPTIOA	"X'10'" CKPT I/O is active
		.... 1...		$INDMODE	"X'08'" SYSTEM IS IN INDEPENDENT MODE
		.... .1..		$SYSEXIT	"X'04'" HASP SYSTEM IN TERMINATION PROCESS
		.... ..1.		$NPMDOWN	"X'02'" Network path manager has been disabled due to error
		1		$CKPTRSV	"X'01'" CHECKPOINT IS RESERVED
		$TKNLEN and $TKNVERN are the length and version of the security token that is defined for RACROUTE calls with RELEASE=1.9.			
0	(0)	X'50'	0	$TKNLEN	"80" SAF SECURITY TOKEN LENGTH
		1		$TKNVERN	"X'01'" SAF SECURITY TOKEN VERSION
0	(0)	X'27'	0	$ENTYLEN	"39" LENGTH OF SECURITY ENTITY STRING
		Equates for the type of JES2 start, used in the $WARMTYP and X024COND flag bytes.			
		1...		$WARM	"X'80'" SINGLE-SYSTEM WARMSTART
		.1..		$HOT	"X'40'" HOT START INDICATOR
		..1.		$QUICK	"X'20'" QUICK START INDICATOR
		...1		$CONFIG	"X'10'" CONFIGURATION-WIDE WARMSTART
		.... 1...		$ESYS	"X'08'" '$E SYS' RESTART

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$COLD	"X'04'" COLD START
		.... ..1.		$MVSIPL	"X'02'" MVS WAS IPL'D
		1		$COLDFMT	"X'01'" COLD START WITH FORMAT
		1111 1111		$INITCHK	"X'FF'" Init deck check (all bits off)
0	(0)	X'1F4'	0	$WARMHD	"500" Minimum number of hundreths of seconds for minhold during warmstart
HASP Subtask System Status Flag					
		1...		$SUBERR	"B'10000000'" UNRECOVERABLE SUBTASK ERROR
		.1..		$SUBMULT	"B'01000000'" MULTIPLE SUBTASK FAILURES
0	(0)	X'8000'	0	$LRGSMFB	"32*1024" SIZE OF LARGE SMF BUFFER D/T4245/4248 SETPRT OPTION * BIT DEFINITION *
		...1		$PPVERIU	"X'10'" UCS VERIFY BIT SPPVERIU
$RRTWA bit definitions					
		1...		$RRTJOB	"B'10000000'" JOB-LEVEL CHECKING REQ'D
		..1.		$RRTSQD	"B'00100000'" SQD passed for SUBIT call
HASPRTAM definitions					
0	(0)	X'120'	0	$MWORKSZ	"288" SIZE OF RTAM WORK AREA ADDRESSED VIA $MWORK -- MUST BE MULTIPLE OF 8 BYTES
$EXTP option and parameter list definitions					
0	(0)	X'0'	0	EXTPLCMD	"0,1" (CCW) COMMAND TO BE PERFORMED
0	(0)	X'1'	0	EXTPLLEN	"1,3" LENGTH OF DATA (IF ANY) PASSED
0	(0)	X'4'	0	EXTPLDAT	"4,4" STARTING ADDRESS OF DATA
0	(0)	X'8'	0	EXTPLSIZ	"8" SIZE OF PARAMETER LIST
0	(0)	X'0'	0	$EXTPOPE	"0" ENTRY LIST INDEX FOR OPEN
0	(0)	X'1'	0	$EXTPGET	"1" ENTRY LIST INDEX FOR GET
0	(0)	X'2'	0	$EXTPPUT	"2" ENTRY LIST INDEX FOR PUT
0	(0)	X'3'	0	$EXTPCLO	"3" ENTRY LIST INDEX FOR CLOSE
0	(0)	X'4'	0	$EXTPNCL	"4" ENTRY LIST INDEX FOR NCLOSE
0	(0)	X'5'	0	$EXTPREA	"5" ENTRY LIST INDEX FOR READ
0	(0)	X'6'	0	$EXTPWRI	"6" ENTRY LIST INDEX FOR WRITE
CSA storage block prefix equates					
0	(0)	X'0'	0	$CSBID	"0,4" CSA STOR BLK EYE CATCHER OFFSET
0	(0)	X'4'	0	$CSBSPLN	"4,4" CSA STG BLK SUBP/LNG OFFSET
0	(0)	X'8'	0	$CSBPRFX	"8" CSA STOR BLOCK PREFIX LENGTH
CSA storage block prefix length for quad word alignment					
0	(0)	X'10'	0	$CS2PRFX	"16" CSA STOR BLOCK PREFIX LEN

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASP initialization limits			
0	(0)	X'A'	0	$MINBUF	"10" Minimum # of HASP buffers
0	(0)	X'7'	0	$MAXNJEQ	"7" Maximum member number for NJE tests
0	(0)	X'7D0'	0	$MAXBUF	"2000" MAXIMUM NUMBER OF HASP BUFFERS
0	(0)	X'4'	0	$MINCMB	"4" Minimum # of CMBs
0	(0)	X'270F'	0	$MAXCMB	"9999" Maximum number of CMBs
0	(0)	X'4'	0	$MINCMDB	"4" Minimum # of command CMBs
0	(0)	X'270F'	0	$MAXCMDB	"9999" Maximum # of command CMBs
0	(0)	X'A'	0	$MINBUFX	"10" Minimum # of CB buffers
0	(0)	X'270F'	0	$MAXBUFX	"9999" Maximum # of CB buffers
0	(0)	X'A'	0	$MINBSC	"10" Minimum # of BSC Buffers
0	(0)	X'270F'	0	$MAXBSC	"9999" Maximum # of BSC buffers
0	(0)	X'A'	0	$MINVTAM	"10" Minimum # of VTAM buffers
0	(0)	X'270F'	0	$MAXVTAM	"9999" Maximum # of VTAM buffers
0	(0)	X'A'	0	$MINNHB	"10" Minimum # of NHB buffers
0	(0)	X'270F'	0	$MAXNHB	"9999" Maximum # of NHB buffers
0	(0)	X'3E8'	0	$MAXSMFB	"1000" Maximum # of SMF buffers
0	(0)	X'1F4'	0	$MAXPPBF	"500" Max # of PP cell in the $CPOOL primary extent
0	(0)	X'7FFF'	0	$MAXICES	"32767" Max number of sessions
0	(0)	X'C8'	0	$CPRIMXT	"200" NUMBER OF BUFFERS IN THE $CPOOL PRIMARY EXTENT
0	(0)	X'190'	0	$CPNHBMX	"400" Max number of NHB cells in the $CPOOL primary extent
0	(0)	X'FD'	0	$MAXDA	"253" MAXIMUM NUMBER OF SPOOL VOLUMES (($MAXDA+31)/32*4) IS USED TO DE-FINE THE NUMBER OF BYTES NEEDED IN DECLARES FOR SPOOL MASKS. EACH 32 VOLS NEEDS ONE WORD, TIMES 4, TO GET THE LENGTH IN BYTES
0	(0)	X'FF'	0	$MAXTGBE_Z11	"255" Z11 mode entries in BLOB
0	(0)	X'400'	0	$MAXTGBE	"1024" Number of entries in BLOB
0	(0)	X'1F4'	0	$MAXTINT	"500" MAX TIME (IN 100THS OF A SECOND) TO WAIT TO START A CKPT WRITE
0	(0)	X'F5E0FF'	0	$MAXHOLD	"99999999" Maximum CKPT hold value
0	(0)	X'F'	0	$MINTINT	"15" Min time (in 100th seconds) below which we will not do an intermediate write
0	(0)	X'20000'	0	$MAXTGV	"(X'0FFFFF'+7)/8" No. of bytes to represent MAXIMUM NO. OF TRK GROUPS per volume (1,048,575)
0	(0)	BITSTRING	0	$MAXLTRV	"X'0FFFFF'" This represents the maximum number of tracks allowed for a spool volume with large data set support enabled - 1,048,575.
0	(0)	X'11111'	0	$MAXLCYL	"($MAXLTRV)/15" Given $MAXLTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'FFFF'	0	$MAXTRV	"65535" This represents the maximum number of tracks allowed for a spool volume with large data set support not enabled. 65,535.

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1111'	0	$MAXCYL	"($MAXTRV)/15" Given $MAXTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'32'	0	$JMPREDO	"50" Rebuild JIX map after every 50 freed job numbers
0	(0)	X'61A80'	0	$MAXNJQE_Z11	"400000" Maximum number of JQEs for Z11 mode. Also MAX JQXs.
0	(0)	X'F4240'	0	$MAXNJQE	"1000000" Maximum number of JQEs for Z22 mode. Also MAX JQXs.
0	(0)	X'F423F'	0	$MAXJNUM	"999999" Maximum number of job nums
0	(0)	X'C80'	0	$SMBERT	"3200" Small BERT configuration for QBERTHRE - BERT shortage environment
0	(0)	X'5DC'	0	$SMENVB	"1500" Priv small env BERT config for QBERTHRE - BERT shortage environment
0	(0)	X'64'	0	$MINBERT	"100" Minimum number of BERTs
0	(0)	X'2625A0'	0	$MAXBERT	"$MAXNJQE*5/2" Maximum number of BERTs for Z22 mode. 1,250,000
0	(0)	X'F4240'	0	$MAXBERT_Z11	"$MAXNJQE_Z11*5/2" Maximum number of BERTs for Z11 mode. 1,000,000
0	(0)	X'7A120'	0	$MAXNZJC	"500000" Maximum number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	X'3E8'	0	$DEFNZJC	"1000" Default number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	X'4'	0	$MAXARTT	"4" Maximum allocated resource table entry types tracked for consumption rates and total resource trends - SPOOL tracks - Submitted jobs (JQEs) - JOEs (work JOEs) - BERTs
0	(0)	X'64'	0	$MAXARTE	"100" Maximum allocated resource table entries or total resource trend table entries tracked by address space
0	(0)	X'2'	0	$MAXARTR	"2" Total resource trend table entries required to calculate a rate
0	(0)	X'3E8'	0	$MAXTOTH	"1000" Maximum total resource trend table history entries
0	(0)	X'64'	0	$MAXMERG	"100" Maximum number of table entries tracked in the merged table of top consumers of resource in the MAS.
0	(0)	X'A'	0	$MAXTOTD	"10" Maximum total resource trend table history entries in SCAN temp CB
0	(0)	X'A'	0	$MAXRATC	"10" Maximum allocated resource table entries required to calculate a rate
0	(0)	X'7FFF'	0	$MAXARTC	"32767" Maximum control number value in ARTLCNTL field
0	(0)	X'D988'	0	$MAXCDC2	"55688" Maximum size of a Type 2 CDCT
0	(0)	BITSTRING	0	$MAXDSKY	"X'FFFFFFFF'" Max DS key in a job
0	(0)	X'4E20'	0	$MAXESIZ	"20000" Maximum JQE extensions
0	(0)	X'F5E0FF'	0	$MAXJOID	"99999999" MAXIMUM JOE ID NUMBER IN JQE
0	(0)	X'FFFF'	0	$MAXLNES	"65535" MAXIMUM NUMBER OF TP LINES
0	(0)	X'3E7'	0	$MAXLOGS	"999" MAXIMUM VTAM INTERFACES INTERFACES
0	(0)	X'3E7'	0	$MAXSRVS	"999" MAXIMUM NJE SERVERS
0	(0)	X'7FFF'	0	$MAXNODE	"32767" MAXIMUM NUMBER OF NJE NODES

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	$MAXPATH	"8" Max nr of paths per node
0	(0)	X'7D0'	0	$MAXRST	"2000" MAXIMUM SPECIFIABLE RESISTANCE
0	(0)	X'63'	0	$MAXCMPT	"99" MAXIMUM NUMBER OF CMPCTION TBLS
0	(0)	X'8'	0	$MAXOFFS	"8" MAXIMUM NUMBER OF OFFLOAD DEV
0	(0)	X'7FFF'	0	$MAXPRTS	"32767" MAX NUMBER OF LOCAL PRTs
0	(0)	X'63'	0	$MAXPUNS	"99" MAXIMUM NUMBER OF LOCAL PUNCHES
0	(0)	X'63'	0	$MAXRDRS	"99" MAXIMUM NUMBER OF LOCAL READERS
0	(0)	X'7FFF'	0	$MAXRJE	"32767" MAX NUMBER OF REMOTES
0	(0)	X'7FFF'	0	$MAXROUT	"32767" MAX ROUTE CODE
0	(0)	X'C8'	0	$MAXNMSG	"200" MAX NUMBER NOTIFY MSG BUFFS
0	(0)	X'1F4'	0	$MAXSJFR	"500" MAX NUM SJF SERVICE REQSTS
0	(0)	X'12'	0	$MAXRCLN	"18" Max symbolic routecde len
0	(0)	X'7F'	0	$MAXIPLN	"127" Max IP-format dest length
0	(0)	X'7FFF'	0	$MAXCPPG	"32767" MAXIMUM VALUE FOR CKPTPAGE
0	(0)	X'7FFF'	0	$MAXCPLN	"32767" MAXIMUM VALUE FOR CKPTLINE
0	(0)	X'7FFF'	0	$MAXCPTM	"32767" MAXIMUM VALUE FOR CKPTSEC
0	(0)	X'E10'	0	$MAXNPRO	"3600" MAXIMUM TIME BEFORE PRT NPRO
0	(0)	X'270F'	0	$MAXINIT	"9999" Maximum number, initiators
0	(0)	X'8'	0	$MAXWCLS	"8" Maximum number of class values for work selection
0	(0)	X'8'	0	$MAXFORM	"8" MAXIMUM NUMBER OF PRINTER FORMS FOR WORK SELECTION
0	(0)	X'FF'	0	$MAXPRMD	"255" MAXIMUM NUMBER OF PRMODES DEFINED FOR THIS SYSTEM
0	(0)	X'8'	0	$MAXPRDV	"8" DEFAULT NUMBER OF PROCESS MODES PER DEVICE
0	(0)	X'20'	0	$MAXSYSN	"32" Maximum number of members
0	(0)	X'20'	0	$MAXSYS	"(($MAXSYSN+7)/8)*8" Maximum # of members forced to multiple of 8
0	(0)	X'4'	0	$MXSYSBY	"($MAXSYS)/8" Number of bytes to hold affinity mask
0	(0)	X'4'	0	$MAXSNML	"4" MAX SYSTEM AFFINITY NAME LENGTH
0	(0)	X'80'	0	$MAXSAFL	"$MAXSYS*$MAXSNML" Max affinity list length
0	(0)	X'8'	0	$MAXLCK	"8" NUMBER OF LCK CKPT ELEMENTS
0	(0)	X'32'	0	$MAXVRSN	"50" MAX VERSIONS IN DATA SPACE
0	(0)	X'BB8'	0	$MAXTRC	"3000" Max trace table pages
0	(0)	BITSTRING	0	$MAXTLOG	"X'7FFFFFFF'" MAX TRACE LOG DATASET SIZE
0	(0)	X'1E'	0	$MAXSSZZ	"30" Max rest time for SJFR PCE
0	(0)	X'63'	0	$MXCKPCT	"99" Max allowable warning threshold %age for checkpointed resources
0	(0)	X'98967F'	0	$MAXDISP	"9999999" Max allowable lines in command response
0	(0)	X'14'	0	$MAXJOEP	"20" Max number to JOEs to purge before processing a JQE
0	(0)	X'8'	0	$MAXCLSZ	"8" Maximum number of chars in a job class
0	(0)	X'200'	0	$MAXJCLS	"512" Maximum job classes

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Maximum counts for processes			
0	(0)	X'19'	0	$MAXCNVT	"25" Maximum CNVT PCEs
0	(0)	X'19'	0	$MAXPURG	"25" Maximum PURGE PCEs
0	(0)	X'A'	0	$MAXPSO	"10" Maximum PSO PCEs
0	(0)	X'19'	0	$MAXOUT	"25" Maximum OUTPUT PCEs
0	(0)	X'A'	0	$MAXSTAC	"10" Maximum STATUS/CANCEL PCEs
0	(0)	X'A'	0	$MAXSPIN	"10" Maximum SPIN PCEs
0	(0)	X'C8'	0	$MAXCONJ	"200" Maximum number of jobs that can be defined as running concurrent in a JOBGROUP in a single set
0	(0)	X'7D0'	0	$MAXJGJB	"2000" Maximum number of jobs that can be defined to a JOBGROUP
0	(0)	X'8'	0	$MAXNFYS	"8" Maximum number of NOTIFY statements in a job
		SRVSETUP routine equates			
0	(0)	X'4'	0	$VOLMAX	"4" MAXIMUM NUMBER OF VOLUMES
0	(0)	X'6'	0	$VOLLEN	"6" LENGTH OF VOLUME NAME
0	(0)	X'18'	0	$VOLFLDL	"$VOLMAX*$VOLLEN" VOLUME FIELD LENGTH
0	(0)	X'20'	0	$VOLMSKL	"(($MAXDA+31)/32*4)" VOLUME MASK SIZE
		KCPYMSTR "Direction" Equates			
0	(0)	X'0'	0	$KCPMI2M	"0" Copy $MASTERI to $MASTER
0	(0)	X'1'	0	$KCPM2MI	"1" Copy $MASTER to $MASTERI
		HASP initialization defaults			
0	(0)	X'3E8'	0	$JQEDEF	"1000" DEFAULT NUMBER OF JQE'S
0	(0)	X'64'	0	$CMBDEF	"100" DEFAULT NUMBER OF CMB'S
0	(0)	X'270F'	0	$MAXJDEF	"9999" DEFAULT VALUE FOR MAX JOB#
0	(0)	X'1'	0	$MINJDEF	"1" DEFAULT VALUE FOR MIN JOB#
0	(0)	X'5'	0	$SMFDEF	"5" DEFAULT NUMBER OF SMF BUFFERS
0	(0)	X'12C'	0	$NPRODEF	"300" DEFAULT NPRO TIME
0	(0)	X'64'	0	$CKPGDEF	"100" DEFAULT CKPTPAGE VALUE
0	(0)	X'1'	0	$SSIRCVR	"1" NUMBER OF RECOVERABLE $ERRORS ALLOWED IN AN SSI FUNCTION
0	(0)	X'32'	0	$IOTPRTG	"50" Min # TGAEs in Primary IOT
0	(0)	X'3E8'	0	$IOTRBGN	"1000" SPIN IOTS CREATED BEFORE REUSE
0	(0)	X'5'	0	$IOTRLMT	"5" MAX ATTEMPTS AT REUSE/ALLOC
0	(0)	X'3E8'	0	$PBUFLIM	"1000" MAX ADDITIONAL PBUFS/ASID
0	(0)	X'64'	0	$SEGLMDF	"100" DEFAULT SEGMENT LIMIT
0	(0)	X'100'	0	$QINDXL	"256" Length of QINDEX table
0	(0)	X'100'	0	$SQINDXL	"63+C'A'" LENGTH OF $#INDEX TABLE

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASP track group map rounding and max size values: $TGDEF=((4096-HDPLNGTH)/2) 8 $MAXTGS=(10000000/$TGDEF) $TGDEF Be sure to update the routines JCMDHIST and JCMDTAIL and the message structures for HASP9104 and HASP9131, all defined in HASJCMDS, if the number of digits in $MAXTGS increases.			
0	(0)	X'3FA0'	0	$TGDEF	"16288" DEFAULT NUMBER OF TRACK GROUPS AND RESULTS IN 2 TRACK GROUP MAPS IN PAGE OF CKPT STORAGE
0	(0)	X'E81200'	0	$MAXTGS	"132649472" Max number of track groups
		$CTENT version number values			
0	(0)	X'1'	0	TGMVRSN	"1" TGM CKPT VERSION NUMBER
0	(0)	X'1'	0	SCQVRSN	"1" SCQ CKPT version number
0	(0)	X'2'	0	JIXVRSN	"2" JIX CKPT version number
0	(0)	X'2'	0	PSTVRSN	"2" PST CKPT VERSION NUMBER
0	(0)	X'1'	0	RSOVRSN	"1" RSO CKPT VERSION NUMBER
		Establish MVS EQUs and globals			
		...1 1...		IECITMOD	"X'18'" HASP ATTENTION INDEX
		$MAXACCT represents the maximum number of characters allowed on an MVS JOB statement accounting string. In internal format, $MAXACCT+2 bytes are required to hold the string (a one byte counter of the number of subfields, and the one byte length of the first subfield. the length fields for the second and subsequent subfields do not require an extra byte as there was previously a one byte comma separating the subfields).			
0	(0)	X'8F'	0	$MAXACCT	"143" Max number of characters allowed for accounting on an MVS JOB statement
0	(0)	X'3'	0	$MINEMID	"3" Minimum length of EMAIL id (RACF limit)
0	(0)	X'F6'	0	$MAXEMID	"246" Maximum length of EMAIL id (RACF limit)
		$TRACE record formatting keys			
0	(0)	X'0'	0	$TRK000D	"0" UNLABELED DUMP FORMAT
		Checkpoint disposition			
		1...		$CKPAMWS	"X'80'" All member warm start in progress
		.1..		$CKPSPVL	"X'40'" Track group map rebuild in progress
		..1.		$CKPLOKB	"X'20'" OPERATOR BYPASSED LOCK
		EQU X'10' RESERVED FOR FUTURE USE			
		.... 1...		$CKPDAMG	"X'08'" CHECKPOINT READ WAS DAMAGED
		$CKPERRQ X'04' This bit used in 5.1 (cannot use in 5.2)			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$CKPBLDQ	"X'02'" JOB QUEUE REBUILT
$CKPERRJ X'01' This bit used in 5.1 (cannot use in 5.2) Checkpoint recovery dialog flags					
		1...		$CKRTOP	"B'10000000'" THIS SYSTEM HAS HIGHEST CKP
		.1..		$CKRNTOP	"B'01000000'" THIS SYSTEM DOES NOT HAVE HIGHEST CHECKPOINT
		..1.		$CKRCKP1	"B'00100000'" CKPT1 FILE IS ACTIVE
		...1		$CKRNKP1	"B'00010000'" CKPT1 FILE IS NOT ACTIVE
		.... 1...		$CKRCKP2	"B'00001000'" CKPT2 FILE IS ACTIVE
		.... .1..		$CKRNKP2	"B'00000100'" CKPT2 FILE IS NOT ACTIVE
		.... ..1.		$CKRIOE	"B'00000010'" PROCESSING I/O ERROR
		1		$CKRNIOE	"B'00000001'" NOT PROCESSING I/O ERROR
THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS $CKRIOE OR $CKRNIOE. (MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP273 MESSAGE)					
		1...		$CKRSTRT	"B'10000000'" CHECKPOINT FILE BEING PLACED BACK INTO SERVICE (OPTION 7 OR 8) RESPONSE TO HASP271/272
		.1..		$CKRNSTR	"B'01000000'" CHECKPOINT FILE BEING ASSIGNED TO NEWCKPTN
THESE NEXT TWO BIT DEFINITIONS MUST BE MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP282 AND HASP278 MESSAGES					
		1...		$CKRDEL	"B'10000000'" DELETE OPTION VALID
		.1..		$CKRNDEL	"B'01000000'" DELETE OPTION IS NOT VALID
Extension area mapping					
0	(0)	X'0'	0	$JEXTTGN	"0,2,C'H'" TRACK GROUP NUMBER, MUST BE 1ST
0	(0)	X'2'	0	$JEXTLEN	"L'$JEXTTGN" LENGTH OF EXTENSION AREA
		1...		$JEXTFRE	"X'80'" Extension area is free if high order bit is on
0	(0)	BITSTRING	0	$JEXTMAX	"X'7FFF'" Maximum TG count in JQT or in JQETGNUM
Equates used to mark the extra control bytes to reflect how the page was last updated. Algorithms in JES2 depend on the first four equates residing in the low nibble of the control byte					
		1		CKPCLCKP	"B'00000001'" $CKPT ROUTINE MARKED PAGE
		.... ..1.		CKPCLRDC	"B'00000010'" IN KAFTRD2, CHLOG ON OTHER
		.... .1..		CKPCLRDP	"B'00000100'" IN KAFTRD2, 4K PG ON OTHER
		.... 1...		CKPCLBCL	"B'00001000'" IN KBLDCHLG, IN OUR CHLOG

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		 1111		CKPCLMRK	"B'00001111'" MARKED BY HASPCKAP SUBTASK (ALSO USED TO TEST LOW NIBBLE)
		1...		CKPCLCRW	"B'10000000'" PAGE UPDATED FOR CURRENT I/O
		.1..		CKPCLCMW	"B'01000000'" PAGE UPDATED SINCE LAST PRIMARY WRITE IN THIS CYCLE
	Requests types for the CKPT DASD/CF subtask (Must be the same as those in $HASPEQP)				
0	(0)	X'1'	0	CKREQ_T1IO	"1" ID for track 1 I/O
0	(0)	X'2'	0	CKREQ_READ2	"2" ID for READ2 request
0	(0)	X'3'	0	CKREQ_WRITE	"3" ID for WRITE request
0	(0)	X'4'	0	CKREQ_LOCK	"4" ID for lock/RESERVE req
0	(0)	X'5'	0	CKREQ_UNLCK	"5" ID for unlock/RELEASE req
0	(0)	X'6'	0	CKREQ_FMT	"6" ID for FORMAT request
0	(0)	X'7'	0	CKREQ_EXTND	"7" ID for extend request
0	(0)	X'8'	0	CKREQ_REALC	"8" ID for reallocate request (DASD CKPT only)
	JES processing subpools				
0	(0)	X'0'	0	$SP0	"0" General purpose subpool
0	(0)	X'4'	0	CKPTPOOL	"4" Subpool for CKC/CKB
0	(0)	X'5'	0	BATPOOL	"5" Subpool for BAT
0	(0)	X'6'	0	BSCPOOL	"6" Subpool for BSC
0	(0)	X'7'	0	CBPOOL	"7" Subpool for Control Blocks
0	(0)	X'8'	0	HASPPOOL	"8" Subpool for HASP Buffers
0	(0)	X'9'	0	NATPOOL	"9" Subpool for NAT
0	(0)	X'A'	0	B32KPOOL	"10" Subpool for 32K buffers
0	(0)	X'B'	0	NMAPPOOL	"11" Subpool for NMAP
0	(0)	X'C'	0	NSAPOOL	"12" Subpool for NSA
0	(0)	X'D'	0	NTQPOOL	"13" Subpool for NTQ
0	(0)	X'E'	0	PAGEPOOL	"14" Subpool for PAGE Buffers
0	(0)	X'F'	0	PPPOOL	"15" Subpool for PP Buffers
0	(0)	X'10'	0	VTAMPOOL	"16" Subpool for VTAM Buffers
0	(0)	X'11'	0	XRQPOOL	"17" Subpool for XCF requests
0	(0)	X'12'	0	SMFPOOL	"18" Subpool for SMF requests
0	(0)	X'13'	0	CFPOOL	"19" Subpool for CF data
0	(0)	X'14'	0	CMBPOOL	"20" Subpool for CMBs
0	(0)	X'15'	0	PLXPOOL	"21" Subpool for PLX dyn areas
0	(0)	X'16'	0	HEDRPOOL	"22" Subpool for NJE hdr/trlr buffers
0	(0)	X'17'	0	TINTPOOL	"23" Subpool for temporary CBs used during initialization
0	(0)	X'18'	0	PERFPOOL	"24" Subpool for performance tracking related storage
0	(0)	X'19'	0	PCEPOOL	"25" Subpool for PCEs
0	(0)	X'1A'	0	ICEPOOL	"26" Subpool for ICEs
0	(0)	X'1B'	0	PSOPOOL	"27" Subpool for PSOs
0	(0)	X'1C'	0	RNTPOOL	"28" Subpool for RNTs

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1D'	0	CIDPOOL	"29" Subpool for CIDs
0	(0)	X'1E'	0	SQDPOOL	"30" Subpool for SQDs
0	(0)	X'1F'	0	GPQPOOL	"31" Subpool for GPQs
0	(0)	X'20'	0	SCWAPOOL	"32" Subpool for Normal SCWAs
0	(0)	X'21'	0	SCWDPOOL	"33" Subpool for Display SCWAs
0	(0)	X'22'	0	WAVEPOOL	"34" Subpool for WAVE/Entity
0	(0)	X'84'	0	$SP132	"132" Non-fetch protected private
0	(0)	X'E5'	0	$STSUBP	"229" SUBPOOL FOR SECURITY TOKENS FETCH PROTECTED, USER KEY
0	(0)	X'E7'	0	$SPCSAF	"231" CSA, fetch protected, user key
0	(0)	X'E9'	0	$SP233	"233" Fixed non-fetch protected private
0	(0)	X'F1'	0	$ENFCSA	"241" Subpool for some ENF data
0	(0)	X'F9'	0	$ENFPPOL	"249" Subpool for ENF parm lists High, Private, JS TCB
	Event trace formatting EQUs				
		.... 1..1		TRCCWSP1	"X'09'" WRITE-THEN-SPACE-1 CC
		...1 ...1		TRCCWSP2	"X'11'" WRITE-THEN-SPACE-2 CC
		...1 1..1		TRCCWSP3	"X'19'" WRITE-THEN-SPACE-3 CC
0	(0)	X'79'	0	TRCLRECL	"121" MAX LOGICAL RECORD LENGTH
	Printer log area lengths				
0	(0)	X'23A'	0	DYNL3211	"570" SIZE OF 3211 LOG AREA
0	(0)	X'10E'	0	DYNL3800	"270" SIZE OF 3800 MDR AREA
0	(0)	X'250'	0	DYNL3203	"592" SIZE OF 3203 LOG AREA
0	(0)	X'250'	0	DYNL4245	"592" SIZE OF 4245 LOG AREA
0	(0)	X'100'	0	DYNL4248	"256" SIZE OF 4248 LOG AREA
	OUTPUT GROUP DISPOSITION COMMON EQUATES				
		...1		$ODPURGE	"B'00010000'" OUTDISP=PURGE
		.... 1...		$ODWRITE	"B'00001000'" OUTDISP=WRITE
		.... .1..		$ODHOLD	"B'00000100'" OUTDISP=HOLD
		.... ..1.		$ODKEEP	"B'00000010'" OUTDISP=KEEP
		1		$ODLEAVE	"B'00000001'" OUTDISP=LEAVE
0	(0)	X'F'	0	$ODANY	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE" TEST FOR OUTDISP W/O PURGE
0	(0)	X'1F'	0	$ODANYWP	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE+ $ODPURGE" TEST FOR OUTDISP WITH PURGE
	Mapping of catastrophic error user entry				
0	(0)	X'0'	0	$ERRCDE	"0,4" POSITION/LENGTH OF CATA ERR CODE IN TABLE
0	(0)	X'4'	0	$ERRTEXT	"4,42" POSITION/LENGTH OF CATA ERR TEXT IN TABLE
0	(0)	X'2E'	0	$ERRENTY	"L'$ERRCDE+L'$ERRTEXT" LENGTH OF AN ENTRY IN TABLE

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASP $SCAN caller id flags Users should use ids from 255 down, if needed			
0	(0)	X'1'	0	$SCOPTS	"1" IROPTS HASP OPTIONS
0	(0)	X'2'	0	$SCIRPL	"2" IRPL NONE-CONSOLE STMTS
0	(0)	X'3'	0	$SCIRPLC	"3" IRPL CONSOLE STMTS
0	(0)	X'4'	0	$SCDCMDS	"4" DISPLAY COMMANDS
0	(0)	X'5'	0	$SCSCMDS	"5" SET COMMANDS
0	(0)	X'6'	0	$SCDOCMD	"6" SHORT DISPLAY FORM
0	(0)	X'7'	0	$SCSTCMD	"7" START COMMANDS
0	(0)	X'8'	0	$SCPCMDS	"8" STOP COMMANDS
0	(0)	X'9'	0	$SCDDIAL	"9" DIALOG DISPLAY FORM
0	(0)	X'A'	0	$SCSDIAL	"10" DIALOG SET FORM
0	(0)	X'B'	0	$SCECMDS	"11" RESET COMMANDS (list)
0	(0)	X'C'	0	$SCACMDS	"12" ADD COMMANDS
0	(0)	X'D'	0	$SCRCMDS	"13" DELETE COMMANDS
0	(0)	X'E'	0	$SCIDIAL	"14" DIALOG (INITIALIZATION)
0	(0)	X'F'	0	$SCLTCMD	"15" Output long display
0	(0)	X'10'	0	$SCECMDA	"16" RESET COMMANDS (single)
0	(0)	X'11'	0	$SCZCMDS	"17" HALT commands
0	(0)	X'12'	0	$SCHCMDS	"18" HOLD commands
0	(0)	X'13'	0	$SCRLCMD	"19" RELEASE commands
0	(0)	X'14'	0	$SCCCMDS	"20" CANCEL commands
0	(0)	X'15'	0	$SCTOCMD	"21" $TO commands
0	(0)	X'16'	0	$SCCOCMD	"22" $CO commands
0	(0)	X'17'	0	$SCPOCMD	"23" $PO commands
0	(0)	X'18'	0	$SCOCMDS	"24" $O command
0	(0)	X'19'	0	$SCLOCMD	"25" Output short display
0	(0)	X'1A'	0	$SCLCMDS	"26" $L command
0	(0)	X'1B'	0	$SCACTCM	"27" $ACTIVATE command
0	(0)	X'1C'	0	$SCZAPCM	"28" $ZAP command
0	(0)	X'1D'	0	$SCMGCMD	"29" $MIGRATE command
0	(0)	X'1E'	0	$SCPYCMD	"30" $POLICY command
		HASP $SCAN PRE/POST scan call types Passed into PRE/POST scans in R2			
0	(0)	X'0'	0	$SCNPRE	"0" PRE-SCAN routine call
0	(0)	X'4'	0	$SCNPOST	"4" Post SCAN routine call
0	(0)	X'8'	0	$SCNCLN	"8" Cleanup routine call
		HASP $SCAN warning mask equates			
		1...		$SCWOBS	"B'10000000'" WARN FOR OBSOLETE PARAMETERS
		.1..		$SCWHOTS	"B'01000000'" WARN FOR HOT START
		..11 11..		$SCWIBM	"B'00111100'" RESERVED FOR FUTURE USE
		11		$SCWINST	"B'00000011'" RESERVED FOR INSTALLATION

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASP command PCE id/seq equates			
0	(0)	X'0'	0	$CMDNORM	"0" Normal command processor
0	(0)	X'1'	0	$CMDDYNA	"1" Dynamic LOADMOD/exit PCE
0	(0)	X'2'	0	$CMDLIMT	"2" Resource LIMITS command PCE
0	(0)	X'3'	0	$CMDNUM	"3" Number of command PCEs
		HASP $SCAN diagnostic level table equate values			
0	(0)	X'0'	0	SDLTBADD	"0,4,C'A'" ADDR OF THE KEYWORD BACKUP AREA
0	(0)	X'4'	0	SDLTLEN	"4" LEN OF DIAG LVL TABLE ENTRY
0	(0)	X'A'	0	SDLTNUM	"10" Number of SDLT entries (one is reserved to end the table and will never point to a backup area
		Equates for $GETABLE/$RETABLE/$PUTABLE to process table type tables in HTABTAB			
0	(0)	X'0'	0	HTABTEL	"0,2" TABLE ENTRY LENGTH
0	(0)	X'2'	0	HTABTMCT	"2,2" OFFSET OF MCT ADDR PAIR
0	(0)	X'4'	0	HTABTUFB	"4,2" OFFSET OF ENTRY FLAG BYTE IN WHICH X'80' INDICATES USER ENTRY
0	(0)	X'6'	0	HTABTIDF	"6,2" OFFSET OF ENTRY ID FIELD
0	(0)	X'8'	0	HTABTIDL	"8,1" ENTRY ID LENGTH INDICATION (ID LENGTH in bytes)
0	(0)	X'9'	0	HTABFLGB	"9,1" Flag byte
		1...		HTABFTRQ	"B'10000000'" Table pair offset must be passed in
		.1..		HTABFOFF	"B'01000000'" HTABTEL contains offset of halfword field containing length of the entry (aka offset to next entry)
		..1.		HTABFADD	"B'00100000'" HTABTEL contains offset of field containing address of next entry in the table
		...1		HTABF0TB	"B'00010000'" Load next pointer from 1st table entry in table
		.... 1...		HTABFNCK	"B'00001000'" Don't check for zeroes in last table=end entry
0	(0)	X'A'	0	HTABTABL	"10" LENGTH OF HTABTAB ENTRY
		HASP $SCAN equates for indexing into the dynamic diagnostic error messages			
0	(0)	X'0'	0	DIAGADDR	"0,4" ADDRESS OF THE DIAGNOSTIC TEMPLATE
0	(0)	X'4'	0	DIAGKLOC	"4,1" LEN INTO THE PHRASE WHERE OPERAND IS TO BE PLACED
0	(0)	X'5'	0	DIAGKLEN	"5,1" MAX LEN OF OPERAND TO BE PLACED
		Equates for dynamic tables			
0	(0)	X'0'	0	PAIRUSER	"0,4" User table
0	(0)	X'4'	0	PAIRHASP	"4,4" HASP table
0	(0)	X'8'	0	PAIRDYN	"8,4" Dynamic table (pointer to cell)

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C'	0	PAIRLEN	"12" Table pair length
	Dynamic cell mapping				
0	(0)	X'0'	0	DYNTEYE	"0,4,C'C'" Eyecatcher
0	(0)	X'4'	0	DYNTNEXT	"4,4" Pointer to next cell
0	(0)	X'8'	0	DYNTTAB	"8,4" Pointer to table
0	(0)	X'C'	0	DYNTLMT	"12,4" Pointer to containing LMT
0	(0)	X'10'	0	DYNTTYPE	"16,1" Table type (see MTETBTYP)
0	(0)	X'18'	0	DYNTLEN	"24" Length of dynamic table cell
	HASP $SCAN equates for index into the diagnostic msg table base on the reason codes				
0	(0)	X'4'	0	SCNDR01	"4,4" PTR TO DIAGINV MESSAGE ADDR
0	(0)	X'8'	0	SCNDR03	"SCNDR01+4,4" PTR TO DIAGNSP MESSAGE ADDR
0	(0)	X'C'	0	SCNDR04	"SCNDR03+4,4" PTR TO DIAGSSER MESSAGE ADDR
0	(0)	X'10'	0	SCNDR05	"SCNDR04+4,4" PTR TO DIAGVERR MESSAGE ADDR
0	(0)	X'14'	0	SCNDR06	"SCNDR05+4,4" PTR TO DIAGIVAL MESSAGE ADDR
0	(0)	X'18'	0	SCNDR07	"SCNDR06+4,4" PTR TO DIAGRTYP MESSAGE ADDR
0	(0)	X'1C'	0	SCNDR08	"SCNDR07+4,4" PTR TO DIAGBRAN MSG ADDR
0	(0)	X'20'	0	SCNDR09	"SCNDR08+4,4" PTR TO DIAGSRNG MESSAGE ADDR
0	(0)	X'24'	0	SCNDR10	"SCNDR09+4,4" PTR TO DIAGLRNG MESSAGE ADDR
0	(0)	X'28'	0	SCNDR11	"SCNDR10+4,4" PTR TO DIAGDCOR MESSAGE ADDR
0	(0)	X'2C'	0	SCNDR12	"SCNDR11+4,4" PTR TO DIAGROM MESSAGE ADDR
0	(0)	X'30'	0	SCNDR13	"SCNDR12+4,4" PTR TO DIAGVND MESSAGE ADDR
0	(0)	X'34'	0	SCNDR14	"SCNDR13+4,4" PTR TO DIAGMLDX MESSAGE ADDR
0	(0)	X'38'	0	SCNDR17	"SCNDR14+4,4" PTR TO DIAGIRTE MESSAGE ADDR
0	(0)	X'3C'	0	SCNDR18	"SCNDR17+4,4" PTR TO DIAGIRC MESSAGE ADDR
0	(0)	X'40'	0	SCNDR19	"SCNDR18+4,4" PTR TO DIAGIACT MESSAGE ADDR
0	(0)	X'44'	0	SCNDR21	"SCNDR19+4,4" PTR TO DIAGIRDV MESSAGE ADDR
0	(0)	X'48'	0	SCNDR22	"SCNDR21+4,4" PTR TO DIAGNULI MESSAGE ADDR
0	(0)	X'4C'	0	SCNDR23	"SCNDR22+4,4" PTR TO DIAGCMT MESSAGE ADDR
0	(0)	X'50'	0	SCNDR24	"SCNDR23+4,4" PTR TO DIAGGMER MESSAGE ADDR
0	(0)	X'54'	0	SCNDR25	"SCNDR24+4,4" PTR TO DIAGDERR MESSAGE ADDR

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'58'	0	SCNDR26	"SCNDR25+4,4" PTR TO DIAGABND MESSAGE ADDR
0	(0)	X'5C'	0	SCNDR27	"SCNDR26+4,4" PTR TO DIAGINTR MESSAGE ADDR
0	(0)	X'60'	0	SCNDR28	"SCNDR27+4,4" PTR TO DIAGCBRD MESSAGE ADDR
IDS 31 - 38, 42, 47 - 51 AND 60 - 61 RESERVED FOR $MODCHK					
0	(0)	X'64'	0	SCNDR39	"SCNDR28+4,4" PTR TO DIAGINCM MESSAGE ADDR
0	(0)	X'68'	0	SCNDR40	"SCNDR39+4,4" PTR TO DIAGMWTO MESSAGE ADDR
0	(0)	X'6C'	0	SCNDR41	"SCNDR40+4,4" PTR TO DIAGSPIN MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 42 FOR $MODCHK					
0	(0)	X'70'	0	SCNDR43	"SCNDR41+4,4" PTR TO DIAGMTTB MESSAGE ADDR
0	(0)	X'74'	0	SCNDR44	"SCNDR43+4,4" PTR TO DIAGOBS MESSAGE ADDR
0	(0)	X'78'	0	SCNDR45	"SCNDR44+4,4" PTR TO DIAGHOT MESSAGE ADDR
0	(0)	X'7C'	0	SCNDR46	"SCNDR45+4,4" PTR TO DIAGWARN MESSAGE ADDR
0	(0)	X'80'	0	SCNDR52	"SCNDR46+4,4" PTR TO DIAGNFL MESSAGE ADDR
0	(0)	X'84'	0	SCNDR54	"SCNDR52+4,4" PTR TO DIAGINOD MESSAGE ADDR
0	(0)	X'88'	0	SCNDR55	"SCNDR54+4,4" PTR TO DIAGACTE MESSAGE ADDR
0	(0)	X'8C'	0	SCNDR56	"SCNDR55+4,4" PTR TO DIAGNFLC MESSAGE ADDR
0	(0)	X'90'	0	SCNDR57	"SCNDR56+4,4" PTR TO DIAGTMO MESSAGE ADDR
0	(0)	X'94'	0	SCNDR58	"SCNDR57+4,4" PTR TO DIAGGENE MESSAGE ADDR
0	(0)	X'98'	0	SCNDR59	"SCNDR58+4,4" PTR TO DIAGIAER MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 60 FOR $MODCHK THIS SPACE IS RESERVED FOR REASON CODE 61 FOR $MODCHK					
0	(0)	X'9C'	0	SCNDR62	"SCNDR59+4,4" PTR TO DIAGCONV MSG ADDR
0	(0)	X'A0'	0	SCNDR63	"SCNDR62+4,4" PTR TO DIAGFCST MSG ADDR
0	(0)	X'A4'	0	SCNDR64	"SCNDR63+4,4" PTR TO DIAGNOPM MSG ADDR
0	(0)	X'A8'	0	SCNDR65	"SCNDR64+4,4" PTR TO DIAGUNSD MSG ADDR
0	(0)	X'AC'	0	SCNDR66	"SCNDR65+4,4" PTR TO DIAGNXST MSG ADDR
0	(0)	X'B0'	0	SCNDR67	"SCNDR66+4,4" PTR TO DIAGFUDF MSG ADDR
0	(0)	X'B4'	0	SCNDR68	"SCNDR67+4,4" PTR TO DIAGSSEL MSG ADDR

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'B8'	0	SCNDR69	"SCNDR68+4,4" PTR TO DIAGDUAL MSG ADDR
0	(0)	X'BC'	0	SCNDR70	"SCNDR69+4,4" PTR TO DIAGVVAL MSG ADDR
0	(0)	X'C0'	0	SCNDR71	"SCNDR70+4,4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4'	0	SCNDR72	"SCNDR71+4,4" PTR TO DIAGRJER MSG ADDR
0	(0)	X'C8'	0	SCNDR73	"SCNDR72+4,4" PTR TO DIAGLVL MSG ADDR
0	(0)	X'CC'	0	SCNDR74	"SCNDR73+4,4" Ptr to DIAGCKPT msg addr
0	(0)	X'D0'	0	SCNDR75	"SCNDR74+4,4" Ptr to DIAGDPLX msg addr
0	(0)	X'D4'	0	SCNDR76	"SCNDR75+4,4" PTR TO DIAGFLST MSG ADDR
0	(0)	X'D8'	0	SCNDR77	"SCNDR76+4,4" PTR TO DIAGFLRQ MSG ADDR
0	(0)	X'DC'	0	SCNDR78	"SCNDR77+4,4" PTR TO DIAGMULJ MSG ADDR
0	(0)	X'E0'	0	SCNDR79	"SCNDR78+4,4" PTR TO DIAGPSCN MSG ADDR
0	(0)	X'E4'	0	SCNDR80	"SCNDR79+4,4" PTR TO DIAGPSC2 MSG ADDR
0	(0)	X'E8'	0	SCNDR81	"SCNDR80+4,4" PTR TO DIAGCAUT MSG ADDR
0	(0)	X'EC'	0	SCNDR82	"SCNDR81+4,4" PTR TO DIAGFIKY MSG ADDR
0	(0)	X'F0'	0	SCNDR83	"SCNDR82+4,4" PTR TO DIAGFIDL MSG ADDR
0	(0)	X'F4'	0	SCNDR84	"SCNDR83+4,4" PTR TO DIAGBUSY MSG ADDR
0	(0)	X'F8'	0	SCNDR85	"SCNDR84+4,4" PTR TO DIAGPROT MSG ADDR
0	(0)	X'FC'	0	SCNDR86	"SCNDR85+4,4" PTR TO DIAGNOSP MSG ADDR
0	(0)	X'100'	0	SCNDR87	"SCNDR86+4,4" PTR TO DIAGGTLT MSG ADDR
0	(0)	X'104'	0	SCNDR88	"SCNDR87+4,4" PTR TO DIAGRCRG MSG ADDR
0	(0)	X'108'	0	SCNDR89	"SCNDR88+4,4" PTR TO DIAGNOCN MSG ADDR
0	(0)	X'10C'	0	SCNDR90	"SCNDR89+4,4" PTR TO DIAGSCH MSG ADDR
0	(0)	X'110'	0	SCNDR91	"SCNDR90+4,4" PTR TO DIAGSERV MSG ADDR
0	(0)	X'114'	0	SCNDR92	"SCNDR91+4,4" PTR TO DIAGDMND MSG ADDR
0	(0)	X'118'	0	SCNDR93	"SCNDR92+4,4" PTR TO DIAGNXEQ MSG ADDR
0	(0)	X'11C'	0	SCNDR94	"SCNDR93+4,4" Ptr to DIAGQERR msg addr
0	(0)	X'120'	0	SCNDR95	"SCNDR94+4,4" Ptr to DIAGNBRT msg addr
0	(0)	X'124'	0	SCNDR96	"SCNDR95+4,4" Ptr to DIAGNTSN msg addr
0	(0)	X'128'	0	SCNDR97	"SCNDR96+4,4" Ptr to DIAGLPRM msg addr

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'12C'	0	SCNDR98	"SCNDR97+4,4" Ptr to DIAGINCL msg addr
0	(0)	X'130'	0	SCNDR99	"SCNDR98+4,4" Ptr to DIAGPSTX msg addr
0	(0)	X'134'	0	SCNDR100	"SCNDR99+4,4" Ptr to DIAGDPRL msg addr
0	(0)	X'138'	0	SCNDR101	"SCNDR100+4,4" Ptr to DIAGSSIN msg addr
0	(0)	X'13C'	0	SCNDR102	"SCNDR101+4,4" Ptr to DIAGFXCL msg addr
0	(0)	X'140'	0	SCNDR103	"SCNDR102+4,4" Ptr to DIAGPS11 msg addr
0	(0)	X'144'	0	SCNDR104	"SCNDR103+4,4" Ptr to DIAGISCK msg addr
0	(0)	X'148'	0	SCNDR105	"SCNDR104+4,4" Ptr to DIAGDEDR msg addr
0	(0)	X'14C'	0	SCNDR106	"SCNDR105+4,4" Ptr to DIAGSRTY msg addr
0	(0)	X'150'	0	SCNDR107	"SCNDR106+4,4" Ptr to DIAGWLMY msg addr
0	(0)	X'154'	0	SCNDR108	"SCNDR107+4,4" Ptr to DIAGOQFL msg addr
0	(0)	X'158'	0	SCNDR109	"SCNDR108+4,4" Ptr to DIAGNFLS msg addr
0	(0)	X'15C'	0	SCNDR110	"SCNDR109+4,4" Ptr to DIAGNSLF msg addr
0	(0)	X'160'	0	SCNDR111	"SCNDR110+4,4" Ptr to DIAGNXIT msg addr
0	(0)	X'164'	0	SCNDR112	"SCNDR111+4,4" Ptr to DIAGNXCR msg addr
0	(0)	X'168'	0	SCNDR113	"SCNDR112+4,4" Ptr to DIAGINSP msg addr
0	(0)	X'16C'	0	SCNDR114	"SCNDR113+4,4" Ptr to DIAGINTC msg addr
0	(0)	X'170'	0	SCNDR115	"SCNDR114+4,4" Ptr to DIAGCYTR msg addr
0	(0)	X'174'	0	SCNDR116	"SCNDR115+4,4" Ptr to DIAGCKLN msg addr
0	(0)	X'178'	0	SCNDR117	"SCNDR116+4,4" Ptr to DIAGBRNM msg addr
0	(0)	X'17C'	0	SCNDR118	"SCNDR117+4,4" Ptr to DIAGLGAC msg addr
0	(0)	X'180'	0	SCNDR119	"SCNDR118+4,4" Ptr to DIAGLGCY msg addr
0	(0)	X'184'	0	SCNDR120	"SCNDR119+4,4" Ptr to DIAGLGTR msg addr
0	(0)	X'188'	0	SCNDR121	"SCNDR120+4,4" Ptr to DIAGSMCY msg addr
0	(0)	X'18C'	0	SCNDR122	"SCNDR121+4,4" Ptr to DIAGSMTR msg addr
0	(0)	X'190'	0	SCNDR123	"SCNDR122+4,4" Ptr to DIAGBRTR msg addr
0	(0)	X'194'	0	SCNDR124	"SCNDR123+4,4" Ptr to DIAGNOFR msg addr
0	(0)	X'198'	0	SCNDR125	"SCNDR124+4,4" Ptr to DIAGCYLG msg addr

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'19C'	0	SCNDR126	"SCNDR125+4,4" Ptr to DIAGCYPA msg addr
0	(0)	X'1A0'	0	SCNDR127	"SCNDR126+4,4" Ptr to DIAGSPLR msg addr
0	(0)	X'1A4'	0	SCNDR128	"SCNDR127+4,4" Ptr to DIAGMMOA msg addr
0	(0)	X'1A8'	0	SCNDR130	"SCNDR128+4,4" Ptr to DIAGMMIA msg addr
0	(0)	X'1AC'	0	SCNDR131	"SCNDR130+4,4" Ptr to DIAGM22A msg addr
0	(0)	X'1B0'	0	SCNDR132	"SCNDR131+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B4'	0	SCNDR133	"SCNDR132+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B8'	0	SCNDR134	"SCNDR133+4,4" Ptr to DIAGMGEA msg addr
0	(0)	X'1BC'	0	SCNDR135	"SCNDR134+4,4" Ptr to DIAGNOCA msg addr
0	(0)	X'1C0'	0	SCNDR136	"SCNDR135+4,4" Ptr to DIAGNOCC msg addr
0	(0)	X'1C4'	0	SCNDR137	"SCNDR136+4,4" Ptr to DIAGSTUC msg addr
0	(0)	X'1C8'	0	SCNDR138	"SCNDR137+4,4" Ptr to DIAGVOLA msg addr
0	(0)	X'1CC'	0	SCNDR139	"SCNDR138+4,4" Ptr to DIAGRECC msg addr
0	(0)	X'1D0'	0	SCNDR140	"SCNDR139+4,4" Ptr to DIAGINAC msg addr
0	(0)	X'1D4'	0	SCNDR141	"SCNDR140+4,4" Ptr to DIAGABSC msg addr
0	(0)	X'1D8'	0	SCNDR142	"SCNDR141+4,4" Ptr to DIAGREST msg addr
0	(0)	X'1DC'	0	SCNDR143	"SCNDR142+4,4" Ptr to DIAGXTNC msg addr
0	(0)	X'1E0'	0	SCNDR144	"SCNDR143+4,4" Ptr to DIAGACMC msg addr
0	(0)	X'1E4'	0	SCNDR145	"SCNDR144+4,4" Ptr to DIAGCMDC msg addr
0	(0)	X'1E8'	0	SCNDR146	"SCNDR145+4,4" Ptr to DIAGABAC msg addr
0	(0)	X'1EC'	0	SCNDR147	"SCNDR146+4,4" Ptr to DIAGSPAC msg addr
0	(0)	X'1F0'	0	SCNDR148	"SCNDR147+4,4" Ptr to DIAGJAUT msg addr
0	(0)	X'1F4'	0	SCNDR149	"SCNDR148+4,4" Ptr to DIAGPREC msg addr
0	(0)	X'1F8'	0	SCNDR150	"SCNDR149+4,4" Ptr to DIAGNDEF msg addr
0	(0)	X'1FC'	0	SCNDR151	"SCNDR150+4,4" Ptr to DIAGNVJC msg addr
0	(0)	X'200'	0	SCNDR152	"SCNDR151+4,4" Ptr to DIAGACTI msg addr
0	(0)	X'204'	0	SCNDR153	"SCNDR152+4,4" Ptr to DIAGALR msg addr
0	(0)	X'208'	0	SCNDR154	"SCNDR153+4,4" Ptr to DIAGINT msg addr

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'20C'	0	SCNDR155	"SCNDR154+4,4" Ptr to DIAGTMF msg addr
0	(0)	X'210'	0	SCNDR156	"SCNDR155+4,4" Ptr to DIAGTMV msg addr
0	(0)	X'214'	0	SCNDR157	"SCNDR156+4,4" Ptr to DIAGNVD msg addr
0	(0)	X'218'	0	SCNDR158	"SCNDR157+4,4" Ptr to DIAGNFP msg addr
0	(0)	X'21C'	0	SCNDR159	"SCNDR158+4,4" Ptr to DIAGUNF msg addr
0	(0)	X'220'	0	SCNDR160	"SCNDR159+4,4" Ptr to DIAGFDM msg addr
0	(0)	X'224'	0	SCNDR161	"SCNDR160+4,4" Ptr to DIAGVTL msg addr
0	(0)	X'228'	0	SCNDR162	"SCNDR161+4,4" Ptr to DIAGKTL msg addr
0	(0)	X'22C'	0	SCNDR163	"SCNDR162+4,4" Ptr to DIAGVDT msg addr
0	(0)	X'230'	0	SCNDR164	"SCNDR163+4,4" Ptr to DIAGBTE msg addr
0	(0)	X'234'	0	SCNDR165	"SCNDR164+4,4" Ptr to DIAGJSH msg addr
0	(0)	X'238'	0	SCNDR166	"SCNDR165+4,4" Ptr to DIAGJXP msg addr
0	(0)	X'23C'	0	SCNDR167	"SCNDR166+4,4" Ptr to DIAGCLA msg addr
0	(0)	X'240'	0	SCNDR168	"SCNDR167+4,4" Ptr to DIAGAUTO msg addr
0	(0)	X'244'	0	SCNDR169	"SCNDR168+4,4" Ptr to DIAGMJG msg addr
0	(0)	X'248'	0	SCNDR170	"SCNDR169+4,4" Ptr to DIAGDJ1 msg addr
0	(0)	X'24C'	0	SCNDR171	"SCNDR170+4,4" Ptr to DIAGDJ2 msg addr
0	(0)	X'250'	0	SCNDR172	"SCNDR171+4,4" Ptr to DIAGDJ3 msg addr
0	(0)	X'254'	0	SCNDR173	"SCNDR172+4,4" Ptr to DIAGDJ4 msg addr
0	(0)	X'258'	0	SCNDR174	"SCNDR173+4,4" Ptr to DIAGDJ5 msg addr
0	(0)	X'25C'	0	SCNDR175	"SCNDR174+4,4" Ptr to DIAGALL msg addr
0	(0)	X'260'	0	SCNDR176	"SCNDR175+4,4" Ptr to DIAGPRLV msg addr
0	(0)	X'264'	0	SCNDR177	"SCNDR176+4,4" Ptr to DIAGPRCR msg addr
0	(0)	X'268'	0	SCNDR178	"SCNDR177+4,4" Ptr to DIAGSUSP msg addr
0	(0)	X'26C'	0	SCNDR179	"SCNDR178+4,4" Ptr to DIAGXHOU msg addr
0	(0)	X'270'	0	SCNDR180	"SCNDR179+4,4" Ptr to DIAGENCR msg addr
				Parameter list for call to $HNOTIFY and OPMAILMG Output from $HNOTIFY and input to OPMAILMG	
0	(0)	X'0'	0	$NTPARML	"0,32" Length of entire parm list

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	$NTNNODE	"0,8" Notify Node from JCT
0	(0)	X'8'	0	$NTNOTUS	"8,8" Notify Userid from JCT
0	(0)	X'10'	0	$NTNONDE	"16,8" Xmitting Node from JCT
0	(0)	X'18'	0	$NTNOUSR	"24,8" Xmitting userid from JCT
0	(0)	X'9'	0	$446MVER	"9,1" Checkpoint master version
0	(0)	X'A'	0	$446CVER	"10,8" Checkpoint cold start vsn.
		JOE/Writer Exclude List mapping. Be sure to update HASMJWEL if this mapping changes.			
0	(0)	X'0'	0	$JWEPTR	"0,4,C'A'" ADDRESS OF NEXT ELEMENT
0	(0)	X'4'	0	$JWENUM	"4,8,C'F'" NUMBER OF WRITER EXCLUDED
0	(0)	X'C'	0	$JWEDVID	"12,3,C'C'" DEVICE ID VALUE
0	(0)	X'F'	0	$JWEFLAG	"15,1,C'B'" Flag byte
		1...		$JWELONG	"B'10000000'" $JWENUM 8 bytes (only first 4 bytes valid if $JWELONG is off)
		.1..		$JWEBULK	"B'01000000'" JOE has been processed by current SAPI bulk modify request
0	(0)	X'10'	0	$JWELEN	"16" LEN OF JWEL TABLE ELEMENT
		JWELTBL Anchor Equates Offset 0 ($JWEPTR) is the address of the first JWEL for the corresponding JOE Offset 4 ($JWECRTM) is the time stamp of the JOE creation. If this time stamp and the JOECRTME do not match, then it is known that the JWEL chain is obsolete. EQU 0,4,C'A' ADDRESS OF THE FIRST ELEMENT			
0	(0)	X'0'	0	$JWEFLG1	"0,1,C'B'" Flag bit in JWELTBL
0	(0)	X'4'	0	$JWECRTM	"4,4,C'X'" JOE creation time
0	(0)	X'8'	0	$JWETBLL	"8" Length of JWEL table anchor $JWEFLG1 EQUATES
		1...		$JW1NCLR	"B'10000000'" DO NOT CLEAR JWEL ELEMENTS
		EQU B'01111111' Do not attempt to use other			
		Constants used to process the performace data table in HASPTABS (used for the $D PERFDATA command)			
0	(0)	X'0'	0	PRFDNAME	"0,8,C'C'" Subscript type name
0	(0)	X'8'	0	PRFDIND	"8,1,C'X'" Indicator for subscript
0	(0)	X'1'	0	PRFDINTS	"1" INITSTAT subscript
0	(0)	X'2'	0	PRFDQSUS	"2" QSUSE subscript
0	(0)	X'3'	0	PRFDPCES	"3" PCESTAT subscript
0	(0)	X'4'	0	PRFDSAMP	"4" SAMPDATA subscript
0	(0)	X'5'	0	PRFDCPUS	"5" CPUSTAT subscript
0	(0)	X'6'	0	PRFDEVNT	"6" EVENTS subscript
0	(0)	X'7'	0	PRFDCKPT	"7" CKPTSTAT subscript
0	(0)	X'8'	0	PRFDSUBT	"8" SUBTSTAT subscript
0	(0)	X'9'	0	PRFDDEVG	"9" DEVGSTAT subscript
0	(0)	X'A'	0	PRFDMIGR	"10" MIGRSTAT subscript
0	(0)	X'B'	0	PRFDWS	"11" WSSTAT subscript

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C'	0	PRFDLEN	"12" Length of table entry
		The following fields define the data area returned from XCFMSTAT. This data area is always 4096 in size. The first 2 words are the count of active 'NOT OUR MAS' members and the second is the number of active 'IN OUR MAS' members. For the 'NOT OUR MAS' members, an array of member names and reason they are not thought to be our MAS is provided.			
0	(0)	X'1000'	0	XCFMSIZE	"4096" Size of the data area
0	(0)	X'0'	0	XCFMTHEM	"0,4,C'F'" Number of active members in our group and not in our MAS
0	(0)	X'4'	0	XCFMUS	"4,4,C'F'" Number of active members in our group and our MAS
0	(0)	X'8'	0	XCFMLIST	"8,19,C'X'" First 'NOT US' member data
0	(0)	X'0'	0	XCFMMEMN	"0,16,C'C'" XCF member name
0	(0)	X'10'	0	XCFMMEMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11'	0	XCFMMEMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'12'	0	XCFMMEMC	"18,1,C'X'" Copy of XMAUCRF1
0	(0)	X'4'	0	XCFMRSJ2	"4" Not JES2
0	(0)	X'8'	0	XCFMRSNM	"8" Incorrect member name
0	(0)	X'C'	0	XCFMRSCS	"12" Different cold start
		The following fields define the data area passed to $BLDMSG to build the HASP565 message.			
0	(0)	X'0'	0	M565RSN	"0,1,C'X'" Reason code
0	(0)	X'1'	0	M565RND1	"1" No dedicated line (1)
0	(0)	X'2'	0	M565RND2	"2" No dedicated line (2)
0	(0)	X'3'	0	M565RNIL	"3" No idle line
0	(0)	X'4'	0	M565RNSK	"4" No socket
0	(0)	X'5'	0	M565RNDE	"5" Node name unrecognized
0	(0)	X'6'	0	M565RNPM	"6" NPM not available
0	(0)	X'7'	0	M565RBUF	"7" Buffer shortage
0	(0)	X'8'	0	M565RBUS	"8" Line busy
0	(0)	X'9'	0	M565RNET	"9" NETLNES shortage
0	(0)	X'A'	0	M565RINT	"10" Internal error
0	(0)	X'B'	0	M565RAPP	"11" APPCLU class inactive
0	(0)	X'1'	0	M565NDEN	"1,8,C'C'" Node name
0	(0)	X'9'	0	M565NSVN	"9,8,C'C'" NETSRV name
0	(0)	X'11'	0	M565LNEN	"17,8,C'C'" LINE name (optional)
		The following fields define the data area passed to $BLDMSG to build the HASP599 message.			
0	(0)	X'0'	0	$599PIT	"0,4" PIT address
0	(0)	X'4'	0	$599SQD	"4,4" SQD Return Code
0	(0)	X'8'	0	$599XINI	"8,4" XINITST return code
0	(0)	X'C'	0	$599LEN	"12" Length of work area
		The following fields define the data area passed to $BLDMSG to build the HASP791 message.			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	M791NAME	"0,4" Member name
0	(0)	X'4'	0	M791GRP	"4,8" XCF GROUP name
0	(0)	X'C'	0	M791PLX	"12,8" XCF SYSPLEX name
0	(0)	X'14'	0	M791PXID	"20,8" XCF SYSPLEX id
0	(0)	X'1C'	0	M791LEN	"28" Entry length
The following fields define the data area passed to $BLDMSG to build the HASP710 message.					
0	(0)	X'0'	0	M710ENT	"0,5,C'X'" Table entry (1 per member)
0	(0)	X'0'	0	M710MEM	"0,4,C'C'" Member name
0	(0)	X'4'	0	M710RSN	"4,1,C'X'" Reason code
0	(0)	X'1'	0	M710UP	"1" Member is up level
0	(0)	X'2'	0	M710DOWN	"2" Member is down level
The following fields define the data area passed to $BLDMSG to build the HASP474 message.					
0	(0)	X'0'	0	M474ENT1	"0,12" Data area 1
0	(0)	X'C'	0	M474ENT2	"M474ENT1+L'M474ENT1,12" Data area 2
0	(0)	X'18'	0	M474BTRN	"M474ENT2+L'M474ENT2,4" CBTYPE BRTRANS
0	(0)	X'1C'	0	M474PRML	"M474BTRN+L'M474BTRN" Total length
Each of the 12-byte areas above is further mapped as follows:					
0	(0)	X'0'	0	M474ENBT	"0,4" BRTRANS address
0	(0)	X'4'	0	M474ENLO	"4,4" Low offset
0	(0)	X'8'	0	M474ENHI	"8,4" High offset
Define individual fields in each of the 2 areas					
0	(0)	X'0'	0	M474E1BT	"M474ENT1+M474ENBT,L'M474ENBT" BRTRANS addr 1
0	(0)	X'4'	0	M474E1LO	"M474ENT1+M474ENLO,L'M474ENLO" Low offset 1
0	(0)	X'8'	0	M474E1HI	"M474ENT1+M474ENHI,L'M474ENHI" High offset 1
0	(0)	X'C'	0	M474E2BT	"M474ENT2+M474ENBT,L'M474ENBT" BRTRANS addr 2
0	(0)	X'10'	0	M474E2LO	"M474ENT2+M474ENLO,L'M474ENLO" Low offset 2
0	(0)	X'14'	0	M474E2HI	"M474ENT2+M474ENHI,L'M474ENHI" High offset 2
HASP module directory entry					
0	(0)	X'0'	0	MAPNAME	"0,8" MODULE NAME
0	(0)	X'8'	0	MAPADDR	"8,4" MODULE ADDRESS
0	(0)	X'8'	0	MAPMITA	"8,4" MIT ADDRESS
0	(0)	X'C'	0	MAPBASE	"12,4" ALT MOD BASE FOR REP FACILITY
0	(0)	X'10'	0	MAPENTL	"16" MODMAP ENTRY LENGTH
0	(0)	X'10'	0	TMAPLMOD	"16,8" Load module name, in $SCAN temporary MODMAP only

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'18'	0	TMAPADDC	"24,4" Address check value for dup name/addr in temp MODMAP
0	(0)	X'1C'	0	TMAPENTL	"28" Temporary MODMAP entry len
		Tape label equates for offloads			
		1		$LABNL	"X'01'" NL - NON-LABELED
		.... ..1.		$LABSL	"X'02'" SL - STANDARD LABEL
		.... .1..		$LABNSL	"X'04'" NSL - NON-STANDARD LABEL
		.... 1.1.		$LABSUL	"X'0A'" SUL - STANDARD USER LABEL
		...1		$LABBLP	"X'10'" BLP - BYPASS LABEL PROCESS
		.1..		$LABAL	"X'40'" AL - AMERICAN NATIONAL STD
		.1.. 1...		$LABAUL	"X'48'" AUL - AMERICAL NATIONAL STD USER LABEL
		Miscellaneous DYNALLOC equates			
0	(0)	BITSTRING	0	$DYNLOCF	"X'1708'" LOCATE FAILURE REASON CODE
		.... .1..		$DYNNEW	"X'04'" DISP=NEW TEXT VALUE
		Miscellaneous WLM Equates			
0	(0)	X'E4C'	0	$HOURPLUS	"61*60" One hour plus (61 minutes)
		Equates for $XMPOST parameter list mapping.			
0	(0)	X'0'	0	$XMPERET	"0,4" ERRET address
0	(0)	X'4'	0	$XMPECBP	"4,4" Address of ECB to POST
0	(0)	X'8'	0	$XMPASCB	"8,4" Address of associated ASCB
0	(0)	X'C'	0	$XMPECB	"12,4" ECB to POST
		1...		$XMLOSTP	"X'80'" JES2 main task has finished processing the request. This is turned on in the high order byte of the ASCB address.
		HAVT high bit definition.			
		1...		HAVTNLOG	"B'10000000'" High bit on in HAVT entry ==> no job log
		$GETWORK table element mapping			
0	(0)	X'0'	0	GTWKTSIZ	"0,2,C'H'" Size of work area
0	(0)	X'2'	0	GTWKTMSZ	"2,2,C'H'" Minimum pool user size
0	(0)	X'4'	0	GTWKTPID	"4,1,C'X'" Pool id
0	(0)	X'5'	0	GTWKTFLG	"5,1,C'B'" Storage location flag
0	(0)	X'20'	0	GTWKTANY	"$GTWKLOC" Pool LOC=ANY
0	(0)	X'10'	0	GTWKRO	"$GTWKRO" Pool is read only
0	(0)	X'30'	0	GTWKDIS	"GTWKTANY+GTWKRO" Pool discriminates
		EQU 6,2 Reserved			
0	(0)	X'8'	0	GTWKTNAM	"8,4,C'C'" Normal use for pool
0	(0)	X'C'	0	GTWKTNXT	"12,4,C'A'" Address of next available work area

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	GTWKTCEL	"16,4,C'F'" Number of cells obtained
0	(0)	X'14'	0	GTWKTUSE	"20,4,C'F'" Number of cells in use
0	(0)	X'18'	0	GTWKTESZ	"24" Size of table entry
0	(0)	X'2000'	0	GTWKMAX	"8192" Max size of GETWORKed area
		INLINE PARMLIST EQUATES Generalized inline parameter list EQUs			
0	(0)	X'0'	0	$ILPSIZE	"0,1" OFFSET TO SIZE OF INLINE PARAMETER LIST (1 BYTE)
0	(0)	X'1'	0	$ILPFLG1	"1,1" OFFSET TO GENERAL FLAG BYTE 1
0	(0)	X'2'	0	$ILPFLG2	"2,1" OFFSET TO GENERAL FLAG BYTE 2
0	(0)	X'3'	0	$ILPFLG3	"3,1" OFFSET TO GENERAL FLAG BYTE 3
		SPECIFIC INLINE PARMLIST EQUATES $#GET macro option flags			
		1...		$GTHAVNO	"B'10000000'" NO JOE RETURNED
		.1..		$GTCHNNO	"B'01000000'" NO CHAINING REQUIRED
		..1.		$GTIOTYS	"B'00100000'" RETURN THE IOT TO CALLER
		...1		$GTNET	"B'00010000'" NETWORK QUEUE
		.... 1...		$GTWRKSL	"B'00001000'" USE WORK SELECTION
		.... .1..		$GTWSP	"B'00000100'" WSP in R1, not DCT
		.... ..1.		$GTNOSAF	"B'00000010'" No SAF call
		1		$GTCOUNT	"B'00000001'" Count lines/pages/bytes
		$#GET macro more option flags (flag2)			
		1...		$GTOPTIM	"B'10000000'" Optimized $#GET
		.1..		$GTBESTJ	"B'01000000'" Optimized $#GET to be run BEST JOE criteria evaluation
0	(0)	X'4'	0	$GTPARML	"4" $#GET Parameter list length
		GTSCREEN work selection options (hi-R1 on entry to GTSCREEN)			
		1		$GTSKWSR	"B'00000001'" Skip a call to WSSERV
		.... ..1.		$GTSKJPS	"B'00000010'" Skip JOE prescreening
		.... .1..		$GTSKJPP	"B'00000100'" Skip JOE postscreening
		.... 1...		$GTJHNSE	"B'00001000'" Treat job held as not selectable any device
		$#POST macro option flags			
		1...		$PSTMASP	"B'10000000'" RESET JOE'S JOTPOST FLAG
		.1..		$PSTKEPJ	"B'01000000'" Keep JWELs
		..1.		$PSTNSPN	"B'00100000'" Do not post spin JOEs
0	(0)	X'0'	0	$PSTJOE	"0" TYPE=JOE $#POST CALL
0	(0)	X'4'	0	$PSTJQE	"4" TYPE=JQE $#POST CALL
0	(0)	X'8'	0	$PSTXMIT	"8" TYPE=XMIT $#POST CALL
0	(0)	X'C'	0	$PSTMSG	"12" TYPE=MSG $#POST CALL

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$#REM MACRO OPTION FLAGS			
		1...		$REMPURG	"B'10000000'" PURGE THE SPIN IOT TRACKS
		REMWAIT EQU B'01000000' Not available for use due to coexistence with SP510			
		..1.		$REMLOCK	"B'00100000'" Caller has job lock
		...1		$REMKPJQ	"B'00010000'" JQE must not be purged even if last JOE is being REMed
		.... 1...		$REMLFRE	"B'00001000'" LOCK=(YES,FREE) specified $#REM should free the lock
		$SJIOBIT macro option flags			
		1...		$SJITEMP	"B'10000000'" TEMPORARY SJIOB REQUESTED
		.1..		$SJIFREE	"B'01000000'" FREE SJIOB REQUESTED
		..1.		$SJINSJB	"B'00100000'" NO SJB REQUIRED
		...1		$SJIINIT	"B'00010000'" INIT SJIOB REQUESTED
		.... 1...		$SJIGNYC	"B'00001000'" UNCONDITIONAL GET SJIOB
		$QJIX macro action flags			
		1...		$JIXGET	"B'10000000'" FLAG FOR ALLOCATE JOB#
		.1..		$JIXFREE	"B'01000000'" FLAG FOR DEALLOCATE JOB#
		..1.		$JIXSWAP	"B'00100000'" FLAG FOR SWAP JOB NUMBER
		...1		$JIXFOMT	"B'00010000'" FLAG FOR INITIALIZE JIX
		.... 1...		$JIXVERI	"B'00001000'" FLAG FOR VERIFY JIX
		1		$JIXWYES	"B'00000001'" $WAIT IS REQUESTED FOR NEW JOB#
		....		$JIXWNO	"B'00000000'" NO $WAIT REQUESTED FOR NEW JOB#
		$CHECK macro option flags			
		1...		$CHECINH	"B'10000000'" INHIBIT=YES WAS SPECIFIED
		.1..		$CHECNWA	"B'01000000'" WAIT=NO was specified
		..1.		$CHECPST	"B'00100000'" POST=YES was specified
		$DCBDYN macro option flags			
		1...		$BDYNATT	"B'10000000'" DCB ATTACH REQUEST
		.1..		$BDYNDET	"B'01000000'" DCB DETACH REQUEST
		$DCTDYN macro option flags			
		1...		$DDYNATT	"B'10000000'" DCT ATTACH REQUEST
		.1..		$DDYNFND	"B'01000000'" DCT FIND REQUEST
		$DTEDYN macro option flags			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$DTEPARM	"B'10000000'" PARM PARMETER SPECIFIED
		.1..		$DTEPECB	"B'01000000'" ECB TYPE WAIT SPECIFIED
		..1.		$DTEPXCB	"B'00100000'" XECB TYPE WAIT SPECIFIED
		$ENTRY macro eyecatcher fields Normal $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Fill characters ($$$$)			
0	(0)	X'8'	0	$ENTNAME	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTCADR	"16,4,C'X'" Offset into $xADDR
		SSI $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Secondary jump or ($$$$)			
0	(0)	X'8'	0	$ENTSNAM	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTSDSC	"16,40,C'C'" SSI description
0	(0)	X'38'	0	$ENTSNUM	"56,1,C'X'" SSI number
0	(0)	X'39'	0	$ENTSFG1	"57,1,C'B'" SSI option flags
		1...		$ENTS1AU	"B'10000000'" Authorized callers only
0	(0)	X'3A'	0	$ENTSEXL	"58,2,C'H'" SSOB extension len offset
		$EXCP macro option flags			
		1...		$EXCPVR	"B'10000000'" I/O VIA EXCPVR INDICATOR
		.1..		$EXCPWT	"B'01000000'" $WAIT FOR I/O TO COMPLETE
		..1.		$EXCPMT	"B'00100000'" Validate MTTR
		...1		$EXCPCBI	"B'00010000'" $EXCP called from $CBIO
		$FRECMB macro option flags			
		1...		$FCMBCNT	"B'10000000'" BUMP CMB COUNT
		$FREEBUF macro option flags			
		1...		$FBUFMLT	"B'10000000'" FREE MULTIPLE BUFFERS
		$GETBUF macro option flags			
		1...		$GBUFWT	"B'10000000'" INDICATE $WAIT ALLOWED
		$GETHP macro option flags			
		1...		$GHPFIX	"B'10000000'" Area should be page fixed
0	(0)	X'8'	0	$GHPPRFX	"8" $GETHP prefix length
		$GETSMFB macro options flags			
		1...		$GSMFBWT	"B'10000000'" INDICATE $WAIT ALLOWED
		.1..		$GSMFBLG	"B'01000000'" INDICATE LARGE SMF BUFFER SPECIFIED
		$GETWORK macro option flags			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$GTWKCND	"B'10000000'" ERRET=, CONDITIONAL ENTRY
		.1..		$GTWKWAT	"B'01000000'" WAIT=YES, $WAIT FOR MAIN
		Ensure that chacterizing bits (ones that differentiate otherwise equal pools in the getwork table) are defined in the same way here as they in the GETPOOL equates in the $GETWORK routine.			
		..1.		$GTWKLOC	"B'00100000'" LOC=ANY was specified
		...1		$GTWKRO	"B'00010000'" Pool is read only
		End of pool discriminates $JCTXnnn Macro option flags			
0	(0)	BITSTRING	0	$JCXLOCL	"B'1000000000000000'" LOC=LOCAL specified
		$JQESERV Macro option flags When a flag bit is added, place a '0' in the corresponding bit position in $JSRFLGS EQU.			
0	(0)	BITSTRING	0	$JSRBERT	"B'1000000000000000'" BERTLOCK=YES specified
0	(0)	BITSTRING	0	$JSRGSPL	"B'0100000000000000'" GETSPOOL=YES specified
0	(0)	BITSTRING	0	$JSRRWAT	"B'0010000000000000'" RESWAIT=YES specified
0	(0)	BITSTRING	0	$JSRWAIT	"B'0001000000000000'" Post when request completes
0	(0)	BITSTRING	0	$JSRJQA	"B'0000100000000000'" A JQA was passed
0	(0)	BITSTRING	0	$JSRFREE	"B'0000010000000000'" FREE=YES specified
0	(0)	BITSTRING	0	$JSRTSU	"B'0000001000000000'" JQETYPE=TSU specified
0	(0)	BITSTRING	0	$JSRSTC	"B'0000000100000000'" JQETYPE=STC specified
		1...		$JSRMJPL	"B'0000000010000000'" MODJOB parms passed
		.1..		$JSRGRP	"B'0000000001000000'" CKPT call job group based
		..1.		$JSRNET	"B'0000000000100000'" CKPT call / NET based
		...1		$JSRLMPL	"B'0000000000010000'" LIMCOPY parms passed
		 1111		$JSRFLGS	"B'0000000000001111'" EQU for all flag bits. Place a '0' in bit positions used as flags. Place a '1' in unused flag bit positions.
		1		$JSRTADD	"B'0000000000000001'" REQUEST=ADD
		.... ..1.		$JSRTCKP	"B'0000000000000010'" REQUEST=CKPT
		11		$JSRTMOD	"B'0000000000000011'" REQUEST=MOD
		.... .1..		$JSRTREM	"B'0000000000000100'" REQUEST=REM
		.... .1.1		$JSRTOBT	"B'0000000000000101'" REQUEST=OBTAIN
		.... .11.		$JSRTFRE	"B'0000000000000110'" REQUEST=FREE
		.... .111		$JSRTCAN	"B'0000000000000111'" REQUEST=CANCEL
		.... 1...		$JSRTQRY	"B'0000000000001000'" REQUEST=QUERY

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1..1		$JSRTMDJ	"B'0000000000001001'" REQUEST=MODJOB
		.... 1.1.		$JSRTLIM	"B'0000000000001010'" REQUEST=LIMITS
		$MODLOAD macro option flags			
		1...		$MLMSGY	"B'10000000'" ISSUE DIAGNOSTIC MESSAGE
		.1..		$MLJ2MOD	"B'01000000'" LOAD A JES2 LOAD MODULE
		..1.		$MLDIRL	"B'00100000'" DIRECTED LOAD REQUEST
		...1		$MLDLPA	"B'00010000'" SEARCH FOR LPA MODULE
		.... 1...		$MLMSGI	"B'00001000'" Issue diagnostic message if the module is found but has other errors
		.... .1..		$MLMSGS	"B'00000100'" Suppress all message processing
		.... ..1.		$MLREPL	"B'00000010'" Replace existing load module
		1		$MLREPLC	"B'00000001'" Replace/load module
		$PBLOCK macro options flags			
		1...		$PBLKSLT	"B'10000000'" SLANT WAS SPECIFIED
		.1..		$PBLKCTR	"B'01000000'" CENTER WAS SPECIFIED
		$PCEDYN macro option flags			
		1...		$PDYNAT	"B'10000000'" PCE ATTACH REQUEST
		.1..		$PDYNDT	"B'01000000'" PCE DETACH REQUEST
		..1.		$PDYNDTT	"B'00100000'" PCE DETACH TEST REQUEST
		...1		$PDYNALT	"B'00010000'" Alter PCEs defined
		.... 1...		$PDYNPCE	"B'00001000'" R1 INPUT IS A PCE ADDR
		.... .1..		$PDYNTAB	"B'00000100'" R1 INPUT IS A PTAB ADDR
		.... ..1.		$PDYNDCT	"B'00000010'" R1 INPUT IS A DCT ADDR
0	(0)	X'10'	0	$PCEGARD	"16" Number of PCE guard bytes
		PSOFRELK Service routine EQUs COMFRELK Service routine EQUs			
0	(0)	X'0'	0	LEAVE_JOES_BUSY	"0" Don't unbusy any JOEs
0	(0)	X'1'	0	UNBUSY_JOES	"1" Unbusy JOEs
		$QGET macro option flags			
		1...		$QGTLSTC	"B'10000000'" $OJTWSC SPECIFIED ON $QGET ... RUN $XEQ AND CLASS LIST QUEUES
		.1..		$QGTLST	"B'01000000'" $OJTWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		..1.		$QGTINWS	"B'00100000'" $INWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		...1		$QGTWLMQ	"B'00010000'" $INWLM SPECIFIED ON $QGET RUN WLM QUEUES
0	(0)	X'2C0'	0	$QWALEN	"704" Length of the $QGET wrkarea
		$QMOD/$QADD macro option flags			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$LVALONE	"B'10000000'" Don't reset job busy bits
		.1..		$QSNPCHG	"B'01000000'" Disallow phase change
		..1.		$NPRICHG	"B'00100000'" Do not change priority
		...1		$QMDKEEP	"B'00010000'" Keep artificial JQE
		.... 1...		$QADJQA	"B'00001000'" Prototype JQA passed (QADD)
		.... .1..		$QMDNX51	"B'00000100'" Bypass exit 51 call (QMOD)
		.... ..1.		$QMDHJCT	"B'00000010'" JCT address passed (QMOD)
		1		$QMDOVAL	"B'00000001'" Old values for class and/or service class passed (QMOD)
		Reason code for TIMERROR $DISTERRs (R9 setting)			
0	(0)	X'1'	0	$TIMECLOC_JQECAT_1	"1" Error found at JQECAT entry
0	(0)	X'2'	0	$TIMECLOC_JQECAT_2	"2" Error found after JQECAT machinations
0	(0)	X'3'	0	$TIMECLOC_XIDJOB	"3" Error found in XIDJOB
0	(0)	X'4'	0	$TIMECLOC_TIMECLOC	"4" Error found in TIMECLOC
		RACROUTE reason codes			
		..1. .1..		RACDSECL	"X'24'" SECLABEL NOT ACCESSIBLE
		RJOBONMG options equates			
0	(0)	X'0'	0	RJOBNOFF	"0" Msg not allowed for Offload
0	(0)	X'1'	0	RJOBOFFL	"1" Msg allowed for Offload
		$SEAS macro FUNCODE values SEATABL (HASPNUC) entries			
0	(0)	X'0'	0	$SEANJES	"0" NOT VALID FOR CODER=JES2
0	(0)	X'1'	0	$SEAINIT	"$SEANJES+1" INITIALIZE SECURITY ENVIRON
0	(0)	X'2'	0	$SEAVERC	"$SEAINIT+1" SECURITY ENVIRON CREATE
0	(0)	X'3'	0	$SEAVERD	"$SEAVERC+1" SECURITY ENVIRON DELETE
0	(0)	X'4'	0	$SEAXTRT	"$SEAVERD+1" ENVIRON EXTRACT
0	(0)	X'5'	0	$SEASIC	"$SEAXTRT+1" SYSIN DATA SET CREATE
0	(0)	X'6'	0	$SEASOC	"$SEASIC+1" SYSOUT DATA SET CREATE
0	(0)	X'7'	0	$SEASIP	"$SEASOC+1" SYSIN DATA SET OPEN
0	(0)	X'8'	0	$SEASOP	"$SEASIP+1" SYSOUT DATA SET OPEN
0	(0)	X'9'	0	$SEAPSO	"$SEASOP+1" PSO DATA SET OPEN
0	(0)	X'A'	0	$SEAPSS	"$SEAPSO+1" PSO DATA SET SELECT
0	(0)	X'B'	0	$SEATCAN	"$SEAPSS+1" TSO CANCEL
0	(0)	X'C'	0	$SEACMD	"$SEATCAN+1" COMMAND AUTHORIZATION
0	(0)	X'D'	0	$SEAPRT	"$SEACMD+1" PRINTER DATA SET SELECT
0	(0)	X'E'	0	$SEADEL	"$SEAPRT+1" DATA SET PURGE
0	(0)	X'F'	0	$SEANUSE	"$SEADEL+1" NOTIFY USER TOKEN EXTRACT
0	(0)	X'10'	0	$SEATBLD	"$SEANUSE+1" TOKEN BUILD
0	(0)	X'11'	0	$SEARJES	"$SEATBLD+1" RJE SIGNON

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'12'	0	$SEADEVA	"$SEARJES+1" DEVICE AUTHORIZATION
0	(0)	X'13'	0	$SEANJEA	"$SEADEVA+1" NJE SYSOUT DS AUTHORIZATION
0	(0)	X'14'	0	$SEAREXT	"$SEANJEA+1" REVERIFY TOKEN EXTRACT
0	(0)	X'15'	0	$SEARRT	"$SEAREXT+1" RESERVED
0	(0)	X'16'	0	$SEANEWS	"$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17'	0	$SEANWBL	"$SEANEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18'	0	$SEAVERS	"$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19'	0	$SEAAUD	"$SEAVERS+1" Audit for job in error
0	(0)	X'1A'	0	$SEADCHK	"$SEAAUD+1" $DESTCHK AUTH call
0	(0)	X'1B'	0	$SEATSOC	"$SEADCHK+1" TRACE SYSOUT DS CREATE
0	(0)	X'1C'	0	$SEASSOC	"$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D'	0	$SEANSOC	"$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E'	0	$SEASOX	"$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F'	0	$SEANJEV	"$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20'	0	$SEAJOX	"$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21'	0	$SEASPBC	"$SEAJOX+1" RESERVED
0	(0)	X'22'	0	$SEASPBO	"$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23'	0	$SEASFS	"$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24'	0	$SEASSWM	"$SEASFS+1" SWM Modify ALTER AUTH
0	(0)	X'25'	0	$SEASAPI	"$SEASSWM+1" Sysout API
0	(0)	X'26'	0	$SEASCLA	"$SEASAPI+1" SECLABEL affinity extract
0	(0)	X'27'	0	$SEASCLE	"$SEASCLA+1" DCT SECLABEL extract
0	(0)	X'28'	0	$SEANSON	"$SEASCLE+1" NJE signon pw extract
0	(0)	X'29'	0	$SEADIRA	"$SEANSON+1" Seclabel dominance
0	(0)	X'2A'	0	$SEASPLR	"$SEADIRA+1" SPOOL I/O AUTH check
0	(0)	X'2B'	0	$SEAJCLS	"$SEASPLR+1" Job class AUTH check
0	(0)	X'2C'	0	$SEAGRPR	"$SEAJCLS+1" Job group register AUTH chk
0	(0)	X'2D'	0	$SEAPREC	"$SEAGRPR+1" Dubious job precheck call
0	(0)	X'2E'	0	$SEAEMRG	"$SEAPREC+1" Emergency subsystem
0	(0)	X'2F'	0	$SEAENCR	"$SEAEMRG+1" Encryption Auth chk/ext
		If you add a new FUNCODE here then be sure to update the following line accordingly. (and also update the SEATABL in HASPNUC and the 'Security Function Table' documentation for exits 36 and 37 in the JES2 Exits book)			
0	(0)	X'2F'	0	$SEAUSED	"$SEAENCR" Highest FUNCODE used
0	(0)	X'FF'	0	$SEAMAX	"255" MAXIMUM SEAS FUNCODE
		$SEAS return code values			
0	(0)	X'0'	0	$SEAOK	"0" $SEAS RC=0
0	(0)	X'4'	0	$SEAND	"4" $SEAS RC=4

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	$SEAFAIL	"8" $SEAS RC=8
0	(0)	X'C'	0	$SEANSTO	"12" $SEAS RC=12
		$TTIMER macro option flags			
		1...		$TIMETST	"B'10000000'" TEST TIME INTERVAL
		$WSSCAN device type indicator			
		1...		$WSFRJE	"B'10000000'" WS PROCESSING FOR REMOTE
		.1..		$WSJSREC	"B'01000000'" WS PROCESSING FOR RECEIVERS
		High order bit on			
		1...		$EQUHBIT	"B'10000000'" TURN ON HIGH ORDER BIT
		AUDSAF LOGST indicator			
0	(0)	X'4'	0	$AUDIO	"4" I/O error during purge
0	(0)	X'8'	0	$AUDLOST	"8" Lost output during restart
0	(0)	X'C'	0	$AUDDEL	"12" Job deleted during restart
0	(0)	X'10'	0	$AUDMOVE	"16" Job lost during spool move
0	(0)	X'14'	0	$AUDINER	"20" Job had error in input
0	(0)	X'18'	0	$AUDSUB	"24" Subtask error during purge
		Reason Code Equates for Main Task $ERROR calls			
0	(0)	X'4'	0	$L01R004	"4" Message too long for command area.
		Reason code equates for $ERROR (0F7 ABENDs) in the user environment When adding documentation to ABEND 0F7 in MVS System codes, use the HEX value, not the decimal value.			
0	(0)	X'0'	0	$ERRC000	"0" Unable to cancel ESTAE
0	(0)	X'4'	0	$ERRC004	"4" Attempt made to lock two SJBs at once
0	(0)	X'8'	0	$ERRC008	"8" Invalid/unclaimed cell address
		.... 11..		$ERRC012	"X'C'" Disconnect denied - GETMAIN failure
		...1		$ERRC016	"X'10'" Unable to write final IOT chain
		...1 11..		$ERRC028	"X'1C'" ASXBJSVT does not contain FSVT address
		..1.		$ERRC032	"X'20'" Unable to write JCT
		..1. .1..		$ERRC036	"X'24'" $SVJ lock request failed
		..1. 1...		$ERRC040	"X'28'" Unable to obtain SJB lock
		.1.. 11..		$ERRC076	"X'4C'" HASCTP select/terminate failure
		.1.1		$ERRC080	"X'50'" Caller address array filled up
		.1.1 .1..		$ERRC084	"X'54'" No entry in caller address array

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.1 1...		$ERRC088	"X'58'" $RETURN - save area has improper form
		.1.1 11..		$ERRC092	"X'5C'" Entered $SSIEND with an outstanding $SAVE
		.11.		$ERRC096	"X'60'" SJF SCANSWB failed in alloc
		.11. .1..		$ERRC100	"X'64'" Invalid grouping strings object
		.11. 1...		$ERRC104	"X'68'" SWBTUREQ retrieve service failed in $GASSIGN serv
		.11. 11..		$ERRC108	"X'6C'" Invalid storage block ptr in grouping strings obj.
		.111		$ERRC112	"X'70'" SJF keylist service failed in grouping keys service
		.111 .1..		$ERRC116	"X'74'" Unexpected number of SWBIT buffers passed to GRPASGN
		.111 1...		$ERRC120	"X'78'" Entered $SSIEND with $ESTAEs outstanding
		.111 11..		$ERRC124	"X'7C'" SJB unlock not by lockholder
		1...		$ERRC128	"X'80'" Not all protected buffers have been $FREEBUFed
		1... .1..		$ERRC132	"X'84'" Attempted to free a TRE in the $GETHP service
		1... 1...		$ERRC136	"X'88'" Loop in the CPOOL chain in the $CRETSAV service
		1... 11..		$ERRC140	"X'8C'" Tried to initialize TRE when cell is not a TRE in GETTRE
		1..1		$ERRC144	"X'90'" Error return from MVS ENQ during trace processing
		1..1 .1..		$ERRC148	"X'94'" Truncate protected buffer failed in HFCLTRNC
		1..1 1...		$ERRC152	"X'98'" Error detected by HASCRQUE
		1..1 11..		$ERRC156	"X'9C'" Incorrect $$POST resource
		1.1.		$ERRC160	"X'A0'" Reserved
		1.1. .1..		$ERRC164	"X'A4'" An attempt was made to ENQ on the SVJ lock, but an unexpected RC was received
		1.1. 1...		$ERRC168	"X'A8'" The SJB queue in the field SJBQUEUE does not point to a valid queue.
		1.1. 11..		$ERRC172	"X'AC'" The SJB queue in the field SJBQUEUE does not point to a valid queue.
		1.11		$ERRC176	"X'B0'" The SJB is not on the queue pointed to by SJBQUEUE.
		1.11 .1..		$ERRC180	"X'B4'" The SJB is not on the queue
		1.11 1...		$ERRC184	"X'B8'" Channel end appendage requested re-drive after an unrecoverable error
		1.11 11..		$ERRC188	"X'BC'" An error was found during SJB rebuild processing.
		11..		$ERRC192	"X'C0'" A caller of $SJBRQ did not hold the SVJ lock.
		11.. .1..		$ERRC196	"X'C4'" SAPI CPOOL query failed
		11.. 1...		$ERRC200	"X'C8'" Fields that should be zeros in the SSS2 SSOB extension are not

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		11.. 11..		$ERRC204	"X'CC'" SJF Request error on GETDS/ SAPI request
		11.1 .1..		$ERRC212	"X'D4'" $CPOOL ACTION=GET failed to get specified cell
		11.1 1...		$ERRC216	"X'D8'" $CPOOL ACTION=FREE failed to free specified cell
		111.		$ERRC224	"X'E0'" $XMPOST parm list not valid
		111. .1..		$ERRC228	"X'E4'" FIFOENQ circular queue
		111. 1...		$ERRC232	"X'E8'" SJB memory not available
		111. 11..		$ERRC236	"X'EC'" $SUBIT called in incorrect address space
		1111		$ERRC240	"X'F0'" Unrecognized buffer type queued to NJE server
		1111 .1..		$ERRC244	"X'F4'" CALLRTM of NETSRV main task by JES2 subtask
		1111 1...		$ERRC248	"X'F8'" Incorrect caller of $GETTBUF/ $FRETBUF services
		1111 11..		$ERRC252	"X'FC'" $GETABLE Internal error
0	(0)	BITSTRING	0	$ERRC256	"X'100'" NJEX early init routine entered multiple times
0	(0)	BITSTRING	0	$ERRC260	"X'104'" Notify message length error
0	(0)	BITSTRING	0	$ERRC264	"X'108'" Unauthorized ECB detected
0	(0)	BITSTRING	0	$ERRC268	"X'10C'" JOBVALM Parm list error
0	(0)	BITSTRING	0	$ERRC272	"X'110'" JOBVALM TOKEN type error
0	(0)	BITSTRING	0	$ERRC276	"X'114'" CJOBVFY NJE header error
0	(0)	BITSTRING	0	$ERRC280	"X'118'" SPOOL offload section
0	(0)	BITSTRING	0	$ERRC284	"X'11C'" TBLOB ENQ error
0	(0)	BITSTRING	0	$ERRC288	"X'120'" CPOOL ENQ error
0	(0)	BITSTRING	0	$ERRC292	"X'124'" CPOOL - Storage Debug check failed
0	(0)	BITSTRING	0	$ERRC296	"X'128'" CPOOL - Storage overlay detected
0	(0)	BITSTRING	0	$ERRC300	"X'12C'" $NSSTLOK environ error
0	(0)	BITSTRING	0	$ERRC304	"X'130'" Attempt to free subpool 0
0	(0)	BITSTRING	0	$ERRC308	"X'134'" Unexpected length of 0
0	(0)	BITSTRING	0	$ERRC316	"X'13C'" Multi system data retrieval JESXCF failure
0	(0)	BITSTRING	0	$ERRC320	"X'140'" Recursive call in SSI 80
0	(0)	BITSTRING	0	$ERRC324	"X'144'" Unexpected Error in Remote Health Checker Task
0	(0)	BITSTRING	0	$ERRC328	"X'148'" NDH pointer is null
0	(0)	BITSTRING	0	$ERRC332	"X'14C'" Invalid PDDB size
0	(0)	BITSTRING	0	$ERRC336	"X'150'" $DSERV bad DSERV pointer
0	(0)	BITSTRING	0	$ERRC340	"X'154'" $SCAN error detected
0	(0)	BITSTRING	0	$ERRC344	"X'158'" Invalid CDCT device type
0	(0)	BITSTRING	0	$ERRC348	"X'15C'" Reserved
0	(0)	BITSTRING	0	$ERRC352	"X'160'" SJB lock not held for SPIN
0	(0)	BITSTRING	0	$ERRC356	"X'164'" $MGIOMSG - Incorrect channel command.
0	(0)	BITSTRING	0	$ERRC360	"X'168'" Bitmap problem during SIGIOU processing.

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	$ERRC364	"X'16C'" $BITMAP - boundary error.
0	(0)	BITSTRING	0	$ERRC368	"X'170'" CATREAD - Expected group CAT not found.
0	(0)	BITSTRING	0	$ERRC372	"X'174'" CATTREE - Rotate right - incorrect balance factor
0	(0)	BITSTRING	0	$ERRC376	"X'178'" DSNMSRV - bad character in dataset name
0	(0)	BITSTRING	0	$ERRC380	"X'17C'" $SSIBEGN HASB SJB Q error
0	(0)	BITSTRING	0	$ERRC384	"X'180'" $SJBFIND HASB SJB Q error
0	(0)	BITSTRING	0	$ERRC388	"X'184'" CATREAD - unexpected TYPE or CLASS value.
0	(0)	BITSTRING	0	$ERRC392	"X'188'" CATREAD - Unexpected CAT Cache element.
0	(0)	BITSTRING	0	$ERRC396	"X'18C'" CATREAD - Group name mismatch.
0	(0)	BITSTRING	0	$ERRC400	"X'190'" CATREAD - Unexpected Pseudo CAT.
0	(0)	BITSTRING	0	$ERRC404	"X'194'" CATREAD - Error during CAT cache build.
0	(0)	BITSTRING	0	$ERRC408	"X'198'" CATREAD - Cache expected but not present.
0	(0)	BITSTRING	0	$ERRC412	"X'19C'" CATTREE - Rotate DBL right - incorrect balance factor
0	(0)	BITSTRING	0	$ERRC416	"X'1A0'" CATTREE - Rotate left - incorrect balance factor
0	(0)	BITSTRING	0	$ERRC420	"X'1A4'" CATTREE - Rotate DBL left - incorrect balance factor
0	(0)	BITSTRING	0	$ERRC424	"X'1A8'" SJMPRJ2 - $JQESERV request count mismatch
0	(0)	BITSTRING	0	$ERRC428	"X'1AC'" FRETRE - attempt to free TRE not for current TCB
0	(0)	BITSTRING	0	$ERRC432	"X'1B0'" CIMAIN - CICB address not valid
0	(0)	BITSTRING	0	$ERRC436	"X'1B4'" SSI CLOSE - SDB lock not available
0	(0)	BITSTRING	0	$ERRC440	"X'1B8'" PROCJZDN - Incorrect Operation type.
0	(0)	BITSTRING	0	$ERRC444	"X'1BC'" PROCJZDN - ZJC free chain error. Free chain does not match free count.
0	(0)	BITSTRING	0	$ERRC448	"X'1C0'" PROCJZDN - Checkpoint queues not owned.
0	(0)	BITSTRING	0	$ERRC452	"X'1C4'" PROCJZDN - checkpointed ZOD not valid.
0	(0)	BITSTRING	0	$ERRC456	"X'1C8'" PROCJZDN - Input object is not a ZOD.
0	(0)	BITSTRING	0	$ERRC460	"X'1CC'" PROCJZDN - Incorrect operation code.
0	(0)	BITSTRING	0	$ERRC464	"X'1D0'" PROCJZDN - Unaccounted character code.
0	(0)	BITSTRING	0	$ERRC468	"X'1D4'" $PGSRVC - Attempt to issue $PGSRVC to address 0
0	(0)	BITSTRING	0	$ERRC472	"X'1D8'" Jobgroup logging subtask JESXCF failure
0	(0)	BITSTRING	0	$ERRC476	"X'1DC'" CATREAD - Zero DSERV address passed

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	$ERRC480	"X'1E0'" EDSCBDL - EDS AS not shut down properly
0	(0)	BITSTRING	0	$ERRC484	"X'1E4'" SAPI TCBTOKEN failed
0	(0)	BITSTRING	0	$ERRC488	"X'1E8'" ARTABL entry lock error
0	(0)	BITSTRING	0	$ERRC492	"X'1EC'" IAZADRKP add failure
0	(0)	BITSTRING	0	$ERRC496	"X'1F0'" FRDRREAD buffer error
0	(0)	BITSTRING	0	$ERRC500	"X'1F4'" FRDROPEN input error
0	(0)	BITSTRING	0	$ERRC504	"X'1F8'" SYSOUT DSKEYLBL input error
	When adding documentation to ABEND 0F7 in MVS System codes, use the HEX value, not the decimal value. Reason code equates for S1E0 abends.				
0	(0)	X'4'	0	$1E0C004	"4" Unauthorized caller for authorized only SSI
0	(0)	X'8'	0	$1E0C008	"8" Caller cannot access passed data area
0	(0)	X'C'	0	$1E0C012	"12" Improper SSI call setup
0	(0)	X'10'	0	$1E0C016	"16" Invalid input
0	(0)	X'14'	0	$1E0C020	"20" Authorization sequence err
	Error type equates for S1E0 abends (located in R9)				
0	(0)	X'1'	0	$1E0ET01	"1" Invalid SSCT ($1E0C012)
0	(0)	X'2'	0	$1E0ET02	"2" Invalid function code ($1E0C012)
0	(0)	X'3'	0	$1E0ET03	"3" Function code unsupported ($1E0C012)
0	(0)	X'4'	0	$1E0ET04	"4" No routine address ($1E0C012)
0	(0)	X'5'	0	$1E0ET05	"5" Authorized only allowed ($1E0C004)
0	(0)	X'6'	0	$1E0ET06	"6" Authorized subfunction only allowed (SSI 71) ($1E0C004)
	SAPI specific error types.				
0	(0)	X'7'	0	$1E0ET07	"7" CPOOL QCELL failed ($1E0C016)
0	(0)	X'8'	0	$1E0ET08	"8" Non-zero MVS CPOOL ret code ($1E0C016)
0	(0)	X'9'	0	$1E0ET09	"9" Cell not allocated ($1E0C016)
0	(0)	X'A'	0	$1E0ET10	"10" SAPID for different address space ($1E0C016)
0	(0)	X'B'	0	$1E0ET11	"11" Terminated SAPID ($1E0C016)
0	(0)	X'C'	0	$1E0ET12	"12" Owning thread not us ($1E0C016)
0	(0)	X'D'	0	$1E0ET13	"13" Owning TCB not us ($1E0C016)
	IAZAKSRV (JES address keep) specific error types				
0	(0)	X'E'	0	$1E0ET14	"14" Attempt to free auth stor ($1E0C020)
	Equates for Debug option Flags ($DEBGOPS and $DEBGOP2) in the HCT. These equates are moved here because of the need of Storage Debug Flag in CPOOL.				
		1...		$DBGBERT	"B'10000000'" BERT debug support

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$DBGCKPT	"B'01000000'" CKPT debug support
		..1.		$DBGVERS	"B'00100000'" VERSION debug support
		...1		$DBGVERB	"B'00010000'" Verbose messaging requested
		.... 1...		$DBGSTRG	"B'00001000'" STORAGE debug support
		.... .1..		$DBGMISC	"B'00000100'" MISC debug support (Miscellaneous)
		.... ..1.		$DBGSYMR	"B'00000010'" SYMREC debug option
		1		$DBGSAF	"B'00000001'" SECURITY debug option
		111. 1111		$DGB1ONF	"B'11101111'" Flag 1 all mask
	$DEBGOP2 flags				
		1...		$DBGXCFS	"B'10000000'" XCF member status debug
		.1..		$DBGTIME	"B'01000000'" TIMECLOCK Debug option
		..1.		$DGBCKPV	"B'00100000'" CKPT queue verification
		...1		$DBGEDS	"B'00010000'" EDS debug
		.... 1...		$DBGCNTB	"B'00001000'" Control block debug
		.... .1..		$DBGPCY	"B'00000100'" Policy engine debug
		.111 11..		$DGB2ONF	"B'01111100'" Flag 2 all mask
	Reason Codes for $CF1 Abends detected by assembler code. Note that the reason codes detected by PLX code are defined in $HASPEQP.				
0	(0)	X'4'	0	$CF1R004	"4" Could not read track 1
0	(0)	X'8'	0	$CF1R008	"8" Could not format ckpt
0	(0)	X'C'	0	$CF1R012	"12" Could not release lock
	Reason codes 16-32 are defined in $HASPEQP				
0	(0)	X'24'	0	$CF1R036	"36" Could not write track 1
	Reason Code Equates for CONVCON check of out-of-line area				
0	(0)	X'0'	0	$AIDOK	"0" Area ID is syntactically valid
0	(0)	X'4'	0	$AIDUSED	"4" Not possible
0	(0)	X'8'	0	$AIDUTRK	"8" Not possible
0	(0)	X'C'	0	$AIDNDEF	"12" Area ID not syntactically valid
0	(0)	X'10'	0	$AIDNVAL	"16" Area ID not specified correctly
	ABEND 068 reason codes CKPT versions subtask ABEND codes (see HASPCKVR)				
0	(0)	BITSTRING	0	AB68R104	"X'104'" Data integrity error
0	(0)	BITSTRING	0	AB68R108	"X'108'" DEBUG option detected error
	General purpose subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R200	"X'200'" Invalid SQD queued
	NPM subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R300	"X'300'" Error processing NATGET

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	AB68R304	"X'304'" Bad work queue detected
	SMF subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R400	"X'400'" $SMFBUSY queue corrupted
	CKPT on DASD subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R500	"X'500'" Unable to find UCB
	CKPT on CF subtask ABEND codes (See $CFCON)				
0	(0)	BITSTRING	0	AB68R600	"X'600'" HASPCFE eyecatcher error
0	(0)	BITSTRING	0	AB68R604	"X'604'" HASPCFFC CF write timeout
0	(0)	BITSTRING	0	AB68R608	"X'608'" HASPCFRD CFRDONE unexp RC
0	(0)	BITSTRING	0	AB68R60C	"X'60C'" HASPCFWR unexpected RC
0	(0)	BITSTRING	0	AB68R610	"X'610'" HASPCFLE bad LEID value
0	(0)	BITSTRING	0	AB68R614	"X'614'" HASPCFR2 unexpected RC
0	(0)	BITSTRING	0	AB68R618	"X'618'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R61C	"X'61C'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R620	"X'620'" HASPCFFC Unexpected RC
0	(0)	BITSTRING	0	AB68R624	"X'624'" HASPCFSI No free LAAs
0	(0)	BITSTRING	0	AB68R628	"X'628'" HASPCFRD No free LAAs
	SPOOL migration subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R700	"X'700'" Bad migrator request
0	(0)	BITSTRING	0	AB68R704	"X'704'" Bad migrator req phase 1
0	(0)	BITSTRING	0	AB68R708	"X'708'" Bad migrator req phase 2
0	(0)	BITSTRING	0	AB68R70C	"X'70C'" Unexpected RC from IXZXIXMC
0	(0)	BITSTRING	0	AB68R710	"X'710'" Bad migrator req phase can
0	(0)	BITSTRING	0	AB68R714	"X'714'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R718	"X'718'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R71C	"X'71C'" Unexpected RC from IXZXIXAC
0	(0)	BITSTRING	0	AB68R720	"X'720'" Unexpected RC from IXZXIXAC
	Converter subtask ABEND codes				
0	(0)	BITSTRING	0	AB68R800	"X'800'" Error reading JSMT
0	(0)	BITSTRING	0	AB68R801	"X'801'" Error writing JSMT
	JOBVALM ABEND codes				
0	(0)	BITSTRING	0	AB68R900	"X'900'" Cannot locate security tkn
	ABEND 02A reason codes				
		.... .1..		AB02AR04	"X'04'" Control block error
		.... 1...		AB02AR08	"X'08'" Bad UBF or HAMSVC
		.... 11..		AB02AR0C	"X'0C'" Logic error
		...1		AB02AR10	"X'10'" SETPRT error
		...1 .1..		AB02AR14	"X'14'" Bad BFDLOC value

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 1...		AB02AR18	"X'18'" Reserved
		...1 11..		AB02AR1C	"X'1C'" INTRDR CB validation error
		..1.		AB02AR20	"X'20'" Serialization failure for int. reader PUT/ENDREQ
		..1. .1..		AB02AR24	"X'24'" Internal logic error for SVCIRD
		..1. 1...		AB02AR28	"X'28'" Non-valid M detected
		..1. 11..		AB02AR2C	"X'2C'" Invalid SCR passed on PUT
		..11		AB02AR30	"X'30'" Looping condition detected in HPUTFULL
		..11 .1..		AB02AR34	"X'34'" Looping condition detected in HAMFIX
		..11 1...		AB02AR38	"X'38'" Loop detected in HAMSIO
		..11 11..		AB02AR3C	"X'3C'" HCPBUFND detected error condition
		.1..		AB02AR40	"X'40'" Unauthorized use of authorized RPL option
		.1.. .1..		AB02AR44	"X'44'" Internal error in HAMFIX
		.1.. 1...		AB02AR48	"X'48'" Internal error in HCEPUT
		.1.. 11..		AB02AR4C	"X'4C'" Reserved
		.1.1		AB02AR50	"X'50'" Active I/O after cleanup
		.1.1 .1..		AB02AR54	"X'54'" BAT chain corrupted
		.1.1 1...		AB02AR58	"X'58'" Reserved
		.1.1 11..		AB02AR5C	"X'5C'" Corrupted Job Symbol Table
		.11.		AB02AR60	"X'60'" Symbol substitution error
		.11. .1..		AB02AR64	"X'64'" Substitution logging error
		.11. 1...		AB02AR68	"X'68'" No storage for BATs
		.11. 11..		AB02AR6C	"X'6C'" Data BLK #2 protocal error
		.111		AB02AR70	"X'70'" Data BLK #1 protocal error
		.111 .1..		AB02AR74	"X'74'" Cursor logical blk#1 error
		.111 1...		AB02AR78	"X'78'" Record eye catcher error
		.111 11..		AB02AR7C	"X'7C'" Data BLK #2 span error
		1...		AB02AR80	"X'80'" Data BLK and record hdr mismatch error
		1... .1..		AB02AR84	"X'84'" Record # negative error
		1... 1...		AB02AR88	"X'88'" Logical block #2 not active error
		1... 11..		AB02AR8C	"X'8C'" Logical BLK #2 is active error
		1..1		AB02AR90	"X'90'" Guard 0 corruption
		1..1 .1..		AB02AR94	"X'94'" Guard 1 corruption
		1..1 1...		AB02AR98	"X'98'" Guard 2 corruption
		1..1 11..		AB02AR9C	"X'9C'" Guard 3 corruption
		1.1.		AB02ARA0	"X'A0'" Guard 4 corruption
		1.1. .1..		AB02ARA4	"X'A4'" Logical BLK2 active and BLK1 not
		1.1. 1...		AB02ARA8	"X'A8'" Oper=setup and BCFXCRYP failed initing CRYPI
		1.1. 11..		AB02ARAC	"X'AC'" Encryption unexpectedly failed

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1.11		AB02ARB0	"X'B0'" Decryption unexpectedly failed
		1.11 .1..		AB02ARB4	"X'B4'" Encryption of key token value failed
		1.11 1...		AB02ARB8	"X'B8'" Decryption of key token value failed
		1.11 11..		AB02ARBC	"X'BC'" getrec() - cursor record number greater than number of records in object
		11..		AB02ARC0	"X'C0'" getrec() - cursor record number greater than number of records in block #1 - yet object states cursor is in block #1.
		11.. .1..		AB02ARC4	"X'C4'" getrec() - logical blk #2 not active or is active and has no records.
		11.. 1...		AB02ARC8	"X'C8'" De-compress - bad return code from decompress service.
		11.. 11..		AB02ARCC	"X'CC'" replrec() - spanner and not a get type object.
		11.1		AB02LENT	"X'D0'" ENENCRPT - bad length passed to this routine
		11.1 .1..		AB02BADL	"X'D4'" ENDECRPT routine - inflate deflate mismatch
		11.1 1...		AB02GUNE	"X'D8'" Unexpected return code from oper=getreco
		Reason code equates for $ERROR $MG0 abends. Migration specific - Migrator DTE was not found.			
0	(0)	X'1'	0	$MG0C001	"1" DADMSET2 subroutine
0	(0)	X'2'	0	$MG0C002	"2" DADMCLU2 subroutine
0	(0)	X'3'	0	$MG0C003	"3" DADMSET3 subroutine
0	(0)	X'4'	0	$MG0C004	"4" DADMCLU3 subroutine
0	(0)	X'5'	0	$MG0C005	"5" DADMPHA1 subroutine
0	(0)	X'6'	0	$MG0C006	"6" DADMPHA2 subroutine
0	(0)	X'7'	0	$MG0C007	"7" DADMCLUM subroutine
0	(0)	X'8'	0	$MG0C008	"8" SETEINFO subroutine
0	(0)	X'9'	0	$MG0C009	"9" DADMCLU1 subroutine
0	(0)	X'A'	0	$MG0C010	"10" DADDEB subroutine
		Reason code equates for $ERROR $MG1 abends. Migration specific - Migrator assistant DTE not found.			
0	(0)	X'B'	0	$MG1C011	"11" DADMSET3 subroutine
0	(0)	X'C'	0	$MG1C012	"12" DADDEB subr - location #1
		JOB TRANSMITTER MISCELLANEOUS EQUATES			
		11..		SRCBJH	"X'C0'" JOB HEADER SRCB
		111.		SRCBDSH	"X'E0'" DATA SET HEADER SRCB
		11.1		SRCBJT	"X'D0'" JOB TRAILER SRCB
		Reason code equates for HASP896 message issued on failures during DAS verification in NGVWORKQ routine.			

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		WORKQ01	"X'01'" DASVOLID zero
		.... ..1.		WORKQ02	"X'02'" DASVOLID, RCDVOLID mismatch
		11		WORKQ03	"X'03'" Volume wrongly on workq?
		.... .1..		WORKQ04	"X'04'" DASFLAG, transltd. mismatch
		.... .1.1		WORKQ05	"X'05'" TRT ok, DASFLAG2 drn/hlt
		...1 ...1		WORKQ11	"X'11'" DAS, RECY flag1 mismatch
		...1 ..1.		WORKQ12	"X'12'" DAS, RECY flag2 mismatch
		...1 ..11		WORKQ13	"X'13'" DAS, RECY flag3 mismatch
		...1 .1..		WORKQ14	"X'14'" DAS, RECY flag4 mismatch
		...1 .1.1		WORKQ15	"X'15'" DAS, RECY flag5 mismatch
		...1 .11.		WORKQ16	"X'16'" DAS, RECY flag6 mismatch
		...1 .111		WORKQ17	"X'17'" DAS, RECY flag7 mismatch
		...1 1...		WORKQ18	"X'18'" DAS, RECY flag8 mismatch
		...1 1.1.		WORKQ1A	"X'1A'" DAS, RECY flagA mismatch
		..1. ...1		WORKQ21	"X'21'" DASALOCS, RCDALOCS not equ
		..1. ..1.		WORKQ22	"X'22'" DONE mask not correct on a starting volume
		..1. ..11		WORKQ23	"X'23'" DONE mask not correct on a draining/halting volume
		..1. .1..		WORKQ24	"X'24'" DASERCDE>0,DASERROR=0 mismt
		..1. .1.1		WORKQ25	"X'25'" DASERCDE=0,DASERROR>0 mismt
		..1. .11.		WORKQ26	"X'26'" DASERCDE for member = 0
		..1. .111		WORKQ27	"X'27'" DASERCDE for member > max
		..1. 1...		WORKQ28	"X'28'" DASERCDE for member > 0
		Reason code equates for HASP896 message issued on failures during DAS verification in NGVTRAKQ routine.			
		.1.. ...1		TRAKQ41	"X'41'" DASVOLID zero
		.1.. ..1.		TRAKQ42	"X'42'" DASVOLID, RCDVOLID mismatch
		.1.. ..11		TRAKQ43	"X'43'" DAS not marked as in TGM
		.1.. .1..		TRAKQ44	"X'44'" DASALOCS, RCDALOCS mismatch
		.1.. .1.1		TRAKQ45	"X'45'" Mapped vol, membr allocated
		.1.. .11.		TRAKQ46	"X'46'" Unallocated membr not inact
		.1.. .111		TRAKQ47	"X'47'" DASFLAG, transltd. mismatch
		.1.. 1...		TRAKQ48	"X'48'" No status flags set on active volume
		.1.. 1..1		TRAKQ49	"X'49'" No status flags set on inactive volume
		.1.. 1.1.		TRAKQ4A	"X'4A'" Draining and halting volume
		.1.1 ...1		TRAKQ51	"X'51'" DAS, RECY flag1 mismatch
		.1.1 ..1.		TRAKQ52	"X'52'" DAS, RECY flag2 mismatch
		.1.1 ..11		TRAKQ53	"X'53'" DAS, RECY flag3 mismatch
		.1.1 .1..		TRAKQ54	"X'54'" DAS, RECY flag4 mismatch
		.1.1 .1.1		TRAKQ55	"X'55'" DAS, RECY flag5 mismatch
		.1.1 .11.		TRAKQ56	"X'56'" DAS, RECY flag6 mismatch
		.1.1 .111		TRAKQ57	"X'57'" DAS, RECY flag7 mismatch
		.1.1 1...		TRAKQ58	"X'58'" DAS, RECY flag8 mismatch

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.1 1.1.		TRAKQ5A	"X'5A'" DAS, RECY flagA mismatch
		.11. ...1		TRAKQ61	"X'61'" DASERCDE>0,DASERROR=0 mismt
		.11. ..1.		TRAKQ62	"X'62'" DASERCDE=0,DASERROR>0 mismt
		.11. ..11		TRAKQ63	"X'63'" DASERCDE for member = 0
		.11. .1..		TRAKQ64	"X'64'" DASERCDE for member > max
		.11. .1.1		TRAKQ65	"X'65'" DASERCDE for member > 0
	Reason code equates for HASP896 message issued on failures during DAS verification in NGVEXTD routine.				
		1... ...1		EXTDQ81	"X'81'" Recs/track mismatch
		1... ..1.		EXTDQ82	"X'82'" Min tcelsiz mismatch
		1... ..11		EXTDQ83	"X'83'" TG size mismatch
		1... .1..		EXTDQ84	"X'84'" Trk/cyl value mismatch
		1... .1.1		EXTDQ85	"X'85'" Trk/grp value mismatch
		1... .11.		EXTDQ86	"X'86'" TGM offset mismatch
		1... .111		EXTDQ87	"X'87'" First track mismatch
		1... 1...		EXTDQ88	"X'88'" Low track mismatch
		1... 1..1		EXTDQ89	"X'89'" High track mismatch
		1... 1.1.		EXTDQ8A	"X'8A'" TG value mismatch
		1... 1.11		EXTDQ8B	"X'8B'" DASMPSZ value mismatch
		1... 11..		EXTDQ8C	"X'8C'" Large DS TG value
		1... 11.1		EXTDQ8D	"X'8D'" Lrg ds DASMPSZ val mismatch
		1..1 ...1		EXTDQ91	"X'91'" Offline volume error
	MISCELLANEOUS EQUATES				
0	(0)	X'7FFF'	0	MAXLRECL	"32767" Max logical record length
		1...		SRCBFLAG	"B'10000000'" FLAG BIT ALWAYS ON IN SRCB'S
		..11		SRCBCCTL	"B'00110000'" CARRIAGE CONTROL FLAGS
		..11		SRCBPAGE	"B'00110000'" PAGE CARRIAGR CONTROL FLAG
		..1.		SRCBANSI	"B'00100000'" ANSI CARRIAGE CONTROL
		...1		SRCBMCH	"B'00010000'" MACHINE CARRIAGE CONTROL
0	(0)	X'A0'	0	REGANSI	"SRCBFLAG+SRCBANSI" ANSI CARRIAGE CONTROL SRCB
		.... 11..		SRCBSPAN	"B'00001100'" SPANNED RECORD
		.... 1...		SRCB1ST	"B'00001000'" SPANNED FIRST SEGMENT
		.... .1..		SRCBMID	"B'00000100'" SPANNED MIDDLE SEGMENT
		.... 11..		SRCBLAST	"B'00001100'" SPANNED LAST SEGMENT
0	(0)	X'88'	0	SPAN1ST	"SRCBFLAG+SRCB1ST" SPANNED FIRST SEGMENT SRCB
0	(0)	X'84'	0	SPANMID	"SRCBFLAG+SRCBMID" SPANNED MIDDLE SEGMENT SRCB
0	(0)	X'8C'	0	SPANLAST	"SRCBFLAG+SRCBLAST" SPANNED LAST SEGMENT SRCB
0	(0)	X'3C'	0	XEQPHFWT	"60,4" Time that $PJES2 will wait until 1st HASP714 issued

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1E'	0	XEQPHIWT	"30,4" Time that $PJES2 will wait between HASP714s
0	(0)	X'78'	0	XEQPHDWT	"120,4" Time that $PJES2 will wait before taking dump if no progress in AS termination
0	(0)	X'19'	0	$RSVNUM	"25" Max number of $RVSTACKs
	DILBERT Settings				
		1		$DILINDR	"X'0001'" Dilbert routine called indirectly i.e. DWA processed "later"
	Equates for the system affinity token				
0	(0)	X'0'	0	$AFTMASK	"0,1" One byte portion of entire system affinity mask
0	(0)	X'1'	0	$AFTOFF	"1,2" Offset within complete mask of the one byte portion
0	(0)	X'3'	0	$AFTOKEN	"L'$AFTMASK+L'$AFTOFF" Length of a sysaff token
	Equates for IXLCONN error processing These equates are referenced in CFALOC (where they are set when the error conditions are detected) and in PRE536 (to convert the bit setting into more meaningful text).				
0	(0)	BITSTRING	0	$CONER01	"B'10000000000000000000000'"
0	(0)	BITSTRING	0	$CONER02	"B'01000000000000000000000'"
0	(0)	BITSTRING	0	$CONER03	"B'00100000000000000000000'"
0	(0)	BITSTRING	0	$CONER04	"B'00010000000000000000000'"
0	(0)	BITSTRING	0	$CONER05	"B'00001000000000000000000'"
0	(0)	BITSTRING	0	$CONER06	"B'00000100000000000000000'"
0	(0)	BITSTRING	0	$CONER07	"B'00000010000000000000000'"
0	(0)	BITSTRING	0	$CONER08	"B'00000001000000000000000'"
0	(0)	BITSTRING	0	$CONER09	"B'00000000100000000000000'"
0	(0)	BITSTRING	0	$CONER10	"B'00000000010000000000000'"
0	(0)	BITSTRING	0	$CONER11	"B'00000000001000000000000'"
0	(0)	BITSTRING	0	$CONER12	"B'00000000000100000000000'"
0	(0)	BITSTRING	0	$CONER13	"B'00000000000010000000000'"
0	(0)	BITSTRING	0	$CONER14	"B'00000000000001000000000'"
	Equates for $SPIN reasons				
0	(0)	X'0'	0	$SPIN_OPERATOR	"0" Operator requested SPIN
0	(0)	X'4'	0	$SPIN_TIME	"4" Time threshold reached
0	(0)	X'8'	0	$SPIN_LINES	"8" Line threshold reached
0	(0)	X'C'	0	$SPIN_SEGMENT	"12" SEGMENT= reached
	NJE defaults				
0	(0)	X'AF'	0	$NJETCP_PORT	"175" Well-known port for VMNET
0	(0)	X'8CC'	0	$NJETCP_PORT_SSL	"2252" Well-known port for NJENET-SSL with secure sockets

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Equates for PLX Dynamic area CPOOLs			
0	(0)	X'14'	0	$PLXPCEL	"20" Primary cell count
0	(0)	X'14'	0	$PLXSCEL	"20" Secondary cell count
		General equates			
0	(0)	X'4'	0	$MTTRLEN	"4" Size of an MTTR
0	(0)	X'6'	0	$MQTRLEN	"6" Size of an MQTR
		JECL validity Equates. Each JECL verb (e.g. OUTPUT, JOBPARM, ROUTE) and a subset of the operands for some of the verbs will have equates here. The value of each equate will be 0-255. These equates will be used to index into a $JECMAX byte vector. The values at the point in the vector will be used to determine if the verb (or operand) is valid in its context. The name of each equate will be in the form: $JECvvoo where vv is the verb (see examples below) and oo is the operand for that verb Make sure that $JECMAX is always at least one greater than the highest index defined.			
0	(0)	X'0'	0	$JECDE	"0" DEL
0	(0)	X'1'	0	$JECEO	"1" EOF
0	(0)	X'2'	0	$JECPU	"2" PURGE
0	(0)	X'3'	0	$JECJP	"3" JOBPARM
0	(0)	X'4'	0	$JECMS	"4" MESSAGE
0	(0)	X'5'	0	$JECNA	"5" NETACCT
0	(0)	X'6'	0	$JECNO	"6" NOTIFY
0	(0)	X'7'	0	$JECOU	"7" OUTPUT
0	(0)	X'8'	0	$JECPR	"8" PRIORITY
0	(0)	X'9'	0	$JECRO	"9" ROUTE
0	(0)	X'A'	0	$JECSC	"10" SCAN
0	(0)	X'B'	0	$JECSE	"11" SETUP
0	(0)	X'C'	0	$JECXQ	"12" XEQ
0	(0)	X'D'	0	$JECXM	"13" XMIT
0	(0)	X'E'	0	$JECNV	"14" Invalid JECL Statement
0	(0)	X'F'	0	$JECOC	"15" $ (operator command)
		JOBPARM operands			
0	(0)	X'1E'	0	$JECJPSA	"30" SYSAFF
0	(0)	X'1F'	0	$JECJPRE	"31" RESTART
		ROUTE operands			
0	(0)	X'C'	0	$JECROXQ	"$JECXQ" ROUTE XEQ equiv to XEQ
		JES3 JECL statement			
0	(0)	X'20'	0	$JEC3DS	"32" / DATASET
0	(0)	X'21'	0	$JEC3ES	"33" / ENDDATASET
0	(0)	X'22'	0	$JEC3EP	"34" / ENDPROCESS

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'23'	0	$JEC3FM	"35" / FORMAT
0	(0)	X'24'	0	$JEC3MN	"36" / MAIN
0	(0)	X'25'	0	$JEC3NT	"37" / NET
0	(0)	X'26'	0	$JEC3NA	"38" / NETACCT
0	(0)	X'27'	0	$JEC3OP	"39" / OPERATOR
0	(0)	X'28'	0	$JEC3PA	"40" / PAUSE
0	(0)	X'29'	0	$JEC3PR	"41" / PROCESS
0	(0)	X'2A'	0	$JEC3RT	"42" / ROUTE
		Update $JECMAX if the maximum index value changes. $JECMAX is one greater than the maximum index.			
0	(0)	X'2B'	0	$JECMAX	"43" Maximum index value
		Use the following equates in the vector elements to indicate whether a particular verb or operand is allowed (i.e. is "OK").			
0	(0)	X'0'	0	$JECOK	"0" Verb or Operand is OK
0	(0)	X'4'	0	$JECNOK	"4" Verb or Operand is not OK
		The following equates define offsets into the header area of the parameter list for the IPADDR processing routine HASJIDST in HASCSJFS.			
0	(0)	X'0'	0	IPOUTLEN	"0,2" Offset of output area len
0	(0)	X'2'	0	IPCALLER	"2,2" Offset of caller type
0	(0)	X'4'	0	IPWJOA	"4,4" Offset of JOA address
0	(0)	X'4'	0	IPNODE	"IPWJOA,8" Offset of input node name
0	(0)	X'4'	0	IPRETC	"IPWJOA,4" Offset of return code
0	(0)	X'C'	0	$IPUSER	"12,8" Offset of input userid
0	(0)	X'14'	0	IPEYE	"20,4" Offset of eye-catcher
0	(0)	X'18'	0	IPTUOUT	"24" Offset of TU output area
		Checkpoint-related equates. $PRWTHSH and $PRWRATE are used by the KPRIMW routine in HASPCKPT to determine when a primary write is needed. The lower value ($PRWTHSH) is used after the READ2 phase, while the higher value ($PRWRATE) is used at all other times. The intent of the lower limit is to force a primary write at the beginning of the checkpoint cycle if we are getting close to the actual write limit, rather than waiting until we are in the middle of the checkpoint cycle.			
0	(0)	X'4'	0	$PRWTHSH	"4" READ2 primary write threshold
0	(0)	X'A'	0	$PRWRATE	"10" Primary write limit
		$MAX_MSTR_SIZE defines max size of a checkpoint master record for this release. (Actual size is a bit over 185 pages, but 192 pages is a nice round number - x'C0' hex.) See PL/X constant $MAX_MSTR_SIZE in $HASPEQP and Ckpt_MAX_LIST0_Pages in $CFCON. To determine max size of master record, cold start JES2 with SPOOLDEF SPOOLNUM=253. Then take ((CKWMAXRC $CTLBLEN) + ($CTLB-$MASTER) +4095)/ 4096 The result is the number of 4K pages to hold the max size master record.			
0	(0)	X'C0000'	0	$MAX_MSTR_SIZE	"(192*4096)" Max master record size

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A'	0	$KITFUDG	"10" Max unknown KIT that IRDA can handle
		Job Correlator length equate			
0	(0)	X'40'	0	$JCORLEN	"64" Length of Job Correlator
		Standard pain unit used by the automatic checkpoint tuning			
0	(0)	X'64'	0	$PAINUNT	"100" Pain unit
		JES2 release management Equates In order to manage the Homogeneity/Heterogeneity of a JESplex, it is required that each JES2 deliverable (beginning with SP 5.1.0) have a non-zero monotonic increasing association. Each new combination of VRM (Version Release Modification) will have an equated value here.			
0	(0)	X'5'	0	$JES2510	"5" JES2 SP 5.1.0
0	(0)	X'A'	0	$JES2520	"10" JES2 SP 5.2.0
0	(0)	X'F'	0	$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14'	0	$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19'	0	$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E'	0	$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23'	0	$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28'	0	$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D'	0	$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'32'	0	$JES2Z102	"50" JES2 z/OS 1.2
0	(0)	X'37'	0	$JES2Z104	"55" JES2 z/OS 1.4
0	(0)	X'3C'	0	$JES2Z105	"60" JES2 z/OS 1.5
0	(0)	X'41'	0	$JES2Z107	"65" JES2 z/OS 1.7
0	(0)	X'46'	0	$JES2Z108	"70" JES2 z/OS 1.8
0	(0)	X'49'	0	$JES2Z109	"73" JES2 z/OS 1.9
0	(0)	X'4C'	0	$JES2Z110	"76" JES2 z/OS 1.10
0	(0)	X'4F'	0	$JES2Z111	"79" JES2 z/OS 1.11
0	(0)	X'52'	0	$JES2Z112	"82" JES2 z/OS 1.12
0	(0)	X'55'	0	$JES2Z113	"85" JES2 z/OS 1.13
0	(0)	X'58'	0	$JES2Z201	"88" JES2 z/OS 2.1
0	(0)	X'5B'	0	$JES2Z202	"91" JES2 z/OS 2.2
0	(0)	X'5E'	0	$JES2Z203	"94" JES2 z/OS 2.3
0	(0)	X'61'	0	$JES2Z204	"97" JES2 z/OS 2.4
0	(0)	X'61'	0	$JES2HI	"$JES2Z204" The highest compatible JES2 version

Table 204. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				JES2 product level / service level equates All product levels supported in multi-access spool with this release MUST have a $J2Pxxx equate defined. When a release is no longer supported in a MAS, its $J2Pxxx equate should be deleted so that obsolete $LEVEL invocations can be identified. These equates must be equal to the &J2PLVL global variable at that release level as defined in $MODULE/$HASPGBL. Releases that can not live with the current level in a MAS Dropped as of OS/390 Release 10 J2P510 EQU 24 JES2 SP 5.1.0 J2P520 EQU 25 JES2 SP 5.2.0 J2P110 EQU 26 JES2 OS/390 release 1 J2P130 EQU 27 JES2 OS/390 release 3 Dropped as of z/OS 1.2 J2P240 EQU 28 JES2 OS/390 release 4	
0	(0)	X'1D'	0	$J2P250	"29" JES2 OS/390 release 5
				Dropped as of z/OS 1.4 J2P270 EQU 30 JES2 OS/390 release 7 Dropped as of z/OS 1.5 J2P280 EQU 31 JES2 OS/390 release 8 Dropped as of z/OS 1.7 J2P210 EQU 32 JES2 OS/390 release 10 Dropped as of z/OS 1.8 J2PZ102 EQU 33 JES2 z/OS 1.2 Dropped as of z/OS 1.9 J2PZ104 EQU 34 JES2 z/OS 1.4 Dropped as of z/OS 1.11 J2PZ105 EQU 35 JES2 z/OS 1.5 J2PZ107 EQU 36 JES2 z/OS 1.7 J2PZ108 EQU 37 JES2 z/OS 1.8 Dropped as of z/OS 1.12 J2PZ109 EQU 38 JES2 z/OS 1.9 Dropped as of z/OS 2.2 J2PZ110 EQU 39 JES2 z/OS 1.10	
0	(0)	X'28'	0	$J2PZ111	"40" JES2 z/OS 1.11
0	(0)	X'29'	0	$J2PZ112	"41" JES2 z/OS 1.12
				Dropped as of z/OS 2.3 J2PZ113 EQU 42 JES2 z/OS 1.13 Dropped as of z/OS 2.4 J2PZ201 EQU 43 JES2 z/OS 2.1	
0	(0)	X'2C'	0	$J2PZ202	"44" JES2 z/OS 2.2
0	(0)	X'2D'	0	$J2PZ203	"45" JES2 z/OS 2.3
0	(0)	X'2E'	0	$J2PZ204	"46" JES2 z/OS 2.4

Table 205. Cross Reference for $HASPEQU

Name	Offset	Hex Tag
$AFTMASK	0	0
$AFTOFF	0	1
$AFTOKEN	0	3
$AIDNDEF	0	C
$AIDNVAL	0	10
$AIDOK	0	0
$AIDUSED	0	4
$AIDUTRK	0	8
$ALMSGSW	0	40
$AUDDEL	0	C
$AUDINER	0	14

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$AUDIO	0	4
$AUDLOST	0	8
$AUDMOVE	0	10
$AUDSUB	0	18
$BDYNATT	0	80
$BDYNDET	0	40
$CF1R004	0	4
$CF1R008	0	8
$CF1R012	0	C
$CF1R036	0	24
$CHECINH	0	80
$CHECNWA	0	40
$CHECPST	0	20
$CKPAMWS	0	80
$CKPBLDQ	0	2
$CKPDAMG	0	8
$CKPGDEF	0	64
$CKPLOKB	0	20
$CKPSPVL	0	40
$CKPTIOA	0	10
$CKPTRSV	0	1
$CKRCKP1	0	20
$CKRCKP2	0	8
$CKRDEL	0	80
$CKRIOE	0	2
$CKRNDEL	0	40
$CKRNIOE	0	1
$CKRNKP1	0	10
$CKRNKP2	0	4
$CKRNSTR	0	40
$CKRNTOP	0	40
$CKRSTRT	0	80
$CKRTOP	0	80
$CMBDEF	0	64
$CMDDYNA	0	1
$CMDLIMT	0	2
$CMDNORM	0	0
$CMDNUM	0	3
$COLD	0	4
$COLDFMT	0	1
$CONER01	0	800000
$CONER02	0	400000
$CONER03	0	200000
$CONER04	0	100000
$CONER05	0	80000
$CONER06	0	40000

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$CONER07	0	20000
$CONER08	0	10000
$CONER09	0	8000
$CONER10	0	4000
$CONER11	0	2000
$CONER12	0	1000
$CONER13	0	800
$CONER14	0	400
$CONFIG	0	10
$CPNHBMX	0	190
$CPRIMXT	0	C8
$CSBID	0	0
$CSBPRFX	0	8
$CSBSPLN	0	4
$CS2PRFX	0	10
$DBGBERT	0	80
$DBGCKPT	0	40
$DBGCNTB	0	8
$DBGEDS	0	10
$DBGMISC	0	4
$DBGPCY	0	4
$DBGSAF	0	1
$DBGSTRG	0	8
$DBGSYMR	0	2
$DBGTIME	0	40
$DBGVERB	0	10
$DBGVERS	0	20
$DBGXCFS	0	80
$DDYNATT	0	80
$DDYNFND	0	40
$DEFNZJC	0	3E8
$DGBCKPV	0	20
$DGB1ONF	0	EF
$DGB2ONF	0	7C
$DILINDR	0	1
$DRABIT	0	1
$DRAINED	0	20
$DRALICE	0	2B
$DRALOC	0	2
$DRARMS	0	20
$DRBERTL	0	27
$DRBERTW	0	26
$DRBREG	0	28
$DRBUF	0	4
$DRCCAN	0	24
$DRCKPT	0	A

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$DRCKPTL	0	C
$DRCKPTP	0	B
$DRCKPTS	0	33
$DRCKPTW	0	D
$DRCMB	0	E
$DRCNVT	0	16
$DRDAWN	0	2E
$DRDILBERT	0	29
$DREDSQ	0	30
$DREOM	0	2C
$DRFSS	0	12
$DRGENL	0	1C
$DRHOMOG	0	21
$DRHOPE	0	17
$DRIMAGE	0	3
$DRIRCLEAN	0	2D
$DRJCMD	0	1E
$DRJOB	0	8
$DRJOE	0	6
$DRJOEI	0	2F
$DRJOT	0	5
$DRJQRB	0	32
$DRLOCK	0	10
$DRMAIN	0	11
$DRMFMT	0	23
$DRMLLM	0	0
$DRNEWS	0	1B
$DRPCETM	0	18
$DRPROCLIB	0	22
$DRPSO	0	13
$DRPURGE	0	14
$DRQUEL	0	8
$DRRMWT	0	19
$DRSMF	0	F
$DRSPI	0	25
$DRSPIN	0	1D
$DRSTAC	0	1A
$DRTIPS	0	15
$DRTOTAL	0	40
$DRTRACK	0	7
$DRTRACP	0	31
$DRUNIT	0	9
$DRWARM	0	1F
$DRXMITJOB	0	2A
$DTEPARM	0	80
$DTEPECB	0	40

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$DTEPXCB	0	20
$DYNLOCF	0	1708
$DYNNEW	0	4
$ENFCSA	0	F1
$ENFPPOL	0	F9
$ENTCADR	0	10
$ENTNAME	0	8
$ENTSDSC	0	10
$ENTSEXL	0	3A
$ENTSFG1	0	39
$ENTSNAM	0	8
$ENTSNUM	0	38
$ENTS1AU	0	80
$ENTYLEN	0	27
$EQUHBIT	0	80
$ERRCDE	0	0
$ERRC000	0	0
$ERRC004	0	4
$ERRC008	0	8
$ERRC012	0	C
$ERRC016	0	10
$ERRC028	0	1C
$ERRC032	0	20
$ERRC036	0	24
$ERRC040	0	28
$ERRC076	0	4C
$ERRC080	0	50
$ERRC084	0	54
$ERRC088	0	58
$ERRC092	0	5C
$ERRC096	0	60
$ERRC100	0	64
$ERRC104	0	68
$ERRC108	0	6C
$ERRC112	0	70
$ERRC116	0	74
$ERRC120	0	78
$ERRC124	0	7C
$ERRC128	0	80
$ERRC132	0	84
$ERRC136	0	88
$ERRC140	0	8C
$ERRC144	0	90
$ERRC148	0	94
$ERRC152	0	98
$ERRC156	0	9C

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$ERRC160	0	A0
$ERRC164	0	A4
$ERRC168	0	A8
$ERRC172	0	AC
$ERRC176	0	B0
$ERRC180	0	B4
$ERRC184	0	B8
$ERRC188	0	BC
$ERRC192	0	C0
$ERRC196	0	C4
$ERRC200	0	C8
$ERRC204	0	CC
$ERRC212	0	D4
$ERRC216	0	D8
$ERRC224	0	E0
$ERRC228	0	E4
$ERRC232	0	E8
$ERRC236	0	EC
$ERRC240	0	F0
$ERRC244	0	F4
$ERRC248	0	F8
$ERRC252	0	FC
$ERRC256	0	100
$ERRC260	0	104
$ERRC264	0	108
$ERRC268	0	10C
$ERRC272	0	110
$ERRC276	0	114
$ERRC280	0	118
$ERRC284	0	11C
$ERRC288	0	120
$ERRC292	0	124
$ERRC296	0	128
$ERRC300	0	12C
$ERRC304	0	130
$ERRC308	0	134
$ERRC316	0	13C
$ERRC320	0	140
$ERRC324	0	144
$ERRC328	0	148
$ERRC332	0	14C
$ERRC336	0	150
$ERRC340	0	154
$ERRC344	0	158
$ERRC348	0	15C
$ERRC352	0	160

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$ERRC356	0	164
$ERRC360	0	168
$ERRC364	0	16C
$ERRC368	0	170
$ERRC372	0	174
$ERRC376	0	178
$ERRC380	0	17C
$ERRC384	0	180
$ERRC388	0	184
$ERRC392	0	188
$ERRC396	0	18C
$ERRC400	0	190
$ERRC404	0	194
$ERRC408	0	198
$ERRC412	0	19C
$ERRC416	0	1A0
$ERRC420	0	1A4
$ERRC424	0	1A8
$ERRC428	0	1AC
$ERRC432	0	1B0
$ERRC436	0	1B4
$ERRC440	0	1B8
$ERRC444	0	1BC
$ERRC448	0	1C0
$ERRC452	0	1C4
$ERRC456	0	1C8
$ERRC460	0	1CC
$ERRC464	0	1D0
$ERRC468	0	1D4
$ERRC472	0	1D8
$ERRC476	0	1DC
$ERRC480	0	1E0
$ERRC484	0	1E4
$ERRC488	0	1E8
$ERRC492	0	1EC
$ERRC496	0	1F0
$ERRC500	0	1F4
$ERRC504	0	1F8
$ERRENTY	0	2E
$ERRTEXT	0	4
$ESYS	0	8
$EWFHOLD	0	8
$EWFIO	0	20
$EWFOPER	0	40
$EWFPOST	0	80
$EWFWORK	0	10

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$EXCPCBI	0	10
$EXCPMT	0	20
$EXCPVR	0	80
$EXCPWT	0	40
$EXTPCLO	0	3
$EXTPGET	0	1
$EXTPNCL	0	4
$EXTPOPE	0	0
$EXTPPUT	0	2
$EXTPREA	0	5
$EXTPWRI	0	6
$FBUFMLT	0	80
$FCMBCNT	0	80
$GBUFWT	0	80
$GHPFIX	0	80
$GHPPRFX	0	8
$GSMFBLG	0	40
$GSMFBWT	0	80
$GTBESTJ	0	40
$GTCHNNO	0	40
$GTCOUNT	0	1
$GTHAVNO	0	80
$GTIOTYS	0	20
$GTJHNSE	0	8
$GTNET	0	10
$GTNOSAF	0	2
$GTOPTIM	0	80
$GTPARML	0	4
$GTSKJPP	0	4
$GTSKJPS	0	2
$GTSKWSR	0	1
$GTWKCND	0	80
$GTWKLOC	0	20
$GTWKRO	0	10
$GTWKWAT	0	40
$GTWRKSL	0	8
$GTWSP	0	4
$HASPEQU	0	
$HOT	0	40
$HOURPLUS	0	E4C
$ILPFLG1	0	1
$ILPFLG2	0	2
$ILPFLG3	0	3
$ILPSIZE	0	0
$INDMODE	0	8
$INITCHK	0	FF

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$IOTPRTG	0	32
$IOTRBGN	0	3E8
$IOTRLMT	0	5
$IPUSER	0	C
$JCORLEN	0	40
$JCXLOCL	0	8000
$JECDE	0	0
$JECEO	0	1
$JECJP	0	3
$JECJPRE	0	1F
$JECJPSA	0	1E
$JECMAX	0	2B
$JECMS	0	4
$JECNA	0	5
$JECNO	0	6
$JECNOK	0	4
$JECNV	0	E
$JECOC	0	F
$JECOK	0	0
$JECOU	0	7
$JECPR	0	8
$JECPU	0	2
$JECRO	0	9
$JECROXQ	0	C
$JECSC	0	A
$JECSE	0	B
$JECXM	0	D
$JECXQ	0	C
$JEC3DS	0	20
$JEC3EP	0	22
$JEC3ES	0	21
$JEC3FM	0	23
$JEC3MN	0	24
$JEC3NA	0	26
$JEC3NT	0	25
$JEC3OP	0	27
$JEC3PA	0	28
$JEC3PR	0	29
$JEC3RT	0	2A
$JES2HI	0	61
$JES2Z102	0	32
$JES2Z104	0	37
$JES2Z105	0	3C
$JES2Z107	0	41
$JES2Z108	0	46
$JES2Z109	0	49

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$JES2Z110	0	4C
$JES2Z111	0	4F
$JES2Z112	0	52
$JES2Z113	0	55
$JES2Z201	0	58
$JES2Z202	0	5B
$JES2Z203	0	5E
$JES2Z204	0	61
$JES2110	0	F
$JES2130	0	14
$JES2210	0	2D
$JES2240	0	19
$JES2250	0	1E
$JES2270	0	23
$JES2280	0	28
$JES2510	0	5
$JES2520	0	A
$JEXTFRE	0	80
$JEXTLEN	0	2
$JEXTMAX	0	7FFF
$JEXTTGN	0	0
$JIXFOMT	0	10
$JIXFREE	0	40
$JIXGET	0	80
$JIXSWAP	0	20
$JIXVERI	0	8
$JIXWNO	0	0
$JIXWYES	0	1
$JMPREDO	0	32
$JQEDEF	0	3E8
$JSRBERT	0	8000
$JSRFLGS	0	F
$JSRFREE	0	400
$JSRGRP	0	40
$JSRGSPL	0	4000
$JSRJQA	0	800
$JSRLMPL	0	10
$JSRMJPL	0	80
$JSRNET	0	20
$JSRRWAT	0	2000
$JSRSTC	0	100
$JSRTADD	0	1
$JSRTCAN	0	7
$JSRTCKP	0	2
$JSRTFRE	0	6
$JSRTLIM	0	A

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$JSRTMDJ	0	9
$JSRTMOD	0	3
$JSRTOBT	0	5
$JSRTQRY	0	8
$JSRTREM	0	4
$JSRTSU	0	200
$JSRWAIT	0	1000
$JWEBULK	0	40
$JWECRTM	0	4
$JWEDVID	0	C
$JWEFLAG	0	F
$JWEFLG1	0	0
$JWELEN	0	10
$JWELONG	0	80
$JWENUM	0	4
$JWEPTR	0	0
$JWETBLL	0	8
$JW1NCLR	0	80
$J2PZ111	0	28
$J2PZ112	0	29
$J2PZ202	0	2C
$J2PZ203	0	2D
$J2PZ204	0	2E
$J2P250	0	1D
$KCPMI2M	0	0
$KCPM2MI	0	1
$KITFUDG	0	A
$LABAL	0	40
$LABAUL	0	48
$LABBLP	0	10
$LABNL	0	1
$LABNSL	0	4
$LABSL	0	2
$LABSUL	0	A
$LRGSMFB	0	8000
$LVALONE	0	80
$L01R004	0	4
$MAX_MSTR_SIZE	0	C0000
$MAXACCT	0	8F
$MAXARTC	0	7FFF
$MAXARTE	0	64
$MAXARTR	0	2
$MAXARTT	0	4
$MAXBERT	0	2625A0
$MAXBERT_Z11	0	F4240
$MAXBSC	0	270F

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$MAXBUF	0	7D0
$MAXBUFX	0	270F
$MAXCDC2	0	D988
$MAXCLSZ	0	8
$MAXCMB	0	270F
$MAXCMDB	0	270F
$MAXCMPT	0	63
$MAXCNVT	0	19
$MAXCONJ	0	C8
$MAXCPLN	0	7FFF
$MAXCPPG	0	7FFF
$MAXCPTM	0	7FFF
$MAXCYL	0	1111
$MAXDA	0	FD
$MAXDISP	0	98967F
$MAXDSKY	0	FFFFFF
$MAXEMID	0	F6
$MAXESIZ	0	4E20
$MAXFORM	0	8
$MAXFSGN	0	FFFFFF
$MAXHOLD	0	F5E0FF
$MAXICES	0	7FFF
$MAXINIT	0	270F
$MAXIPLN	0	7F
$MAXJCLS	0	200
$MAXJDEF	0	270F
$MAXJGJB	0	7D0
$MAXJNUM	0	F423F
$MAXJOEP	0	14
$MAXJOID	0	F5E0FF
$MAXLCK	0	8
$MAXLCYL	0	11111
$MAXLNES	0	FFFF
$MAXLOGS	0	3E7
$MAXLTRV	0	FFFFF
$MAXMERG	0	64
$MAXNFYS	0	8
$MAXNHB	0	270F
$MAXNJEQ	0	7
$MAXNJQE	0	F4240
$MAXNJQE_Z11	0	61A80
$MAXNMSG	0	C8
$MAXNODE	0	7FFF
$MAXNPRO	0	E10
$MAXNZJC	0	7A120
$MAXOFFS	0	8

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$MAXOUT	0	19
$MAXPATH	0	8
$MAXPPBF	0	1F4
$MAXPRDV	0	8
$MAXPRMD	0	FF
$MAXPRTS	0	7FFF
$MAXPSO	0	A
$MAXPUNS	0	63
$MAXPURG	0	19
$MAXRATC	0	A
$MAXRCLN	0	12
$MAXRDRS	0	63
$MAXRJE	0	7FFF
$MAXROUT	0	7FFF
$MAXRST	0	7D0
$MAXSAFL	0	80
$MAXSJFR	0	1F4
$MAXSMFB	0	3E8
$MAXSNML	0	4
$MAXSPIN	0	A
$MAXSRVS	0	3E7
$MAXSSZZ	0	1E
$MAXSTAC	0	A
$MAXSYS	0	20
$MAXSYSN	0	20
$MAXTGBE	0	400
$MAXTGBE_Z11	0	FF
$MAXTGS	0	E81200
$MAXTGV	0	20000
$MAXTINT	0	1F4
$MAXTLOG	0	FFFFFF
$MAXTOTD	0	A
$MAXTOTH	0	3E8
$MAXTRC	0	BB8
$MAXTRV	0	FFFF
$MAXVRSN	0	32
$MAXVTAM	0	270F
$MAXWCLS	0	8
$MG0C001	0	1
$MG0C002	0	2
$MG0C003	0	3
$MG0C004	0	4
$MG0C005	0	5
$MG0C006	0	6
$MG0C007	0	7
$MG0C008	0	8

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$MG0C009	0	9
$MG0C010	0	A
$MG1C011	0	B
$MG1C012	0	C
$MINBERT	0	64
$MINBSC	0	A
$MINBUF	0	A
$MINBUFX	0	A
$MINCMB	0	4
$MINCMDB	0	4
$MINEMID	0	3
$MINJDEF	0	1
$MINNHB	0	A
$MINTINT	0	F
$MINVTAM	0	A
$MLDIRL	0	20
$MLDLPA	0	10
$MLJ2MOD	0	40
$MLMSGI	0	8
$MLMSGS	0	4
$MLMSGY	0	80
$MLREPL	0	2
$MLREPLC	0	1
$MQTRLEN	0	6
$MSGPFXL	0	2
$MTTRLEN	0	4
$MVSIPL	0	2
$MWORKSZ	0	120
$MXCKPCT	0	63
$MXSYSBY	0	4
$M064DAD	0	10
$M064IBE	0	80
$M064MIG	0	8
$M064NIB	0	40
$M064RD	0	4
$M064SNS	0	20
$M064WRT	0	2
$M068DEV	0	80
$M068LDV	0	20
$M068NDV	0	40
$M120INR	0	40
$M120OTH	0	80
$M260CLD	0	80
$M260NCL	0	40
$M276CLD	0	40
$M276HOT	0	20

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$M276WRM	0	80
$M281ALL	0	80
$M281SOM	0	40
$M291CC1	0	80
$M291CC2	0	40
$M291NCW	0	20
$M291SNS	0	10
$M416LNG	0	80
$M416SHR	0	40
$M443ATT	0	80
$M443LEV	0	20
$M443NUM	0	40
$M445CKP	0	C
$M445OTH	0	8
$M445ZOD	0	10
$M458CK1	0	80
$M458CK2	0	40
$M478CK1	0	80
$M478CK2	0	40
$M479INT	0	20
$M479IO	0	80
$M479SID	0	40
$M479VAL	0	10
$M530NOR	0	80
$M530TRN	0	40
$M539CLS	0	40
$M539GRP	0	80
$M565CON	0	40
$M565LNE	0	80
$M568APT	0	40
$M568LGN	0	8
$M568LIN	0	4
$M568NIT	0	80
$M568NSV	0	10
$M568SCK	0	20
$M745INT	0	80
$M745STD	0	40
$M867GOO	0	40
$M867MON	0	20
$M867MSR	0	8
$M867MTR	0	10
$M867NOR	0	80
$M897ACL	0	40
$M897ACS	0	20
$M897INA	0	80
$NJETCP_PORT	0	AF

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$NJETCP_PORT_SSL	0	8CC
$NPMDOWN	0	2
$NPRICHG	0	20
$NPRODEF	0	12C
$NTNNODE	0	0
$NTNONDE	0	10
$NTNOTUS	0	8
$NTNOUSR	0	18
$NTPARML	0	0
$ODANY	0	F
$ODANYWP	0	1F
$ODHOLD	0	4
$ODKEEP	0	2
$ODLEAVE	0	1
$ODPURGE	0	10
$ODWRITE	0	8
$PAINUNT	0	64
$PBLKCTR	0	40
$PBLKSLT	0	80
$PBUFLIM	0	3E8
$PCEGARD	0	10
$PDYNALT	0	10
$PDYNAT	0	80
$PDYNDCT	0	2
$PDYNDT	0	40
$PDYNDTT	0	20
$PDYNPCE	0	8
$PDYNTAB	0	4
$PGESIZE	0	1000
$PLXPCEL	0	14
$PLXSCEL	0	14
$PPVERIU	0	10
$PRWRATE	0	A
$PRWTHSH	0	4
$PSTJOE	0	0
$PSTJQE	0	4
$PSTKEPJ	0	40
$PSTMASP	0	80
$PSTMSG	0	C
$PSTNSPN	0	20
$PSTXMIT	0	8
$QADJQA	0	8
$QGTINWS	0	20
$QGTLST	0	40
$QGTLSTC	0	80
$QGTWLMQ	0	10

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$QINDXL	0	100
$QMDHJCT	0	2
$QMDKEEP	0	10
$QMDNX51	0	4
$QMDOVAL	0	1
$QSNPCHG	0	40
$QSONDA	0	80
$QUICK	0	20
$QWALEN	0	2C0
$REMKPJQ	0	10
$REMLFRE	0	8
$REMLOCK	0	20
$REMPURG	0	80
$RRTJOB	0	80
$RRTSQD	0	20
$RSVNUM	0	19
$SCACMDS	0	C
$SCACTCM	0	1B
$SCCCMDS	0	14
$SCCOCMD	0	16
$SCDCMDS	0	4
$SCDDIAL	0	9
$SCDOCMD	0	6
$SCECMDA	0	10
$SCECMDS	0	B
$SCHCMDS	0	12
$SCIDIAL	0	E
$SCIRPL	0	2
$SCIRPLC	0	3
$SCLCMDS	0	1A
$SCLOCMD	0	19
$SCLTCMD	0	F
$SCMGCMD	0	1D
$SCNCLN	0	8
$SCNPOST	0	4
$SCNPRE	0	0
$SCOCMDS	0	18
$SCOPTS	0	1
$SCPCMDS	0	8
$SCPOCMD	0	17
$SCPYCMD	0	1E
$SCRCMDS	0	D
$SCRLCMD	0	13
$SCSCMDS	0	5
$SCSDIAL	0	A
$SCSTCMD	0	7

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$SCTOCMD	0	15
$SCWHOTS	0	40
$SCWIBM	0	3C
$SCWINST	0	3
$SCWOBS	0	80
$SCZAPCM	0	1C
$SCZCMDS	0	11
$SEAAUD	0	19
$SEACMD	0	C
$SEADCHK	0	1A
$SEADEL	0	E
$SEADEVA	0	12
$SEADIRA	0	29
$SEAEMRG	0	2E
$SEAENCR	0	2F
$SEAFAIL	0	8
$SEAGRPR	0	2C
$SEAINIT	0	1
$SEAJCLS	0	2B
$SEAJOX	0	20
$SEAMAX	0	FF
$SEAND	0	4
$SEANEWS	0	16
$SEANJEA	0	13
$SEANJES	0	0
$SEANJEV	0	1F
$SEANSOC	0	1D
$SEANSON	0	28
$SEANSTO	0	C
$SEANUSE	0	F
$SEANWBL	0	17
$SEAOK	0	0
$SEAPREC	0	2D
$SEAPRT	0	D
$SEAPSO	0	9
$SEAPSS	0	A
$SEAREXT	0	14
$SEARJES	0	11
$SEARRT	0	15
$SEASAPI	0	25
$SEASCLA	0	26
$SEASCLE	0	27
$SEASFS	0	23
$SEASIC	0	5
$SEASIP	0	7
$SEASOC	0	6

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$SEASOP	0	8
$SEASOX	0	1E
$SEASPBC	0	21
$SEASPBO	0	22
$SEASPLR	0	2A
$SEASSOC	0	1C
$SEASSWM	0	24
$SEATBLD	0	10
$SEATCAN	0	B
$SEATSOC	0	1B
$SEAUSED	0	2F
$SEAVERC	0	2
$SEAVERD	0	3
$SEAVERS	0	18
$SEAXTRT	0	4
$SEGLMDF	0	64
$SJIFREE	0	40
$SJIGNYC	0	8
$SJIINIT	0	10
$SJINSJB	0	20
$SJITEMP	0	80
$SMBERT	0	C80
$SMENVB	0	5DC
$SMFDEF	0	5
$SPCSAF	0	E7
$SPIN_LINES	0	8
$SPIN_OPERATOR	0	0
$SPIN_SEGMENT	0	C
$SPIN_TIME	0	4
$SP0	0	0
$SP132	0	84
$SP233	0	E9
$SQINDXL	0	100
$SSIRCVR	0	1
$STSUBP	0	E5
$SUBERR	0	80
$SUBMULT	0	40
$SYSEXIT	0	4
$TGDEF	0	3FA0
$TIMECLOC_JQECAT_1	0	1
$TIMECLOC_JQECAT_2	0	2
$TIMECLOC_TIMECLOC	0	4
$TIMECLOC_XIDJOB	0	3
$TIMETST	0	80
$TKNLEN	0	50
$TKNVERN	0	1

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$TRK000D	0	0
$VOLFLDL	0	18
$VOLLEN	0	6
$VOLMAX	0	4
$VOLMSKL	0	20
$WARM	0	80
$WARMHD	0	1F4
$WSFRJE	0	80
$WSJSREC	0	40
$XMLOSTP	0	80
$XMPASCB	0	8
$XMPECB	0	C
$XMPECBP	0	4
$XMPERET	0	0
$1E0C004	0	4
$1E0C008	0	8
$1E0C012	0	C
$1E0C016	0	10
$1E0C020	0	14
$1E0ET01	0	1
$1E0ET02	0	2
$1E0ET03	0	3
$1E0ET04	0	4
$1E0ET05	0	5
$1E0ET06	0	6
$1E0ET07	0	7
$1E0ET08	0	8
$1E0ET09	0	9
$1E0ET10	0	A
$1E0ET11	0	B
$1E0ET12	0	C
$1E0ET13	0	D
$1E0ET14	0	E
$446CVER	0	A
$446MVER	0	9
$599LEN	0	C
$599PIT	0	0
$599SQD	0	4
$599XINI	0	8
AB02ARAC	0	AC
AB02ARA0	0	A0
AB02ARA4	0	A4
AB02ARA8	0	A8
AB02ARBC	0	BC
AB02ARB0	0	B0
AB02ARB4	0	B4

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
AB02ARB8	0	B8
AB02ARCC	0	CC
AB02ARC0	0	C0
AB02ARC4	0	C4
AB02ARC8	0	C8
AB02AR0C	0	C
AB02AR04	0	4
AB02AR08	0	8
AB02AR1C	0	1C
AB02AR10	0	10
AB02AR14	0	14
AB02AR18	0	18
AB02AR2C	0	2C
AB02AR20	0	20
AB02AR24	0	24
AB02AR28	0	28
AB02AR3C	0	3C
AB02AR30	0	30
AB02AR34	0	34
AB02AR38	0	38
AB02AR4C	0	4C
AB02AR40	0	40
AB02AR44	0	44
AB02AR48	0	48
AB02AR5C	0	5C
AB02AR50	0	50
AB02AR54	0	54
AB02AR58	0	58
AB02AR6C	0	6C
AB02AR60	0	60
AB02AR64	0	64
AB02AR68	0	68
AB02AR7C	0	7C
AB02AR70	0	70
AB02AR74	0	74
AB02AR78	0	78
AB02AR8C	0	8C
AB02AR80	0	80
AB02AR84	0	84
AB02AR88	0	88
AB02AR9C	0	9C
AB02AR90	0	90
AB02AR94	0	94
AB02AR98	0	98
AB02BADL	0	D4
AB02GUNE	0	D8

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
AB02LENT	0	D0
AB68R104	0	104
AB68R108	0	108
AB68R200	0	200
AB68R300	0	300
AB68R304	0	304
AB68R400	0	400
AB68R500	0	500
AB68R60C	0	60C
AB68R600	0	600
AB68R604	0	604
AB68R608	0	608
AB68R61C	0	61C
AB68R610	0	610
AB68R614	0	614
AB68R618	0	618
AB68R620	0	620
AB68R624	0	624
AB68R628	0	628
AB68R70C	0	70C
AB68R700	0	700
AB68R704	0	704
AB68R708	0	708
AB68R71C	0	71C
AB68R710	0	710
AB68R714	0	714
AB68R718	0	718
AB68R720	0	720
AB68R800	0	800
AB68R801	0	801
AB68R900	0	900
AR0	0	0
AR1	0	1
AR10	0	A
AR11	0	B
AR12	0	C
AR13	0	D
AR14	0	E
AR15	0	F
AR2	0	2
AR3	0	3
AR4	0	4
AR5	0	5
AR6	0	6
AR7	0	7
AR8	0	8

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
AR9	0	9
BATPOOL	0	5
BSCPOOL	0	6
B32KPOOL	0	A
CBPOOL	0	7
CFPOOL	0	13
CIDPOOL	0	1D
CKPCLBCL	0	8
CKPCLCKP	0	1
CKPCLCMW	0	40
CKPCLCRW	0	80
CKPCLMRK	0	F
CKPCLRDC	0	2
CKPCLRDP	0	4
CKPTPOOL	0	4
CKREQ_EXTND	0	7
CKREQ_FMT	0	6
CKREQ_LOCK	0	4
CKREQ_READ2	0	2
CKREQ_REALC	0	8
CKREQ_T1IO	0	1
CKREQ_UNLCK	0	5
CKREQ_WRITE	0	3
CMBPOOL	0	14
DIAGADDR	0	0
DIAGKLEN	0	5
DIAGKLOC	0	4
DYNL3203	0	250
DYNL3211	0	23A
DYNL3800	0	10E
DYNL4245	0	250
DYNL4248	0	100
DYNTEYE	0	0
DYNTLEN	0	18
DYNTLMT	0	C
DYNTNEXT	0	4
DYNTTAB	0	8
DYNTTYPE	0	10
EXTDQ8A	0	8A
EXTDQ8B	0	8B
EXTDQ8C	0	8C
EXTDQ8D	0	8D
EXTDQ81	0	81
EXTDQ82	0	82
EXTDQ83	0	83
EXTDQ84	0	84

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
EXTDQ85	0	85
EXTDQ86	0	86
EXTDQ87	0	87
EXTDQ88	0	88
EXTDQ89	0	89
EXTDQ91	0	91
EXTPLCMD	0	0
EXTPLDAT	0	4
EXTPLLEN	0	1
EXTPLSIZ	0	8
FF	0	FF
FFFF	0	FFFF
FP0	0	0
FP2	0	2
FP4	0	4
FP6	0	6
GPQPOOL	0	1F
GTWKDIS	0	30
GTWKMAX	0	2000
GTWKRO	0	10
GTWKTANY	0	20
GTWKTCEL	0	10
GTWKTESZ	0	18
GTWKTFLG	0	5
GTWKTMSZ	0	2
GTWKTNAM	0	8
GTWKTNXT	0	C
GTWKTPID	0	4
GTWKTSIZ	0	0
GTWKTUSE	0	14
HASPPOOL	0	8
HAVTNLOG	0	80
HEDRPOOL	0	16
HTABFADD	0	20
HTABFLGB	0	9
HTABFNCK	0	8
HTABFOFF	0	40
HTABFTRQ	0	80
HTABF0TB	0	10
HTABTABL	0	A
HTABTEL	0	0
HTABTIDF	0	6
HTABTIDL	0	8
HTABTMCT	0	2
HTABTUFB	0	4
ICEPOOL	0	1A

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
IECITMOD	0	18
IPCALLER	0	2
IPEYE	0	14
IPNODE	0	4
IPOUTLEN	0	0
IPRETC	0	4
IPTUOUT	0	18
IPWJOA	0	4
JIXVRSN	0	2
LEAVE_JOES_BUSY	0	0
MAPADDR	0	8
MAPBASE	0	C
MAPENTL	0	10
MAPMITA	0	8
MAPNAME	0	0
MAXLRECL	0	7FFF
M474BTRN	0	18
M474ENBT	0	0
M474ENHI	0	8
M474ENLO	0	4
M474ENT1	0	0
M474ENT2	0	C
M474E1BT	0	0
M474E1HI	0	8
M474E1LO	0	4
M474E2BT	0	C
M474E2HI	0	14
M474E2LO	0	10
M474PRML	0	1C
M565LNEN	0	11
M565NDEN	0	1
M565NSVN	0	9
M565RAPP	0	B
M565RBUF	0	7
M565RBUS	0	8
M565RINT	0	A
M565RNDE	0	5
M565RND1	0	1
M565RND2	0	2
M565RNET	0	9
M565RNIL	0	3
M565RNPM	0	6
M565RNSK	0	4
M565RSN	0	0
M710DOWN	0	2
M710ENT	0	0

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
M710MEM	0	0
M710RSN	0	4
M710UP	0	1
M791GRP	0	4
M791LEN	0	1C
M791NAME	0	0
M791PLX	0	C
M791PXID	0	14
NATPOOL	0	9
NMAPPOOL	0	B
NONE	0	0
NSAPOOL	0	C
NTQPOOL	0	D
PAGEPOOL	0	E
PAIRDYN	0	8
PAIRHASP	0	4
PAIRLEN	0	C
PAIRUSER	0	0
PCEPOOL	0	19
PERFPOOL	0	18
PLXPOOL	0	15
PPPOOL	0	F
PRFDCKPT	0	7
PRFDCPUS	0	5
PRFDDEVG	0	9
PRFDEVNT	0	6
PRFDIND	0	8
PRFDINTS	0	1
PRFDLEN	0	C
PRFDMIGR	0	A
PRFDNAME	0	0
PRFDPCES	0	3
PRFDQSUS	0	2
PRFDSAMP	0	4
PRFDSUBT	0	8
PRFDWS	0	B
PSOPOOL	0	1B
PSTVRSN	0	2
RACDSECL	0	24
REGANSI	0	A0
RJOBNOFF	0	0
RJOBOFFL	0	1
RNTPOOL	0	1C
RSOVRSN	0	1
R0	0	0
R1	0	1

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
R10	0	A
R11	0	B
R12	0	C
R13	0	D
R14	0	E
R15	0	F
R2	0	2
R3	0	3
R4	0	4
R5	0	5
R6	0	6
R7	0	7
R8	0	8
R9	0	9
SCNDR01	0	4
SCNDR03	0	8
SCNDR04	0	C
SCNDR05	0	10
SCNDR06	0	14
SCNDR07	0	18
SCNDR08	0	1C
SCNDR09	0	20
SCNDR10	0	24
SCNDR100	0	134
SCNDR101	0	138
SCNDR102	0	13C
SCNDR103	0	140
SCNDR104	0	144
SCNDR105	0	148
SCNDR106	0	14C
SCNDR107	0	150
SCNDR108	0	154
SCNDR109	0	158
SCNDR11	0	28
SCNDR110	0	15C
SCNDR111	0	160
SCNDR112	0	164
SCNDR113	0	168
SCNDR114	0	16C
SCNDR115	0	170
SCNDR116	0	174
SCNDR117	0	178
SCNDR118	0	17C
SCNDR119	0	180
SCNDR12	0	2C
SCNDR120	0	184

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR121	0	188
SCNDR122	0	18C
SCNDR123	0	190
SCNDR124	0	194
SCNDR125	0	198
SCNDR126	0	19C
SCNDR127	0	1A0
SCNDR128	0	1A4
SCNDR13	0	30
SCNDR130	0	1A8
SCNDR131	0	1AC
SCNDR132	0	1B0
SCNDR133	0	1B4
SCNDR134	0	1B8
SCNDR135	0	1BC
SCNDR136	0	1C0
SCNDR137	0	1C4
SCNDR138	0	1C8
SCNDR139	0	1CC
SCNDR14	0	34
SCNDR140	0	1D0
SCNDR141	0	1D4
SCNDR142	0	1D8
SCNDR143	0	1DC
SCNDR144	0	1E0
SCNDR145	0	1E4
SCNDR146	0	1E8
SCNDR147	0	1EC
SCNDR148	0	1F0
SCNDR149	0	1F4
SCNDR150	0	1F8
SCNDR151	0	1FC
SCNDR152	0	200
SCNDR153	0	204
SCNDR154	0	208
SCNDR155	0	20C
SCNDR156	0	210
SCNDR157	0	214
SCNDR158	0	218
SCNDR159	0	21C
SCNDR160	0	220
SCNDR161	0	224
SCNDR162	0	228
SCNDR163	0	22C
SCNDR164	0	230
SCNDR165	0	234

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR166	0	238
SCNDR167	0	23C
SCNDR168	0	240
SCNDR169	0	244
SCNDR17	0	38
SCNDR170	0	248
SCNDR171	0	24C
SCNDR172	0	250
SCNDR173	0	254
SCNDR174	0	258
SCNDR175	0	25C
SCNDR176	0	260
SCNDR177	0	264
SCNDR178	0	268
SCNDR179	0	26C
SCNDR18	0	3C
SCNDR180	0	270
SCNDR19	0	40
SCNDR21	0	44
SCNDR22	0	48
SCNDR23	0	4C
SCNDR24	0	50
SCNDR25	0	54
SCNDR26	0	58
SCNDR27	0	5C
SCNDR28	0	60
SCNDR39	0	64
SCNDR40	0	68
SCNDR41	0	6C
SCNDR43	0	70
SCNDR44	0	74
SCNDR45	0	78
SCNDR46	0	7C
SCNDR52	0	80
SCNDR54	0	84
SCNDR55	0	88
SCNDR56	0	8C
SCNDR57	0	90
SCNDR58	0	94
SCNDR59	0	98
SCNDR62	0	9C
SCNDR63	0	A0
SCNDR64	0	A4
SCNDR65	0	A8
SCNDR66	0	AC
SCNDR67	0	B0

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR68	0	B4
SCNDR69	0	B8
SCNDR70	0	BC
SCNDR71	0	C0
SCNDR72	0	C4
SCNDR73	0	C8
SCNDR74	0	CC
SCNDR75	0	D0
SCNDR76	0	D4
SCNDR77	0	D8
SCNDR78	0	DC
SCNDR79	0	E0
SCNDR80	0	E4
SCNDR81	0	E8
SCNDR82	0	EC
SCNDR83	0	F0
SCNDR84	0	F4
SCNDR85	0	F8
SCNDR86	0	FC
SCNDR87	0	100
SCNDR88	0	104
SCNDR89	0	108
SCNDR90	0	10C
SCNDR91	0	110
SCNDR92	0	114
SCNDR93	0	118
SCNDR94	0	11C
SCNDR95	0	120
SCNDR96	0	124
SCNDR97	0	128
SCNDR98	0	12C
SCNDR99	0	130
SCQVRSN	0	1
SCWAPOOL	0	20
SCWDPOOL	0	21
SDLTBADD	0	0
SDLTLEN	0	4
SDLTNUM	0	A
SMFPOOL	0	12
SPANLAST	0	8C
SPANMID	0	84
SPAN1ST	0	88
SQDPOOL	0	1E
SRCBANSI	0	20
SRCBCCTL	0	30
SRCBDSH	0	E0

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SRCBFLAG	0	80
SRCBJH	0	C0
SRCBJT	0	D0
SRCBLAST	0	C
SRCBMCH	0	10
SRCBMID	0	4
SRCBPAGE	0	30
SRCBSPAN	0	C
SRCB1ST	0	8
TGMVRSN	0	1
TINTPOOL	0	17
TMAPADDC	0	18
TMAPENTL	0	1C
TMAPLMOD	0	10
TRAKQ4A	0	4A
TRAKQ41	0	41
TRAKQ42	0	42
TRAKQ43	0	43
TRAKQ44	0	44
TRAKQ45	0	45
TRAKQ46	0	46
TRAKQ47	0	47
TRAKQ48	0	48
TRAKQ49	0	49
TRAKQ5A	0	5A
TRAKQ51	0	51
TRAKQ52	0	52
TRAKQ53	0	53
TRAKQ54	0	54
TRAKQ55	0	55
TRAKQ56	0	56
TRAKQ57	0	57
TRAKQ58	0	58
TRAKQ61	0	61
TRAKQ62	0	62
TRAKQ63	0	63
TRAKQ64	0	64
TRAKQ65	0	65
TRCCWSP1	0	9
TRCCWSP2	0	11
TRCCWSP3	0	19
TRCLRECL	0	79
UNBUSY_JOES	0	1
VTAMPOOL	0	10
WAVEPOOL	0	22
WORKQ01	0	1

Table 205. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
WORKQ02	0	2
WORKQ03	0	3
WORKQ04	0	4
WORKQ05	0	5
WORKQ1A	0	1A
WORKQ11	0	11
WORKQ12	0	12
WORKQ13	0	13
WORKQ14	0	14
WORKQ15	0	15
WORKQ16	0	16
WORKQ17	0	17
WORKQ18	0	18
WORKQ21	0	21
WORKQ22	0	22
WORKQ23	0	23
WORKQ24	0	24
WORKQ25	0	25
WORKQ26	0	26
WORKQ27	0	27
WORKQ28	0	28
XCFMLIST	0	8
XCFMMEMC	0	12
XCFMMEMF	0	11
XCFMMEMN	0	0
XCFMMEMR	0	10
XCFMRSCS	0	C
XCFMRSJ2	0	4
XCFMRSNM	0	8
XCFMSIZE	0	1000
XCFMTHEM	0	0
XCFMUS	0	4
XEQPHDWT	0	78
XEQPHFWT	0	3C
XEQPHIWT	0	1E
XRQPOOL	0	11

$HASXB information

$HASXB programming interface information

The following fields are **NOT** programming interface information:

- HXBDSB
- HXBSAPID
- HXBWRKSP

$HASXB heading information

Common name: HASP address space extension block

Macro ID: $HASXB

DSECT name: HASXB

Owning component: JES2 (SC1BH)

Eye-catcher ID: HSXB
Offset: HXBID-HASXB
Length: L'HXBID

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private address space represented by the $HASXB.

Size: See HXBLEN

Created by: $SSIBEGN routine

Pointed to by: HSBHASXB field of the $HASB data area

Serialization: Shared by TCBs in the address space. The local lock is required to increment the use count in the $HASXB. This ensures that the control block won't be freed if it is considered to be temporary. After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields. $SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB. Compare and swap is still needed to update the use count even with the local lock because the local lock is not obtained when decrementing the use count in $SSIEND for permanent HASB/HASXBs. The use of compare and swap is not needed for the system HASB/HASXB count because it is never updated without the local lock.

Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist until the job is terminated. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned.
All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.
The HASXB contains the information that is needed only in the user address space. The HASB contains the information that needs to be shared between the user and the subsystem address spaces.

$HASXB mapping

Table 206. Structure HASXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HASXB	BEGINNING OF HASXB DSECT
0	(0)	CHARACTER	4	HXBID	EYECATCHER OF HASXB
4	(4)	ADDRESS	1	HXBVRSN	VERSION NUMBER FIELD
4	(4)	X'3'	0	HXBVRNUM	"3" Current version of HASXB
5	(5)	BITSTRING	1	HXBFLAG1	STATUS FLAG 1
		For more information about the PERM and SYS bits see the prolog for $SSIBEGN in HASCLINK.			
		1...		HXB1PERM	"B'10000000'" PERMANENT HASB/HASXB CHAIN

Table 206. Structure HASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		HXB1SYS	"B'01000000'" SYSTEM HASB/HASXB CHAIN
		..1.		HXB1REQ	"B'00100000'" A Request JobId call was made from this addr space
		...1		HXB1B32K	"B'00010000'" B32K cell pool created
		.... 1...		HXB1E40I	"B'00001000'" ENF 40 INIT call seen
		.... .1..		HXB1POOF	"B'00000100'" ALETs were deleted by End of Task, do not insert new ALETs in ALINDEX
6	(6)	BITSTRING	1	HXBRSVRD(2)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HXBUSECT	COUNT OF USERS OF THIS HSXB
12	(C)	SIGNED	4	HXBINTRD	COUNT OF BCP-ALLOCATED INTERNAL READERS
16	(10)	ADDRESS	4	HXBTRE	ADDRESS OF FIRST TRE ON CHAIN
20	(14)	ADDRESS	4	HXBWRKSP	ADDRESS OF WORK SPACE
24	(18)	ADDRESS	4	HXBUSER1	RESERVED FOR USER
28	(1C)	SIGNED	4	HXBSPLWT	Count of tasks AWAITING SPOOL SPACE tasks (PLO serialization)
32	(20)	ADDRESS	4	HXBCPTCB	TCB address to use with STORAGE OBTAIN
36	(24)	ADDRESS	4	HXBCPIDX	Address of CPINDEX table
40	(28)	ADDRESS	4	HXBALIDX	Address of ALINDEX table
44	(2C)	ADDRESS	4	HXBDSB	Chain of LOCAL DSBs
48	(30)	SIGNED	4	HXBSAPIA	ALET of SAPID queue for this address space
52	(34)	SIGNED	4	HXBSTACA	ALET of STAC data space for this address space
56	(38)	SIGNED	4	HXBPSOA	ALET of PSO data space for this address space
60	(3C)	ADDRESS	4	HXBSJIOB	Permanent SJIOB used for $SIGIO processing
64	(40)	ADDRESS	4	HXBASOK	Address of first ASOK
68	(44)	ADDRESS	4	HXBDSERV	Address of live DSERV
72	(48)	ADDRESS	4	HXBESWRK	Address of extended status work area
		SPOOL I/O vector This vector achors the BAT control blocks for this address space. There is one entry for every possible SPOOL volume.			
76	(4C)	ADDRESS	4	HXBBATV(0)	SPOOL I/O vector
1088	(440)	DBL WORD	8	(0)	Alignment
1088	(440)	X'440'	0	HXBLEN	"*-HASXB" LENGTH OF HASXB DSECT

Table 207. Cross Reference for $HASXB

Name	Offset	Hex Tag
HASXB	0	
HXBALIDX	28	
HXBASOK	40	
HXBBATV	4C	
HXBCPIDX	24	
HXBCPTCB	20	
HXBDSB	2C	

Table 207. Cross Reference for $HASXB (continued)

Name	Offset	Hex Tag
HXBDSERV	44	
HXBESWRK	48	
HXBFLAG1	5	
HXBID	0	C8E2E7C2
HXBINTRD	C	
HXBLEN	440	440
HXBPSOA	38	
HXBRSVRD	6	
HXBSAPIA	30	
HXBSJIOB	3C	
HXBSPLWT	1C	
HXBSTACA	34	
HXBTRE	10	
HXBUSECT	8	
HXBUSER1	18	
HXBVRNUM	4	3
HXBVRSN	4	
HXBWRKSP	14	
HXB1B32K	5	10
HXB1E40I	5	8
HXB1PERM	5	80
HXB1POOF	5	4
HXB1REQ	5	20
HXB1SYS	5	40

$HCCT information

$HCCT programming interface information

The following fields are **NOT** programming interface information:

- CCTASYNC
- CCTAUXCB
- CCTBMAP
- CCTCBRT
- CCTCKPTP
- CCTCOMM
- CCTCSHED
- CCTCSTAI
- CCTDSB
- CCTECF
- CCTHTCBA
- CCTJOB
- CCTMLLM
- CCTMONCB

- CCTOFFM
- CCTPCEPE
- CCTPJCLQ
- CCTPSOQ
- CCTRCP
- CCTRCPCQ
- CCTSAPIQ
- CCTSAWST
- CCTSAWXN
- CCTSAWXO
- CCTSCIDS
- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

$HCCT heading information

Common name:	HASP Common-storage Communication Table
Macro ID:	$HCCT
DSECT name:	HCCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'HCCT' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 228 Key: 1 Residency: Virtual and real storage are below 16M, in CSA. The storage is fixed in memory. Below 16M because it contains an extended ECB.
Size:	See the CCTLEN equate (plus an 8 byte prefix)
Created by:	Initialization of a JES2 subsystem address space, except for a 'hot start' initialization (the HCCT in CSA is just re-located in that case).
Pointed to by:	- The SSCTSUS2 field of the MVS SSCVT control block for the defined JES2 subsystem. - General register 11 when executing code in the 'USER' execution environment. - The $HCCT field of the JES2 $HCT control block. - The HFCTHCCT field of each JES2 $HFCT control block. - The SDBHCCT field of each JES2 $SDB control block. - The RIDHCCT field of each JES2 internal reader $DCT control block. - The address word in the module entry labeled MAPHCCT in the JES2 $MODMAP control block.

Serialization:

- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized via the JES2 Job Communications Queues (JCQ) logical lock.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by MVS resource ENQ.
- Fields might be serialized by the LOCAL/CMS locks.

Function:

The HCCT is the central common storage control block for a JES2 subsystem. It can be located from the MVS control blocks defining the subsystems. It, in turn, points to the major control block in the JES2 address space ($HCT), those for application address spaces ($HAVT, $HASBs), those for FSS address spaces ($FSSCBs), etc.
The HCCT also contains or points to most data used for communication between address spaces, whether for direct support of application requests for subsystem service (e.g. executing jobs, creating and writing to SYSOUT datasets), for JES2 subsystem utilities (e.g. its $TRACE facility), or for other purposes. It also is the central location for any information that must be useable when JES2 experiences an outage, or that must be preserved across such an outage until a 'hot start' is performed.
The HCCT is used most importantly by the JES2 subsystem interface (SSI) function routines, which include all of the MVS/JES2 interactions in support of job execution and SYSOUT/SYSIN datasets.

$HCCT mapping

Table 208. Structure HCCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCCT	
0	(0)	X'F'	0	CCTVRNUM	"15" HCCT version equate
0	(0)	ADDRESS	1	CCTVRSN	CONTROL BLOCK VERSION
1	(1)	BITSTRING	6		RESERVED FOR FUTURE USE
7	(7)	BITSTRING	1	CCTILVL	Service level
8	(8)	ADDRESS	4	CCTOFSTB	Address of offset table, at HCCT offset +8
12	(C)	ADDRESS	4	CCTLMT1	Address of first CSA LMT, if any
16	(10)	CHARACTER	8	CCTPVRSN	Copy of HCT $VERSION. Permanently set to 'SP 5.3.0' (Do not remove)
		DEFINE CONSTANTS. MOVED FROM THE $HCT IN HASPIRMA.			
24	(18)	CHARACTER	64	CCTBLN64	64 CHARACTERS OF BLANKS
24	(18)	X'18'	0	CCTBLNKS	"CCTBLN64,32,C'C'" 32 CHARACTERS OF BLANKS
88	(58)	BITSTRING	64	CCTZEROS	64 CHARACTERS OF HEX ZERO
88	(58)	X'58'	0	CCTZERO	"CCTZEROS,64,C'X'" Alternate name for CCTZEROS
152	(98)	ADDRESS	4	CCTFFS(16)	16 words of FF's
152	(98)	X'98'	0	CCTNEG1	"CCTFFS,4,C'F'" Fullword of X'FF's
152	(98)	X'98'	0	CCTALLFF	"CCTNEG1" ALTERNATE NAME FOR CCTNEG1
216	(D8)	SIGNED	4	CCTF1	FULLWORD CONSTANT 1
216	(D8)	X'DA'	0	CCTH1	"CCTF1+2,2,C'H'" HALFWORD CONSTANT 1
220	(DC)	SIGNED	4	CCTF2	FULLWORD CONSTANT 2
220	(DC)	X'DE'	0	CCTH2	"CCTF2+2,2,C'H'" HALFWORD CONSTANT 2
224	(E0)	SIGNED	4	CCTF4	FULLWORD CONSTANT 4
224	(E0)	X'E2'	0	CCTH4	"CCTF4+2,2,C'H'" HALFWORD CONSTANT 4

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
228	(E4)	SIGNED	4	CCTF6	FULLWORD CONSTANT 6
228	(E4)	X'E6'	0	CCTH6	"CCTF6+2,2,C'H'" HALFWORD CONSTANT 6
232	(E8)	SIGNED	4	CCTF8	FULLWORD CONSTANT 8
232	(E8)	X'EA'	0	CCTH8	"CCTF8+2,2,C'H'" HALFWORD CONSTANT 8
236	(EC)	SIGNED	4	CCTF12	FULLWORD CONSTANT 12
236	(EC)	X'EE'	0	CCTH12	"CCTF12+2,2,C'H'" HALFWORD CONSTANT 12
240	(F0)	SIGNED	4	CCTF16	FULLWORD CONSTANT 16
240	(F0)	X'F2'	0	CCTH16	"CCTF16+2,2,C'H'" HALFWORD CONSTANT 16
244	(F4)	SIGNED	4	CCTF255	FULLWORD CONSTANT 255
244	(F4)	X'F6'	0	CCTH255	"CCTF255+2,2,C'H'" HALFWORD CONSTANT 255
244	(F4)	X'F4'	0	CCT000F	"CCTF255" Fullword X'000000FF'
248	(F8)	SIGNED	4	CCTF4096	FULLWORD CONSTANT 4096
248	(F8)	X'FA'	0	CCTH4096	"CCTF4096+2,2,C'H'" HALFWORD CONSTANT 4096
252	(FC)	BITSTRING	4	CCT0FFF	FULLWORD THREE BYTE MASK
256	(100)	BITSTRING	4	CCT7FFF	FULLWORD HIGH BIT OFF MASK
256	(100)	X'100'	0	CCTFMAX	"CCT7FFF" Fullword largest + number
256	(100)	X'100'	0	CCTHMAX	"CCT7FFF,2,C'H'" Halfword largest + number
260	(104)	ADDRESS	4	CCTHIBIT(0)	Fullword high bit on
264	(108)	ADDRESS	4	CCTBADA(16)	BAD value
	SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.				
328	(148)	ADDRESS	1	CCTJSPLL	Length of JESSPOOL class
329	(149)	CHARACTER	8	CCTJSPLV	JESSPOOL class
329	(149)	X'148'	0	CCTJSPL	"CCTJSPLL,*-CCTJSPLL,C'X'" JESSPOOL SAF class
337	(151)	CHARACTER	1	CCTBDJNC	Bad job name character
338	(152)	BITSTRING	2		Reserved for future use
	HEX translate table				
338	(152)	X'64'	0	CCTXTRAN	"*-C'0',256,C'C'" Hexadecimal-to-EBCDIC
340	(154)	CHARACTER	16		translate table
	COMMUNICATION CONTROL FIELDS				
356	(164)	ADDRESS	4	CCTSSVT	SUBSYSTEM VECTOR TABLE ADDRESS
360	(168)	ADDRESS	4	CCTCADDR	ADDR OF COMMON STORAGE ADDR TBL
364	(16C)	ADDRESS	4	CCTCTABS	Addr of CPOOL tables
368	(170)	ADDRESS	4	CCTCPIDX	Addr of CSA CPOOL index
372	(174)	ADDRESS	4	CCTHCT	ADDRESS OF HASP HCT
376	(178)	ADDRESS	4	CCTHTCBA	JES2 MAIN-TASK TCB ADDRESS
380	(17C)	BITSTRING	8	CCTJSTKN	STOKEN of the JES2 addrspc, unique for this MVS IPL, see CCTASCB for ASCB addr

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
388	(184)	BITSTRING	8	CCTJXTKN	STOKEN of the JES2AUX AS see CCTXASCB for ASCB addr
396	(18C)	ADDRESS	4	CCTAMVEC	VECTOR TABLE FOR
400	(190)	ADDRESS	4		SVC111 INTERFACE
404	(194)	ADDRESS	4	CCTSSCT	ADDRESS OF SSCT
408	(198)	ADDRESS	4	CCTKAC	ADDRESS OF KAC CONTROL BLOCK
412	(19C)	ADDRESS	4	CCTSCIDS	ADDR CKPT SCID CONTROL BLCK
416	(1A0)	ADDRESS	4	CCTHAVT	JES2 ADR SPACE VECTOR TABLE
420	(1A4)	ADDRESS	4	CCTAUXCB	Addr of AUX AS Work area
424	(1A8)	ADDRESS	4	CCTXASCB	AUX address space ASCB
428	(1AC)	ADDRESS	4	CCTBMAPS	BERT translation maps
432	(1B0)	ADDRESS	4	CCTCBRT	$CATBERT pointer
436	(1B4)	ADDRESS	4	CCTDAS1	ADDRESS OF FIRST DAS
440	(1B8)	ADDRESS	4	CCTETDEF	Common PC routines ETDEFs
444	(1BC)	SIGNED	4	CCTSYSLX	JES2's system LX
448	(1C0)	ADDRESS	4	CCTIINFO	Addr of installation info for version SSI call
452	(1C4)	ADDRESS	4	CCTSINFO	Addr of system information for version SSI call
456	(1C8)	ADDRESS	4	CCTMONCB	Addr of monitor AS workarea
460	(1CC)	ADDRESS	4	CCTMASCB	Monitor address space ASCB
464	(1D0)	ADDRESS	4	CCTNITBL	NIT addr in data space
468	(1D4)	SIGNED	2	CCTNITSZ	NIT element size
470	(1D6)	SIGNED	2	CCTJQELN	Total length of a JQE
472	(1D8)	ADDRESS	4	CCTPIT	Addr of first initiator PIT
476	(1DC)	ADDRESS	2	CCTPITNM	Number of pits in CSA
478	(1DE)	ADDRESS	2		Reserved
480	(1E0)	ADDRESS	4	CCTSCATP	Pointer to SCAT
484	(1E4)	ADDRESS	4	CCTTED	Addr of Trace enablement descriptor
488	(1E8)	ADDRESS	4	CCTTOKA	Address of JES2 token
492	(1EC)	CHARACTER	1	CCTRCOMC	JES2 Reader command char
493	(1ED)	CHARACTER	1	CCTCOMCH	JES2 Command character (OS/390 command input)
494	(1EE)	BITSTRING	1	CCTDSTFL	USERDEST flags - see HCT field $DESTFLG
495	(1EF)	BITSTRING	1	CCTFLAG0	FLAG BYTE 0
		1...		CCT0EASS	"B'10000000'" Extended addressing space (EAS) has been activated. Once activated - never deactivated. Mirror of $HCT field $SPLEASS.
		.1..		CCTSTDSI	"B'01000000'" JES2 started without the NODSI PPT/SCHEDxx option
		..1.		CCTINCHK	"B'00100000'" Init deck check option
496	(1F0)	CHARACTER	4	CCTSID	Alphanumeric member name
500	(1F4)	CHARACTER	8	CCTMVSNM	MVS system name
508	(1FC)	ADDRESS	4	CCTRBGN	IOT REUSE START THRESHOLD
512	(200)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
516	(204)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE
520	(208)	ADDRESS	4	CCTINXTB	ADDRESS OF REASON INDEXTBLE

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
524	(20C)	ADDRESS	4	CCTQINDX	Address of Que Index table
528	(210)	ADDRESS	4	CCT#INDX	Address of copy of sysout class queue index
532	(214)	ADDRESS	4	CCTXMAQ	Address of XMAQENTs (XCF member status table)
536	(218)	ADDRESS	4	CCTJACCT	Addr of JES2-NET acct table
540	(21C)	ADDRESS	4	CCTNACCT	Addr of NET-JES2 acct table
CCTIPDDB DS F IOTPDDB offset for primary allocation IOT					
544	(220)	BITSTRING	4		Reserved for future use
548	(224)	ADDRESS	4	CCTASDS	ASDS data space-ptr to 1st ASDS entry
552	(228)	SIGNED	4	CCTEVTA	EVT ALET
556	(22C)	ADDRESS	4	CCTENFST	ENF stub routines
560	(230)	ADDRESS	8	CCTCDCTQ	Address of local CDCTQHDS
Data space control block (DSB) anchors					
568	(238)	ADDRESS	4	CCTDSB	Anchor for all JES2 DSBs
SPOOL constants					
572	(23C)	ADDRESS	2	CCTBFSIZ	Spool buffer size
574	(23E)	SIGNED	2	CCTNSPL	Max number of spool volumes
574	(23E)	X'23F'	0	CCTNSPB	"CCTNSPL+1,1" allowed (one byte version)
576	(240)	ADDRESS	1		Reserved for future use
577	(241)	ADDRESS	1	CCTTKCEL	TRAKCELL size in buffers
578	(242)	SIGNED	2	CCTSPLNM	Copy of $SPOLNUM from HCT (can update via command)
THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO. EACH ELEMENT IS CURRENTLY 8 BYTES LONG. SIMILIAR FIELDS ALSO EXIST IN THE $HCT AND THE $SJXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE $HCT AND $SJXB ARE ALSO UPDATED. DO NOT DELETE ANY RESERVED FIELDS IN HERE EITHER.					
580	(244)	ADDRESS	4	CCTEST1(0)	FIRST ESTIMATED COUNT TABLE
580	(244)	BITSTRING	12	(0)	Keep next 12 bytes together
580	(244)	ADDRESS	4	CCTPGINT	EST PAGE MSG INTERVAL
584	(248)	ADDRESS	1		EXECUTION PAGE OPTION
585	(249)	ADDRESS	3		RESERVED
588	(24C)	SIGNED	4		PAGE default estimate
592	(250)	BITSTRING	12	(0)	Keep next 12 bytes together
592	(250)	ADDRESS	4	CCTOTINT	EST BYTE MSG INTERVAL
596	(254)	ADDRESS	1		EXECUTION BYTE OPTION
597	(255)	ADDRESS	3		RESERVED
600	(258)	SIGNED	4		BYTE default estimate
604	(25C)	BITSTRING	12	(0)	Keep next 12 bytes together
604	(25C)	ADDRESS	4	CCTLNINT	EST LINE MSG INTERVAL
608	(260)	ADDRESS	1		EXECUTION LINE OPTION

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
609	(261)	ADDRESS	3		RESERVED
612	(264)	SIGNED	4		LINE default estimate
616	(268)	BITSTRING	12	(0)	Keep next 12 bytes together
616	(268)	ADDRESS	4	CCTPUINT	EST CARD MSG INTERVAL
620	(26C)	ADDRESS	1		EXECUTION PUNCHED CARD OPTION
621	(26D)	ADDRESS	3		RESERVED
624	(270)	SIGNED	4		PUNCH default estimate
628	(274)	BITSTRING	12	(0)	Keep next 12 bytes together
628	(274)	ADDRESS	4	CCTTMINT	XEQ TIME MSG INTERVAL
632	(278)	ADDRESS	1	CCTTIMOP	EXECUTION TIME OPTION
633	(279)	ADDRESS	3		RESERVED
636	(27C)	SIGNED	4		TIME default estimate
		END OF THE ESTIMATED COUNT FIELDS DEFAULT PRIORITY TABLE FOR ESTIMATED ELASPED TIME. EACH TABLE ENTRY CONSISTS OF TWO FIELDS. THE FIRST FIELD IS THE PRIORITY FOR THE INTERVAL AND THE SECOND FIELD DEFINES THE SIZE OF THE INTERVAL.			
640	(280)	BITSTRING	40	CCTIMETB(0)	ESTIMATED TIME PRIORITY TABLE
640	(280)	ADDRESS	1		FIRST INTERVAL
644	(284)	ADDRESS	1		SECOND INTERVAL
648	(288)	ADDRESS	1		THIRD INTERVAL
652	(28C)	ADDRESS	1		FOURTH INTERVAL
656	(290)	ADDRESS	1		FIFTH INTERVAL
660	(294)	ADDRESS	1		SIXTH INTERVAL
664	(298)	ADDRESS	1		SEVENTH INTERVAL
668	(29C)	ADDRESS	1		EIGHTH INTERVAL
672	(2A0)	ADDRESS	1		NINTH INTERVAL
676	(2A4)	ADDRESS	4		
		Copies of HCT fields needed for input processing			
680	(2A8)	BITSTRING	1	CCTROPTS	JES2 run options ($RUNOPTS)
681	(2A9)	BITSTRING	1	CCTJOPTS	Job card options ($RJOBOPT)
682	(2AA)	ADDRESS	1	CCTLINCT	Max line per page ($LINECT)
683	(2AB)	BITSTRING	1	CCTJOPT2	Job options ($RJOBOP2)
684	(2AC)	CHARACTER	8	CCTSTFRM	Standard forms ($STDFORM)
692	(2B4)	ADDRESS	3	CCTTO(0)	OWN NODE INFORMATION
692	(2B4)	ADDRESS	2	CCTTONOD	OWN NODE ID (BINARY)
694	(2B6)	ADDRESS	1	CCTTOQUL	Own node system ID (binary)
695	(2B7)	CHARACTER	9	CCTNDE(0)	Node name and length
695	(2B7)	BITSTRING	1	CCTNDENL	Actual length of node name
696	(2B8)	CHARACTER	8	CCTNDENM	NODE NAME
704	(2C0)	ADDRESS	2	CCTNONOD	MAXIMUM NODE NUMBER
706	(2C2)	ADDRESS	2	CCTROUT	HIGHEST DEFINED RJE
708	(2C4)	ADDRESS	4	CCTPCT	PCT address
712	(2C8)	ADDRESS	4	CCTRRT	ADDR OF RMT ROUTING EQUIV TABLE
716	(2CC)	ADDRESS	4	CCTRDT	ADDRESS OF REMOTE DESTINATION TABLE

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
720	(2D0)	ADDRESS	4	CCTRDTA	ALET for RDT data space
724	(2D4)	ADDRESS	4	CCTNITA	ALET for NIT data space
728	(2D8)	ADDRESS	4	CCTIRSMD	Storage for IR IRIS models
732	(2DC)	ADDRESS	4	CCTBATMD	Address of the BATCH internal reader model IRIS
736	(2E0)	ADDRESS	4	CCTSBJMD	Address of the submit job internal reader model IRIS
740	(2E4)	ADDRESS	4	CCTSTCMD	Address of the STC internal reader model IRIS
744	(2E8)	ADDRESS	4	CCTTSOMD	Address of the TSO internal reader model IRIS
748	(2EC)	ADDRESS	4	CCTREQJI	Request jobid specification
752	(2F0)	ADDRESS	4	CCTXITA	ADDRESS OF XIT TABLE
756	(2F4)	ADDRESS	4	CCTTPHZ	Address of Job Phase text table
760	(2F8)	ADDRESS	4	CCTTDLY	Address of job delay text table
		EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. CCTFLAG6 must be kept in sync with: $FLAG6 in the HCT PDBEVTLS in the PDDB NJH2FLG2 in the NJE job header			
764	(2FC)	BITSTRING	1	CCTFLAG6	FLAG BYTE 6 ($FLAG6)
		1...		CCT6ESMF	"B'10000000'" Suppress EVENTLOG SMF rec
		..1.		CCT6ERST	"B'00100000'" Suppress EVENTLOG RESTART
		...1		CCT6ETRC	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		CCT6EUSR	"B'00001000'" Suppress EVENTLOG USER rc
765	(2FD)	BITSTRING	1	CCTKFCF7	FLAG BYTE 7 ($KFCFLG7)
		1...		CCT7EVTW	"B'10000000'" Suppress EVENTLOG writes
		.1..		CCT7NNJE	"B'01000000'" Suppress non-printable data sets on NJE
766	(2FE)	BITSTRING	1	CCTFLAGA	FLAG BYTE 10 ($FLAGA)
		1...		CCTAENCS	"B'10000000'" Encryption support has been activated at least once. Once set, down level MAS members (<2.4) may not join. Once set never unset
		.1..		CCTAENCA	"B'01000000'" Data set encryption is allowed.
767	(2FF)	BITSTRING	1		Reserved
		JECL validity vectors			
768	(300)	ADDRESS	4	CCTJVSTC	Addr STC JECL validity tbl
772	(304)	ADDRESS	4	CCTJVTSU	Addr TSU JECL validity tbl
776	(308)	ADDRESS	4	CCTJVJOB	Addr JOB JECL validity tbl
780	(30C)	SIGNED	4	CCTSEGLM	SEGMENT LIMIT FOR A GIVEN SYSOUT DATA SET
784	(310)	SIGNED	4	CCTSPLCL	MAX SPECIAL LOCAL ROUTE
788	(314)	SIGNED	4	(0)	Align HFAME's

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
788	(314)	CHARACTER	72	CCTCKPT1	CKPT1 HFAME
860	(35C)	CHARACTER	1	CCTCKPT2	CKPT2 HFAME
	MAIN TASK AUTHORIZATION INDEX FOR CROSS MEMORY				
932	(3A4)	SIGNED	4	CCTAXL(0)	AUTHORIZATION INDEX (AX) LIST
932	(3A4)	SIGNED	2	CCTAXN	NUMBER OF AXS REQUESTED
934	(3A6)	SIGNED	2	CCTAXV	VALUE (AX) RETURNED BY AXRES
	DATA BLOCKS				
896	(380)	X'380'	0	CCTDCB	"*" SYS1.HASPACE DCB
936	(3A8)	ADDRESS	4	(3)	12-BYTE MEAT OF DCB
948	(3B4)	ADDRESS	4	CCTDEBFX	Ptr to JES2 CSA DA DEB prefix template
	SWB MANAGEMENT				
952	(3B8)	ADDRESS	4	CCTKEYTB	ADDRESS OF KEYLIST TABLE
960	(3C0)	DBL WORD	8	CCTJDVT	SJF JDVT NAME
	XCF Group token				
968	(3C8)	ADDRESS	4	CCTIXVT	XCF Group token
972	(3CC)	CHARACTER	8	CCTGPNM	XCF group name
	ECB extensions (HAM and general processing)				
980	(3D4)	ADDRESS	4	CCTSDADR(0)	Address of ECB extension with bits on indicating initialized
984	(3D8)	SIGNED	4	CCTSDECX(0)	ECB Extension for $EXCP <-- issued in USER environ. | that uses a $SDB |
988	(3DC)	ADDRESS	4	CCTSDPEX	"V(HAMPSTER)" EXCP Post Exit address in | USER environment <--
992	(3E0)	ADDRESS	4	CCTGRADR(0)	Address of ECB extension with bits on indicating initialized
996	(3E4)	SIGNED	4	CCTGRECX(0)	ECB Extension used to <-- invoke routines when | the ECB is posted |
1000	(3E8)	ADDRESS	4	CCTGRPEX	"V($ECBEXIT)" ECB Posting validation | and processing routine <--
	Keep the EBCDIC level and binary product/service levels together. The field SSCTSUSE points to the field CCTSUSE.				
1004	(3EC)	BITSTRING	10	CCTJES2_LEVEL(0)	<-+ Level information
1004	(3EC)	CHARACTER	8	CCTLEVEL	| OS V.R.M, product version | of JES2, copy of $LEVEL, | pointed to by SSCTSUSE
1012	(3F4)	ADDRESS	1	CCTPLVL	| Binary product level
1013	(3F5)	ADDRESS	1	CCTSLVL	<-+ Binary service level
1014	(3F6)	BITSTRING	1	CCTMON#	Monitor AS number
1015	(3F7)	BITSTRING	1		Reserved for future use
1016	(3F8)	ADDRESS	4	(5)	Reserved for future use
	GENERIC GROUPING KEY LISTS.				

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1036	(40C)	SIGNED	2	CCTGGDKN	NUMBER OF GROUPING KEYS FOR SYSTEM-DEFAULT JDVT
1038	(40E)	CHARACTER	2	CCTGGRSV	RESERVED FOR FUTURE USE
1040	(410)	ADDRESS	4	CCTGGDKL	ADDRESS OF KEY LIST FOR SYSTEM-DEFAULT JDVT
1044	(414)	ADDRESS	4	CCTGGDKB	ADDRESS OF KEY LIST BLOCK FOR SYSTEM-DEFAULT JDVT
1048	(418)	ADDRESS	4	CCTGGFKB	ADDRESS OF KEY LIST BLOCK FOR FIRST NON-DEFAULT JDVT
		Declare the major name and field to hold this subsystem's name for ENQ/DEQ use of the CSA cell fields. Next five fields must be kept together (CCTQNAM to CCTSSVS)			
1052	(41C)	CHARACTER	8	CCTQNAM(0)	QNAME FOR ALL HASP ENQS
1052	(41C)	CHARACTER	4		'SYSZ'
1056	(420)	CHARACTER	8	CCTSNV(0)	Jes name and version
1056	(420)	CHARACTER	4	CCTSSNM	Name of subsystem
1060	(424)	CHARACTER	4	CCTSSVS	Version, release, mod
1064	(428)	BITSTRING	1	CCTSSNML	Holds actual length of subsystem name in CCTSSNM field
1065	(429)	BITSTRING	3		Reserved
1068	(42C)	BITSTRING	8	CCTCOLDT	Cold start time (used as a unique JESPLEX identifier)
1076	(434)	CHARACTER	4	CCTESSNM	Emergency subsystem name
1080	(438)	ADDRESS	4	CCTESCVT	Address of Emergency subsystem Communication Vector table (SCVT)
1084	(43C)	ADDRESS	4	CCTESSVT	Emergency subsystem SSVT
		MINOR RESOURCE NAME FOR INTERNAL READER RESOURCE			
1088	(440)	CHARACTER	8	CCTRDRSC	Minor name for internal reader resource
		Minor resource name for ENQ/DEQ of SVJ Lock			
1096	(448)	CHARACTER	8	CCTSVJLK	RNAME name for SVJ lock resource
		Minor resource name for ENQ/DEQ of SAPID lock			
1104	(450)	CHARACTER	8	CCTSAPLK	RNAME name for SAPID lock resource
		Table pair for user environment $BLDMSG calls Note: There is no JES2 table pair for this; the HASP TABLEs are implemented as DYNAMIC tables so both the main task and user environment tables can be pointed to by the main MCT table pair.			
1112	(458)	ADDRESS	4	CCTMGTP(0)	USER ENVIRONMENT $BLDMSG
1112	(458)	ADDRESS	4	CCTMGTU	"V(USERMGT)" User table
1116	(45C)	ADDRESS	4		HASP table
1120	(460)	ADDRESS	4	CCTMGTD	Dynamic table array
		RETURN CONTROL ELEMENTS			
1126	(466)	ADDRESS	2		RESERVED FOR FUTURE USE

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Routines for $XMPOSTX service. These stubs save the caller's registers, sets up the HCCT address in R11, and links to the appropriate service.			
		LARL R11,HCCT Get HCCT address			
1132	(46C)	BITSTRING	20		
1146	(47A)	X'14'	0	CCTXMSRL	"*-CCTXMSRB" Length of area
		LARL R11,HCCT Get HCCT address			
1152	(480)	BITSTRING	20		
1166	(48E)	X'14'	0	CCTXMRML	"*-CCTXMRMT" Length of area
1168	(490)	ADDRESS	4	CCTSTUBA	CCTSTUB pointer (more stub routines
1172	(494)	ADDRESS	4	CCTXCBF	Cross system data retrieval work area
1176	(498)	CHARACTER	8	CCTXNODE	Nodename when JESXCF attach was done (in our member name)
1184	(4A0)	BITSTRING	28	CCTJXCFD	JESXCF diagnostic area
1212	(4BC)	BITSTRING	1	CCTXSTS1	JES2AUX services flags (Use OIL/NIL to update)
		1...		CCTX1AVL	"B'10000000'" Cross-system data task was available at least once since JES2 start
		.1..		CCTX1INI	"B'01000000'" Cross-system data task is ready for use
		..1.		CCTX1GLA	"B'00100000'" Jobgroup logging task was available at least once since JES2 start
		...1		CCTX1GLI	"B'00010000'" Jobgroup logging task is ready for use
1213	(4BD)	BITSTRING	1	CCTEDSSF	Email services flags:
		1...		CCTEDISA	"B'10000000'" EDS not avail in MAS
		.1..		CCTEDISM	"B'01000000'" EDS not avail on this mbr
1214	(4BE)	BITSTRING	1	CCTRESIL	Resiliency flags:
		1...		CCTRESPL	"B'10000000'" MAS is experiencing a SPOOL shortage and all non-PRIV jobs must wait for shortage to abate
		.1..		CCTPROMO	"B'01000000'" PRIV support has given green light for non-priv jobs to use priv TGs. Only valid if shortage exists.
		..1.		CCTLIMP	"B'00100000'" PRIV small environment and KBLOB fill for this member is running in limp mode. See KBLOB for details.
		...1		CCTLNOS4	"B'00010000'" No non-priv waiters - STRAK or TRAK at KBLOB step #4
1215	(4BF)	BITSTRING	1	CCTPRVRE	In limp mode this is number of TGBs to be reserved for privileged jobs.
1216	(4C0)	CHARACTER	8	CCTFMID	JES2 FMID
1224	(4C8)	SIGNED	4	CCTJQENM	Copy of $JQENUM (# of JQEs)
1228	(4CC)	ADDRESS	4	CCTZGLA	Jobgroup logging task work area
1232	(4D0)	BITSTRING	4	CCTJ2CL	JES2 JECL options (copy of $J2CLOPT)
1236	(4D4)	BITSTRING	4	CCTJ3CL	JES2 JECL options (copy of $J3CLOPT)

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1240	(4D8)	ADDRESS	8	CCTCK64	4K pages 64 bit area
1248	(4E0)	SIGNED	8	CCTCK64L	Segments for 4K page area
1256	(4E8)	DBL WORD	8	CCTCKSTK	Token for 4K memory object
1264	(4F0)	SIGNED	4	CCTGCNUM	Copy of $CONJNUM (maximum number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set).
1268	(4F4)	SIGNED	4	CCTGJNUM	Copy of $ZODJNUM (maximum number of jobs allowed to be defined in a JOBGROUP)
1272	(4F8)	ADDRESS	4	CCTEDSA	Email delivery services work area
1276	(4FC)	SIGNED	4	CCTLMDCT	Count of LMDs on chain
1280	(500)	ADDRESS	8	CCTLMDAD	Current LMD pointer
1288	(508)	ADDRESS	8	CCTLMDLS	Last LMD pointer
1296	(510)	ADDRESS	8	CCTLMDSM	LMD pending write by SMF
1304	(518)	CHARACTER	8	CCTSNVRR	Subsys name and versn for RACROUTE
1312	(520)	ADDRESS	8	CCTCPIC	Current CKPINFO block (64 bit JES2 private)
1320	(528)	SIGNED	4	CCTLMFR	Number of available TGS in BLOB. Only valid in limp mode. See KBLOB for details.
1324	(52C)	SIGNED	4		Reserved
1328	(530)	ADDRESS	8	CCTPCYHD	Policy header structure (64 bit common)
		End of Read only (or rarely updated) fields ORG to the next 256 byte memory cache line. This keeps read only fields on a separate cache line from frequently updated fields. NOTE: The ORG to the next 256 byte memory cache line also creates reserved bytes that can be used by the service team to maintain JES2. NOTE: Since the HCCT is obtained on a 256 byte boundary and it starts with a CSA prefix that is not in the HCCT, we need to account for the CSA prefix when rounding.			
		Start of often updated HCCT fields USER COMMON STORAGE FIELDS.			
1528	(5F8)	ADDRESS	4	CCTCUCT	Common user communication table
1532	(5FC)	ADDRESS	4	CCTUCADD	Addr of user common addr table
1536	(600)	ADDRESS	4	CCTUSER1	User field one
1540	(604)	ADDRESS	4	CCTUSER2	User field two
1544	(608)	ADDRESS	4	CCTUSER3	User field three
1548	(60C)	ADDRESS	4	CCTUSER4	User field four
1552	(610)	ADDRESS	4	CCTHASP	HASP condition = 0 - Still up = -1 - ABENDed or ABENDing = +1 - $PJES2 accepted
1552	(610)	X'1'	0	CCTPJES2	"1" $PJES2 accepted
		1...		CCTHOTST	"X'80'" Hot Start Indicated
1552	(610)	BITSTRING	0	CCTABEND	"X'FFFFFFFF'" JES2 has abended
1556	(614)	BITSTRING	1	CCTSTUS	Subsystem status byte
		1...		CCTSTUSP	"X'80'" This is the primary subsystem
		.1..		CCTSTUST	"X'40'" HASP termination complete
		..1.		CCTSTUSR	"X'20'" HASP is restarting

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CCTSMVFN	"X'10'" SPOOL fencing active
		.... 1...		CCTSTIRV	"X'08'" CHKPT device reserved by INIT
		.... .1..		CCTSTPJF	"X'04'" $PJES2,ABEND,FORCE issued
		.... ..1.		CCTSLGDS	"X'02'" Large SPOOL DS support act
		1		CCTSTRPL	"X'01'" A re-IPL is required
1557	(615)	BITSTRING	1		Reserved
1558	(616)	SIGNED	2	CCTMASVR(0)	Versions active in JESplex (copy of $MASVER)
1558	(616)	SIGNED	1	CCTHIGHV	Highest active JES2
1559	(617)	SIGNED	1	CCTLOWV	Lowest active JES2
1560	(618)	DBL WORD	8	(0)	Doubleword align next
1560	(618)	BITSTRING	16	CCTJ2WAT	Time of last main task wait
1576	(628)	BITSTRING	16	CCTJ2DSP	Time of last main task post
1592	(638)	BITSTRING	4	CCTMEMUP	Copy of XMAMEMUP (members that HASPXCF considers up)
1596	(63C)	ADDRESS	4	CCTRCPCQ	Remote Console Processor FIFO CSA CMB queue
1600	(640)	ADDRESS	4	CCTINTRE	Address of first INTRDR element (IRE)
1604	(644)	ADDRESS	1	CCTMVER	Checkpoint level ($MSTRVER)
1605	(645)	BITSTRING	1	CCTFLAG1	FLAG BYTE
		1...		CCT1PJ2T	"B'10000000'" $PJES2,TERM processing has started
		.1..		CCT1PRDF	"B'01000000'" PREFIX DEFINED
		..1.		CCT1SSYS	"B'00100000'" CONDEF SCOPE=SYSTEM
		...1		CCT1SSYP	"B'00010000'" CONDEF SCOPE=SYSPLEX
		.... 1...		CCT1CKWI	"B'00001000'" Checkpoint write is in progress
		.... .1..		CCT1PJSA	"B'00000100'" $PJES2,ABEND issued
		.... ..1.		CCT1PJAC	"B'00000010'" $PJES2,ABEND seen
		1		CCT1E58D	"B'00000001'" ENF 58 debug option (internal)
1606	(646)	BITSTRING	1	CCTFLAG2	Flag byte #2 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT2IRDR	"B'10000000'" Internal readers can be allocated
		.1..		CCT2BATR	"B'01000000'" Internal readers can be used to submit BATCH jobs
		..1.		CCT2PITC	"B'00100000'" PIT(s) with no SJB need to be cleaned up
		...1		CCT2CRCF	"B'00010000'" CKPT RECONFIG is pending or is in progress
		.... 1...		CCT2OPRQ	"B'00001000'" Operator requested CKPT reconfiguration
		.... .1..		CCT2SAPI	"B'00000100'" SAPID scan needed
		.... ..1.		CCT2USJB	"B'00000010'" One or more SJBs have unspun IOTs to be processed
		1		CCT2PSO	"B'00000001'" PSO scan needed
1607	(647)	BITSTRING	1	CCTFLAG9	Flag byte #9
		1...		CCT9NOPR	"B'10000000'" There are non-priv $TRACK waitors

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CCT91STK	"B'01000000'" 1st call to KBLOB within this checkpoint cycle. Up to user to reset this field after use.
1608	(648)	BITSTRING	1	CCTFLAG3	Flag byte #3 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT3CONI	"B'10000000'" CONSOLE address space environment initialized
		.1..		CCT3CONT	"B'01000000'" CONSOLE address space environment termination requested
		..1.		CCT3INDM	"B'00100000'" System is in independent mode
		...1		CCT3NHSB	"B'00010000'" An SJB has been newly removed from the HASB
		.... 1...		CCT3NEOM	"B'00001000'" An SJB has been newly placed on the EOM queue
		.... .1..		CCT3PJ2T	"B'00000100'" $P JES2,TERM has begun
		.... ..1.		CCT3MCJC	"B'00000010'" At least 1 multi char batch jobclass exists
		1		CCT3AUTO	"B'00000001'" CYCLEMGT=AUTO
1609	(649)	BITSTRING	1	CCTFLAG4	Flag byte #4 JES2 health check indicators
		1...		CCT422OK	"B'10000000'" 2.2 CKPT Mode activation already occurred
		.1..		CCT4REC1	"B'01000000'" CKPT1 needs additional 4K records = see CCTHCRC1
		..1.		CCT4REC2	"B'00100000'" CKPT2 needs additional 4K records - see CCTHCRC2
		...1		CCT4BERT	"B'00010000'" Additional BERTS needed - see CTTHCBRT
		.... 1...		CCT4CYLM	"B'00001000'" CYL_MANAGED support needs to be active
		.... .1..		CCT4MBR	"B'00000100'" One or more MAS members not at z/OS 2.2
		.... ..1.		CCT4JOBQ	"B'00000010'" JOB/OUTPUT queue error prevents both Z11 and Z22 activation.
		1		CCT4CRBR	"B'00000001'" Critical BERT shortage prevents both Z11 and Z22 activation.
1610	(64A)	BITSTRING	1	CCTFLAG5	Flag byte #5 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT5DSRG	"B'10000000'" Large dataset name range enabled
		.1..		CCT5PSTV	"B'01000000'" New CKPT version needed
		..1.		CCT5ENFJ	"B'00100000'" Send ENF 58/70/78 to JESplex only
		...1		CCT5OMVA	"B'00010000'" OMVS is currently active
		.... 1...		CCT5OMVC	"B'00001000'" OMVS status has changed
1611	(64B)	BITSTRING	1	CCTTEST	Reserved for IBM testing
		1...		CCTTENF	"B'10000000'" Simulate ENF failure
1612	(64C)	BITSTRING	1	CCTDEBUG	Debug options ($DEBGOPS)
1613	(64D)	BITSTRING	1	CCTDEBG2	2nd debug opt ($DEBGOP2)
1614	(64E)	BITSTRING	1		Reserved

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CCTFLAGJ is sent in the JESXCF status update message to all MAS members. Fields defining these bits are: JPX2STA3, XMAQSTA3, and XRESFLG2			
1615	(64F)	BITSTRING	1	CCTFLAGJ	Additional status flags
		1...		CCTJTRCK	"B'10000000'" A TRACK exists for member
		.1..		CCTJALRT	"B'01000000'" An ALERT exists for member
		..1.		CCTJNTCE	"B'00100000'" A NOTICE exists for member
		...1		CCTJCRIT	"B'00010000'" at least 1 is critical
		CONSOLE SERVICE ELEMENTS			
1616	(650)	BITSTRING	4	CCTCKCON	Console ID for operator requested CKPT reconfig.
1620	(654)	SIGNED	4	CCTDOM86	DOM ID for HASP086
1624	(658)	ADDRESS	4	CCTCOMMQ	COMMAND PROCESSOR QUEUE
1628	(65C)	SIGNED	4	CCTCOMCT	In use count for commands
1632	(660)	SIGNED	4	CCTCMDMX	Maximum number of commands (CMDNUM on CONDEF)
1636	(664)	SIGNED	4	CCTNMCUR	Current number notify CMBs
1640	(668)	SIGNED	4	CCTNMMAX	Maximum no.of notify CMBs
1644	(66C)	SIGNED	4	CCTNMFAL	No. of NOTIFY failures
1648	(670)	ADDRESS	4	CCTCMQTP	Command processing queue from JECL (INTRDRs)
1652	(674)	BITSTRING	4	CCTMEMAT	Copy of XMAMEMAT
1656	(678)	ADDRESS	4	CCTPRASC	PRIV job ASCB
1660	(67C)	ADDRESS	4	CCTPRECB	ECB - PRIV job needs TG and shortage exists
		CROSS-SYSTEM REQUESTS CONTROL INFORMATION. THIS MUST BE MAINTAINED WITH COMPARE AND SWAP. NEW CROSS-SYSTEM REQUESTS ACCEPTED INDICATOR AND COUNT OF CROSS SYSTEM SERVICE REQUESTS (SPOOL DATA SET BROWSE AND JOB INFORMATION SERVICES). INITIALIZED BY HASPIRMA.			
1664	(680)	DBL WORD	8	CCTXSYS(0)	DOUBLE WORD FOR CDS
1664	(680)	BITSTRING	3		RESERVED FOR IBM USE
1667	(683)	BITSTRING	1	CCTXSYSF	CROSS-SYSTEM REQUESTS ACCEPTED FLAG
		1		CCTNXSYS	"X'01'" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED
1668	(684)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S
		$$POST ELEMENTS -- REQUESTS FOR PCE SERVICE These post elements match order of PCEs listen in HCT. Any change made here must also be reflected in HCT.			
1672	(688)	DBL WORD	8	CCTECF(0)	ECF FIELD FOR $$POST, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE $POSTED
1680	(690)	ADDRESS	4	CCTPCEPE(0)	START OF PCE $$POST ELEMENTS
1680	(690)	BITSTRING	5	CCTCOMM	$COMMPCE - commands
1684	(694)	BITSTRING	5	CCTJOB	$EXECPCE - XEQ services
		1...		CCTJOBPF	"X'80'" Job post flag

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1688	(698)	BITSTRING	5	CCTASYNC	$ASYNPCE - asynch I/O
1692	(69C)	BITSTRING	5	CCTXSTIM	$XTIMPCE - time excession
1696	(6A0)	BITSTRING	5	CCTTIMER	$TIMEPCE - STIMER
1700	(6A4)	BITSTRING	5	CCTTRPCE	$TRCPCE - event trace log
1704	(6A8)	BITSTRING	5	CCTSPOOL	$SPOLPCE - SPOOL
1708	(6AC)	BITSTRING	5	CCTMLLM	$MLLMPCE - line manager
1712	(6B0)	BITSTRING	5	CCTOFFM	$SOMPCE - SPOOL offload
1716	(6B4)	BITSTRING	5	CCTCKPTP	$CKPTPCE - checkpoint
1720	(6B8)	BITSTRING	5	CCTRCP	$MCONPCE - Remote Console
1724	(6BC)	BITSTRING	5	CCTSSPCE	$SFSPCE -Schedulr Service
1728	(6C0)	BITSTRING	5	CCTENFP	$ENFPCE - ENF listen PCE
1732	(6C4)	BITSTRING	5	CCTJQRP	$JQRPCE - JQE request PCE
1736	(6C8)	BITSTRING	5	CCTMISC	$MISCPCE - Miscellaneous
1736	(6C8)	X'F'	0	CCTPCENO	"(*-CCTPCEPE)/4" Number of PCE $$POST elmts
1740	(6CC)	BITSTRING	5	CCTPCEFL	Reserved
1744	(6D0)	BITSTRING	5		Reserved

```
        CHAINING FIELD FOR THE CSA CELL SERVICES. $GETCEL AND $FRECEL
          IN HASCLINK. ALSO, THE CELL STORAGE ALLOCATED AND CELL
          STORAGE ALLOCATED BUT NOT IN USE FIELDS.
```

1748	(6D4)	ADDRESS	4	CCTCSACH	CSA CELL CHAIN HEADER
1752	(6D8)	SIGNED	4	CCTCALLC	CSA ALLOCATED CELL STORAGE
1756	(6DC)	SIGNED	4	CCTCFREE	CSA FREE CELL STORAGE

```
        Communication queues and WAIT/POST elements for
        main task communication with user address spaces.
        Cross-memory POST parameter list for use by $$POST.
        The ECB address actually points to a piece of fixed
        CSA containing the ECB, CCTPOSTW, and CCTBLANKs.
CTPOSTE POST - , POST word 1 = main task ECB addr
              ASCB= - , POST word 2 = JES2 ASCB addr
              ERRET=CCTBR14 POST word 3 = CCTBR14
              ECBKEY=YES POST word 4 = Key of ECB
        MACDATE 12/25/13
```

1760	(6E0)	ADDRESS	4	CCTPOSTE	. 1ST WORD - ECB ADDRESS
1764	(6E4)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
1768	(6E8)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
1772	(6EC)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
1772	(6EC)	X'6E0'	0	CCTHECBA	"CCTPOSTE" ADDRESS OF MAIN HASP ECB
1772	(6EC)	X'6E4'	0	CCTASCB	"CCTPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
1772	(6EC)	X'6EC'	0	CCTHECBK	"CCTPOSTE+12,1" Storage key of HASP ECB
1772	(6EC)	X'4'	0	CCTPOSTW	"4" OFFSET TO $$POST WORK INDICATOR
1772	(6EC)	X'8'	0	CCTBLANK	"8" 48 FIXED BLANKS
1772	(6EC)	X'38'	0	CCTFIXL	"4+1+3+48" LENGTH OF FIXED CSA SPACE
1776	(6F0)	SIGNED	4	(0)	Align CCTCGECB
1776	(6F0)	BITSTRING	1	CCTCGECB	CSA general ECB/XECB

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The SJB job communication queues. HASCSRJB is dependent on any SJB queue that could be a valid value for the SJBQUEUE field in the SJB to be between CCTSJBB and CCTSJBE.			
1800	(708)	ADDRESS	4	CCTSJBB(0)	Beginning of SJB queues <----
1800	(708)	ADDRESS	4	CCTJPCLS	SJBS PENDING JOB-BY-CLASS |
1804	(70C)	ADDRESS	4	CCTJPWLM	SJBS PENDING WLM init |
1808	(710)	ADDRESS	4	CCTJPNUM	SJBS PENDING JOB-BY-NUMBER |
1812	(714)	ADDRESS	4	CCTJXCLS	SJBS EXECUTING JOB-BY-CLASS |
1816	(718)	ADDRESS	4	CCTJXNUM	SJBS EXECUTING JOB-BY-NUMBER|
1820	(71C)	ADDRESS	4	CCTJTERM	SJBS WITH JOBS TO TERMINATE |
1824	(720)	ADDRESS	4	CCTJRENQ	SJBS WITH JOBS TO RE-ENQUEUE|
1828	(724)	ADDRESS	4	CCTSJBE(0)	End of SJB queues <----
1828	(724)	ADDRESS	4	CCTJTEOM(2)	Address of first and last SJB on EOM queue
		CCTMSMPC is the current sampling buffer being used by the monitor. CCTMSMPS is a frozen sampling buffer captured for dump processing. Under normal processing CCTMSMPC and CCTMSMPS point to the same buffer. To freeze a buffer, clear CCTMSMPC. The monitor will get another buffer for processing. To release a frozen buffer, clear CCTMSMPS. The next sample will reset CCTMSMPS.			
1836	(72C)	ADDRESS	4	CCTMSMPC	Cur monitor sampling buffer
1840	(730)	ADDRESS	4	CCTMSMPS	Frozen sampling buffer
1844	(734)	SIGNED	4	CCTJLMAX	Local maximum job number (from $JNT)
1848	(738)	SIGNED	4	CCTSLKST	Number of times $SJBLOCK was stolen - update using CS logic
1852	(73C)	SIGNED	4	CCTSLKUS	Number of times $SJBLOCK was usurped - update using CS logic
1856	(740)	SIGNED	4	CCTDGBRT	Number of times BERTREAD (DGBMVBRT) gives up retry. Update using CS logic
1860	(744)	SIGNED	4	CCTBEGN	Number of times $SSIBEGN removed stale HASBs - update using CS logic
1864	(748)	ADDRESS	4	CCTCSHED	Head of STAC FIFO queue
1868	(74C)	ADDRESS	4	CCTCSTAI	Tail of STAC FIFO queue
1872	(750)	ADDRESS	4	CCTPSO	Head of PSO LIFO queue
1876	(754)	ADDRESS	4	CCTPSOQ	Addr of MTQH for PSO
1880	(758)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1884	(75C)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1888	(760)	SIGNED	4	CCTFIFON	Nr of entries in CCTFIFOQ
1892	(764)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1896	(768)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1896	(768)	ADDRESS	4	CCT1SAP	Address of first SAPID in | the SAPID data space |
1900	(76C)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1904	(770)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPID
1908	(774)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1912	(778)	ADDRESS	4	CCTTINA	Address of TINA (WTO D S)
1916	(77C)	SIGNED	4	CCTTINAA	ALET for TINA (WTO D S)

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1920	(780)	ADDRESS	4	CCTIOERR	SPOOL PROCESSOR I/O ERROR QUEUE
1924	(784)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue
1928	(788)	ADDRESS	4	CCTPAD	Head of PROCLIB PAD queue
1932	(78C)	ADDRESS	4	CCTCIP	Head of CIPARM area queue
1936	(790)	ADDRESS	4	CCTCICB	Head of CICB queue
1940	(794)	SIGNED	4	CCTPRVTG	Number of privledge track groups consumed since last accumulation.
1944	(798)	SIGNED	4	(2)	Reserved
		Following fields contain the queue heads and counts for resource management of Scheduler Facility Service SFRBs acquired in ECSA. The CCTSFREQ/CCTSSRCT fields are serialized using CDS and must be kept in a doubleword.			
1952	(7A0)	DBL WORD	8	CCTSFREQ(0)	Scheduler Facilty Request Q
1952	(7A0)	ADDRESS	4		Request queue header
1956	(7A4)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1960	(7A8)	ADDRESS	4	CCTSFPNQ	Scheduler Facilty Pending Q
1964	(7AC)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1968	(7B0)	ADDRESS	4	CCTSFPRQ	Scheduler Facilty Process Q
1972	(7B4)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1976	(7B8)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1980	(7BC)	BITSTRING	1	CCTSSTAT	Status flag for Sched.Serv
		1...		CCTSSDWN	"B'10000000'" Scheduler PCE disabled
		.1..		CCTSSDIS	"B'01000000'" Scheduler PCE disabling
1981	(7BD)	BITSTRING	1	CCTFLAG8	Flag byte #8 For proper serialization updates to this field should be done via an OIL/NIL.
		1		CCT8ENFD	"B'00000001'" An ENF RC=8 dump has been taken
1982	(7BE)	ADDRESS	2		Reserved for future IBM use
1984	(7C0)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN
		SPOOL DATA MANAGEMENT			
1988	(7C4)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR $STRAK AND $TRACK
		CCTPDDB1 DC A(-) OFFSET WITHIN IOT OF 1ST PDDB			
1992	(7C8)	BITSTRING	4		Reserved for future use
		CCTTGAEL DC A(-) TGAE AREA LENGTH FOR A NON-SPIN PRIMARY ALLOCATION IOT			
1996	(7CC)	BITSTRING	4		Reserved for future use
2000	(7D0)	SIGNED	2	CCTNBUFX	Copy of $NUMBUFX from HCT (can update via command)
2002	(7D2)	BITSTRING	1	CCTSPLF1	SPOOL status flags
		1...		CCTS1FUL	"B'10000000'" Spool volumes are full
2003	(7D3)	BITSTRING	5		Reserved
2008	(7D8)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2008	(7D8)	BITSTRING	32	CCTMTSPL	SPOOLS WHICH HAVE SPACE
2040	(7F8)	BITSTRING	32	CCTSPLAF	Spools with affinity for this member
2072	(818)	BITSTRING	32	CCTVBLOB	Spools with space in the BLOB
2104	(838)	BITSTRING	12	CCTTGBA(0)	TGB VALUES FOR BLOB
2104	(838)	ADDRESS	4	CCTTGBF	FIRST TGB ENTRY ADDRESS
2108	(83C)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
2112	(840)	ADDRESS	4	CCTTGBL	Last TGB entry
2116	(844)		4	CCTBYTS	Bytes of spool (FP value)
2120	(848)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER - non- privilege jobs
2121	(849)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
2122	(84A)	BITSTRING	1	CCTNQCNP	SPOOL ENQ COUNTER - priviledge jobs
2123	(84B)	BITSTRING	1		Reserved for future use
2124	(84C)	SIGNED	4	CCTTGDEF	Number of defined TGs ($TGDEFND)
2128	(850)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
2128	(850)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB
2132	(854)	ADDRESS	4	CCTTGECB	TGB REQUEST ECB
2136	(858)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
2140	(85C)	ADDRESS	4	CCTPJCLQ	Address of main task queue header for PJCL requests
				The following 2 fields can be used in conjunction with the QSESITIM field on a HOT start to determine if a CKPT write has completed. CCTCKTAC is a copy of $CKPTOAC and represents the active CKPT write. CCTCKTNX is a copy of $CKPTONX and represents the next checkpoint write. CCTSITIM is a copy of QSESITIM and represents when the current write started. Assuming this is a hot start and you have a CKPT token from before JES2 went down, then the following logic will tell you if the write actually completed. - If TOKEN ¬= CCTCKTAC and TOKEN ¬= CCTCKTNX then the write has completed - If TOKEN = CCTCKTNX then the write never started and the CKPT did not happen - If TOKEN = CCTCKTAC then the write started. To determine if it actually completed, check QSESITIM (in the $QSE in $INIWARM) - If CCTSITIM = QSESITIM then the write completed - If CCTSITIM ¬= QSESITIM then the write never happened.	
2144	(860)	SIGNED	4	CCTCKTAC	Active CKPT I/O token
2148	(864)	SIGNED	4	CCTCKTNX	Next CKPT I/O token
2152	(868)	BITSTRING	8	CCTSITIM	TOD of last CKPT write
				Queue heads for ENF LISTEN Event processor.	
2160	(870)	DBL WORD	8	CCTENFQ(0)	EVT queue
2160	(870)	ADDRESS	4	CCTENFQH	EVT head
2164	(874)	ADDRESS	4	CCTENFQT	EVT tail
				Queue heads for JQE Request processor	
2168	(878)	DBL WORD	8	CCTJQRBQ(0)	JQE Request block queue
2168	(878)	ADDRESS	4	CCTJQRBH	JQRB head
2172	(87C)	ADDRESS	4	CCTJQRBT	JQRB tail

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2176	(880)	SIGNED	4	CCTJQRBN	Nr of entries in CCTJQRBQ (can go negative!)
2180	(884)	SIGNED	4		Reserved
		Each time a structure available ENF is received, the JES2 listen exit increments this count. This is used to determine when structures become available for processing.			
2184	(888)	SIGNED	4	CCTXESEV	Structure avail ENF count
2188	(88C)	CHARACTER	4	CCTDFCB	Default printer FCB (see $PRTFCB in HCT)
		Data needed by Health Checker for messages about 1.11 Checkpoint mode activation.			
2192	(890)	SIGNED	4	CCTHCRC1	Number of 4K records needed by CKPT1
2196	(894)	SIGNED	4	CCTHCRC2	Number of 4K records needed by CKPT2
2200	(898)	SIGNED	4	CCTHCBRT	Number of BERTs needed
		SAPI WSP chains. These chains are used by JES2 main task only. ALET for these pointers is in $SAPTOK.			
2204	(89C)	ADDRESS	4	CCTSAWST	1st postable SAPI WSP with selection on token
2208	(8A0)	ADDRESS	4	CCTSAWXO	Oldest postable SAPI WSP with selection expression
2212	(8A4)	ADDRESS	4	CCTSAWXN	Newest postable SAPI WSP with selection expression
		CKPT versions ENQ minor names Managed by the CKPT PCE and used delay processes that require a specific checkpoint version. To delay for the next version of a specific type, get a shared ENQ on the appropriate minor name (major name is SYSZjesx). The ENQ should be released after it is obtained.			
2216	(8A8)	CHARACTER	16	CCTMASMN	Latest MAS level info
2232	(8B8)	CHARACTER	16	CCTMBRMN	Latest member info
		Ultimate default JOBCLASS used when we need a default job class that we know is valid.			
2248	(8C8)	CHARACTER	8	CCTDEFCL	Default job class
		Values used for controlling the issuance of HASP790. HASP790 is used to notify the operator that ENF signals have been lost, i.e. not delivered by ENF. Use PLO to update these two fields.			
2256	(8D0)	SIGNED	4	CCT790TM	High 4 bytes of STCK last time HASP790 issued
2260	(8D4)	SIGNED	4	CCTENFR8	Number of RC=8 ENFs since last HASP790 message
		Patch space for code that uses R11 addressability to the HCCT, and the SYSOUT Class Attribute Table (SCAT). These should be the last HCCT fields.			
2264	(8D8)	DBL WORD	8	(0)	
2264	(8D8)	BITSTRING	256	CCTPATCH(2)	Patch spc for R11-HCCT code

Table 208. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Use the address in CCTSCATP to reference the SCAT rather than doing a LA of CCTSCAT. This helps to prevents massive reassemblies of modules if the length of $HCCT is changed in an APAR.			
2776	(AD8)	SIGNED	2	CCTSCAT(0)	SYSOUT CLASS ATTRIBUTE TABLE
2776	(AD8)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
2776	(AD8)	X'C0'	0	CCTSTLEN	"*-CCTSCAT" LENGTH OF SCAT TABLE
2968	(B98)	ADDRESS	2	(0)	Force asmbly error if SCAT not last
2968	(B98)	DBL WORD	8	(0)	Ensure alignment
2968	(B98)	X'B98'	0	CCTLEN	"*-HCCT" LENGTH OF HCCT

Table 209. Structure CCTSTUB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CCTSTUB	, CSA stub routines
0	(0)	CHARACTER	8	STBID	Eyecatcher
		Stub routine for $MSDDUMP dynamic exit			
8	(8)	DBL WORD	8	(0)	Ensure alignment
22	(16)	SIGNED	2		Reserved
24	(18)	CHARACTER	8		Routine eyecatcher
32	(20)	DBL WORD	8	(0)	Round up
32	(20)	X'18'	0	STBMSDLN	"*-STBMDDMP" $MSDDUMP stub routine
		Stub routine for $DYNLPA dynamic exit			
32	(20)	DBL WORD	8	(0)	Ensure alignment
46	(2E)	SIGNED	2		Reserved
48	(30)	CHARACTER	8		Routine eyecatcher
56	(38)	DBL WORD	8	(0)	Round up
56	(38)	X'18'	0	STBDYLLN	"*-STBDYLPA" $DYNLPA stub routine
		Stub routine for $ECBEXIT ECB POST exit			
56	(38)	DBL WORD	8	(0)	Ensure alignment
72	(48)	CHARACTER	8		Routine eyecatcher
80	(50)	DBL WORD	8	(0)	Round up
80	(50)	X'18'	0	STBECXLN	"*-STBECBEX" $ECBEXIT stub routine
		Stub routine for HAMPSTER ECB POST exit			
80	(50)	DBL WORD	8	(0)	Ensure alignment
96	(60)	CHARACTER	8		Routine eyecatcher
104	(68)	DBL WORD	8	(0)	Round up
104	(68)	X'18'	0	STBECSLN	"*-STBECBSD" $ECBEXIT stub routine
		Stub routine for SWAREAD service routine Entered in 24 bit mode and switched to AMODE 31			
104	(68)	DBL WORD	8	(0)	Ensure alignment

Table 209. Structure CCTSTUB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SAM31 , Get into AMODE 31			
108	(6C)	BITSTRING	2		(DC for IPCS expansions)
		LLILF R11,HCCT-HCCT Get HCCT address			
110	(6E)	BITSTRING	6		(DC for IPCS expansions)
110	(6E)	X'70'	0	STBSWRCT	"*-4,4" Where to store HCCT address
126	(7E)	CHARACTER	8		Routine eyecatcher
136	(88)	DBL WORD	8	(0)	Round up
136	(88)	X'20'	0	STBSWRLN	"*-STBSWARD" SWAREAD stub routine
136	(88)	BITSTRING	20		Reserved
160	(A0)	DBL WORD	8	(0)	Ensure alignment
160	(A0)	X'A0'	0	STBLEN	"*-CCTSTUB" Length of stub area

Table 210. Cross Reference for $HCCT

Name	Offset	Hex Tag
CCT#INDX	210	
CCTABEND	610	FFFFFF
CCTAENCA	2FE	40
CCTAENCS	2FE	80
CCTALLFF	98	98
CCTAMVEC	18C	
CCTASCB	6EC	6E4
CCTASDS	224	
CCTASYNC	698	0
CCTAUXCB	1A4	
CCTAXL	3A4	
CCTAXN	3A4	
CCTAXV	3A6	
CCTBADA	108	
CCTBATMD	2DC	
CCTBDJNC	151	
CCTBEGN	744	0
CCTBFSIZ	23C	
CCTBLANK	6EC	8
CCTBLNKS	18	18
CCTBLN64	18	40404040
CCTBMAPS	1AC	
CCTBYTS	844	0
CCTCADDR	168	
CCTCALLC	6D8	0
CCTCBRT	1B0	
CCTCDCTQ	230	
CCTCFREE	6DC	0
CCTCGECB	6F0	0

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTCICB	790	
CCTCIP	78C	
CCTCKCON	650	
CCTCKPTP	6B4	0
CCTCKPT1	314	40404040
CCTCKPT2	35C	40404040
CCTCKSTK	4E8	
CCTCKTAC	860	
CCTCKTNX	864	
CCTCK64	4D8	
CCTCK64L	4E0	
CCTCMDMX	660	
CCTCMQTP	670	
CCTCOLDT	42C	
CCTCOMCH	1ED	40
CCTCOMCT	65C	
CCTCOMM	690	0
CCTCOMMQ	658	
CCTCPIC	520	
CCTCPIDX	170	
CCTCSACH	6D4	
CCTCSHED	748	
CCTCSTAI	74C	
CCTCTABS	16C	
CCTCUCT	5F8	
CCTDAS1	1B4	
CCTDCB	380	380
CCTDEBFX	3B4	
CCTDEBG2	64D	
CCTDEBUG	64C	
CCTDEFCL	8C8	40404040
CCTDFCB	88C	
CCTDGBRT	740	0
CCTDOM86	654	
CCTDSB	238	
CCTDSTFL	1EE	0
CCTECF	688	0
CCTEDISA	4BD	80
CCTEDISM	4BD	40
CCTEDSA	4F8	
CCTEDSSF	4BD	0
CCTELCMB	858	
CCTENFP	6C0	0
CCTENFQ	870	
CCTENFQH	870	
CCTENFQT	874	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTENFR8	8D4	0
CCTENFST	22C	
CCTESCVT	438	
CCTESSNM	434	C8C1E2D7
CCTESSVT	43C	
CCTEST1	244	
CCTETDEF	1B8	
CCTEVTA	228	
CCTEXTBL	204	
CCTFFS	98	
CCTFIFON	760	
CCTFIFOQ	75C	
CCTFIXL	6EC	38
CCTFLAGA	2FE	0
CCTFLAGJ	64F	
CCTFLAG0	1EF	0
CCTFLAG1	645	0
CCTFLAG2	646	0
CCTFLAG3	648	
CCTFLAG4	649	
CCTFLAG5	64A	
CCTFLAG6	2FC	0
CCTFLAG8	7BD	
CCTFLAG9	647	
CCTFMAX	100	100
CCTFMID	4C0	
CCTFNCNT	849	0
CCTFSSCB	7C0	
CCTF1	D8	1
CCTF12	EC	C
CCTF16	F0	10
CCTF2	DC	2
CCTF255	F4	FF
CCTF4	E0	4
CCTF4096	F8	1000
CCTF6	E4	6
CCTF8	E8	8
CCTGCNUM	4F0	
CCTGGDKB	414	
CCTGGDKL	410	
CCTGGDKN	40C	
CCTGGFKB	418	
CCTGGRSV	40E	
CCTGJNUM	4F4	
CCTGPNM	3CC	
CCTGRADR	3E0	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTGRECX	3E4	
CCTGRPEX	3E8	
CCTHASP	610	
CCTHAVT	1A0	
CCTHCBRT	898	
CCTHCRC1	890	
CCTHCRC2	894	
CCTHCT	174	
CCTHECBA	6EC	6E0
CCTHECBK	6EC	6EC
CCTHIBIT	104	
CCTHIGHV	616	
CCTHMAX	100	100
CCTHOTST	610	80
CCTHTCBA	178	
CCTH1	D8	DA
CCTH12	EC	EE
CCTH16	F0	F2
CCTH2	DC	DE
CCTH255	F4	F6
CCTH4	E0	E2
CCTH4096	F8	FA
CCTH6	E4	E6
CCTH8	E8	EA
CCTIINFO	1C0	
CCTILVL	7	
CCTIMETB	280	
CCTINCHK	1EF	20
CCTINTRE	640	
CCTINXTB	208	
CCTIOERR	780	
CCTIRSMD	2D8	
CCTIXVT	3C8	
CCTJACCT	218	
CCTJALRT	64F	40
CCTJCRIT	64F	10
CCTJDVT	3C0	
CCTJES2_LEVEL	3EC	
CCTJLMAX	734	0
CCTJNTCE	64F	20
CCTJOB	694	0
CCTJOBPF	694	80
CCTJOPTS	2A9	0
CCTJOPT2	2AB	0
CCTJPCLS	708	
CCTJPNUM	710	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTJPWLM	70C	
CCTJQELN	1D6	0
CCTJQENM	4C8	
CCTJQRBH	878	
CCTJQRBN	880	
CCTJQRBQ	878	
CCTJQRBT	87C	
CCTJQRP	6C4	0
CCTJRENQ	720	
CCTJSPL	149	148
CCTJSPLL	148	
CCTJSPLV	149	D1C5E2E2
CCTJSTKN	17C	0
CCTJTEOM	724	
CCTJTERM	71C	
CCTJTRCK	64F	80
CCTJVJOB	308	
CCTJVSTC	300	
CCTJVTSU	304	
CCTJXCFD	4A0	
CCTJXCLS	714	
CCTJXNUM	718	
CCTJXTKN	184	0
CCTJ2CL	4D0	
CCTJ2DSP	628	0
CCTJ2WAT	618	0
CCTJ3CL	4D4	
CCTKAC	198	
CCTKEYTB	3B8	
CCTKFCF7	2FD	0
CCTLEN	B98	B98
CCTLEVEL	3EC	
CCTLIMP	4BE	20
CCTLINCT	2AA	
CCTLMDAD	500	
CCTLMDCT	4FC	
CCTLMDLS	508	
CCTLMDSM	510	
CCTLMFR	528	
CCTLMT1	C	
CCTLNINT	25C	
CCTLNOS4	4BE	10
CCTLOWV	617	
CCTMASCB	1CC	
CCTMASMN	8A8	E5C5D9E2
CCTMASVR	616	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTMBRMN	8B8	E5C5D9E2
CCTMEMAT	674	
CCTMEMUP	638	
CCTMGTD	460	
CCTMGTP	458	
CCTMGTU	458	
CCTMISC	6C8	0
CCTMLLM	6AC	0
CCTMON#	3F6	
CCTMONCB	1C8	
CCTMSMPC	72C	
CCTMSMPS	730	
CCTMTSPL	7D8	0
CCTMVER	644	
CCTMVSNM	1F4	40404040
CCTNACCT	21C	
CCTNBUFX	7D0	0
CCTNDE	2B7	
CCTNDENL	2B7	0
CCTNDENM	2B8	
CCTNEG1	98	98
CCTNITA	2D4	
CCTNITBL	1D0	
CCTNITSZ	1D4	0
CCTNMCUR	664	
CCTNMFAL	66C	
CCTNMMAX	668	
CCTNONOD	2C0	0
CCTNOUSQ	784	
CCTNQCNP	84A	0
CCTNQCNT	848	0
CCTNSPB	23E	23F
CCTNSPL	23E	0
CCTNXSYS	683	1
CCTOFFM	6B0	0
CCTOFSTB	8	
CCTOTINT	250	
CCTPAD	788	
CCTPATCH	8D8	0
CCTPCEFL	6CC	0
CCTPCENO	6C8	F
CCTPCEPE	690	
CCTPCT	2C4	
CCTPCYHD	530	
CCTPGINT	244	
CCTPIT	1D8	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTPITNM	1DC	0
CCTPJCLQ	85C	
CCTPJES2	610	1
CCTPLVL	3F4	
CCTPOSTE	6E0	
CCTPOSTW	6EC	4
CCTPRASC	678	
CCTPRECB	67C	
CCTPROMO	4BE	40
CCTPRVRE	4BF	
CCTPRVTG	794	
CCTPSO	750	
CCTPSOQ	754	
CCTPUINT	268	
CCTPVRSN	10	
CCTQINDX	20C	
CCTQNAM	41C	
CCTRBGN	1FC	
CCTRCOMC	1EC	40
CCTRCP	6B8	0
CCTRCPCQ	63C	
CCTRDRSC	440	C9D5E3D9
CCTRDT	2CC	
CCTRDTA	2D0	
CCTREQJI	2EC	
CCTRESIL	4BE	0
CCTRESPL	4BE	80
CCTRLMT	200	
CCTROPTS	2A8	0
CCTROUT	2C2	0
CCTRRT	2C8	
CCTSAPIQ	774	
CCTSAPLK	450	E2C1D7C9
CCTSAWST	89C	
CCTSAWXN	8A4	
CCTSAWXO	8A0	
CCTSBJMD	2E0	
CCTSCAT	AD8	
CCTSCATP	1E0	
CCTSCIDS	19C	
CCTSDADR	3D4	
CCTSDECX	3D8	
CCTSDPEX	3DC	
CCTSEGLM	30C	
CCTSFPNQ	7A8	
CCTSFPRQ	7B0	

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTSFREQ	7A0	
CCTSID	1F0	40404040
CCTSINFO	1C4	
CCTSITIM	868	
CCTSJBB	708	
CCTSJBE	724	
CCTSJWEL	770	0
CCTSLGDS	614	2
CCTSLKST	738	0
CCTSLKUS	73C	0
CCTSLVL	3F5	
CCTSMVFN	614	10
CCTSNV	420	
CCTSNVRR	518	
CCTSPINC	764	0
CCTSPIOT	758	
CCTSPLAF	7F8	0
CCTSPLCL	310	
CCTSPLF1	7D2	0
CCTSPLNM	242	0
CCTSPOOL	6A8	0
CCTSRCH	7C4	
CCTSSCT	194	
CCTSSDIS	7BC	40
CCTSSDWN	7BC	80
CCTSSMAX	7B8	
CCTSSNCT	7AC	
CCTSSNM	420	5C5C5C5C
CCTSSNML	428	0
CCTSSPCE	6BC	0
CCTSSPCT	7B4	
CCTSSRCT	7A4	
CCTSSTAT	7BC	0
CCTSSVS	424	5C5C5C5C
CCTSSVT	164	
CCTSTCMD	2E4	
CCTSTDSI	1EF	40
CCTSTFRM	2AC	E2E3C440
CCTSTIRV	614	8
CCTSTLEN	AD8	C0
CCTSTPJF	614	4
CCTSTRPL	614	1
CCTSTUB	0	
CCTSTUBA	490	
CCTSTUS	614	0
CCTSTUSP	614	80

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTSTUSR	614	20
CCTSTUST	614	40
CCTSVJLK	448	E2E5D140
CCTSYSLX	1BC	0
CCTS1FUL	7D2	80
CCTTDLY	2F8	
CCTTED	1E4	
CCTTENF	64B	80
CCTTEST	64B	
CCTTGASC	850	
CCTTGBA	838	
CCTTGBF	838	
CCTTGBL	840	
CCTTGBS	83C	
CCTTGDEF	84C	0
CCTTGECB	854	
CCTTIMER	6A0	0
CCTTIMOP	278	
CCTTINA	778	
CCTTINAA	77C	0
CCTTKCEL	241	
CCTTMINT	274	
CCTTO	2B4	
CCTTOKA	1E8	
CCTTONOD	2B4	0
CCTTOQUL	2B6	
CCTTPHZ	2F4	
CCTTRPCE	6A4	0
CCTTSOMD	2E8	
CCTUCADD	5FC	
CCTUSER1	600	
CCTUSER2	604	
CCTUSER3	608	
CCTUSER4	60C	
CCTVBLOB	818	0
CCTVRNUM	0	F
CCTVRSN	0	
CCTXASCB	1A8	
CCTXCBF	494	
CCTXESEV	888	
CCTXITA	2F0	
CCTXMAQ	214	
CCTXMRML	48E	14
CCTXMSRL	47A	14
CCTXNODE	498	
CCTXSTIM	69C	0

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTXSTS1	4BC	0
CCTXSYS	680	
CCTXSYSF	683	0
CCTXSYSN	684	0
CCTXTRAN	152	64
CCTX1AVL	4BC	80
CCTX1GLA	4BC	20
CCTX1GLI	4BC	10
CCTX1INI	4BC	40
CCTZERO	58	58
CCTZEROS	58	0
CCTZGLA	4CC	
CCT0EASS	1EF	80
CCT0FFF	FC	FFFFFF
CCT000F	F4	F4
CCT1CKWI	645	8
CCT1E58D	645	1
CCT1PJAC	645	2
CCT1PJSA	645	4
CCT1PJ2T	645	80
CCT1PRDF	645	40
CCT1SAP	768	
CCT1SAPC	76C	0
CCT1SSYP	645	10
CCT1SSYS	645	20
CCT2BATR	646	40
CCT2CRCF	646	10
CCT2IRDR	646	80
CCT2OPRQ	646	8
CCT2PITC	646	20
CCT2PSO	646	1
CCT2SAPI	646	4
CCT2USJB	646	2
CCT3AUTO	648	1
CCT3CONI	648	80
CCT3CONT	648	40
CCT3INDM	648	20
CCT3MCJC	648	2
CCT3NEOM	648	8
CCT3NHSB	648	10
CCT3PJ2T	648	4
CCT4BERT	649	10
CCT4CRBR	649	1
CCT4CYLM	649	8
CCT4JOBQ	649	2
CCT4MBR	649	4

Table 210. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCT4REC1	649	40
CCT4REC2	649	20
CCT422OK	649	80
CCT5DSRG	64A	80
CCT5ENFJ	64A	20
CCT5OMVA	64A	10
CCT5OMVC	64A	8
CCT5PSTV	64A	40
CCT6ERST	2FC	20
CCT6ESMF	2FC	80
CCT6ETRC	2FC	10
CCT6EUSR	2FC	8
CCT7EVTW	2FD	80
CCT7FFF	100	7FFFFFFF
CCT7NNJE	2FD	40
CCT790TM	8D0	0
CCT8ENFD	7BD	1
CCT9NOPR	647	80
CCT91STK	647	40
HCCT	0	
STBDYLLN	38	18
STBECSLN	68	18
STBECXLN	50	18
STBID	0	C3C3E3E2
STBLEN	A0	A0
STBMSDLN	20	18
STBSWRCT	6E	70
STBSWRLN	88	20

$HCT information

$HCT programming interface information

The following fields are **NOT** programming interface information:

- $ALIPCE
- $BERTPTR
- $CHLOG
- $CHLOGLN
- $CKG1
- $CKG2
- $CKPTFG1
- $CKPTFG2
- $CKPTFG3
- $CKPTFG4
- $CKPTFG5

- $CKPTFLG
- $CKRECN
- $CKW
- $CLCB
- $CURPCE
- $DAWNPCE
- $DILHEAD
- $DILPCE
- $DILTAIL
- $DLSPCE
- $DRQUES
- $DTECKCF
- $DTECKDA
- $DTEEOM
- $DWAHEAD
- $DWATAIL
- $ECBEXTN
- $EDSPCE
- $EOMPCE
- $ERRTABA
- $EXTECBQ
- $HASCB
- $HASPDCB
- $HASPECB
- $HASPECF
- $HASPRB
- $IRCPCE
- $JOEIPCE
- $JOXPTR
- $JOXSIZE
- $JQRPCE
- $JQXPTR
- $KITPTR
- $LCKPTR
- $MASECF
- $MASTER
- $MASTERI
- $MASTERL
- $MISCPCE
- $MLLMECF
- $MSTRID
- $MSTRVER
- $MSTRVRN

- $MVSDISP
- $MVSWAIT
- $NWECB
- $PCELAST
- $PCEORG
- $PCYPCE
- $RCDFRST
- $RCDSIZE
- $READY
- $READYF
- $READYL
- $SAPCACH
- $SCLPEND
- $SPIPCE
- $SPLCNT
- $TBLNUM
- $TGBAD
- $TGMADDR
- $TGMAP
- $TGMHEAD
- $VERSACT
- $VERSINI
- $VERSKPT
- $VERSSTT
- $WCHECK
- $XECBQ
- $XECBQF
- $XECBQL

$HCT heading information

Common name:	HASP Communication Table
Macro ID:	$HCT
DSECT name:	HCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	MIT entry for HASPNUC ('MIT HASPNUC ') Offset: HASPCT-HCT Length: 12
Storage attributes:	Subpool: The subpool of the HASJES20 load module. Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space. The storage is page fixed.
Size:	See HCTLEN
Created by:	The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.

Pointed to by:

- As one of the key JES2 control blocks for processing from the JES2 address space, the HCT address is usually in general purpose register 11 in the assembly environments known as JES2 and SUBTASK.
- The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT.
- The HCT is at the front of the HASJES20 load module so the module storage address in the MVS CDE for HASJES20 points to the HCT.
- The CCTHCT field of the HCCT common storage control block points to the HCT.
- The DTEHCT field in each JES2 subtask's DTE control block points to the HCT.
- The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.

Serialization:

- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by the LOCAL/CMS locks.
- Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor.
- Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues ($QSUSE).
- Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a $WAIT).

Function:

The $HCT is the major JES2 control block when executing code which was generated in the JES2 or subtask assembly environment. Register 11 will normally point to this control block in those environments.
The $HCT contains routine addresses. pointers to data structures, constants, work areas, fields which contain current values for various types of parameters, a checkpointed section, patch space, Etc..

$HCT mapping

Table 211. Structure HCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCT	, HASP Communications Table
0	(0)	BITSTRING	80		HASPNUC Module Info Table
80	(50)	CHARACTER	8	$VERSION	Obsolete. Permanently set to SP 5.3.0 (Do not remove)
88	(58)	CHARACTER	8	$UVERS	Installation version of the JES2 product defined when HASPNUC was assembled
96	(60)	CHARACTER	1	$MACVERS	SP version of MVS maclibs used to assemble HASPNUC
97	(61)	ADDRESS	1	$IPCSLVL	JES2 IPCS level number
98	(62)	ADDRESS	2	$SAVEBOF	Offset to $SAVEBEG (used by IPCS logic)
		Pointer to HASP module directory and LMT anchors			
100	(64)	ADDRESS	4	$HASPMAP	"V($REPTABL)" HASP MODULE DIRECTORY ADDRESS
104	(68)	ADDRESS	4	$LMT1	Addr of 1st Pvt LMT, if any
108	(6C)	ADDRESS	4	$LMT1C	Addr of 1st CSA LMT, if any
112	(70)	ADDRESS	4	$LMTPBOT	Addr of bot'm PVT LMT entry
		WAIT ELEMENTS, EACH SET MUST STAY TOGETHER			

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4	$HASPECB	ADDR OF HASP EVENT CONTROL BLK
120	(78)	SIGNED	4	$ECBEXTN(0)	ECB EXTENSION FOR POST
124	(7C)	ADDRESS	4	$DSPXITA	"V(HASPPXIT)" EXIT DISPATCHING
128	(80)	SIGNED	4	$XFRECBX(0)	ECB EXTENSION FOR SPOOL OFFLOAD
132	(84)	ADDRESS	4	$POSTEXA	"V($POSTEX)" DECB'S .. SPECIFIES POST EXIT
136	(88)	SIGNED	4	$XCPECBX(0)	ECB EXTENSION FOR $EXCP
140	(8C)	ADDRESS	4	$EXCPEXA	"V($IOPSTEX)" EXCP POST EXIT
144	(90)	ADDRESS	4	$NWECB	ECB FOR MISCELLANEOUS USES OF MVS ASYNCHRONOUS SERVICES BY PCES THAT WON'T WAIT ON IT (PAGEFIX)
	Addresses of Remote Work Lookup tables				
148	(94)	ADDRESS	4	$RWL	"V(HASPRWL)" Address of table
152	(98)	ADDRESS	4	$RWLRDRS	"V(HASPRWLR)" Remote reader sub-table
156	(9C)	ADDRESS	4	$RWLPRTS	"V(HASPRWLP)" Remote printer sub-table
160	(A0)	ADDRESS	4	$RWLPUNS	"V(HASPRWLU)" Remote punch sub-table
164	(A4)	ADDRESS	4	$RWLNJRS	"V(HASPRWJR)" Job receiver sub-table
168	(A8)	ADDRESS	4	$RWLNJTS	"V(HASPRWJT)" Job xmitter sub-table
172	(AC)	ADDRESS	4	$RWLNSRS	"V(HASPRWSR)" SYSOUT receiver sub-table
176	(B0)	ADDRESS	4	$RWLNSTS	"V(HASPRWST)" SYSOUT xmitter sub-table
180	(B4)	ADDRESS	4	$STABNDA	"V($STABEND)" ENTRY TO SUBTASK ESTAE RTN
184	(B8)	ADDRESS	4	$DWAHEAD	Head/Tail of DWAs queued
188	(BC)	ADDRESS	4	$DWATAIL	by subtasks
192	(C0)	ADDRESS	4	$SAPCACH	Ptr to SAPI $#POST cache
196	(C4)	BITSTRING	1	$XCWFLAG	Cache control flags
		1...		$XCWSCEN	"B'10000000'" $#POST cache for SAPI enabled (see $SAPCACH)
		.1..		$XCWLCEN	"B'01000000'" $#POST cache for local devices enabled (see $LDVCACH)
197	(C5)	BITSTRING	1	$RSLFLAG	Resilency control flags
		1...		$RSLPRCH	"B'10000000'" PRAOBJ has changed within this members checkpoint cycle.
		.1..		$RSLOUTP	"B'01000000'" OUTPUT PCE has been attached for privilege use
		..1.		$RSLCONV	"B'00100000'" Conversion PCE attached for privilege use
		...1		$RSLSMAL	"B'00010000'" Small environment SPOOL shortage has abated. KBLOB needs to clear this members BLOB.
198	(C6)	BITSTRING	1	$DADFMEM	Number of active members when $DADFRCT captured
199	(C7)	BITSTRING	1		Reserved for future use
200	(C8)	SIGNED	4	$STUBCNT	$DTEDYN stub counter
204	(CC)	ADDRESS	4	$STUBPTR	$DTEDYN stub routine list
208	(D0)	SIGNED	4	$DADFRCT	Total TG Free from DADCOUNT - includes BLOB
212	(D4)	ADDRESS	4	$SAPTOK	SAPID data space ALET

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	ADDRESS	4	$STACTOK	STAC Data space ALET
220	(DC)	ADDRESS	4	$PSOTOK	PSO Data space ALET
224	(E0)	ADDRESS	4	$DILHEAD	Address of first queued DWA element
228	(E4)	ADDRESS	4	$DILTAIL	Address of last queued DWA element
232	(E8)	ADDRESS	4	$ACTRNUM	Number of entries in RSO
236	(EC)	ADDRESS	4	$FREEJOE	Address of free JOE array
	ENTRIES FOR INSTALLATION EXIT, TABLE EXTENSION SERVICES				
240	(F0)	ADDRESS	4	$PRPUSRV	"V(PRPUXSRV)" ADDRESS OF PRPU EXIT SERVICES
244	(F4)	ADDRESS	4	$MCT	"V($MCTABLE)" ADDR HASP MASTER CONTROL TABLE
248	(F8)	ADDRESS	4	$PRAPTR	PTR to JES2 privilege access object - PRAOBJ
252	(FC)	ADDRESS	4	$UCT	"V(USERCT)" ADDR USER COMMUNICATION TABLE
256	(100)	ADDRESS	4	$SXADDR	"V(SXADDR)" SXADDR address
260	(104)	ADDRESS	4	$DIAGTBL	ENTRY TO DIAGNOSTIC MSGS TABLE
	Entries for MVS Service Routines				
264	(108)	ADDRESS	4	$JAXPTR	Ptr to JOE index access control object (JAX)
268	(10C)	ADDRESS	4	$SYMBM	Symbol translation Service
	CHAIN HEADS (ORIGIN AND LAST) FOR ALL DTES				
272	(110)	ADDRESS	4	$DTEORG	ORIGIN DTE ADDR (DTENEXT CHAIN)
276	(114)	ADDRESS	4	$DTELAST	LAST DTE ADDR (DTEPREV CHAIN)
	SUBTASK 'TYPE' POINTERS INTO THE DTENEXT CHAIN. NOTE THAT THESE POINTERS ARE ZERO IF NO SUBTASK FOR THAT 'TYPE' IS CURRENTLY ATTACHED.				
280	(118)	ADDRESS	4	$DTEIMAG	IMAGE DTE(S) (HASPIMAG)
284	(11C)	ADDRESS	4	$DTEALOC	ALLOCATE DTE (HOSALLOC)
288	(120)	ADDRESS	4	$DTESPOL	SPOOL DTE(S) (HOSPOOL)
292	(124)	ADDRESS	4	$DTEMIG	SPOOL DTE(S) (HOSMIGR)
296	(128)	ADDRESS	4	$DTEASST	SPOOL DTE(S) (HOSASST)
300	(12C)	ADDRESS	4	$DTESMF	SMF DTE (HASPACCT)
304	(130)	ADDRESS	4	$DTEVTM	VTAM DTE (HASPVTAM)
308	(134)	ADDRESS	4	$DTEWTO	WTO DTE (HASPWTO)
312	(138)	ADDRESS	4	$DTECNVT	CONVERT DTE(S) (HOSCNVT)
316	(13C)	ADDRESS	4	$DTEOFF	OFFLOAD DTE(S) (HASPOFF)
320	(140)	ADDRESS	4	$DTECKVR	VERSCOPY DTE (HASPCKVR)
324	(144)	ADDRESS	4	$DTECKCF	CKPTONCF DTE (HASPCKCF)
328	(148)	ADDRESS	4	$DTECKDA	CKPTONDA DTE (HASPCKDA)
332	(14C)	ADDRESS	4	$DTEGSUB	GENERAL DTE(S) (HASPSUBS)
336	(150)	ADDRESS	4	$DTEEOM	EOM DTE(S) (HASPEOM)
340	(154)	ADDRESS	4	$DTELIM	LIMITS DTE (HASPLIM)

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SPECIAL DTE POINTERS			
344	(158)	ADDRESS	4	$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
		ERROR STACK POINTERS FOR RECOVERY OPTIONS			
348	(15C)	ADDRESS	4	$MAINSTK	"V(STKMAIN)" ADDR OF MAIN TASK ERROR STACK
352	(160)	ADDRESS	4	$DSTRSTK	"V(STKDSTR)" ADDR OF $DISTERR ERROR STACK
356	(164)	ADDRESS	4	$STERSTK	"V(STKSUBT)" SUBTASK ERROR STACK ORIGIN, SUBTASK STACKS ARE CONTIGUOUS.
356	(164)	X'A'	0	$SPLIOER	"10" Number of SPOOL I/O errors allowed before operator prompted to end warmstart
		HASP CONTROL BLOCK DIRECTORY			
360	(168)	ADDRESS	4	$ACTABLE	ADDR OF AUTOMATIC COMMAND TABLE
364	(16C)	ADDRESS	4	$APPLTBL	ADDRESS NJE/SNA APPLICATION TBL
368	(170)	ADDRESS	4	$AQSE	Addr of this sys's QSE
372	(174)	ADDRESS	4	$ASYNCQ	ADDR ASYNC I/O COMPLETION QUEUE
376	(178)	ADDRESS	4	$ASYPCIQ	ADDRESS OF ASYNC PCIE EXEC QUE
380	(17C)	ADDRESS	4	$BERTPTR	Address of BERT CTENT
384	(180)	ADDRESS	4	$BITSONA	"V($BITSON)" ADDR OF TBLE BITS ON IN A BYTE
388	(184)	ADDRESS	4	$BUSYQUE	ADDRESS OF COMM TASK INPUT QUE
392	(188)	ADDRESS	4	$BUSYRQ	ADDR REMOTE CONSOLE BUSY QUEUE
396	(18C)	ADDRESS	4	$CATQUE	Addr of private CATs (not valid past initialization)
400	(190)	ADDRESS	4	$CHLOG	ADDRESS OF THE CHANGE LOG
404	(194)	ADDRESS	4	$CKG1	ADDRESS OF CKPT1 CKGPAR
408	(198)	ADDRESS	4	$CKG2	ADDRESS OF CKPT2 CKGPAR
412	(19C)	ADDRESS	4	$CLCB	ADDRESS CH LOG CNTL BYTES
416	(1A0)	ADDRESS	4	$CKPTQHD	CKPT work queue head
420	(1A4)	ADDRESS	4	$CKW	ADDRESS OF CKPT WORK AREA
424	(1A8)	ADDRESS	4	$COMEXTN	ADDR OF COMM EXTENDED AREA
428	(1AC)	ADDRESS	4	$COMMQUE	ADDR COMMAND PROCESSOR WORK Q
432	(1B0)	ADDRESS	4	$COMMQTP	Queue of CMBs from RDR/RTAM
436	(1B4)	BITSTRING	4		Reserved
440	(1B8)	DBL WORD	8	$MIGRQCD(0)	Field used by the CDS instruction when adding or removing an element from the migration I/O queue.
440	(1B8)	ADDRESS	4	$MIGRIOQ	Address of the first buffer in the ASYNC PCE migration I/O queue.
444	(1BC)	ADDRESS	4	$MIGRQSQ	Migration I/O queue sequence number - ensures uniqueness.
448	(1C0)	ADDRESS	4	$CPTMAP	ADDR OF CPT QUICK INDEX
452	(1C4)	ADDRESS	4	$CPTPOOL	ADDRESS OF FIRST HASP CPT
456	(1C8)	ADDRESS	4	$DADEBAD	ADDRESS HASP DIRECT ACCESS DEB
460	(1CC)	ADDRESS	4	$DASAREA	Addr of DAS header

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
464	(1D0)	ADDRESS	4	$DASFRST	Addr of first DAS
468	(1D4)	ADDRESS	4	$DASEXT	ADDRESS OF DAS EXT AREA
472	(1D8)	ADDRESS	4	$DOMQUE	ADDRESS OF CMBS AWAITING ACTION
476	(1DC)	ADDRESS	4	$DOMQUEA	ADDR CMBS DESTINED FOR $DOMQUE
480	(1E0)	BITSTRING	4	$EMEMAFF	AFFINITY MASK FOR RESET
484	(1E4)	ADDRESS	4	$ERRTABA	Error table address
488	(1E8)	ADDRESS	4	$EZAADDR	EZASMI work areas
492	(1EC)	ADDRESS	4	$XMASADR	ADDR of Cross MAS XCF CB
496	(1F0)	ADDRESS	4	$GTWKTAB	"V(GTWKTABL)" ADDRESS OF GETWORK TABLE
500	(1F4)	ADDRESS	4	$GETWRKA	"V($GETWORK)" Addr of GETWORK routine
504	(1F8)	ADDRESS	4	$HASCB	ADDRESS OF HASP ASCB
508	(1FC)	ADDRESS	4	$HASPDCB	ADDR OF HASP DIRECT ACCESS DCB
512	(200)	ADDRESS	4	$HASPRB	ADDR OF HASP RB
516	(204)	ADDRESS	4	$HASPTCB	ADDR OF HASP TASK CONTROL BLOCK
520	(208)	ADDRESS	4	$HFAM	ADDR OF HASP FILE ALLOC MAP
524	(20C)	ADDRESS	4	$ICELOST	ADDR OF Frozen ICE queue
528	(210)	ADDRESS	4	$#INDEXA	"V($#INDEX)" ADDR OF SYSOUT CLS QUEUE INDEX
532	(214)	ADDRESS	4	$INIWARM	Addr of INIWARM passed from HASPIR* to HASPWARM
536	(218)	ADDRESS	4	$JESACCT	ADDR OF JES2-TO-NET ACCT TABLE
540	(21C)	ADDRESS	4	$JESTOKA	ADDR OF JES2 SECURITY TOKEN
544	(220)	CHARACTER	8	$JESUSER	User id from JES2 token
552	(228)	CHARACTER	8	$JESSECL	SECLABLE from JES2 token
560	(230)	ADDRESS	4	$JNEW	ADDR MOST RECENT JESNEWS CB
564	(234)	ADDRESS	4	$JNTPTR	ADDR OF HASP JOB NUMBER TABLE
568	(238)	ADDRESS	4	$ZJCPTR	Pointer to the Zone Job Container (ZJC) CTENT.
572	(23C)	ADDRESS	4	$JOBQPTR	ADDR OF HASP JOB QUEUE ORIGIN
576	(240)	ADDRESS	4	$JOTABLE	ADDRESS OF HASP JOT ORIGIN
580	(244)	ADDRESS	4	$JOTPOST	ADDRESS OF JOTPOST MAP
584	(248)	ADDRESS	4	$JQEEXT	ADDRESS OF EXTENSION AREA
588	(24C)	ADDRESS	4	$JQXPTR	Addr of HASP JQX CTENT
592	(250)	ADDRESS	4	$JOXPTR	Addr of HASP JOX CTENT
596	(254)	ADDRESS	4	$JWELTBL	ADDR OF JOE/WRITER EXCLUDE LIST TABLE
600	(258)	ADDRESS	4	$JWEHAVT	ADDR OF ADDRESS SPACE VECTOR TABLE TO CONTAIN WRITER ID NUM
604	(25C)	ADDRESS	4	$KITPTR	ADDRESS OF HASP KIT ORIGIN
608	(260)	ADDRESS	4	$LCKPTR	ADDRESS OF HASP LOAD CKPT TABLE
612	(264)	ADDRESS	4	$LSPTR	Pointer to main JES2 linkage stack for main task
616	(268)	ADDRESS	4	$MASTER	ADDRESS OF MASTER CKPT AREA
620	(26C)	ADDRESS	4	$MASTERI	ADDRESS OF MSTR CKP I/O AREA
624	(270)	ADDRESS	4	$MCONMSG	ADDR REMOTE CONSOLE MSG QUEUE
628	(274)	ADDRESS	4	$MWORK	ADDR OF RTAM GENERAL WORK AREA
632	(278)	ADDRESS	4	$NETACCT	ADDR OF NET-TO-JES2 ACCT TABLE
636	(27C)	ADDRESS	4	$NITABLE	ADDR OF NODE INFORMATION TABLE

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
640	(280)	ADDRESS	4	$NITCPTR	Pointer to CKPTed NITs
644	(284)	SIGNED	4	$NITCSEQ	Current seq# of CKPTed NITs
648	(288)	ADDRESS	4	$NUCFIXD	"V($FIXEND)" ADDR OF NUC PAGEFIXED AREA END
652	(28C)	SIGNED	4	$PROCDDN	PROCLIB DD number to use
656	(290)	ADDRESS	4	$PADDR	"V(PADDR)" ADDR OF PRIVATE RTN LIST
660	(294)	ADDRESS	4	$PERFCB	Performance data anchor CB (holds TEWA address before PERFCB memory obtained)
664	(298)	ADDRESS	4	$POLCYDD	Addr of POLICYLIB PAD chain
668	(29C)	ADDRESS	4	$PRFDATA	"V(PRFTABLE)" Addr of PERFDATA subscripts
672	(2A0)	ADDRESS	4	$PITABLE	ADDR HASP PARTITION INFO TABLE
676	(2A4)	ADDRESS	4	$PRMDTBL	ADDRESS OF PRMODE TABLE
680	(2A8)	CHARACTER	8	$HASPPRM	INITIALIZATION PARMS DD NAME
688	(2B0)	CHARACTER	8	$PRMMEMB	DEFAULT PARM MEMBER NAME
696	(2B8)	ADDRESS	4	$QINDEXA	"V($QINDEX)" ADDR OF JOB CLASS QUEUE INDEX
700	(2BC)	ADDRESS	4	$QSE1	ADDRESS OF 1ST HASP QSE
704	(2C0)	ADDRESS	4	$RATABLE	ADDR OF REMOTE ATTRIBUTE TABLE
708	(2C4)	ADDRESS	4	$RCDFRST	Addr of first RECYDAS
712	(2C8)	ADDRESS	4	$RPLCOMQ	Addr of SNA/RPL compl queue
716	(2CC)	ADDRESS	4	$RMTSON	ADDRESS OF REMOTE SIGN-ON TABLE
720	(2D0)	ADDRESS	4	$RTIMTAB	"V($TIMETAB)" ADDR ESTIMATED TIME PRIO TABLE
724	(2D4)	ADDRESS	4	$SAVAREA	Addr next available general save area
728	(2D8)	ADDRESS	4	$SAVALST	Last available save area
732	(2DC)	ADDRESS	4	$SBMT	Submit command work area
736	(2E0)	ADDRESS	4	$SFWA	ADDR OF SWBTU FUNCTIONS WORK AREA ($SFW)
740	(2E4)	ADDRESS	4	$SCQADDR	Address SCQ CTENT
744	(2E8)	ADDRESS	4	$SCT	Address of Spin Comm Table
748	(2EC)	ADDRESS	4	$SMFBUSY	ADDR SMF BUFFER QUEUED FOR I/O
752	(2F0)	ADDRESS	4	$SPOOLQ	BAD TRACK GROUPS TO FORMAT QUES
756	(2F4)	ADDRESS	4	$SOCKTBL	TCP/IP SOCKET TABLE
760	(2F8)	ADDRESS	4	$STWORK	ADDR OF SUBTASK WORK AREA
764	(2FC)	ADDRESS	4	$HCCT	HASP COMMON COMMUNICATION TABLE
768	(300)	ADDRESS	4	$STQEACT	ADDR OF 1ST ACTIVE STQE
772	(304)	ADDRESS	4	$BADTRTG	Addr of TG map specified via BADTRACK statements
776	(308)	ADDRESS	4	$BSCCHEQ	ADDR of BSC channel end Q
780	(30C)	ADDRESS	4	$TQEQUE	ADDR OF HASP TIMER Q ELEMENT Q
784	(310)	ADDRESS	4	$TRGENER	"V(TRGENER)" Generic translate table
788	(314)	ADDRESS	4	$VLOGQUE	VTAM OPEN/CLOSE ACB SUBTASK QUE
792	(318)	ADDRESS	4	$WLMDATA	Addr of WLM data bundle
796	(31C)	ADDRESS	4	$WSAPTR	ADDR OF WORK SELECTION AREA
800	(320)	ADDRESS	4	$XFRACTV	ADDRESS OF 1ST ACTIVE XFR DCT
804	(324)	ADDRESS	4	$XFRBEND	ADDR OF XFR BUFFER COMPLETION Q

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
808	(328)	ADDRESS	4	$XFRDEND	ADDR OF XFR DCT SUBTASK COMP Q
812	(32C)	ADDRESS	4	$XITADDR	ADDR OF EXIT INFO TABLE (XIT)
816	(330)	SIGNED	4	$PLXDYNI	CPOOL ID for PLX dynamic areas
	Keep the EBCDIC level and binary product/service levels together.				
820	(334)	BITSTRING	10	$JES2_LEVEL(0)	Level information
820	(334)	CHARACTER	8	$LEVEL	Version of the JES2 macros used to assemble HASPNUC <--+
828	(33C)	ADDRESS	1	$PLVL	Binary product level |
829	(33D)	ADDRESS	1	$SLVL	Binary service level <--+
830	(33E)	ADDRESS	2	(0)	Ensure product level is defined correctly
830	(33E)	SIGNED	2	$JQEFUDG	Number of TIMECLOC fudges since the last JES2 start
	Track group map table $TGMADDR through $TGBAD must be kept together				
832	(340)	SIGNED	4	$TGMADDR(0)	ADDR HEADER OF TRACK GROUP
832	(340)	ADDRESS	4	$TGMHEAD	HEADER OF TGM GROUP
836	(344)	ADDRESS	4	$TGMAP	ADDR OF MASTER TRACK GROUP MAP
840	(348)	ADDRESS	4	$TGBAD	ADDR OF BAD TRACK GROUP MAP
840	(348)	X'2'	0	$TBLNUM	"(*-$TGMAP)/4" CALCULATE NUMBER IN TGM TABLE
844	(34C)	SIGNED	4	(3)	Reserved for 64 bit TGM
856	(358)	ADDRESS	4	$TGRADDR	Addr checkpointed BLOB
856	(358)	X'28'	0	$TGRHDR	"40" Length of BLOB header
	RESERVED AREA FOR USER FIELDS				
860	(35C)	ADDRESS	4	$UPADDR	ADDR OR USER PRIVATE ADD TABLE
864	(360)	ADDRESS	4	$USXADDR	USXADDR address
868	(364)	ADDRESS	4	$USER1	RESERVED FOR USER
872	(368)	ADDRESS	4	$USER2	RESERVED FOR USER
876	(36C)	ADDRESS	4	$USER3	RESERVED FOR USER
880	(370)	ADDRESS	2	$USER4	RESERVED FOR USER
882	(372)	ADDRESS	2	$USER5	RESERVED FOR USER
	HASP OPERATING CONSTRAINTS				
884	(374)	SIGNED	2	$PPBSIZE	Size of the PCE Perf block
886	(376)	ADDRESS	2	$NUMCPTS	NUMBER OF CPTS
888	(378)	ADDRESS	4	$PRIOUT	"V($OUTTAB)" OUTPUT PRIORITY TABLE
892	(37C)	ADDRESS	4	$SYNCTOL	TOD CLOCK SYNC ERROR TOLERANCE
896	(380)	DBL WORD	8	$CKPTLEV	LEVEL NUMBER OF CKPT DATA
896	(380)	X'380'	0	$CKPTLVP	"$CKPTLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
896	(380)	X'384'	0	$CKLEVNM	"$CKPTLEV+4,4,C'F'" Fullword level for messages and CTLB comparisons

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
904	(388)	SIGNED	4	$CKOLDLV	Original checkpoint level # for JOTPOST comparison
908	(38C)	SIGNED	4	$TOTCKSZ	Size of the checkpoint data set in 4K pages
912	(390)	ADDRESS	4	$DELAYTM	MODEL 20 DELAY TIME
916	(394)	SIGNED	2	$KITNUM	NUM KITS PRESENT IN SYSTEM
918	(396)	SIGNED	2	$WARMACT	Nr of active warmstart PCEs
920	(398)	SIGNED	4	$LOCKOUT	LOCKOUT WARN TIME, SECS/100
924	(39C)	SIGNED	4	$MINHOLD(0)	Minimum hold time, secs/100
928	(3A0)	SIGNED	4	$ORIGMHD	Original minhold (used to restore $MINHOLD after all warmstart PCEs have gone dormant)
932	(3A4)	ADDRESS	4	$MAXINT	MAX INT FOR CKPTW, SECS/100
936	(3A8)	SIGNED	4	$MINDORM	MINIMUM DORMANT TIME, SECS/100
940	(3AC)	SIGNED	4	$MAXDORM	MAXIMUM DORMANT TIME, SECS/100
944	(3B0)	ADDRESS	4	$DDSEGLM	SEGLIM VALUE
948	(3B4)	ADDRESS	2	$MAXDELT	MAXIMUM MESSAGE DELAY TIME
950	(3B6)	ADDRESS	2	$MAXMSGQ	MAXIMUM MSGS TO QUEUE ON SPOOL
952	(3B8)	ADDRESS	2	$NUMPATH	NUMBER OF PATHS PER NIT
954	(3BA)	ADDRESS	2	$MAXHOP	MAXIMUM NJE HOP COUNT
956	(3BC)	ADDRESS	2	$AUTOINV	SNA AUTOLOGON SCAN INTERVAL
958	(3BE)	ADDRESS	2	$NUMAUTO	NUMBER OF AUTOLOGON REMOTES
960	(3C0)	SIGNED	4	$MVSPSEQ	MVS product level at IPL
964	(3C4)	BITSTRING	1	$EDSSTAT	EDS status flags
		1...		$EDSGPTS	"B'10000000'" GP task shortage
965	(3C5)	ADDRESS	1	$NENFINP	$NOTENFs in progress
966	(3C6)	ADDRESS	1	$CIPERAS	C/I subtasks per addr space
967	(3C7)	BITSTRING	1	$OPTSTA2	More initialization options
		1...		$OP2COMP	"B'10000000'" Compat mode cold start
		.1..		$OP2FULF	"B'01000000'" Full function cold start
		$OPTSTAT INITIALIZATION OPTION DEFINITIONS $OPTSTAT IS PART OF SMF RECORD 43			
968	(3C8)	BITSTRING	1	$OPTSTAT(0)	HASP Init Options (Use BL1 so offset table will be satisfied, but you need AL1 to assign initial value to the byte)
		1...		$OPTFMT	"B'10000000'" FORMAT-- FORCE FORMAT OPTION (OPP IS NOFMT = DEFAULT)
		.1..		$OPTCOLD	"B'01000000'" COLD -- COLD START OPTION (OPP IS WARM = DEFAULT)
		..1.		$OPTREQ	"B'00100000'" REQ -- REQUEST OPTION = DEFAULT (OPPOSITE IS NOREQ)
		...1		$OPTLIST	"B'00010000'" LIST -- HASPPARM LIST = DEFAULT (OPPOSITE IS NOLIST)
		.... 1...		$OPTLOG	"B'00001000'" LOG -- HASPPARM LOG = DEFAULT (OPPOSITE IS NOLOG)
		.... ..1.		$OPTCONS	"B'00000010'" CONSOLE- CONSOLE OPTION
		1		$OPTQWIK	"B'00000001'" QUICK-- NON-ALL-SYSTEMS WARM START (FMT/COLD MUST BE OFF)

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
968	(3C8)	X'38'	0	$OPTSTD	"$OPTREQ+$OPTLIST+$OPTLOG" DEFAULTS = NOFMT, WARM, REQ, LIST, LOG

```
$OPTSTA1 MORE INITIALIZATION OPTION DEFINITIONS
CKPTN OPTION SETS THE FOLLOWING BITS IN $OPTSTA1
          $OP1SPEC $OP1CKPT
DEFAULT 0 0
CKPT1 1 0
CKPT2 1 1
```

969	(3C9)	BITSTRING	3	$OPTSTA1(0)	MORE INIT OPTIONS
		1...		$OP1SPEC	"B'10000000'" CKPTN -- READ FROM A SPECIFIC DATA SET
		.1..		$OP1CKPT	"B'01000000'" CKPTN -- WHICH CKPT TO READ FROM FIRST
		..1.		$OP1PJS2	"B'00100000'" $PJES2 - TERMINATE JES2 OPT
		...1		$OP1SVAL	"B'00010000'" Do spool validation
		.... 1...		$OP1SFCE	"B'00001000'" Whether spool validation done or not was a forced condition
		.... .1..		$OP1UNAC	"B'00000100'" UNACTIVATE system
		.... ..1.		$OP1SVLH	"B'00000010'" Spool validate attempted on last start
969	(3C9)	X'0'	0	$OPT1STD	"0" Default is no SPOOL validation
970	(3CA)	BITSTRING	3	$RUNOPTS(0)	JES2 RUN OPTIONS
		.... .1..		$PRTYOUT	"X'04'" OUTPUT card 'PRTY=' option
		.... ..1.		$PRIOOPT	"X'02'" PRIORITY card option
		1		$PRTYJOB	"X'01'" Job card 'PRTY=' option
971	(3CB)	ADDRESS	1	$PRTOPTS	PRINT OPTIONS
		1...		$PRTBOPT	"X'80'" Local print dbl-buffering option
		.1..		$PUNBOPT	"X'40'" Local punch dbl-buffering option
		..1.		$RPRBOPT	"X'20'" Remote print dbl-buffering option
		...1		$RPUBOPT	"X'10'" Remote punch dbl-buffering option
		.... 1...		$PRTRANS	"X'08'" Print translate option
		.... .1..		$DMNDSET	"X'04'" Specify demand setup option
		.... ..1.		$USERSET	"X'02'" Specify user setup option
		1		$CREATE	"X'01'" JOE create time updated only at create time
972	(3CC)	ADDRESS	1	$RJEOPTS	HASP REMOTE JOB ENTRY OPTIONS
		1...		$ADDSYNS	"X'80'" Additional synchronous idles option
973	(3CD)	ADDRESS	1	$RJOBOPT	Job scan flags:
		1...		$ACTIGN	"B'10000000'" Job account information is ignored
		.1..		$ACTREQ	"B'01000000'" Job account information is required
		...1		$OPTINTR	"B'00010000'" Back to back C/I
		.... 1...		$PRCJ3CL	"B'00001000'" Process JES3 JECL
		.... .1..		$SLSLEOF	"B'00000100'" Treat null JCL card // as EOF

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
974	(3CE)	ADDRESS	1	$LINECT	MAXIMUM LINES PER PAGE
975	(3CF)	ADDRESS	1	$NJEOPTS	HASP NJE options:
		1...		$MAILMSG	"B'10000000'" ISSUE MAIL NOTIFY MSG

```
JECL processing options for JES2 and JES3.
Each statement uses two bits:
 - 00 ignore the statement
 - 01 process and warn
 - 10 recognize and fail
 - 11 process the statement
Each bit group in the four byte field
is numbered left to right:
 - left-most two bits - number 0
 - next two bits - number 1
 - etc.
```

976	(3D0)	BITSTRING	4	$J2CLOPT	JES2 JECL options: default - process all
976	(3D0)	X'3D0'	0	$J2CLOP1	"$J2CLOPT+0,1" first byte of $J2CLOPT
976	(3D0)	X'3D1'	0	$J2CLOP2	"$J2CLOPT+1,1" second byte of $J2CLOPT
976	(3D0)	X'3D2'	0	$J2CLOP3	"$J2CLOPT+2,1" third byte of $J2CLOPT
976	(3D0)	X'3D3'	0	$J2CLOP4	"$J2CLOPT+3,1" fourth byte of $J2CLOPT
976	(3D0)	X'0'	0	$J2CLJBP	"0" bit grp for JOBPARM
976	(3D0)	X'1'	0	$J2CLMSG	"1" bit grp for MESSAGE
976	(3D0)	X'2'	0	$J2CLNTA	"2" bit grp for NETACCT
976	(3D0)	X'3'	0	$J2CLNFY	"3" bit grp for NOTIFY
976	(3D0)	X'4'	0	$J2CLOUT	"4" bit grp for OUTPUT
976	(3D0)	X'5'	0	$J2CLPRY	"5" bit grp for PRIORITY
976	(3D0)	X'6'	0	$J2CLRTE	"6" bit grp for ROUTE
976	(3D0)	X'7'	0	$J2CLSET	"7" bit grp for SETUP
976	(3D0)	X'8'	0	$J2CLXEQ	"8" bit grp for XEQ
976	(3D0)	X'9'	0	$J2CLXMT	"9" bit grp for XMIT
980	(3D4)	BITSTRING	4	$J3CLOPT	JES2 JECL options: default - ignore all
980	(3D4)	X'3D4'	0	$J3CLOP1	"$J3CLOPT+0,1" first byte of $J3CLOPT
980	(3D4)	X'3D5'	0	$J3CLOP2	"$J3CLOPT+1,1" second byte of $J3CLOPT
980	(3D4)	X'3D6'	0	$J3CLOP3	"$J3CLOPT+2,1" third byte of $J3CLOPT
980	(3D4)	X'3D7'	0	$J3CLOP4	"$J3CLOPT+3,1" fourth byte of $J3CLOPT
980	(3D4)	X'0'	0	$J3CLMN	"0" bit grp for / MAIN
980	(3D4)	X'1'	0	$J3CLDS	"1" bit grp for / DATASET
980	(3D4)	X'2'	0	$J3CLEDS	"2" bit grp for / ENDDATASET
980	(3D4)	X'3'	0	$J3CLFMT	"3" bit grp for / FORMAT
980	(3D4)	X'4'	0	$J3CLNET	"4" bit grp for / NET
980	(3D4)	X'5'	0	$J3CLNTA	"5" bit grp for / NETACCT
980	(3D4)	X'6'	0	$J3CLOPR	"6" bit grp for / OPERATOR
980	(3D4)	X'7'	0	$J3CLPAU	"7" bit grp for / PAUSE
980	(3D4)	X'8'	0	$J3CLPRC	"8" bit grp for / PROCESS
980	(3D4)	X'9'	0	$J3CLEPR	"9" bit grp for / ENDPROCESS
980	(3D4)	X'A'	0	$J3CLRTE	"10" bit grp for / ROUTE

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		If there is a problem performing a job or output queue verify, the reason and related data are stored in the following fields.			
984	(3D8)	SIGNED	4	$QVERDAT	Queue verification data
988	(3DC)	BITSTRING	1	$QVERRSN	Queue verification reason
		JQE verification error indicator			
		1		$QVRNJTE	"X'01'" JNT validation error
		.... ..1.		$QVRNFRE	"X'02'" Job on free que not free
		11		$QVRNFRC	"X'03'" Free JQE count is bad
		.... .1..		$QVRNRQE	"X'04'" Error on rebuild queue
		.... .1.1		$QVRNBDQ	"X'05'" Bad queue in JQE
		.... .11.		$QVRNBDC	"X'06'" Wrong class from JQE
		.... .111		$QVRNBDF	"X'07'" Wrong flags in JQE's CAT
		.... 1...		$QVRNBDI	"X'08'" Wrong index in JQE's CAT
		.... 1..1		$QVRNMJN	"X'09'" Missing job number
		.... 1.1.		$QVRNJXE	"X'0A'" JIX error
		.... 1.11		$QVRNJXM	"X'0B'" JQE not in JIX
		.... 11..		$QVRNART	"X'0C'" Artificial bit on in JQE
		.... 11.1		$QVRNXTH	"X'0D'" JQE extension too high
		.... 111.		$QVRNXTO	"X'0E'" JQE extension is odd
		 1111		$QVRNXTF	"X'0F'" JQE extension is free
		...1		$QVRNWQE	"X'10'" JQE on WLM queue
		...1 ...1		$QVRNWQN	"X'11'" WLMQ bad next pointer
		...1 ..1.		$QVRNJQC	"X'12'" JQE in use count bad
		...1 ..11		$QVRNWQP	"X'13'" WLMQ bad prev pointer
		...1 .1..		$QVRNWQX	"X'14'" WLMQ JQE/JQX loop
		...1 .1.1		$QVRNJQO	"X'15'" Invalid JQE chain field
		...1 .11.		$QVRNJQL	"X'16'" JQE loop detected
		...1 .111		$QVRNWWQ	"X'17'" WLMQ on wrong srvclass q
		...1 1...		$QVRNDJN	"X'18'" DJB Q next pointer 2 big
		...1 1..1		$QVRNDJX	"X'19'" Loop in DJB queue
		...1 1.1.		$QVRNDJQ	"X'1A'" JQE not xeq on DJB queue
		...1 1.11		$QVRNDJZ	"X'1B'" DJB Q next pointer zero
		...1 11..		$QVRNDJE	"X'1C'" DJB name not = JQEJNAME
		...1 11.1		$QVRNDJA	"X'1D'" DJB executing job not fnd
		...1 111.		$QVRNDJB	"X'1E'" DJB executing key/nr bad
		...1 1111		$QVRNDJC	"X'1F'" DJB executing key & nr do not match
		..1.		$QVRNDJF	"X'20'" DJB not found
		..1. ...1		$QVRNJBC	"X'21'" Invalid JQE back chain index in JQX
		Dependency network verification error indicator			
		..1. ..1.		$QVRNLDN	"X'22'" Dependency network associated with a 'logging job' is in error.

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ..11		$QVRNSDN	"X'23'" A job scheduled to a dependency network does not correctly address the dependency network.
		..1. .1..		$QVRNZNF	"X'24'" Dependency network ZOD was not found
		..1. .1.1		$QVRNZFQ	"X'25'" In use control block found w/ free queue indx
		..1. .11.		$QVRNZAI	"X'26'" ZJC address/index mismatch
		..1. .111		$QVRNNTZ	"X'27'" ZJC address passed in is not a ZOD
		..1. 1...		$QVRNRSV	"X'28'" ZJC reserved area not zeroes
		..1. 1..1		$QVRNZRS	"X'29'" ZOD reserved area not zeroes
		..1. 1.1.		$QVRNZNX	"X'2A'" ZJC on next ZOD chain is not a ZOD
		..1. 1.11		$QVRNNLG	"X'2B'" Logging job JQE for ZOD not found
		..1. 11..		$QVRNLJI	"X'2C'" Logging job JQE ZOD flds do not match ZOD values
		..1. 11.1		$QVRNNTJ	"X'2D'" ZJC address being proc is not a ZJI
		..1. 111.		$QVRNJNX	"X'2E'" ZJC on next ZJI chain is not a ZJI
		..1. 1111		$QVRNJZD	"X'2F'" ZJI ZOD address bad/does not match input ZOD
		..11		$QVRNJPF	"X'30'" ZJI Parent ZDB address bad or fields mismatch
		..11 ...1		$QVRNJDF	"X'31'" ZJI Dep ZDB address bad or fields mismatch
		..11 ..1.		$QVRNJCF	"X'32'" ZJI next concurrent job not a ZJI
		..11 ..11		$QVRNJSF	"X'33'" ZJI next jobset job not a ZJI
		..11 .1..		$QVRNJEF	"X'34'" ZJI next inerror job not a ZJI
		..11 .1.1		$QVRNJJQ	"X'35'" ZJI JQE not found, not initialization
		..11 .11.		$QVRNJJN	"X'36'" ZJI JQE job name does not match ZJI job name
		..11 .111		$QVRNJJK	"X'37'" ZJI JQE job key does not match ZJI job key
		..11 1...		$QVRNJJR	"X'38'" ZJI JQE not marked as registered
		..11 1..1		$QVRNJJI	"X'39'" ZJI JQE index does not match ZJI index
		..11 1.1.		$QVRNJIN	"X'3A'" ZJI next inerror not a ZJI
		..11 1.11		$QVRNJI#	"X'3B'" ZOD inerror count does not match chain ent cnt
		..11 11..		$QVRNDFQ	"X'3C'" ZDB free queue index not zero
		..11 11.1		$QVRNDFI	"X'3D'" ZDB calculated ZJC does not match chain ent cnt
		..11 111.		$QVRNDFT	"X'3E'" ZDB ZJC does not have type "ZDB"
		..11 1111		$QVRNDNX	"X'3F'" ZDB next ZDB index does not point to a ZDB
		.1..		$QVRNDPI	"X'40'" ZDB parent index is 0

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JQE extensions verification error indicator $QEXTVER			
		.1.. ...1		$QVRNETH	"X'41'" JQE extension too high
		.1.. ..1.		$QVRNETO	"X'42'" JQE extension is odd
		.1.. ..11		$QVRNENF	"X'43'" JQE extension not free
		BERT verification error found $BERTFIX			
		.1.1 ...1		$QVRNBFR	"X'51'" BERT free queue error
		.1.1 ..1.		$QVRNBIM	"X'52'" BERT internal map error
		.1.1 ..11		$QVRNBDB	"X'53'" BERT dynamic queue error
		.1.1 .1..		$QVRNBNQ	"X'54'" BERT named int head error
		.1.1 .1.1		$QVRNBNI	"X'55'" BERT named int BERT error
		.1.1 .11.		$QVRNBQH	"X'56'" BERT named que head error
		.1.1 .111		$QVRNBQE	"X'57'" BERT named que element er
		.1.1 1...		$QVRNBQL	"X'58'" BERT named que loop error
		.1.1 1..1		$QVRNBQV	"X'59'" BERT named que validity e
		.1.1 1.1.		$QVRNBJF	"X'5A'" BERT JQE point to free
		.1.1 1.11		$QVRNBJH	"X'5B'" BERT JQE point range err
		.1.1 11..		$QVRNBJE	"X'5C'" BERT JQE element error
		.1.1 11.1		$QVRNBOH	"X'5D'" BERT JOE point range err
		.1.1 111.		$QVRNBOE	"X'5E'" BERT JOE element error
		.1.1 1111		$QVRNBOR	"X'5F'" BERT orphan found
		CAT verification error found $CATINIT			
		.11. ...1		$QVRNCER	"X'61'" CAT error found
		Dependency network verification error ind (continued)			
		.111 ...1		$QVRNDPT	"X'71'" ZDB parent index points to a non-ZJI ZJC
		.111 ..1.		$QVRNDPN	"X'72'" ZDB parent name does not match parent ZJI name
		.111 ..11		$QVRNDNP	"X'73'" ZDB next parent index ZDB points to a non-ZDB
		.111 .1..		$QVRNDDI	"X'74'" ZDB dependent index is 0
		.111 .1.1		$QVRNDDT	"X'75'" ZDB dependent job index points to non-ZJI ZJC
		.111 .11.		$QVRNDDN	"X'76'" ZDB dependent job name does not match ZJI jobn
		.111 .111		$QVRNDDX	"X'77'" ZDB dependent next index is not a ZDB
		.111 1...		$QVRORZO	"X'78'" Orphaned ZOD - associated logging JQE not valid.
		.111 1..1		$QVRORZI	"X'79'" Orphaned ZJI - associated logging JQE not valid or registered job is not valid.
		.111 1.1.		$QVRFZLP	"X'7A'" Loop in free ZJC chain
		.111 1.11		$QVRZJLP	"X'7B'" Loop in ZJI chain
		.111 11..		$QVRINLP	"X'7C'" Loop in "in-error" chain
		.111 11.1		$QVRZDLP	"X'7D'" Loop in ZDB chain

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.111 111.		$QVRZIXE	"X'7E'" Bad chaining index in some ZJC list/chain
		.111 1111		$QVRORZD	"X'7F'" Orphaned ZDB
		1...		$QVRZJCT	"X'80'" Unknown ZJC type
		JOE verification error indicator			
		1... ...1		$QVRNOTE	"X'81'" JOE type error
		1... ..1.		$QVRNOJE	"X'82'" JOE chain error
		1... ..11		$QVRNORQ	"X'83'" JOE rebuild queue error
		1... .1..		$QVRNORE	"X'84'" JOE rebuild chaining err
		1... .1.1		$QVRNOR2	"X'85'" JOE rebuild chaining err
		1... .11.		$QVRNOR3	"X'86'" JOE rebuild chaining err
		1... .111		$QVRNOR4	"X'87'" JOE rebuild chaining err
		1... 1...		$QVRNOR5	"X'88'" JOE rebuild chaining err
		1... 1..1		$QVRNOCE	"X'89'" Char JOE error
		1... 1.1.		$QVRNOCO	"X'8A'" Char JOE order error
		1... 1.11		$QVRNOCQ	"X'8B'" Char JOE queue error
		1... 11..		$QVRNOC1	"X'8C'" Char JOE queue error
		1... 11.1		$QVRNOCC	"X'8D'" Char JOE count error
		1... 111.		$QVRNOC2	"X'8E'" Char JOE queue error
		1... 1111		$QVRNOWE	"X'8F'" Work JOE error
		1..1		$QVRNOWQ	"X'90'" Work JOE queue error
		1..1 ...1		$QVRNOWC	"X'91'" Work JOE class error
		1..1 ..1.		$QVRNOW1	"X'92'" Work JOE queue error
		1..1 ..11		$QVRNOW2	"X'93'" Work JOE queue error
		1..1 .1..		$QVRNOW3	"X'94'" Work JOE queue error
		1..1 .1.1		$QVRNOW4	"X'95'" Work JOE queue error
		1..1 .11.		$QVRNOW5	"X'96'" Work JOE queue error
		1..1 .111		$QVRNOW6	"X'97'" Work JOE queue error
		1..1 1...		$QVRNOW7	"X'98'" Work JOE queue error
		1..1 1..1		$QVRNOW8	"X'99'" Work JOE queue error
		1..1 1.1.		$QVRNCQ1	"X'9A'" Work/char JOE queue error
		1..1 1.11		$QVRNCQ2	"X'9B'" Work/char JOE queue error
		1..1 11..		$QVRNCQ3	"X'9C'" Work/char JOE queue error
		1..1 11.1		$QVRNCQ4	"X'9D'" Work/char JOE queue error
		1..1 111.		$QVRNCQ5	"X'9E'" Work/char JOE queue error
		1..1 1111		$QVRNCQ6	"X'9F'" Work/char JOE queue error
		1.1.		$QVRNCQ7	"X'A0'" Work/char JOE queue error
		1.1. ...1		$QVRNCQ8	"X'A1'" Work/char JOE queue error
		1.1. ..1.		$QVRNTQE	"X'A2'" JOE queue error
		1.1. ..11		$QVRNTRE	"X'A3'" JOE route error
		1.1. .1..		$QVRNTR2	"X'A4'" JOE route error
		1.1. .1.1		$QVRNTUE	"X'A5'" JOE user error
		1.1. .11.		$QVRNTU2	"X'A6'" JOE user error
		1.1. .111		$QVRNTU3	"X'A7'" JOE user error
		1.1. 1...		$QVRNTU4	"X'A8'" JOE user error

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1.1. 1..1		$QVRNTPE	"X'A9'" JOE priority error
		1.1. 1.1.		$QVRNTP2	"X'AA'" JOE priority error
		1.1. 1.11		$QVRNTP3	"X'AB'" JOE priority error
		1.1. 11..		$QVRNTCE	"X'AC'" JOE class error
		1.1. 11.1		$QVRNJAR	"X'AD'" Artificial bit on in JOE
		1.1. 111.		$QVRNJOE	"X'AE'" JOT validation error
		JOE verification error indicator			
		11.. ...1		$QVRZFRE	"X'C1'" ZJC on free queue is not free.
		11.. ..1.		$QVRZIDX	"X'C2'" ZJC on free queue does not have an ascending index.
		11.. ..11		$QVRZCOU	"X'C3'" Count of ZJCs in the free queue is incorrect.
989	(3DD)	ADDRESS	1	$SPVLRSN	Reason code for forced spool validation
989	(3DD)	X'1'	0	$SPV1QER	"1" Forced on, queue error
989	(3DD)	X'2'	0	$SPV1VAL	"2" Forced on, prior error
989	(3DD)	X'3'	0	$SPV1OPT	"3" Forced on, init option
989	(3DD)	X'4'	0	$SPV1SPL	"4" Forced off, missing spools
989	(3DD)	X'5'	0	$SPV1BRT	"5" Forced off, BERT shortage
989	(3DD)	X'6'	0	$SPV1STR	"6" Forced off, stor shortage
		$DEBUG Option Definitions			
990	(3DE)	BITSTRING	1	$DEBGOPS(0)	DEBUG option flag
991	(3DF)	ADDRESS	1	$DEBGOP2	Second debug options $DEBGOPS bit definitions
		The $DEBGOPS bit definitions are moved to $HASPEQU because of the need of Storage Debug Flag in CPOOL			
991	(3DF)	X'FF'	0	$DBGALL	"FF"
		ESTIMATED COUNT FIELDS DEFAULTS, MAPPED BY THE $EST MACRO			
992	(3E0)	ADDRESS	4	$EST1(0)	FIRST ESTIMATED COUNT TABLE
992	(3E0)	X'5'	0	$ESTTCNT	"5" NUMBER OF ESTIMATED CNT TABLES
992	(3E0)	ADDRESS	4	$ESTPAGE	
992	(3E0)	X'8'	0	$ESTPG9L	"8" 9'S LIMIT FOR ESTNUM
1004	(3EC)	ADDRESS	4	$ESTBYTE	
1004	(3EC)	X'6'	0	$ESTMX9L	"6" 9'S LIMIT FOR ESTNUM
1016	(3F8)	ADDRESS	4	$ESTLNCT	
1016	(3F8)	X'6'	0	$ESTLN9L	"6" 9'S LIMIT FOR ESTNUM
1028	(404)	ADDRESS	4	$ESTPUN	
1028	(404)	X'8'	0	$ESTPN9L	"8" 9'S LIMIT FOR ESTNUM
1040	(410)	ADDRESS	4	$ESTIME	
1040	(410)	X'4'	0	$ESTIM9L	"4" 9'S LIMIT FOR ESTNUM
		Values for buffer management - limits, threshholds, free counts, wait counts, etc.			

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1052	(41C)	SIGNED	2	$NUMBSC	HASP BSC BUFFER LIMIT
1054	(41E)	SIGNED	2	$BSCPRCT	BSC BUF THRESHOLD PERCENT
1056	(420)	SIGNED	2	$BSCPRIV	Privileged BSC buffers
1058	(422)	SIGNED	2	$BSCFREC	Free BSC buffer count
1060	(424)	SIGNED	2	$BSCWBF	Number of BSC buffers being $WAITed for
1062	(426)	SIGNED	2	$BSCNWBF	Number of non-wait requests for BSC buffers
1064	(428)	SIGNED	2	$BSCLGRQ	Largest unfulfilled request for BSC buffers
1066	(42A)	SIGNED	2	$NUMBUF	HASP BUFFER LIMIT
1068	(42C)	SIGNED	2	$BUFPRCT	BUFFER THRESHOLD PERCENTAGE
1070	(42E)	SIGNED	2	$BUFPRIV	Privileged HASP buffers
1072	(430)	SIGNED	2	$LBFREC	Free LBUF buffer count
1074	(432)	SIGNED	2	$BUFWBF	Number of HASP buffers being $WAITed for
1076	(434)	SIGNED	2	$BUFNWBF	Number of non-wait requests for HASP buffers
1078	(436)	SIGNED	2	$BUFLGRQ	Largest unfulfilled request for HASP buffers
1080	(438)	SIGNED	2	$NUMBUFX	Control Block buffer limit
1082	(43A)	SIGNED	2	$BFXPRCT	CB THRESHOLD PERCENTAGE
1084	(43C)	SIGNED	2	$BUFXPRI	Privileged CB buffers by $T to calc free count
1086	(43E)	SIGNED	2	$LBXFREC	Free XBUF buffer count
1088	(440)	SIGNED	2	$BFXWBF	Number of CB buffers being $WAITed for
1090	(442)	SIGNED	2	$BFXNWBF	Number of non-wait requests for CB buffers
1092	(444)	SIGNED	2	$BFXLGRQ	Largest unfulfilled request for CB buffers
1094	(446)	SIGNED	2	$NUMVTAM	HASP VTAM BUFFER LIMIT
1096	(448)	SIGNED	2	$VTMPRCT	VTAM BUF THRESHOLD PERCENT
1098	(44A)	SIGNED	2	$VTMPRIV	Privikeged SNA buffers
1100	(44C)	SIGNED	2	$VTMFREC	Free VTAM buffer count
1102	(44E)	SIGNED	2	$VTMWBF	Number of VTAM buffers being $WAITed for
1104	(450)	SIGNED	2	$VTMNWBF	Number of non-wait requests for VTAM buffers
1106	(452)	SIGNED	2	$VTMLGRQ	Largest unfulfilled request for VTAM buffers
1108	(454)	SIGNED	2	$NUMNHB	HASP NHB buffer limit
1110	(456)	SIGNED	2	$NHBPRCT	NHB BUF threshold percent
1112	(458)	SIGNED	2	$NHBLIM	Old NHB buffer limit used by $T to calc free count
1114	(45A)	SIGNED	2	$NHBFREC	Free NHB count
1116	(45C)	SIGNED	2	$NHBWBF	Number of NHB buffers being $WAITed for
1118	(45E)	SIGNED	2	$NHBNWBF	Number of non-wait requests for NHB buffers
1120	(460)	SIGNED	2	$NHBLGRQ	Largest unfulfilled request for NHB buffers

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1122	(462)	ADDRESS	2		Reserved
1124	(464)	SIGNED	2	$MAXSESS	MAXIMUM NUMBER OF SESSIONS
1126	(466)	ADDRESS	2	$ICEPRCT	Threshold of ICEs
		ICE free count must be in the second half of a fullword for use by compare and swap logic. $ICEFREC is defined in the second half of the word which also contains $ICELIM, which is the old (not actual) count of ICEs.			
1128	(468)	SIGNED	4	(0)	
1128	(468)	SIGNED	2	$ICELIM	(OLD) count of ICEs
1130	(46A)	SIGNED	2	$ICEFREC	Free count of ICES
1132	(46C)	SIGNED	2	$ICEFRZC	Number of frozen ICEs
1134	(46E)	SIGNED	2	$ABDNBUF	Number of times buffers were abandoned
1136	(470)	ADDRESS	2	$NUMCMDS	HASP CMBs for commands (default set in IRPL) Mirrored in CCTCMDMX
1138	(472)	ADDRESS	2	$CMDPRCT	CMD THRESHOLD PERCENTAGE
1140	(474)	ADDRESS	2	$NUMCMBS	HASP CONSOLE MESSAGE BUFFERS
1142	(476)	ADDRESS	2	$CMBPRCT	CMB THRESHOLD PERCENTAGE
1144	(478)	SIGNED	2	$CMBLIM	Old CMB limit used by $T to calculate free count
1146	(47A)	ADDRESS	2		Reserved
		CMB free count must be in the second half of a fullword for use by compare and swap logic. $CMBFRER is a fullword with the first half reserved, and $CMBFREC in the second half.			
1148	(47C)	SIGNED	4	(0)	Force fullword alignment
1148	(47C)	SIGNED	2		and reserve first half
1150	(47E)	ADDRESS	2	$CMBFREC	COUNT OF FREE CMBS
1152	(480)	ADDRESS	2	$NMSGPRC	Notify msg threshold perct
		$MG607F1 and $MG607F2 must be kept together			
1154	(482)	BITSTRING	2	$MG607FL(0)	HASP607 message flags
1154	(482)	BITSTRING	1	$MG607F1	HASP607 reason codes
		1...		$M607IO	"B'10000000'" Outstanding I/O
		.1..		$M607WTO	"B'01000000'" Outstanding WTO activity
		..1.		$M607ACT	"B'00100000'" Active processors (excluding execution and line manager PCEs)
		...1		$M607HLD	"B'00010000'" Outstanding held processors
		.... 1...		$M607LCK	"B'00001000'" STC/TSU intrdr locks held
		.... .1..		$M607CRS	"B'00000100'" Outstanding cross sys rqsts
		.... ..1.		$M607SPN	"B'00000010'" Outstanding spin activity
		1		$M607PCE	"B'00000001'" Clean withdrawal prohibited due to ended (disposed) processors
1155	(483)	BITSTRING	1	$MG607F2	More HASP607 reason codes

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$M607ESP	"B'10000000'" Outstanding EOM, SAPI or PSO
		.1..		$M607AAS	"B'01000000'" Active address spaces (execution PCE)
		..1.		$M607NET	"B'00100000'" Active network devices (line manager PCE)
		...1		$M607DIL	"B'00010000'" DILBERT DWAs waiting to be processed
		.... 1...		$M607ACM	"B'00001000'" Alternate command processor processing commands
		.... .1..		$M607SPM	"B'00000100'" Active SPOOL migration
		.... ..1.		$M607CKR	"B'00000010'" CKPT reconfig in progress
1156	(484)	SIGNED	4	$MG607TM	Time of last 607 message
1160	(488)	SIGNED	4	$NMSGNUM	Current # of notify buffers
1164	(48C)	SIGNED	4	$NMSGFRE	Free Notify msg buf count
1168	(490)	ADDRESS	2	$DISPCNT	PASS NUMBER THROUGH DISPATCHER CODE W/O RUNNING OUT OF WORK
1170	(492)	ADDRESS	2	$DISPACE	PACING VALUE (EFFECTS HOW OFTEN CERTAIN DISPATCHER FUNCTIONS ARE DONE IN A BUSY SYSTEM.
1172	(494)	ADDRESS	2	$NUMSMFB	NUMBER OF HASP SMF BUFFERS
1174	(496)	ADDRESS	2	$SMFPRCT	SMF BUFFER THRESHOLD PERCENTAGE
1178	(49A)	ADDRESS	2	$SMFFREC	COUNT OF FREE SMF BUFFERS
1180	(49C)	SIGNED	2	$SMFLIM	Old SMF limit used by $T to calculate free count
1182	(49E)	ADDRESS	2	$TGSIZE	NO. OF BUFFERS PER TRACK GROUP
1184	(4A0)	SIGNED	4	$TGFREEB(0)	TGs free (set at end of KBLOB for JES2 monitor)
1188	(4A4)	ADDRESS	2	$TTBPRCT	TRACE TABLE THRESHOLD PERCENT (ONLY ACCURATE DURING THRESHOLD PROCESS, CCTTRCWP FIELD ALWAYS CORRECT
1190	(4A6)	ADDRESS	2		Reserved
1192	(4A8)	SIGNED	2	$VERSNUM	NUMBER OF CKPT VERSIONS
1194	(4AA)	SIGNED	2	$VERSFRE	NUMBER CKPT VERS FREE
1196	(4AC)	SIGNED	2	$VERSWRN	USAGE THRESHLD FOR WTO WRN
1198	(4AE)	BITSTRING	3	$VERSSTT(0)	VERSIONING STATUS
		1...		$VERSACT	"B'10000000'" ACTIVE
		..1.		$VERSKPT	"B'00100000'" SUSPENDED
		...1		$VERSINI	"B'00010000'" INITIALIZING
1199	(4AF)	ADDRESS	1	$SPINACT	Count of active SPIN PCEs
1200	(4B0)	SIGNED	4	$MAXVUSE	Max Number versions in use
1204	(4B4)	SIGNED	4	$MAXFAIL	SEQUENCE FAIL COUNT
1208	(4B8)	SIGNED	4	$NUMFAIL	TOTAL FAIL COUNT
1212	(4BC)	ADDRESS	1	$NOPRCCW	MAXIMUM CCW'S USED BY PRINT
1213	(4BD)	ADDRESS	1	$NOPUCCW	MAXIMUM CCW'S USED BY PUNCH
1214	(4BE)	ADDRESS	1	$SEPPAGE	Separator page options
		1...		$LSEPNON	"B'10000000'" Local sep size of NONE
		.1..		$LSEPHAF	"B'01000000'" Local sep size of HALF
		..1.		$LSEPFUL	"B'00100000'" Local sep size of FULL

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$LSEPDBL	"B'00010000'" Local sep size of DOUBLE
		.... 1...		$RSEPNON	"B'00001000'" Remote sep size of NONE
		.... .1..		$RSEPHAF	"B'00000100'" Remote sep size of HALF
		.... ..1.		$RSEPFUL	"B'00000010'" Remote sep size of FULL
		1		$RSEPDBL	"B'00000001'" Remote sep size of DOUBLE
1215	(4BF)	ADDRESS	1		Reserved
1216	(4C0)	ADDRESS	4	$RSRVCKG	CKG OF RESERVED CKPT DS
1220	(4C4)	ADDRESS	4	$SPOOLCB	SPOOL CB address
TABLE FOR HASP497 DOM ID					
1224	(4C8)	ADDRESS	4	$DOMID1(0)	DOMID TABLE HEADER
1224	(4C8)	ADDRESS	4	$ERDM497	DOMID MSG497 (ERROR CORRECTION)
1228	(4CC)	ADDRESS	4	$RBDM497	DOMID MSG497 (REBUILD)
1228	(4CC)	X'2'	0	$DOMIDN	"(*-$DOMID1)/4" NUMBER OF TABLE ENTRIES
1232	(4D0)	ADDRESS	4	$SCLPEND	Address of $SJ service classes pending dereg.
1236	(4D4)	BITSTRING	1	$PRTOPT2(0)	Additional Print Opts
		1...		$PRTCALL	"B'10000000'" All chnls are new pages
1237	(4D5)	CHARACTER	1	$CCOMCHR	HASP COMMAND ID CHAR (OS INPUT)
1238	(4D6)	CHARACTER	1	$RCOMCHR	HASP COMMAND ID CHAR (RDR/RMT)
1239	(4D7)	BITSTRING	1	$PRFXFLG	PREFIX FLAG
		..1.		$SCOPSYS	"B'00100000'" SCOPE=SYSTEM - DEFAULT
		...1		$SCOPSPL	"B'00010000'" SCOPE=SYSPLEX
1240	(4D8)	SIGNED	4	(0)	ALIGN FOR CL INSTRUCTIONS
1240	(4D8)	CHARACTER	8	$STDFORM	STANDARD FORMS ID
1248	(4E0)	CHARACTER	4	$PRTFCB	STANDARD FCB IMAGE ID
1252	(4E4)	CHARACTER	4	$PRTUCS	STANDARD UCS IMAGE ID
1256	(4E8)	CHARACTER	4	$NIPFCB	3800 INSTALLATION FCB DEFAULT
1260	(4EC)	CHARACTER	4	$NIPUCS	3800 INSTALLATION UCS DEFAULT
1264	(4F0)	CHARACTER	4	$NIPFLSH	3800 INSTALLATION FLASH FRAME DFT
1268	(4F4)	ADDRESS	2	$RMTNUM	Highest Allowed Remote
1270	(4F6)	ADDRESS	2		Reserved for future use
1272	(4F8)	ADDRESS	2	$MLBFSIZ	HASP MULTI-LEAVING BUFFER SIZE
1274	(4FA)	ADDRESS	2	$BFSZBSC	HASP BSC RJE Buffer Size
1276	(4FC)	ADDRESS	2	$BFSZSNA	HASP SNA RJE BUFFER SIZE
1278	(4FE)	ADDRESS	2	$BFSZPP	HASP Print/Punch buf size
1280	(500)	SIGNED	2		Reserved for future use
1282	(502)	ADDRESS	1	$STIMASK	SPOOL OFFLOAD I/O MGR SCAN MASK
		1...		$STIMBUF	"B'10000000'" $STIMASK BIT FOR BUFFER SCAN
		.1..		$STIMTIM	"B'01000000'" $STIMASK BIT FOR TIMER SCAN
		..1.		$STIMDCT	"B'00100000'" $STIMASK BIT FOR DCT SCAN

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$STIMSBT	"B'00010000'" $STIMASK BIT FOR SUB-TASK SCAN
1283	(503)	ADDRESS	1	$SPOLMSG	MAX SPOOL BUFFERS FOR MSGS/RMT
1284	(504)	ADDRESS	1	$BSPGCT	PAGES BETWEEN BSP TABLE ENTRIES
1285	(505)	ADDRESS	1	$BSPNTE	BSP TABLE ENTRIES
1286	(506)	ADDRESS	2	$BSPSIZ	BSP TABLE SIZE
1288	(508)	ADDRESS	1	$JCOPYLM	OUTPUT JOB COPY LIMIT
1289	(509)	CHARACTER	1	$CCOMCH	TEMP FOR $T PREFIX CHAR
1290	(50A)	ADDRESS	2	$HTDIST	2770/2780 HORIZONTAL TAB SPACING
1292	(50C)	ADDRESS	2	$NUMACE	NUMBER OF AUTOMATIC CMD ELEMENTS
1294	(50E)	ADDRESS	2	$MAXPART	MAXIMUM ACTIVE BATCH INITIATORS
1296	(510)	ADDRESS	1	$SPOFERR	SPOOL OFFLOAD ERROR THRESHOLD
1297	(511)	CHARACTER	1	$RDRAREA	CMD REDIRECT AREA DEFAULT
1298	(512)	BITSTRING	2		Reserved
1300	(514)	ADDRESS	4	$TRTIME	TRACE TABLE TRUNCATION TIME
1304	(518)	ADDRESS	2	$LIRCT	CKPT LOST INTERRUPT RETRY CT
1306	(51A)	BITSTRING	2		Reserved
1308	(51C)	ADDRESS	2	$RETRYCT	CKPT I/O ERROR RETRY CTR
1310	(51E)	ADDRESS	2	$SCANPDL	LENGTH USED FOR $SCAN PARAMETER DISPLAYS (INIT, COMMANDS)
1312	(520)	SIGNED	4	$SCANMDL	MAXIMUM DISPLAY LINES FOR $SCAN CALLS FOR INIT AND CMDS FROM NJE, RJE, OR MCS WITHOUT L=CCA
1316	(524)	ADDRESS	4	$CTBADA(16)	BAD value
1380	(564)	ADDRESS	4	$ROLLSAV	$ROLL save area (PSV64 map)
1384	(568)	DBL WORD	8		Reserved
1392	(570)	ADDRESS	8	$ESQPTR	Ptr to ESQ origin
1400	(578)	ADDRESS	8	$LIMPTR	Ptr to LIMITS origin
	GENERAL WORK AREA FOR USE BY MAIN TASK				
1408	(580)	DBL WORD	8	(0)	ALIGN $SCANXWA
1408	(580)	CHARACTER	12	$SCANXWA	WORK AREA FOR HASPSXIT, PASSING DATA BETWEEN PRE/POST EXITS, STABS
1408	(580)	CHARACTER	18		ASSURE SUFFICIENT $DEST LENGTH
	Remap $SCANXWA for use in HASP581 message				
1408	(580)	CHARACTER	8	$M581DVN	Logical device name
1416	(588)	SIGNED	4	$M581RC	DYNALLOC return code
1420	(58C)	BITSTRING	2	$M581ERR	DYNALLOC error code
1422	(58E)	BITSTRING	2	$M581INF	DYNALLOC info code
1424	(590)	BITSTRING	1	$M581FLG	Flags for HASP581 msg
		1...		$M581FGF	"B'10000000'" - $GETWORK failed for DAIRFAIL parm list
		.1..		$M581FL1	"B'01000000'" - DAIRFAIL formatted text (level 1) to display
		..1.		$M581FL2	"B'00100000'" - DAIRFAIL formatted text (level 2) to display

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$M581FNT	"B'00010000'" - No formatted text (needed to ensure a non-zero DISPER= byte)
		Remap $SCANXWA for us by $D/$T PCE command			
1408	(580)	SIGNED	2	$DPCEDEF	Number of PCEs defined
1410	(582)	SIGNED	2	$DPCEALC	Number of PCEs allocated
1412	(584)	SIGNED	2	$DPCEEND	Number of PCEs ENDed
1416	(588)	SIGNED	4	$DPCEACT	$ACTIVE count for PCEs
1420	(58C)	BITSTRING	1	$DPCEFLG	Flag byte
		1...		$DPCETON	"B'10000000'" Trace on flag
		.1..		$DPCETOF	"B'01000000'" Trace off flag
		..1.		$DPCETMD	"B'00100000'" Trace modified
1420	(58C)	X'C0'	0	$DPCETMX	"$DPCETON+$DPCETOF" Trace mixed
1420	(58C)	X'A0'	0	$DPCETSO	"$DPCETON+$DPCETMD" Trace set on
1420	(58C)	X'60'	0	$DPCETSF	"$DPCETOF+$DPCETMD" Trace set OFF
		...1		$DPCEDSY	"B'00010000'" Dispatchable flag on
		.... 1...		$DPCEDSN	"B'00001000'" Dispatchable flag off
		.... .1..		$DPCEDSM	"B'00000100'" Dispatchable modified
1420	(58C)	X'18'	0	$DPCEDSX	"$DPCEDSY+$DPCEDSN" Dispatchable mixed
1420	(58C)	X'14'	0	$DPCEDSO	"$DPCEDSY+$DPCEDSM" Dispatchable set on
1420	(58C)	X'C'	0	$DPCEDSF	"$DPCEDSN+$DPCEDSM" Dispatchable set off
1420	(58C)	X'D'	0	$DPCELEN	"*-$DPCEDEF" Length of work area
1426	(592)	X'12'	0	$SCANXWL	"*-$SCANXWA" Length of $SCANXWA
		$SCANXWA/$GENWORK guard bytes			
1428	(594)	SIGNED	4	(0)	Align guard byte
1428	(594)	BITSTRING	4	$SCNGRD	Guard bytes for $SCANXWA
1432	(598)	DBL WORD	8	$GENWORK(0)	GENERAL WORK AREA FOR MAIN TASK
		THIS AREA IS USED BY HASPSCAN AND HASPSXIT AS A WORK AREA			
1432	(598)	BITSTRING	24	$SCNDL24	WORK AREA FOR $SCAN SERVICE
1432	(598)	X'598'	0	$SCNDWKA	"$GENWORK+00,08,C'D'" WORK AREA FOR $SCAN SERVICE
1432	(598)	X'5A0'	0	$SCNDWKB	"$GENWORK+08,08,C'D'" WORK AREA FOR $SCAN SERVICE
1432	(598)	X'5A8'	0	$SCNDWKC	"$GENWORK+16,08,C'X'" WORK AREA FOR $SCAN SERVICE
1432	(598)	X'598'	0	$SCNDL16	"$GENWORK+00,16,C'X'" WORK AREA FOR $SCAN SERVICE
1456	(5B0)	SIGNED	4	$SCNLLIM	$SCAN lower limit work area
		THIS WORK AREA IS USED BY THE SRVPRSCN ROUTINE IN HASPSERV TO PROCESS A $TDEVN COMMAND OR A PRINT/PUNCH INITIALIZATION STATEMENT			
1432	(598)	BITSTRING	8	$PRMDSAV	SAVE AREA FOR PRMODE OPERAND

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1440	(5A0)	BITSTRING	8	$PRMDINX	PRMODE INDEX LIST FROM DCT
1448	(5A8)	BITSTRING	1	$PRMDFLG	PRMODE FLAG BYTE
		1...		$PRMDEND	"B'10000000'" END OF OPERAND FOUND
1448	(5A8)	X'11'	0	$PRMDWKL	"*-$GENWORK" LENGTH OF PRMODE SCAN WORK AREA
THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS ATTACH MACRO PARAMETER LIST					
MACDATE 11/11/91					
1432	(598)	SIGNED	4	$DTELSTF(0)	
1432	(598)	ADDRESS	4		DE OR EPLOC ADDRESS
1436	(59C)	ADDRESS	4		DCB ADDRESS
1440	(5A0)	ADDRESS	4		NEW FORMAT + ECB ADDR
1444	(5A4)	ADDRESS	4		GSPL OR GSPV
1448	(5A8)	ADDRESS	4		SHSPV OR SHSPL
1452	(5AC)	ADDRESS	4		EXIT ROUTINE ADDRESS
1456	(5B0)	ADDRESS	2		DPMOD VALUE
1458	(5B2)	ADDRESS	1		LPMOD VALUE
1459	(5B3)	ADDRESS	1		STATUS BYTE
1460	(5B4)	ADDRESS	4	(2)	EP NAME SPACE
1468	(5BC)	ADDRESS	4		ADDRESS OF JSCB
1472	(5C0)	ADDRESS	4		(E)STAI PARM LIST
1476	(5C4)	ADDRESS	4		EXIT ADDRESS
1480	(5C8)	ADDRESS	4		TASKLIB
1484	(5CC)	ADDRESS	1		FLAG BYTE
1485	(5CD)	ADDRESS	1		TASK ID
1486	(5CE)	ADDRESS	2		PARM LIST LENGTH
1488	(5D0)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
1492	(5D4)	ADDRESS	1		SET FLAGS
1493	(5D5)	ADDRESS	1		SET UP FORMAT NUMBER
1494	(5D6)	BITSTRING	10		RESERVED BYTES FOR FUTURE
1494	(5D6)	X'598'	0	$DTELIST	"$DTELSTF,*-$DTELSTF" EQUATE FOR BASE AND LENGTH
THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS TCBTOKENmacro parameter list					
MACDATE = 04/03/89					
1432	(598)	SIGNED	4	$DTELST2(0)	
1432	(598)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
1432	(598)	BITSTRING	8		
1440	(5A0)	SIGNED	4		
1444	(5A4)	ADDRESS	4		
1448	(5A8)	ADDRESS	4		ASCB ADDRESS (INPUT)
1452	(5AC)	SIGNED	4	(0)	FLAGS (INPUT)
1452	(5AC)	SIGNED	1		TYPE OF TCBTOKEN REQUEST

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1453	(5AD)	SIGNED	3		RESERVED
1453	(5AD)	X'598'	0	$DTELIS2	"$DTELST2,*-$DTELST2" EQUATE FOR BASE AND LENGTH
	This work area is used by the $SCAN facility to build certain variations of the $HASP003 message				
1432	(598)	SIGNED	4	$SCANWKA(0)	
1432	(598)	BITSTRING	40		List of diagnostic levels
1472	(5C0)	CHARACTER	100		Work area
	This work area is used by anyone that might have to reference the entire system affinity mask				
1432	(598)	BITSTRING	4	$GENSYS	Sys affinity work area
1436	(59C)	BITSTRING	4	$GENWTHT	Total member mask for WITH= processing
1440	(5A0)	BITSTRING	4	$GENWTHW	Work member mask for WITH= processing
1444	(5A4)	CHARACTER	8	$GENWTJN	Last reference job name
1572	(624)	X'8C'	0	$GENWRKL	"*-$GENWORK"
	$SCANXWA/$GENWORK guard bytes				
1572	(624)	BITSTRING	4	$GENGRD	Guard bytes for $GENWORK
	PROCESSOR DEPENDENT FLAG BYTES				
1576	(628)	BITSTRING	3	$PROCESS(0)	General process flg
1576	(628)	X'3'	0	$PROCDFT	"$RASSIGN+$ECKTRMJ" Flags on by default
		1...		$PRONEWS	"B'10000000'" JNEW CB being updated
		.1..		$SPINJQE	"B'01000000'" JQE added to $SPIN queue
		..1.		$PRSCNWB	"B'00100000'" Bypass $SCAN FILTER=WB optimization
		...1		$PRODISP	"B'00010000'" Processors have been ended (disposed)
		.... 1...		$ARMVR	"B'00001000'" Verification of ARM registrations required
		.... ..1.		$RASSIGN	"B'00000010'" Assign original job number, even if outside JOBDEF RANGE
		.... .1..		$INTRDCB	"B'00000100'" Use DCB attributes associated with INTRDR for SYSIN data sets. See comment for RID1UDCB in $DCT.
		1		$ECKTRMJ	"B'00000001'" Remote Member Jettison flag - $ECKPTLOCK done whenever a member fails
1577	(629)	BITSTRING	1	$MCONFG1	REMOTE CONSOLE PROCESSOR FLAG
		1...		$MCONACT	"X'80'" Remote console has output activity
		.1..		$MCONWAT	"X'40'" Remote console waiting for jobqueue
		..1.		$MCONNPM	"X'20'" Network path manager busy
		...1		$MCONWPM	"X'10'" Console waiting on path manager
1578	(62A)	BITSTRING	1	$COMMFG1	COMMAND PROCESSOR FLAG

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$COMMDWN	"X'80'" XEQ/CKPT/SPIN Shutdown complete
		.1..		$COMMWAT	"X'40'" HASPCOMM waiting for checkpoint
		..1.		$COMMABT	"X'20'" Command being aborted
1579	(62B)	BITSTRING	1	$EXECFG1	EXECUTION PROCESSOR FLAG
		1...		$EXECDWN	"X'80'" XEQ shutdown complete
		.1..		$EXECSPN	"X'40'" XEQ is ready for SPIN to do its final processing
		..1.		$EXECEDS	"X'20'" XEQ is ready for EDS to do its final processing
1580	(62C)	BITSTRING	1	$CKPTFG1(0)	Ckpt Processor flag
1580	(62C)	X'39'	0	$CK1DFLT	"$CKPTDPY+$CKPTLDP+$CKPTTMD+$CKPTDPS" CKPTDEF DEFAULT: MODE=DUPLEX,DUPLEX=ON
		1...		$CKPTDWN	"B'10000000'" XEQ,CKPT SHUTDOWN COMPLETE
		.1..		$CKPTMSG	"B'01000000'" Do not issue HASP479 msg
		..1.		$CKPTTMD	"B'00100000'" TELLS SCAN WE'RE IN DPLX MD
		...1		$CKPTDPS	"B'00010000'" INDICATES SET TO DUPLEX ON
		.... 1...		$CKPTDPY	"B'00001000'" INDICATES IN DUPLEX MODE
		.... .1..		$CKPTTEK	"B'00000100'" $T'D NEWCKPTN FIELD
		.... ..1.		$CKPTPRI	"B'00000010'" INDICATES PRIO AGING USED
		1		$CKPTLDP	"B'00000001'" INDICATES DUPLEXING LOCALLY
1581	(62D)	BITSTRING	1	$CKPTFG2	Checkpoint processor flag
		1...		$CK2DIAG	"B'10000000'" We're in the dialog
		.1..		$CK2INIT	"B'01000000'" Initialization operation
		..1.		$CK2EXTN	"B'00100000'" CKPT EXTEND pending
		...1		$CK2CKPW	"B'00010000'" CKPT write requested
1582	(62E)	BITSTRING	1	$CKPTFG3	CHECKPOINT PROCESSOR FLAG
		1...		$CK3KRD1	"B'10000000'" KREAD1 processing active
		.1..		$CK3BYLK	"B'01000000'" CKPT lock msg bypassed
		..1.		$CK3CHLG	"B'00100000'" BUILDING CH LOG PACKETS
		...1		$CK34KPG	"B'00010000'" BUILDING 4K PAGE PACKETS
		1		$CK3ACTV	"B'00000001'" CKPT PCE is active (has been dispatched)
1583	(62F)	BITSTRING	1	$CKPTFG4	CHECKPOINT PROCESSOR FLAG
		..1.		$CK4OPVY	"B'00100000'" Request to change OPVERIFY to YES
		...1		$CK4OPVN	"B'00010000'" Request to change OPVERIFY to NO
		.... 1...		$CK4OPRQ	"B'00001000'" Work bit for $SCAN to set operator request
		.... .1..		$CK4HRSV	"B'00000100'" Hardware reserve or CF lock

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$CK4CKPC	"B'00000010'" KFORMAT needed because CKPT size was changed via operator command or init has deferred format to end of warmstart
		1		$CK4CKAB	"B'00000001'" CKPT subtask ABENDed and cannot find CKG to post
1584	(630)	BITSTRING	1	$TRCFG1	TRACE LOG PROCESSOR FLAG
		1...		$TRCSYSX	"B'10000000'" Tell EVTL to shut down
		1		$TRCDWN	"B'00000001'" Tell XEQ of trace log shutdown
		$CKPTLOC is used in combination with $CKPTUPD to determine if the CKPT data set size (the size of a CTENT) has changed. Every time the size is altered $CKPTUPD is incremented. If $CKPTLOC is not the same as $CKPTUPD, then an update has occured and the CKPT control blocks need to be updated.			
1585	(631)	BITSTRING	1	$CKPTLOC	Local copy of $CKPTUPD
1586	(632)	BITSTRING	1	$CKPTFG5	Checkpoint flag
		1...		$CK5QSUS	"B'10000000'" PCE obtained the queues
		.1..		$CK5ACT	"B'01000000'" $ACTIVATE has occurred
1587	(633)	SIGNED	1	$BERTHRS	Minimum BERTs required for $QADD to be processed
		MISCELLANEOUS HASP CONTROL FIELDS			
1588	(634)	SIGNED	4	$WRKAREA(0)	General work areas
1588	(634)	ADDRESS	4	$MSAVE(5)	RTAM NON-REENTRANT REG SAVE AREA
1608	(648)	BITSTRING	4		Reserved
1616	(650)	DBL WORD	8	$POSTSAV(4)	Save area for $POST et al
		Work area used very early during JES2 initialization. These fields are not used once HASPIRA (HASPINIT) gets control.			
1616	(650)	X'638'	0	$STARTTM	"$MSAVE+4,16" STCKE time at label HASP
1616	(650)	X'6C8'	0	$STARTCP	"$SPMSKWA,8" CPU time at label HASP
1648	(670)	SIGNED	4	$GETWKSV(10)	Save area for $GET/$RETWORK
1648	(670)	X'674'	0	$GETWKSF	"$GETWKSV+4,4" $GETWKSV R15 SLOT
1648	(670)	X'67C'	0	$GETWKS1	"$GETWKSV+12,4" $GETWKSV R1 SLOT
1648	(670)	X'680'	0	$GETWKS2	"$GETWKSV+16,4" $GETWKSV R2 SLOT
1688	(698)	DBL WORD	8	$DOUBLE	JES2 MAIN-TASK SCRATCH WORK AREA
1688	(698)	X'698'	0	$SINGLE	"$DOUBLE,4,C'X'" JES2 MAIN-TASK 4 byte area
1696	(6A0)	DBL WORD	8	$DWORK	JES2 MAIN-TASK SCRATCH WORK AREA
1704	(6A8)	DBL WORD	8	$DWORK2	JES2 MAIN-TASK SCRATCH WRK AREA
1704	(6A8)	X'698'	0	$WORK16	"$DOUBLE,16,C'X'" JES2 MAIN-TASK 16 BYTE AREA
1704	(6A8)	X'698'	0	$WORK24	"$DOUBLE,24,C'X'" JES2 MAIN-TASK 24 BYTE AREA
1712	(6B0)		1	$STKEWRK(0)	STCKE work area
1712	(6B0)	X'8C'	0	$WRKAREL	"*-$WRKAREA" General work area length
1728	(6C0)	BITSTRING	1	$JOEWRKA	WORK A FOR ADDING JOES TO Q
1729	(6C1)	BITSTRING	3		Reserved for future use

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1732	(6C4)	ADDRESS	4	$CATCACH	CAT cache pointer for this member.
1736	(6C8)	SIGNED	4	(0)	Ensure fullword allignment
1736	(6C8)	BITSTRING	32	$SPMSKWA	SPOOL MASK WORK AREA
1768	(6E8)	CHARACTER	32	$BLANKS	32 blank characters
1800	(708)	DBL WORD	8	(0)	Ensure doubleword alignment
1800	(708)	BITSTRING	64	$ZEROS	16 words of zeros
1800	(708)	X'708'	0	$ZEROES	"$ZEROS" ALTERNATE NAME FOR $ZEROS
1800	(708)	X'708'	0	$ZERO	"$ZEROS" Another name for $ZEROS
1864	(748)	BITSTRING	4	$ZEROFFF	QUEUE ELEMENT CHAIN MASK
1864	(748)	X'748'	0	$0FFF	"$ZEROFFF" ALTERNATE NAME FOR $ZEROFFF
1868	(74C)	BITSTRING	4	$000F	INDEX ELEMENT MASK
1872	(750)	BITSTRING	4	$ALLFFS	FULLWORD OF X'FF'S
1872	(750)	X'750'	0	$MINUS1	"$ALLFFS" ALTERNATE NAME FOR $ALLFFS
1876	(754)	BITSTRING	4	$MINUS2	CONSTANT -2
		1...		$WSUSER	"X'80'" WS USER CRITERION INDICATION
1880	(758)	BITSTRING	4	$WSBITOF	USED TO TURN USER ID BIT OFF
1884	(75C)	BITSTRING	8	$MAXDBLE	MAX POSITIVE NUMBER IN DOUBLEWORD
1884	(75C)	X'75C'	0	$MAXFULL	"$MAXDBLE,4" MAX POSITIVE NUMBER IN FULLWORD
1884	(75C)	X'75C'	0	$MAXHALF	"$MAXDBLE,2" MAX POSITIVE NUMBER IN HALFWORD
1884	(75C)	X'75C'	0	$7FFF	"$MAXDBLE,2" HIGH BIT OFF MASK
1884	(75C)	X'75C'	0	$HIBITOF	"$MAXDBLE,4" FULL WORD HI-ORDER BIT MASK
1892	(764)	SIGNED	4	$F0	FULLWORD CONSTANT 0
1892	(764)	X'766'	0	$H0	"$F0+2,2,C'H'" HALFWORD CONSTANT 0
1896	(768)	SIGNED	4	$F1	FULLWORD CONSTANT 1
1896	(768)	X'76A'	0	$H1	"$F1+2,2,C'H'" HALFWORD CONSTANT 1
1900	(76C)	SIGNED	4	$F2	FULLWORD CONSTANT 2
1900	(76C)	X'76E'	0	$H2	"$F2+2,2,C'H'" HALFWORD CONSTANT 2
1904	(770)	SIGNED	4	$F3	FULLWORD CONSTANT 3
1904	(770)	X'76F'	0	$H3	"$F2+3,3,C'H'" HALFWORD CONSTANT 3
1908	(774)	SIGNED	4	$F4	FULLWORD CONSTANT 4
1908	(774)	X'776'	0	$H4	"$F4+2,2,C'H'" HALFWORD CONSTANT 4
1912	(778)	SIGNED	4	$F5	FULLWORD CONSTANT 5
1912	(778)	X'77A'	0	$H5	"$F5+2,2,C'H'" HALFWORD CONSTANT 5
1916	(77C)	SIGNED	4	$F6	FULLWORD CONSTANT 6
1916	(77C)	X'77E'	0	$H6	"$F6+2,2,C'H'" HALFWORD CONSTANT 6
1920	(780)	SIGNED	4	$F7	FULLWORD CONSTANT 7
1920	(780)	X'782'	0	$H7	"$F7+2,2,C'H'" HALFWORD CONSTANT 7
1924	(784)	SIGNED	4	$F8	FULLWORD CONSTANT 8
1924	(784)	X'786'	0	$H8	"$F8+2,2,C'H'" HALFWORD CONSTANT 8
1928	(788)	SIGNED	4	$F15	FULLWORD CONSTANT 15
1932	(78C)	SIGNED	4	$F255	FULLWORD CONSTANT 255
1932	(78C)	X'78E'	0	$H255	"$F255+2,2,C'H'" HALFWORD CONSTANT 255

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1936	(790)	SIGNED	4	$F4096	FULLWORD CONSTANT 4096
1936	(790)	X'792'	0	$H4096	"$F4096+2,2,C'H'" HALFWORD CONSTANT 4096
1940	(794)	SIGNED	4	$F65535	FULLWORD CONSTANT 65535
1944	(798)	SIGNED	4	$HIBITON(0)	FULL WORD HI-ORDER BIT MASK
1944	(798)	X'6AC'	0	$HEXTRAN	"*-C'0'" HEXADECIMAL-TO-EBCDIC
1948	(79C)	CHARACTER	16		TRANSLATE TABLE
1964	(7AC)	BITSTRING	11		Reserved
		SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.			
1975	(7B7)	ADDRESS	1	$JSPLL	Length of JESSPOOL class
1976	(7B8)	CHARACTER	8	$JSPLV	JESSPOOL class
1976	(7B8)	X'7B7'	0	$JSPL	"$JSPLL,*-$JSPLL,C'X'" JESSPOOL SAF class
1984	(7C0)	DBL WORD	8	$CLOCK	LAST INTERVAL TIMER CLOCK VALUE
1992	(7C8)	BITSTRING	16	$MVSWAIT	STCK Time of MVS WAIT
2008	(7D8)	BITSTRING	16	$MVSDISP	STCK Time when JES2 is dispatched from MVS WAIT
2024	(7E8)	ADDRESS	4	$REGSAVC(18)	NON-REENTRANT REG. SAVE AREA
2024	(7E8)	X'7F0'	0	$REGSAVE	"$REGSAVC+2*4,4" NON-REENTRANT REG SAVE AREA (16 WORDS-NOTE OVERLAY DEFINITION)
2096	(830)	ADDRESS	1	$PSWSAVE	NON-REENTRANT PSW CC SAVE BYTE
2097	(831)	ADDRESS	1	$PSWMODE	Non-reentrant PSW ASC save byte (copied from PSVMODE)
2098	(832)	ADDRESS	1	$PSWAMOD	Non-reentrant PSW AMODE save byte (copied from PSVAMODE)
2108	(83C)	BITSTRING	8		Reserved
		The $XCFFLG1 and $XCFFLG2 flags indicate the states of the automatic restart function. $XCFFLG1 can only be modified in the main task. $XCFFLG1 is manipulated by SCAN which can return the field to a previous state. This is done via the method SCAN uses to backup the storage that it is modifying (see $SCANB macro). $XCFFLG2 is modified when JESXCF has failed. The $XCF1STR flag indicates a request to start the automatic restart function (AUTOESYS=ON by the operator). The $XCF1STP flag indicates a request to stop the automatic restart function (AUTOESYS=OFF by the operator). The $XCF1NXC in the off state indicates that the automatic restart function is active (ON). The $XCF1NXC in the on state indicates that the automatic restart function is inactive (OFF). The $XCF1ERR flag on indicates that the main task XCF function or the group exit has had an error. With the $XCF1ERR flag set, the display for MASDEF will show AUTOESYS=FAILED. The $XCF2ERR flag on indicates that the group exit has had an error. The $XCF1NRS indicates that RESTART=NO was selected on the MASDEF statement. The $XCF1NRS flag off will indicate that RESTART=YES was chosen.				
2116	(844)	ADDRESS	1	$XCFFLG1	XCF status flags
		1...		$XCF1NAR	"B'10000000'" Request no auto restart
		.1..		$XCF1NRS	"B'01000000'" No XCF restart from this member
		..1.		$XCF1ERR	"B'00100000'" XCF environment failed

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$XCF1STR	"B'00010000'" Request to set AUTOESYS on
		.... 1...		$XCF1STP	"B'00001000'" Request to set AUTOESYS off
		.... .1..		$XCF1SGO	"B'00000100'" An MVS has left the Sysplex
		.... ..1.		$XCF1MUD	"B'00000010'" A member has changed state
2117	(845)	ADDRESS	1	$XCFFLG2	JESXCF status flag
		1...		$XCF2ERR	"B'10000000'" JESXCF environment failed
2120	(848)	ADDRESS	4	$XCFIXVT	JESXCF Group token this is a copy of the $HCCT field CCTIXVT
2124	(84C)	SIGNED	4	$TOTCKRN	Total number of 4K records in the checkpoint (this includes the checkpoint records, master record and change log)
2128	(850)	ADDRESS	4	$DISPSVA	"V($DISPSAV)" Dispatcher PCE save area
2132	(854)	SIGNED	4	$CKPTOAC	TOKEN CURRENT CKPT I/O
2136	(858)	SIGNED	4	$CKPTONX	TOKEN NEXT SCHED CKPT I/O
2144	(860)	DBL WORD	8	$SIDTIME	TOD OF LAST CKPT FOR THIS SYSTEM
2152	(868)	CHARACTER	4	$SID	Member name (SMF) for this member
2156	(86C)	ADDRESS	4	$OWNNIT	ADDR OF THIS SYSTEM'S NIT ENTRY
2160	(870)	CHARACTER	8	$SNV(0)	JES NAME AND VERSION
2160	(870)	CHARACTER	4	$SSNM	NAME OF SUBSYSTEM
2164	(874)	CHARACTER	4	$SSVS	VERSION, RELEASE, MOD
2168	(878)	ADDRESS	3	$SYSID(0)	SYSTEM IDENTIFICATION
2168	(878)	ADDRESS	2	$OWNNODE	NUMBER OF THIS NODE
2170	(87A)	ADDRESS	1	$SIDBUSY	System ID of this member
2171	(87B)	ADDRESS	1		Reserved for future use
2172	(87C)	SIGNED	2	$SIDINDX	System ID index (4 * ($SIDBUSY-1))
2174	(87E)	ADDRESS	1	$SUBTASK	HASP SUBTASK SYSTEM STATUS
2175	(87F)	ADDRESS	1	$STATUS	HASP SYSTEM STATUS
$IOTPDDB DC A(-) OFFSET WITHIN IOT OF 1ST PDDB					
2176	(880)	BITSTRING	4		Reserved for future use
2180	(884)	ADDRESS	4	$CYLMAPL	Direct access allocation map len ($NUMTG/8)
$TGAELEN DC H'0' TRACK GROUP ALLOC AREA LENGTH FOR NON-SPIN PRIMARY ALLOC IOT'S					
2184	(888)	BITSTRING	2		Reserved for future use
2186	(88A)	SIGNED	2	$TGAENUM	NUMBER OF TGAE'S IN PRIMARY ALLOC IOT (MIN 50) - reset to smallest nummber which will fit given IOTs may have small or larger PDDBs
2188	(88C)	ADDRESS	4	$AFFLEN	Number of bytes needed to hold system affinity bits
2188	(88C)	X'88E'	0	$AFFLENH	"$AFFLEN+2,2" Halfword of SYSAFF bytes
2188	(88C)	X'4'	0	$CTLBLEN	"L'$CKLEVNM" Size of the control byte entries CTLB's and CLCB's

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2192	(890)	BITSTRING	1	$STATUS1(0)	More HASP status flags
		If a $PJES2,ABEND is issued and a coupling facility checkpoint write is still active, COMM will issue the HASP552 message and wait for a post from CKPT to indicate the write is done. This bit will be set by COMM when CKPT is NOT to wait for XEQ processing to finish before posting COMM that checkpoint processing is complete.			
		1...		$SDWNFST	"B'10000000'" Shut down fast. CKPT don't wait for XEQ
		.1..		$JINITIP	"B'01000000'" JES2 initialization is in progress
		..1.		$ST1PJTM	"B'00100000'" $PJES2,TERM issued
		...1		$WRMDONE	"B'00010000'" Warm start completed
		.... 1...		$STOPXEQ	"B'00001000'" $P XEQ issued
		.... .1..		$CATMAX	"B'00000100'" CAT max JOBs has been newly reached or has been $T'ed
		.... ..1.		$WLMDIFF	"B'00000010'" This member at WLM Service definition different from JESplex level
		1		$WLMRGOK	"B'00000001'" Force registration of all queues successful
2193	(891)	BITSTRING	1	$STATUS2(0)	More status
		1...		$BRTCLN	"B'10000000'" PREBERTs owned by ABENDed PCEs exist
		.1..		$XEQINT	"B'01000000'" Call $CATJCNT to initialize CATCURJ (xeq) class cnt
		..1.		$PDYNDET	"B'00100000'" At least one ENDED PCE has been dynamically detached
		...1		$AUTONJE	"B'00010000'" Automatic connect of NJE devices is allowed (NJEDEF CONNECT=YES)
		.... 1...		$AUTORST	"B'00001000'" Automatic restart of NJE devices is allowed
		.... .1..		$MODREFR	"B'00000100'" Refresh of JES2 load modules allowed
		.... ..1.		$BERTNNM	"B'00000010'" BERT shortage inhibits normal processing
		1		$STRTDSI	"B'00000001'" JES2 started without the NODSI PPT/SCHEDxx option
2194	(892)	SIGNED	2	$CTLBLNH(0)	Size of cntl bytes
2196	(894)	BITSTRING	1	$JOABTYP	JOA BERT type
2197	(895)	BITSTRING	3	$AFFINTY	Our system affinity token
2200	(898)	BITSTRING	4	$XCFXEQP	Members $POSTed via XCF for new jobs to execute
2204	(89C)	ADDRESS	4	$MAXREST	Max resistance of a path
2208	(8A0)	ADDRESS	2	$NODREST	RESISTANCE OF THIS NODE
2210	(8A2)	ADDRESS	2	$NODETOL	PATH RESISTANCE TOLERANCE
2212	(8A4)	ADDRESS	2	$NITESIZ	SIZE OF NIT ELEMENT
2214	(8A6)	BITSTRING	1	$MASPOST	CROSS-SYSTEM POST FLAG BYTES
2215	(8A7)	BITSTRING	1	$PCEPOST	$$POST FLAG BYTE
		1...		$PCEASYN	"B'10000000'" ASYNCH POST FLAG BIT
		.1..		$PCEPRIX	"B'01000000'" Priority PCE's XECB post

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2216	(8A8)	ADDRESS	2	$BUFLENG	HASP IN-CORE BUFFER SIZE
2218	(8AA)	BITSTRING	1	$STATUS3(0)	Status flags 3
		1...		$INCHECK	"B'10000000'" Init deck checking active
		.1..		$INCNCKD	"B'01000000'" Unable to get CKPT data
		..1.		$PCYSYNC	"B'00100000'" Policy SYNC request complete
2219	(8AB)	ADDRESS	1		Reserved
2220	(8AC)	ADDRESS	4	$ACTIVE	COUNT OF ACTIVE FUNCTIONS
2224	(8B0)	ADDRESS	4	$ACTVFSS	COUNT OF ACTIVE FSS'S
2228	(8B4)	BITSTRING	8	$SJFJDVT	DEFAULT JDVT NAME
2236	(8BC)	BITSTRING	8	$MSKNODE	MASK NODE NUMBER (MDCTNODE)
2244	(8C4)	ADDRESS	4	$ERRTRCA	"V(HASPTRCA)" TERM/RECOVERY CONTROL AREA
2248	(8C8)	SIGNED	4	$HETOKEN	HASP MAIN TASK ESTAE TOKEN
2252	(8CC)	SIGNED	2	$CHLOGSZ	Change log size this member
2254	(8CE)	SIGNED	2	$RECVCNT	NUMBER OF PCES IN RECOVERY
2256	(8D0)	ADDRESS	4	$ERRERPL	ADDR OF ERPL IF $ERROR, ELSE 0
2260	(8D4)	ADDRESS	4	$ERRAFF	ADDR of affinity field or token for dump
2264	(8D8)	SIGNED	4	$ERRREGS(3)	REGS 15, 0, 1 BEFORE $ERROR
2264	(8D8)	X'8DC'	0	$ERRREG0	"$ERRREGS+4,4" REG 0 SLOT IN $ERRREGS
2276	(8E4)	SIGNED	4	$ERRCODE	CATASTROPHIC ERROR REASON CODE
2280	(8E8)	ADDRESS	4	$ERRJQE	Related JQE addr ($ERROR)
2284	(8EC)	ADDRESS	4	$ERREOPT	RECVOPTS name addr ($ERROR)
2288	(8F0)	ADDRESS	2	$EXCPCT	ACTIVE HASP I/O COUNT
2290	(8F2)	ADDRESS	1	$XWTRFLG	EXTERNAL WRITERS FLAG
		1...		$XWTRACT	"B'10000000'" POST XWTR ACTIVE
2291	(8F3)	ADDRESS	1	$MAXCMCT	MAXIMUM CONSOLE MESSAGE COUNT
2292	(8F4)	ADDRESS	4	$FSSETIM	TIME INTERVAL FOR ERROR ASSUMED FOR FSS/FSA/ORDERS (5 MINUTES)
2296	(8F8)	ADDRESS	4	$RBFADDR	ADDR FOR TERM AS FAILING ADDR AT OUR RB LEVEL, IF NON-ZERO REGS ARE $REGSAVE/$CURPCE (NOT SDWA)
2300	(8FC)	BITSTRING	1	$WARMTYP	Warmstart type descriptor FLAG.

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WARM EQU X'80' Single-member warmstart
HOT EQU X'40' Hot start indicator
QUICK EQU X'20' Quick start indicator
CONFIG EQU X'10' All-member warmstart
ESYS EQU X'08' $E MEMBER(x) warmstart
COLD EQU X'04' Cold start
MVSIPL EQU X'02' MVS was IPLed
COLDFMT EQU X'01' Cold start with format
INITCHK EQU X'FF' Init deck check (all
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2301	(8FD)	BITSTRING	1	$BRTDTYP	$DOGBERT working value for BERT type
2302	(8FE)	ADDRESS	2		Reserved for future use
2304	(900)	SIGNED	4	$WRMINIT(0)	# OF USER REQUESTED WARM PCES
2304	(900)	SIGNED	2	$WRMREG	# OF PCES FOR REGULAR WARMSTART
2306	(902)	SIGNED	2	$WRMESYS	# OF PCES FOR $E SYS RESTART
2308	(904)	ADDRESS	4	$ERDOMID	DOM id for $HASP400 message
2312	(908)	ADDRESS	4	$ACCMBAD	CMB ADDRESS FOR HASP601 MESSAGE

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2316	(90C)	ADDRESS	4	$NDDOMID	MESSAGE ID FOR HASP607 MSG
2320	(910)	ADDRESS	4	$SDCMBAD	CMB ADDRESS FOR HASP623 MESSAGE
2324	(914)	SIGNED	4	$HASP051	HASP051 DOM ID
2328	(918)	ADDRESS	4	$PBELST	List of PREBERTs
2332	(91C)	ADDRESS	2	$PITNUM	NUMBER OF PITS FOR SCANTAB ($MAXINIT, LATER $MAXPART)
2334	(91E)	ADDRESS	2	$NITECNT	COUNT OF NIT ENTRIES FOR SCANTAB, ($MAXNODE, LATER $NUMNODE)
2336	(920)	ADDRESS	4	$BRTFREC	Free BERT count (accurate only during thrshld proc)
	HASP DEVICE CONTROL TABLE CHAIN POINTERS AND RELATED FIELDS. LOCAL/LINE/LOGON DCTS ARE CHAINED IN $DCTPOOL USING THE DCTCHAIN FIELD. ALL OTHER DCTS ARE CHAINED IN $DCTPOL2 USING DCTCHAIN. OTHER DCT CHAINING IS AS COMMENTED BELOW AND IN THE $DCT MACRO PROLOG.				
2340	(924)	ADDRESS	4	$DCTPOOL	FIRST HASP DCT IN LOCAL DEVICE, LINE, AND LOGON CHAIN
2344	(928)	ADDRESS	4	$DCTPOL2	FIRST HASP DCT IN CHAIN OF ALL OTHER DCTS
2348	(92C)	ADDRESS	4	$RDRDCT	FIRST LOCAL READER DCT ADDR
2352	(930)	ADDRESS	4	$PRTDCT	FIRST LOCAL PRINTER DCT ADDR
2356	(934)	ADDRESS	4	$PUNDCT	FIRST LOCAL PUNCH DCT ADDR
2360	(938)	ADDRESS	4	$ROUTDCT	FIRST NJE ROUTE DCT ADDR
2364	(93C)	ADDRESS	4	$LNEDCT	FIRST LINE DCT ADDR
2368	(940)	ADDRESS	4	$MLNEDCT	FIRST MAS LINE DCT ADDR
2372	(944)	ADDRESS	4	$LOGNDCT	FIRST LOGON DCT ADDR
2376	(948)	ADDRESS	4	$SRVDCT	FIRST SERVER DCT
2380	(94C)	ADDRESS	4	$XEQDCT	First Request-Job-ID/internal job DCT
2384	(950)	ADDRESS	4	$NETLDCT	First network xmitter/ receiver DCT
2388	(954)	ADDRESS	4	$NETDCTS	FIRST FREE NETWORK DCT GROUP ADDR, GROUP CHAIN PTR = DCTDCB, IN-GROUP CHAIN = MDCTDCT
2392	(958)	ADDRESS	4	$RMTDCTS	RMT RDR/PRPU DCTS, DCTCHAIN CONNCTS ALL (R1 RDRS/PRTS/PUNS, R2, ETC), IN-RMT VIA RATRDCT/MDCTDCT
2396	(95C)	ADDRESS	4	$OLDDCTS	Chain of unused DCTs that are eligible for reuse (these are not in any other chain of DCTs)
2400	(960)	ADDRESS	4	$OFFDCT	FIRST OFFLOAD DCT ADDRESS, TRANSMITTERS/RECEIVERS ARE CHAINED OFF THESE DCTS WITH XDCTDCT
2404	(964)	ADDRESS	4	$OJRDCT	FIRST OFF.JR DCT ADDRESS
2408	(968)	ADDRESS	4	$OSRDCT	FIRST OFF.SR DCT ADDRESS
2412	(96C)	ADDRESS	4	$OJTDCT	FIRST OFF.JT DCT ADDRESS
2416	(970)	ADDRESS	4	$OSTDCT	FIRST OFF.ST DCT ADDRESS
2420	(974)	ADDRESS	4	$LDVCACH	Ptr to $#POST cache for local devices (PRT/PUN)
	Pointers to active (not drained) DCTs. Pointers are pairs, heads and tails. Queue is FIFO				
2424	(978)	ADDRESS	4	$NJEADCT(2)	Network SYSOUT xmitter DCTs
2432	(980)	ADDRESS	4	$OFFADCT(2)	Spl offload xmitter DCTs

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2440	(988)	ADDRESS	4	$LCLADCT(2)	Local printer/punch DCTs
		DCT COUNT FIELDS FOR DEVICES THAT DO NOT CORRESPOND WITH PROCESSORS (PCES) ON A ONE-FOR-ONE BASIS.			
2448	(990)	SIGNED	2	$NUMLNES	NUMBER OF NJE/RJE LINES
2450	(992)	SIGNED	2	$NUMMLNE	NUMBER OF MAS LINES
2452	(994)	SIGNED	2	$NETLNES	NUMBER OF NETWORK LINES
2454	(996)	SIGNED	2	$NUMLOGS	NUMBER OF LOGON DCTS
2456	(998)	SIGNED	2	$NUMSRVS	NUMBER OF SERVER DCTS
2458	(99A)	SIGNED	2	$NUMOFFS	NUMBER OF OFFLOAD DEVICE DCTS
2460	(99C)	SIGNED	2		Reserved
2462	(99E)	ADDRESS	4	$NUMLDEV(0)	Sub-device counts
2462	(99E)	ADDRESS	1	$NUMNJT	JOB XMITTERS PER NETLNE
2463	(99F)	ADDRESS	1	$NUMNJR	JOB RECEIVERS PER NETLNE
2464	(9A0)	ADDRESS	1	$NUMNST	SYSOUT XMITTERS PER NETLNE
2465	(9A1)	ADDRESS	1	$NUMNSR	SYSOUT RECEIVERS PER NETLNE
2466	(9A2)	BITSTRING	2		Reserved
		THE HASP PROCESSOR CONTROL ELEMENT (PCE) CHAIN POINTERS AND COUNT FIELDS. EACH SUBSECTION IS MAPPED USING THE OFFSETS PROVIDED BELOW. THE PCE TABLE ($PCETAB) ENTRIES IN HASPTABS CONTAIN HCT OFFSETS TO THESE FIELDS. EACH PCE CHAIN POINTER POINTS TO THE FIRST PCE OF THAT PCE TYPE IN THE HASP PCE CHAIN, OR IS ZERO TO INDICATE NO PCES. EACH PAIR OF PCE COUNTS REPRESENTS THE NUMBER OF PCES OF THAT TYPE THAT IS 'DEFINED', E.G. THE NUMBER OF DEVICES (DCTS) DEFINED, AND THE NUMBER FOR WHICH PCES ARE CURRENTLY EXISTING, RESPECTIVELY. THE FIRST SETS OF FIELDS MUST BE TOGETHER BECAUSE OF THE $HCCT MAPPING AND IT'S USE BY $$POST.				
2466	(9A2)	X'8'	0	$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH
2466	(9A2)	X'0'	0	$PCEHCTP	"0,4" PCE POINTER
2466	(9A2)	X'4'	0	$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2466	(9A2)	X'0'	0	$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2466	(9A2)	X'2'	0	$PCEHCTA	"2,2" ALLOCATED PROCESSOR COUNT
		SPECIAL PROCESSORS, MAPPING MUST MATCH CCTPCEPE ORDER			
2468	(9A4)	SIGNED	4	$POSTELS(0)	START OF PCE ELEMENTS
2468	(9A4)	ADDRESS	4	$COMMPCE	COMMAND PROCESSOR
2472	(9A8)	ADDRESS	2	$NUMCOMM	
2476	(9AC)	ADDRESS	4	$EXECPCE	EXECUTION PROCESSOR
2480	(9B0)	SIGNED	2	$NUMEXEC	
2484	(9B4)	ADDRESS	4	$ASYNPCE	ASYNC I/O PROCESSOR
2488	(9B8)	SIGNED	2	$NUMASYN	
2492	(9BC)	ADDRESS	4	$XTIMPCE	TIME EXCESSION PROCESSOR
2496	(9C0)	SIGNED	2	$NUMXTIM	
2500	(9C4)	ADDRESS	4	$TIMEPCE	STIMER/TTIMER PROCESSOR
2504	(9C8)	SIGNED	2	$NUMTIMR	
2508	(9CC)	ADDRESS	4	$TRCPCE	EVENT TRACE LOG PROCESSOR
2512	(9D0)	SIGNED	2	$NUMEVTL	

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2516	(9D4)	ADDRESS	4	$SPOLPCE	SPOOL MANAGER PROCESSOR
2520	(9D8)	SIGNED	2	$NUMSPOL	
2524	(9DC)	ADDRESS	4	$MLLMPCE	LINE MANAGER PROCESSOR
2528	(9E0)	SIGNED	2	$NUMMLLM	
2532	(9E4)	ADDRESS	4	$SOMPCE	SPOOL OFFLOAD PROCESSOR
2536	(9E8)	SIGNED	2	$NUMSOM	
2540	(9EC)	ADDRESS	4	$CKPTPCE	CHECKPOINT PROCESSOR
2544	(9F0)	SIGNED	2	$NUMCKPT	
2548	(9F4)	ADDRESS	4	$MCONPCE	REMOTE CONSOLE PROCESSOR
2552	(9F8)	SIGNED	2	$NUMMCON	
2556	(9FC)	ADDRESS	4	$SFSPCE	SCHEDULER FACILITY SRV PCE
2560	(A00)	SIGNED	2	$NUMSFS	
2564	(A04)	ADDRESS	4	$ENFPCE	ENF LISTEN Processor
2568	(A08)	SIGNED	2	$NUMENF	
2572	(A0C)	ADDRESS	4	$JQRPCE	JQE Request Processor
2576	(A10)	SIGNED	2	$NUMJQR	
2580	(A14)	ADDRESS	4	$MISCPCE	Miscellaneous processor
2584	(A18)	SIGNED	2	$NUMMISC	
END OF COMMON HCCT MAPPING					
2588	(A1C)	ADDRESS	4	$RDRPCE	LOCAL READERS
2592	(A20)	SIGNED	2	$NUMRDRS	
2596	(A24)	ADDRESS	4	$IRCPCE	Internal reader cleanup
2600	(A28)	SIGNED	2	$NUMIRC	
2604	(A2C)	ADDRESS	4	$TPRDPCE	RJE READERS
2608	(A30)	SIGNED	2	$NUMTPRD	
2612	(A34)	ADDRESS	4	$JCLPCE	CONVERSION PROCESSOR
2616	(A38)	SIGNED	2	$NUMCNVT	
2620	(A3C)	ADDRESS	4	$PSOPCE	PSO PROCESSORS
2624	(A40)	SIGNED	2	$NUMPSO	
2628	(A44)	ADDRESS	4	$OUTPCE	OUTPUT PROCESSOR
2632	(A48)	SIGNED	2	$NUMOUT	
2636	(A4C)	ADDRESS	4	$PRTPCE	LOCAL PRINTERS
2640	(A50)	SIGNED	2	$NUMPRTS	
2644	(A54)	ADDRESS	4	$TPPRPCE	RJE PRINTERS
2648	(A58)	SIGNED	2	$NUMTPPR	
2652	(A5C)	ADDRESS	4	$PUNPCE	LOCAL PUNCHES
2656	(A60)	SIGNED	2	$NUMPUNS	
2660	(A64)	ADDRESS	4	$TPPUPCE	RJE PUNCHES
2664	(A68)	SIGNED	2	$NUMTPPU	
2668	(A6C)	ADDRESS	4	$PURGPCE	PURGE PROCESSORS
2672	(A70)	SIGNED	2	$NUMPURG	
2676	(A74)	ADDRESS	4	$DLSPCE	Deadline scheduling PCE
2680	(A78)	SIGNED	2	$NUMDLSP	
2684	(A7C)	ADDRESS	4	$PRTYPCE	PRIORITY AGING PROCESSOR

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2688	(A80)	SIGNED	2	$NUMPRTY	
2692	(A84)	ADDRESS	4	$PRYOPCE	OUTPUT PRIO AGING PROCESSOR
2696	(A88)	SIGNED	2	$NUMPRYO	
2700	(A8C)	ADDRESS	4	$WARMPCE	WARM START PROCESSORS
2704	(A90)	SIGNED	2	$NUMWARM	
2704	(A90)	X'4'	0	$WARMCNT	"4" Number of $E SYS warmstart PCEs after init complete
2708	(A94)	ADDRESS	4	$NJTPCE	NJE JOB TRANSMITTERS
2712	(A98)	SIGNED	2	$NUMNJTS	
2716	(A9C)	ADDRESS	4	$OJTPCE	OFFLOAD JOB TRANSMITTERS
2720	(AA0)	SIGNED	2	$NUMOJTS	
2724	(AA4)	ADDRESS	4	$NJRPCE	NJE JOB RECEIVERS
2728	(AA8)	SIGNED	2	$NUMNJRS	
2732	(AAC)	ADDRESS	4	$OJRPCE	OFFLOAD JOB RECEIVERS
2736	(AB0)	SIGNED	2	$NUMOJRS	
2740	(AB4)	ADDRESS	4	$NSTPCE	NJE SYSOUT TRANSMITTERS
2744	(AB8)	SIGNED	2	$NUMNSTS	
2748	(ABC)	ADDRESS	4	$OSTPCE	OFFLOAD SYSOUT TRANSMITTERS
2752	(AC0)	SIGNED	2	$NUMOSTS	
2756	(AC4)	ADDRESS	4	$NSRPCE	NJE SYSOUT RECEIVERS
2760	(AC8)	SIGNED	2	$NUMNSRS	
2764	(ACC)	ADDRESS	4	$OSRPCE	OFFLOAD SYSOUT RECEIVERS
2768	(AD0)	SIGNED	2	$NUMOSRS	
2772	(AD4)	ADDRESS	4	$NPMPCE	NETWORK PATH MANAGER
2776	(AD8)	SIGNED	2	$NUMNPM	
2780	(ADC)	ADDRESS	4	$NRMPCE	NETWORK RESOURCE MONITOR
2784	(AE0)	SIGNED	2	$NUMNRM	
2788	(AE4)	ADDRESS	4	$NRRPCE	NJE ROUTE RECEIVER
2792	(AE8)	SIGNED	2	$NUMNRR	
2796	(AEC)	ADDRESS	4	$NRTPCE	NJR ROUTE TRANSMITTER
2800	(AF0)	SIGNED	2	$NUMNRT	
2804	(AF4)	ADDRESS	4	$RESMPCE	RESOURCE MANAGER
2808	(AF8)	SIGNED	2	$NUMRESM	
2812	(AFC)	ADDRESS	4	$STACPCE	STATUS/CANCEL PROCESSOR
2816	(B00)	SIGNED	2	$NUMSTAC	
2820	(B04)	ADDRESS	4	$SPINPCE	SPIN PROCESSOR
2824	(B08)	SIGNED	2	$NUMSPIN	
2828	(B0C)	ADDRESS	4	$FCLPCE	FSS CLEANUP ON EOM PCES
2832	(B10)	SIGNED	2	$NUMFCL	
2836	(B14)	ADDRESS	4	$JCMDPCE	Job command processor
2840	(B18)	SIGNED	2	$NUMJCMD	
2844	(B1C)	ADDRESS	4	$XCFPCE	COUPLING PROCESSOR
2848	(B20)	SIGNED	2	$NUMXCF	
2852	(B24)	ADDRESS	4	$XCMPCE	XCF Command processor
2856	(B28)	SIGNED	2	$NUMXCM	
2860	(B2C)	ADDRESS	4	$ARMPCE	ARM SUPPORT PROCESSOR

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2864	(B30)	SIGNED	2	$NUMARM	
2868	(B34)	ADDRESS	4	$SNFPCE	SPOOL Management Processor
2872	(B38)	SIGNED	2	$NUMSNF	
2876	(B3C)	ADDRESS	4	$SPIPCE	Sysout API Processor
2880	(B40)	SIGNED	2	$NUMSPI	
2884	(B44)	ADDRESS	4	$DILPCE	Do It Later Processor
2888	(B48)	SIGNED	2	$NUMDIL	
2892	(B4C)	ADDRESS	4	$ALIPCE	Acquire Lock & Initiate
2896	(B50)	SIGNED	2	$NUMALI	Cleanup Executor
2900	(B54)	ADDRESS	4	$EOMPCE	EOM Processor
2904	(B58)	SIGNED	2	$NUMEOM	
2908	(B5C)	ADDRESS	4	$DAWNPCE	Distributed Available Work
2912	(B60)	SIGNED	2	$NUMDAWN	Notification processor
2916	(B64)	ADDRESS	4	$CDCPCE	Cross-system Device
2920	(B68)	SIGNED	2	$NUMCDC	Communication processor
2924	(B6C)	ADDRESS	4	$JOEIPCE	JOEINDEX service
2928	(B70)	SIGNED	2	$NUMJOEI	processor
2932	(B74)	ADDRESS	4	$EDSPCE	Email Delivery Services
2936	(B78)	SIGNED	2	$NUMEDS	processor
2940	(B7C)	ADDRESS	4	$PCYPCE	Policy services
2944	(B80)	SIGNED	2	$NUMPCY	processor
2944	(B80)	X'B7C'	0	$POSTLST	"*-$PCEHCTE" ADDR OF LAST PCE ELEMENT
2948	(B84)	BITSTRING	16	$RSV3(0)	RESERVED FOR FUTURE IBM USE
HASP PROCESSOR CONTROL ELEMENT DISPATCHER FIELDS					
2964	(B94)	ADDRESS	4	$PCEORG	ADDRESS OF FIRST PCE
2968	(B98)	ADDRESS	4	$PCELAST	ADDRESS OF LAST PCE
2972	(B9C)	ADDRESS	4	$CURPCE	ADDRESS OF CURRENT PCE (IF ANY)
2976	(BA0)	ADDRESS	4	$PCEPSTC	Non-main task PCE post chn
2980	(BA4)	BITSTRING	4		Reserved
2984	(BA8)	DBL WORD	8	(0)	ALIGN DISPATCHER ECF FIELDS
2984	(BA8)	BITSTRING	8	$HASPECF	MASTER EVENT CONTROL FIELD, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE POSTED
2992	(BB0)	BITSTRING	8	$MASECF	CROSS-SYSTEM EVENT CONTROL FIELD, RESOURCES $POSTED IN THIS ECF WILL BE PROPAGATED TO OTHER MEMBERS
3000	(BB8)	BITSTRING	1	$MLLMECF	LINE MGR ECF, IF BIT IS 1 LINE MGR SHOULD BE $POSTED IF SAME $HASPECF FLAG $POSTED AND $DRMLLM IS ON

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		PROCESSOR QUEUES There are 2 queues of $XECBs in JES2. The first is the queue of $XECBs that have been $WAITed on. This is a double threaded queue with $XECBQF pointing to the first element and $XECBQL pointing to the last. This queue has both converted and unconverted $XECBs on it. The second queue is the queue of converted $XECBs that have been posted. $XECBs are added out of the MVS POST exit and removed by the main task. This is a single threaded stack pointed to by $EXTECBQ. Note: a $XECB can only be placed on this queue if it is currently being $WAITED on (it is on the $XECBQF). To ensure this a CDS is used in JES2's MVS POST exit. This requires the 3 pointers to be arranged with the POSTED queue chain fields be between the 2 waited on chain fields. Do not change the order of these fields.				
3008	(BC0)	BITSTRING	0	$XECBQ(0)	Queue head of all $XECBs currently defined to JES2 dispatcher (serialized by JES2 main task)
3008	(BC0)	ADDRESS	4	$XECBQF	1st $XECB on chain
3012	(BC4)	ADDRESS	4	$EXTECBQ	QUEUE HEAD OF XECBS FOR PCES TO BE DISPATCHED.
3016	(BC8)	ADDRESS	4	$XECBQL	Last $XECB on chain
3020	(BCC)	ADDRESS	4	$DRQUES	DISPATCHER RESOURCE WAIT QUEUES, DOUBLE WORDS, FORWARD/BACKWARD POINTERS FOR CIRCULAR QUEUES
3024	(BD0)	SIGNED	4	$READY(0)	PCES READY FOR DISPATCH
3024	(BD0)	ADDRESS	4	$READYF	First $PCE on queue
3028	(BD4)	ADDRESS	4	$READYL	Last $PCE on queue
		All variable located between $SAVEBEG and $SAVEEND will be regularly checkpointed by JES2 and will be restored on any warm start of JES2.			
3032	(BD8)	DBL WORD	8	$SAVEBEG(0)	Beginning of save area
3032	(BD8)	CHARACTER	4	$MSTRID	MASTER RECORD EYECATCHER
3036	(BDC)	SIGNED	4	$MASTERL	CHECKPOINT MASTER RCD LEN
		New $MSTRVER values require a change to the $SCANTAB for $ACTIVATE/$D ACTIVATE. Also the equates for $MSTRVER must be defined for the $HCCT and $HFCT master record version fields			
3040	(BE0)	ADDRESS	1	$MSTRVER	Master record version
3040	(BE0)	X'A'	0	$MSTRHI	"$MSTRZ22" Most current ckpt version
3040	(BE0)	X'6'	0	$MSTRVRN	"6" Pre-OS 240 version #
3040	(BE0)	X'7'	0	$MSTRVR4	"7" OS 240 - OS 210 version #
3040	(BE0)	X'8'	0	$MSTRZ2	"8" z/OS 1.2 version #
3040	(BE0)	X'8'	0	$MSTRV12	"$MSTRZ2" Compatible equate
3040	(BE0)	X'9'	0	$MSTRZ11	"9" z/OS 1.11 version #
3040	(BE0)	X'A'	0	$MSTRZ22	"10" z/OS 2.2 version #
		When the size of the checkpoint is updated, the count in $CKPTUPD is updated. If the count in the master record does not match the count on the local member ($CKPTLOC), then the checkpoint has been updated.			
3041	(BE1)	BITSTRING	1	$CKPTUPD	CKPT update pending mask
3042	(BE2)	SIGNED	2	$MSTHCTL(0)	Length of CKPT HCT area
3044	(BE4)	ADDRESS	4	$CHLOGLN	LENGTH USED PART CH LOG

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3048	(BE8)	SIGNED	2	$CKTSEQN	Ckpt tuning cycle number
3050	(BEA)	SIGNED	1	$WCHECK	CKPT WRITE-CHECK-RCD Value
3051	(BEB)	BITSTRING	1	$CKPTFLG	CHECKPOINT DISPOSITION
3052	(BEC)	BITSTRING	8	$CKPUSER	CHECKPOINTED USER FIELD
3060	(BF4)	BITSTRING	4	$NEWSJQE	OFFSET OF JES2-NEWS JQE OR ZERO
3064	(BF8)	BITSTRING	4	$NEWSIOT	MTTR OF JES2-NEWS IOT, OR 0
3068	(BFC)	BITSTRING	2	$NEWSCLV	Level of current NEWS (one matching IOT in $NEWSIOT)
3070	(BFE)	BITSTRING	2	$NEWSLVL	Level number of news data set being created (same as $NEWSCVL if none being created)
3072	(C00)	ADDRESS	2	$QSELEN	Length of a QSE
3074	(C02)	ADDRESS	2	$ESQLEN	Length of ESQ entry
3076	(C04)	ADDRESS	4	$JQFREEI	First free JQE index
		$JQHEADI through $JQRBLDI (including the equate $JQRBDTY) must remain together. The scanning of the job queues depends on this.			
3080	(C08)	ADDRESS	4	$JQHEADI(47)	Heads of active job queue element (JQE) chains (JQE index)
3080	(C08)	X'4'	0	$JQHEADL	"4" LENGTH OF JOB QUE HEAD ENTRY
3080	(C08)	X'2F'	0	$JQTYPES	"(*-$JQHEADI)/$JQHEADL" NUMBER OF JOB QUEUES
3080	(C08)	X'90'	0	$JQCLSSZ	"36*$JQHEADL" NUMBER OF EXEC JOB CLASS QUEUES
3268	(CC4)	ADDRESS	4	$JQRBLDI	Job Rebuild Queue head (JQE index)
3268	(CC4)	X'30'	0	$JQRBDTY	"(*-$JQHEADI)/$JQHEADL" Number of job queues including rebuild queue
3272	(CC8)	SIGNED	2	$REBLDS	Total number of job/output rebuilds since last cold or all member warm start
3274	(CCA)	SIGNED	2	$KITNUM2	Num KITs in the checkpoint
3276	(CCC)	SIGNED	2	$JQELEN	TOTAL LENGTH OF A JQE
3278	(CCE)	SIGNED	2	$JQEMSKL	LENGTH-1 OF JQE SPLS USED MASK
3280	(CD0)	SIGNED	2	$JQEEXFR	OFFSET TO POSSIBLE FREE EXTENSION AREA IN MASTER RECORD
3282	(CD2)	ADDRESS	2	$MAXEXSZ	Maximum size of extension
		$HASP355 and some $HASP050 resources have a sysplex scope and need to be CKPTed. Here we maintain the member id of the JES that has issued the message for each resource. Also the threshold for each resource is maintained here. The time stamp for the HASP355 message is saved for comparison within the sysplex. Any new $HASP050 resources with a sysplex scope must have a SYSID and threshold percent pair, such as the ones below, added somewhere in the checkpointed portion of the HCT. Also the list of resources to be dealt with on a restart must be updated in HASPIRDA.			
3284	(CD4)	SIGNED	2	$RSCTABL(0)	Starting point of member ids and threshold values
3284	(CD4)	BITSTRING	1	$JQSYSID	SYSID for JQE message
3285	(CD5)	ADDRESS	2	$JQEPRCT	JQE threshold percentage
3287	(CD7)	BITSTRING	1	$JOSYSID	SYSID for JOE message

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3288	(CD8)	ADDRESS	2	$JOEPRCT	JOE threshold percentage
3290	(CDA)	BITSTRING	1	$JNSYSID	SYSID for JOB num message
3291	(CDB)	ADDRESS	2	$JNOPRCT	JOB NUM threshold percent
3293	(CDD)	BITSTRING	1	$TGSYSID	SYSID for TRK GRP message
3294	(CDE)	ADDRESS	2	$TGPRCT	TRK GRP threshold percent
3296	(CE0)	SIGNED	4	$SPFTIME	Time HASP355 message issued
3300	(CE4)	BITSTRING	1	$ZJSYSID	SYSID for ZJC message
3301	(CE5)	ADDRESS	2	$ZJCPRCT	ZJC threshold percentage
3303	(CE7)	ADDRESS	1		Reserved
3304	(CE8)	BITSTRING	4	$RSOCLDP	RSO cleaned up for mem mask
3308	(CEC)	ADDRESS	4		Reserved (was $FASNIFF)
3312	(CF0)	SIGNED	4	$SCQJQE	OFFSET OF SHRD COMM QUEUE JQE
3316	(CF4)	BITSTRING	32	$SPLEXST	BIT MSK OF EXISTNG SPLS
3348	(D14)	BITSTRING	32	$SPLSLCT	SPLS ABLE TO SELECT WRK
3380	(D34)	BITSTRING	1	$SPLINAC	MASK OF INACTIVE SPOOLS

```
$TGALLOC = $TGTOTAL-$TGFREE The number of track groups
           in use for all active spool volumes.
           Note: track groups assigned to the BLOB are
           considered allocated for purposes of this count
$TGTOTAL = Number of track groups on STATUS=ACTIVE spool
           volumes.
$TGDEFND = Number of track groups associated with any spool
           volume.
$TGFREE = Number of track groups available for allocation
           (on STATUS=ACTIVE spool volumes.)
           Note: track groups assigned to the BLOB are
           not considered free for purposes of this count
$NUMTG = Initialization Statement number of track groups
           in the system (size of TGM).
```

3412	(D54)	ADDRESS	4	$TGALLOC	NUM OF AVAILABLE TGS ALLOCATED
3416	(D58)	ADDRESS	4	$TGTOTAL	TOTAL NUMBER OF AVAILABLE TGS
3420	(D5C)	ADDRESS	4	$TGDEFND	NUMBER OF DEFINED TGS
3424	(D60)	ADDRESS	4	$TGFREE	FREE TG COUNT
3428	(D64)	ADDRESS	2	$QSEMAX	Number of members possible
3430	(D66)	ADDRESS	2	$QSENDEF	NUMBER OF DEFINED SYSTEMS
3432	(D68)	SIGNED	4	$CKRECS	Number of 4K CKPT pages (z11 mode only)
3436	(D6C)	SIGNED	4	$DASWRKQ	OFFSET OF 1ST DAS ON DAS WORK Q
3440	(D70)	SIGNED	4	$DASTRKQ	OFFSET OF 1ST DAS REP. IN TGM
3444	(D74)	SIGNED	4	$DATAKEY	MASTER PERIPHERAL DATA SET KEY
3448	(D78)	CHARACTER	4	$HASPID	CHECKPOINT RECORD IDENTIFICATION
3452	(D7C)	CHARACTER	8	$NDENAME	Node name

```
The following 2 fields are used for $HASP050 processing
```

3460	(D84)	BITSTRING	1	$BTSYSID	SYSID for BERT message
3461	(D85)	ADDRESS	2	$BRTPRCT	BERT threshold percentage
3463	(D87)	BITSTRING	1	$FNCCNT	Number of volumes to fence a job to
3464	(D88)	SIGNED	4	$ZAPTIME	Time last ZAPJOB executed

```
ZJC CTENT ( job zone ) info ( also see $ZJCPTR,
$ZJCNUM, and $ZJCLEN )
NOTE: - Also see $ZJC.
```

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3468	(D8C)	SIGNED	4	$ZODHEAD	Index of the first Zone Job Object Definition (ZOD) in the ZJC CTENT.
3472	(D90)	SIGNED	4	$ZJCFREI	Index of the first Zone Job Container (ZJC) object in FREE chain.
3476	(D94)	SIGNED	4	$ZJCFREN	Count of FREE Zone Job Container (ZJC) objects.
		The next two fields represent the highest and lowest VRM (Version, Release, Modification) JES2s active in the JESplex. See the $JES2xxx equates in $HASPEQU.			
3480	(D98)	SIGNED	2	$MASVER(0)	Versions active in JESplex
3480	(D98)	SIGNED	1	$HIGHVER(0)	Highest active JES2
3481	(D99)	SIGNED	1	$LOWVER(0)	Lowest active JES2
3482	(D9A)	ADDRESS	2	$PRIRATE	PRIORITY AGING RATE
3484	(D9C)	ADDRESS	1	$PRIHIGH	JOB PRIORITY AGING UPPER
3485	(D9D)	ADDRESS	1	$PRILOW	AND LOWER LIMITS
3486	(D9E)	ADDRESS	2	$PRORATE	OUTPUT PRIORITY AGING RATE
3488	(DA0)	ADDRESS	2	$PRTYOHI	OUTPUT PRIORITY AGING UPPER
3490	(DA2)	ADDRESS	2	$PRTYOLO	AND LOWER LIMITS
3492	(DA4)	BITSTRING	1	$FLAG1	Checkpointed flag byte
		1...		$UNSPUN	"B'10000000'" UNPROC SPIN IOTS QUEUED
		.1..		$NONSHR	"B'01000000'" NON-SHARED SPOOLS ALLOWED
		..1.		$MASACTV	"B'00100000'" SPECIFIES MORE THAN ONE RUNNING SYSTEM FOR MAS AND IS SET EVERY CHECKPOINT CYCLE
		...1		$MVFENCE	"B'00010000'" SPOOL FENCING (MINIMUM NUMBER OF VOLUMES PER JOB) IN EFFECT
		.... 1...		$EXECDUP	"B'00001000'" Duplicate job checking is suppressed
		.... .1..		$CNVTWEE	"B'00000100'" Indicates the converter should wait for EXCL ENQs
		EQU B'00000010' Reserved, (was $BRDCST_R2)			
		1		$PRUNSP	"B'00000001'" PROCESSING UNSPUN OUTPUT
3493	(DA5)	BITSTRING	1	$FLAG2(0)	2nd ckptpointed flag byte
		1...		$WTBSYJO	"B'10000000'" AN OUTPUT PROCESSOR IS WAITING AVAILABILITY OF A BUSY JOE
		.1..		$CF1VOL	"B'01000000'" MAS knows CKPT1 is volatile
		..1.		$CF2VOL	"B'00100000'" MAS knows CKPT2 is volatile
		...1		$CKOPVER	"B'00010000'" CKPTDEF OPVERIFY=YES

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				The format of MTTRs is controled by the following 4 bits. $SPLADRA and $SPLADRS control whether relative or absolute track addressing is used. $SPLLGDS and $SPLMTTT control the number of bits assigned to the tracks. These bits are only used when the volume is started. Track addresses (MTTRs) come in 3 formats: - absolute track addressing (traditional format) TT is a 16 bit absolute track address. - Relative track addressing (default) TT is a 16 bit relative track address. - Large data set format. Track address format is MTTtr, tt is a 20 bit relative track address. $ $ $ $ S S S S P P P L L L L P A A L M D D G T R R D T A S S T Meaning 0 0 0 0 Absolute track addressing (deprecated) 1 x 0 0 Relative track addressing (always) 0 1 0 0 Relative track addressing (ifneeded) 1 x 1 0 Large data set support is active and 20 bit TTs used if SPOOL data set being started has >64K tracks. 1 x 1 1 Large data set support is active and 20 bit TTs used for all new SPOOL volumes $SPLADRA and $SPLADRS are no longer used as of z/OS 1.7. Relative track addressing is always used if the volume is started by 1.7.	
		.... 1...		$SPLADRA	"B'00001000'" Always use relative addr.
		.... .1..		$SPLADRS	"B'00000100'" Use relative addr as needed
				Sniff faster flag. If on, perform sniffing as quickly as possible until a "house call" has been made for all track groups. After all track groups have been sniffed, revert to one house call / week. The MOOB (Extent, offset, bit) where "GCRATE=FAST" began is kept in $FASNIFF.	
		.... ..1.		$SNIFAST	"B'00000010'" In "GCRATE=FAST" mode
		1		$SNFNSYM	"B'00000001'" Suppress SYMREC generation during sniffer
				$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.	
3494	(DA6)	SIGNED	2	$CKPCTPW	Count of checkpoint writes
3496	(DA8)	SIGNED	4	$OPSPJNO	LAST JOB IN JIX EXAMINED FOR UNSPUN WORK
3500	(DAC)	SIGNED	2	$CLRECN	NUMBER OF 4K RECS IN CH LG
				COLD START INFORMATION - VERSION, SYSID, DATE, TIME	
3502	(DAE)	CHARACTER	5	$COLDJSN	NAME OF JOB ENTRY SUBSYSTEM
3507	(DB3)	CHARACTER	8	$COLDVSN	VERSION OF JES2
3515	(DBB)	CHARACTER	11	$COLDJSP	
3526	(DC6)	CHARACTER	4	$COLDSID	SMF SYSID FOLLOWED BY A SPACE
3531	(DCB)	BITSTRING	1	$FLAG5	5th checkpointed flag
		1...		$ZEROTGS	"B'10000000'" Zero just-freed SPOOL TGs
		.1..		$LDSRENA	"B'01000000'" Large dataset range is enabled.

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$CNVSCHE	"B'00100000'" Use scheduling environ affintiy for conversion
		...1		#POSTWTO	"B'00010000'" Message when $#POST
		.... 1...		$ENFJPLX	"B'00001000'" ENF 58/70/78 JESplex only
		.... .1..		$CCMAUTO	"B'00000100'" if on, CYCLEMGT=AUTO if off, CYCLEMGT=MANUAL
		.... ..1.		$CONSETP	"B'00000010'" if on, at least one concurrent-set is awaiting execution green light via IWMBLOC
		EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. $FLAG6 must be kept in sync with: CCTFLAG6 in the HCCT PDBEVTLS in the PDDB NJH2FLG2 in the NJE job header			
3532	(DCC)	BITSTRING	1	$FLAG6	6th checkpointed flag
		1...		$EVTLSMF	"B'10000000'" Suppress EVENTLOG SMF rec
		..1.		$EVTLRST	"B'00100000'" Suppress EVENTLOG RESTART
		...1		$EVTLTRC	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		$EVTLUSR	"B'00001000'" Suppress EVENTLOG USER rc
		Feature Suppression flags. $KFCFLG7 must be kept in sync with: CCTKFCF7 in the HCCT Bit settings are interpreted as follows:			
3533	(DCD)	BITSTRING	1	$KFCFLG7	7th checkpointed flag Kill Feature Conditions
		1...		$EVTLOFF	"B'10000000'" Suppress EVENTLOG writes
		.1..		$NONPNJE	"B'01000000'" Suppress non-printable data sets on NJE
		Advanced Format flags.			
3534	(DCE)	BITSTRING	1	$FLAGA	8th checkpointed flag
		1...		$ADVENCS	"B'10000000'" Encryption support has been activated at least once. Once set, down level MAS members (<2.4) may not join. Once set never unset
		.1..		$ADVENCA	"B'01000000'" Data set encryption is allowed.
3535	(DCF)	BITSTRING	1		Reserved for future use
3536	(DD0)	SIGNED	4	$COLDDTM(2)	DATE AND TIME STAMP IN 'TIME BIN' FORMAT
3544	(DD8)	SIGNED	4	$LASTCLD	STCK time of cold start
3548	(DDC)	SIGNED	4	$LASTSPV	STCK time of last track group map rebuild
3552	(DE0)	CHARACTER	4	$SPVMNAM	Member name of system doing spool validation
3556	(DE4)	SIGNED	4	$LASTAMW	STCK time of last all member warm start

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3560	(DE8)	CHARACTER	4	$AMWMNAM	Member name of system doing all member warm start
		THE FOLLOWING FIELDS ARE USED FOR CHECKPOINT VERIFICATION DURING A WARM START OF JES2			
3564	(DEC)	ADDRESS	2	$NUMNODE	MAXIMUM NUMBER OF NODES
3566	(DEE)	CHARACTER	5	$SPOOL	SPOOL VOLUME PREFIX
3571	(DF3)	SIGNED	1	$SPLLEN	NUMBER-1 OF CHARS OF $SPOOL
3572	(DF4)	SIGNED	2	$SPOLNUM	NUMBER OF SPOOL VOLUMES
3572	(DF4)	X'DF5'	0	$SPLNUMB	"$SPOLNUM+1,1" ALLOWED (ONE BYTE VERSION)
3574	(DF6)	ADDRESS	2	$BUFSIZE	HASP BUFFER SIZE
3576	(DF8)	ADDRESS	2	$ESQNUM	Number of ESQ entries
3578	(DFA)	CHARACTER	1	$BADJNC	Char for bad jobname
3579	(DFB)	BITSTRING	1	$FLAG3(0)	3rd ckpt flag
		1...		$SPLLGDS	"B'10000000'" Large SPOOL DS support active
		.1..		$SPLMTTT	"B'01000000'" Always use new MQTR fmt
		..1.		$SPLLGUS	"B'00100000'" Large data sets was active at least once
		EQU B'00000010' Reserved (used in z8 thru			
		EQU B'00010000' Reserved (used in z7 thru			
		EQU B'00001000' Reserved (used in z7 thru			
		EQU B'00000100' Reserved (used in z8 thru			
		1		$SNFZ7FS	"B'00000001'" Z7 or later fast sniff mode
3580	(DFC)	ADDRESS	4	$NUMJOES	NUMBER OF JOB OUTPUT ELEMENTS
3584	(E00)	ADDRESS	2	$NODEID	NUMBER OF THIS NODE
3586	(E02)	ADDRESS	1	$RECINCR	RECORD ALTERNATION PARAMETER
3587	(E03)	ADDRESS	1	$TCELSIZ	NBR OF BUFFERS IN A TRAKCELL
3588	(E04)	ADDRESS	4	$NUMTG	TOTAL NUMBER OF TRACK GROUPS
3592	(E08)	BITSTRING	1	$DESTFLG	USERDEST flag
		1...		$DESTNNN	"B'10000000'" Nnnnn is a userid
		.1..		$DESTRNN	"B'01000000'" Rnnnn is a userid
		..1.		$DESTRMN	"B'00100000'" RMnnnn is a userid
		...1		$DESTRMT	"B'00010000'" RMTnnnn is a userid
		.... 1...		$DESTUNN	"B'00001000'" Unnnn is a userid
		.... .1..		$DESTDLC	"B'00000100'" Display 'LOCAL.' if userid (only set in HCCT)
		.... ..1.		$DESTNNR	"B'00000010'" DEST=userid is not allowed; Must use nodename.userid
3593	(E09)	SIGNED	1	$JIXMPCN	Count of job numbers freed since last JIX map update
3594	(E0A)	ADDRESS	2	$JNTSIZE	JNT size (JIX prefix)
3596	(E0C)	SIGNED	4	$BERTNUM	Number of BERTs

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3600	(E10)		4	$SPLBYTS	Bytes of spool (FP value)
3604	(E14)	CHARACTER	8	$XCFGPNM	XCF Group Name
3612	(E1C)	SIGNED	4	$JQEFRCN	Count of free JQEs
3616	(E20)	ADDRESS	4	$JQENUM	Max number of jobs in the system
3620	(E24)	SIGNED	2	$ZJCLEN	Length of a Zone Job Container (ZJC) object in the ZJC CTENT.
3622	(E26)	BITSTRING	1	$FLAG4	4th ckptpointed flag byte
		1...		$BERT255	"B'10000000'" Free BERTs < 255
		EQU B'01000000' Was $A24852 Bits must be defined with 16 "left" of MIN			
		..1.		$BERT16	"B'00100000'" Free BERTs <= 16
		...1		$BERTMIN	"B'00010000'" Free BERTs <= $BERTHRS
		.... 1...		$BERTESH	"B'00001000'" Extreme BERT shortage detected - Q errors expected
		.... .1..		$SPLEASS	"B'00000100'" Extended addressing space (EAS) has been activated at least once. Once set - down level MAS members (<12) may not join. Once set - never unset.
		.... ..1.		$SPLEASA	"B'00000010'" JES2 data set allocation (DISP=old/new) may reside in EAV cyl managed-(EAS) storage. This pertains to spool and checkpoint data sets.
		1		$MCJCLAS	"B'00000001'" At least 1 multi character batch jobclass or job class group exists
3623	(E27)	ADDRESS	1	$DASEXSZ	DAS extension size
3624	(E28)	BITSTRING	6	$LASNIFL	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)
		The following field represents the MOOB (extent offset bit) of the first track group sniffed while in "GCRATE=FAST" mode. See $SNIFAST flag bit. A zero value in this field means that no "GCRATE= FAST" has ever been done since the last cold start. This field is meaningless unless the $SNIFAST flag is set. This field is set to the current $LASNIFF as soon as the $SNIFAST bit is set. The high order value of STCK is stored in $FASNIFF when "GCRATE=FAST" ends for diagnostic purposes. NOTE GCRATE - Garbage Collection RATE (internally sniff fast).				
3630	(E2E)	BITSTRING	6	$FASNIFL	Extent number, Extent TG offset and bit of first trackgroup examined by sniffer in "fast" mode
3636	(E34)	SIGNED	4	$TIPSJBN	TIPS Job number
3640	(E38)	DBL WORD	8	$CLASDUP(0)	Classes with CAT3DUOK on
3648	(E40)	SIGNED	2	$JQXSIZE	JQX array entry size.
3650	(E42)	SIGNED	2	$RCDSIZE	RECY array entry size.
3652	(E44)	SIGNED	2	$JOXSIZE	JOX array entry size.
3654	(E46)	BITSTRING	1	$JXFLAG	JOE index control flags
		1...		$JXFCRT	"B'10000000'" JOE index was created
		.1..		$JXFACT	"B'01000000'" JOE index is active (up to date)

Table 211. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$JXFBLD	"B'00100000'" Build is in progress
3655	(E47)	ADDRESS	1	$RJOBOP2	Ckpted job options
		1...		$LOGFOLD	"B'10000000'" Fold JESYSMSG output
		.1..		$PRECHEK	"B'01000000'" NJE Precheck dubious jobs
		..1.		$VFYSUBN	"B'00100000'" NJE verify subnet paths
3656	(E48)	ADDRESS	4	$ZJCNUM	Number of Zone Job Container (ZJC) objects in the ZJC CTENT.
3660	(E4C)	SIGNED	4	$SAVEEND_Z11(0)	Z11 end of CKPTed HCT
3660	(E4C)	X'274'	0	$SAVELEN_Z11	"$SAVEEND_Z11-$SAVEBEG" Length of z11 checkpointed HCT
		The following fields are only written to the checkpoint in z22 $ACTIVATE mode.			
3660	(E4C)	SIGNED	4	$CONJNUM	Number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set
3664	(E50)	ADDRESS	4	$ZODJNUM	Number of jobs allowed to be defined in a JOBGROUP
3668	(E54)	BITSTRING	1	$PRAFLAG	Privilege control flags
		1...		$PRASUSP	"B'10000000'" Privilege support has been suspended due to reason code in $PRAERR. Warm start required to fix.
		.1..		$PRAOOFF	"B'01000000'" Privilege support has been turned off due to operator request.
		..1.		$PRASMAL	"B'00100000'" Privilege small environment active
3669	(E55)	BITSTRING	1	$PRERR	Reason privilege support was suspended - see error reason codes in $PRA
3670	(E56)	ADDRESS	1	$PRINCNT	Number of MAS wide PRAOBJ fetches - since priv resources have been checked for activation/ reset eligibility
3671	(E57)	BITSTRING	1		Reserved for future use
3672	(E58)	SIGNED	4	(22)	Reserved for future use
3760	(EB0)	SIGNED	4	$SAVEEND(0)	z/OS 2.2 end of CKPTed HCT
3760	(EB0)	X'2D8'	0	$SAVELEN	"$SAVEEND-$SAVEBEG" Length of z/OS 2.2 checkpointed HCT
		HASP R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
3760	(EB0)	X'150'	0	$HCTPSZ	"4096-(*-HCT)"
3760	(EB0)	BITSTRING	1	$PATCHSP(0)	DEFINE PATCH SPACE
3760	(EB0)	X'1000'	0	$HCTLEN	"*-HCT" LENGTH OF ENTIRE HCT

Table 212. Cross Reference for $HCT

Name	Offset	Hex Tag
$#INDEXA	210	
$ABDNBUF	46E	0
$ACCMBAD	908	
$ACTABLE	168	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$ACTIGN	3CD	80
$ACTIVE	8AC	
$ACTREQ	3CD	40
$ACTRNUM	E8	
$ACTVFSS	8B0	
$ADDSYNS	3CC	80
$ADVENCA	DCE	40
$ADVENCS	DCE	80
$AFFINTY	895	0
$AFFLEN	88C	
$AFFLENH	88C	88E
$ALIPCE	B4C	
$ALLFFS	750	FFFFFFFF
$AMWMNAM	DE8	40404040
$APPLTBL	16C	
$AQSE	170	
$ARMPCE	B2C	
$ARMVR	628	8
$ASYNCQ	174	
$ASYNPCE	9B4	
$ASYPCIQ	178	
$AUTOINV	3BC	
$AUTONJE	891	10
$AUTORST	891	8
$BADJNC	DFA	6F
$BADTRTG	304	
$BERTESH	E26	8
$BERTHRS	633	0
$BERTMIN	E26	10
$BERTNNM	891	2
$BERTNUM	E0C	0
$BERTPTR	17C	
$BERT16	E26	20
$BERT255	E26	80
$BFSZBSC	4FA	208
$BFSZPP	4FE	0
$BFSZSNA	4FC	190
$BFXLGRQ	444	0
$BFXNWBF	442	0
$BFXPRCT	43A	50
$BFXWBF	440	0
$BITSONA	180	
$BLANKS	6E8	40404040
$BRTCLN	891	80
$BRTDTYP	8FD	0
$BRTFREC	920	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$BRTPRCT	D85	
$BSCCHEQ	308	
$BSCFREC	422	0
$BSCLGRQ	428	0
$BSCNWBF	426	0
$BSCPRCT	41E	50
$BSCPRIV	420	0
$BSCWBF	424	0
$BSPGCT	504	
$BSPNTE	505	
$BSPSIZ	506	1C
$BTSYSID	D84	0
$BUFLENG	8A8	0
$BUFLGRQ	436	0
$BUFNWBF	434	0
$BUFPRCT	42C	50
$BUFPRIV	42E	0
$BUFSIZE	DF6	F98
$BUFWBF	432	0
$BUFXPRI	43C	0
$BUSYQUE	184	
$BUSYRQ	188	
$CATCACH	6C4	
$CATMAX	890	4
$CATQUE	18C	
$CCMAUTO	DCB	4
$CCOMCH	509	5B
$CCOMCHR	4D5	5B
$CDCPCE	B64	
$CF1VOL	DA5	40
$CF2VOL	DA5	20
$CHLOG	190	
$CHLOGLN	BE4	
$CHLOGSZ	8CC	0
$CIPERAS	3C6	
$CKG1	194	
$CKG2	198	
$CKLEVNM	380	384
$CKOLDLV	388	
$CKOPVER	DA5	10
$CKPCTPW	DA6	0
$CKPTDPS	62C	10
$CKPTDPY	62C	8
$CKPTDWN	62C	80
$CKPTFG1	62C	39
$CKPTFG2	62D	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$CKPTFG3	62E	0
$CKPTFG4	62F	0
$CKPTFG5	632	0
$CKPTFLG	BEB	0
$CKPTLDP	62C	1
$CKPTLEV	380	0
$CKPTLOC	631	0
$CKPTLVP	380	380
$CKPTMSG	62C	40
$CKPTOAC	854	
$CKPTONX	858	
$CKPTPCE	9EC	
$CKPTPRI	62C	2
$CKPTQHD	1A0	
$CKPTTEK	62C	4
$CKPTTMD	62C	20
$CKPTUPD	BE1	0
$CKPUSER	BEC	0
$CKRECS	D68	0
$CKTSEQN	BE8	0
$CKW	1A4	
$CK1DFLT	62C	39
$CK2CKPW	62D	10
$CK2DIAG	62D	80
$CK2EXTN	62D	20
$CK2INIT	62D	40
$CK3ACTV	62E	1
$CK3BYLK	62E	40
$CK3CHLG	62E	20
$CK3KRD1	62E	80
$CK34KPG	62E	10
$CK4CKAB	62F	1
$CK4CKPC	62F	2
$CK4HRSV	62F	4
$CK4OPRQ	62F	8
$CK4OPVN	62F	10
$CK4OPVY	62F	20
$CK5ACT	632	40
$CK5QSUS	632	80
$CLASDUP	E38	
$CLCB	19C	
$CLOCK	7C0	0
$CLRECN	DAC	0
$CMBFREC	47E	0
$CMBLIM	478	0
$CMBPRCT	476	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$CMDPRCT	472	
$CNVSCHE	DCB	20
$CNVTWEE	DA4	4
$COLDDTM	DD0	0
$COLDJSN	DAE	D1C5E2F2
$COLDJSP	DBB	40C3D6D3
$COLDSID	DC6	
$COLDVSN	DB3	40404040
$COMEXTN	1A8	
$COMMABT	62A	20
$COMMDWN	62A	80
$COMMFG1	62A	0
$COMMPCE	9A4	
$COMMQTP	1B0	
$COMMQUE	1AC	
$COMMWAT	62A	40
$CONJNUM	E4C	0
$CONSETP	DCB	2
$CPTMAP	1C0	
$CPTPOOL	1C4	
$CREATE	3CB	1
$CTBADA	524	
$CTLBLEN	88C	4
$CTLBLNH	892	4
$CURPCE	B9C	
$CYLMAPL	884	
$DADEBAD	1C8	
$DADFMEM	C6	0
$DADFRCT	D0	0
$DASAREA	1CC	
$DASEXSZ	E27	
$DASEXT	1D4	
$DASFRST	1D0	
$DASTRKQ	D70	0
$DASWRKQ	D6C	0
$DATAKEY	D74	0
$DAWNPCE	B5C	
$DBGALL	3DF	FF
$DCTPOL2	928	
$DCTPOOL	924	
$DDSEGLM	3B0	
$DEBGOPS	3DE	80
$DEBGOP2	3DF	
$DELAYTM	390	
$DESTDLC	E08	4
$DESTFLG	E08	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$DESTNNN	E08	80
$DESTNNR	E08	2
$DESTRMN	E08	20
$DESTRMT	E08	10
$DESTRNN	E08	40
$DESTUNN	E08	8
$DIAGTBL	104	
$DILHEAD	E0	
$DILPCE	B44	
$DILTAIL	E4	
$DISPACE	492	A
$DISPCNT	490	0
$DISPSVA	850	
$DLSPCE	A74	
$DMNDSET	3CB	4
$DOMIDN	4CC	2
$DOMID1	4C8	
$DOMQUE	1D8	
$DOMQUEA	1DC	
$DOUBLE	698	0
$DPCEACT	588	
$DPCEALC	582	
$DPCEDEF	580	
$DPCEDSF	58C	C
$DPCEDSM	58C	4
$DPCEDSN	58C	8
$DPCEDSO	58C	14
$DPCEDSX	58C	18
$DPCEDSY	58C	10
$DPCEEND	584	
$DPCEFLG	58C	
$DPCELEN	58C	D
$DPCETMD	58C	20
$DPCETMX	58C	C0
$DPCETOF	58C	40
$DPCETON	58C	80
$DPCETSF	58C	60
$DPCETSO	58C	A0
$DRQUES	BCC	
$DSPXITA	7C	
$DSTRSTK	160	
$DTEALOC	11C	
$DTEASST	128	
$DTECKCF	144	
$DTECKDA	148	
$DTECKVR	140	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$DTECNVT	138	
$DTEEOM	150	
$DTEGSUB	14C	
$DTEIMAG	118	
$DTELAST	114	
$DTELIM	154	
$DTELIST	5D6	598
$DTELIS2	5AD	598
$DTELSTF	598	
$DTELST2	598	
$DTEMIG	124	
$DTEOFF	13C	
$DTEORG	110	
$DTESMF	12C	
$DTESPOL	120	
$DTEVTM	130	
$DTEWTO	134	
$DWAHEAD	B8	
$DWATAIL	BC	
$DWORK	6A0	0
$DWORK2	6A8	0
$ECBEXTN	78	1800000
$ECKTRMJ	628	1
$EDSGPTS	3C4	80
$EDSPCE	B74	
$EDSSTAT	3C4	0
$EMEMAFF	1E0	0
$ENFJPLX	DCB	8
$ENFPCE	A04	
$EOMPCE	B54	
$ERDM497	4C8	
$ERDOMID	904	
$ERRAFF	8D4	
$ERRCODE	8E4	0
$ERREOPT	8EC	
$ERRERPL	8D0	
$ERRJQE	8E8	
$ERRREGS	8D8	
$ERRREG0	8D8	8DC
$ERRTABA	1E4	
$ERRTRCA	8C4	
$ESQLEN	C02	
$ESQNUM	DF8	
$ESQPTR	570	
$ESTBYTE	3EC	
$ESTIME	410	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$ESTIM9L	410	4
$ESTLNCT	3F8	
$ESTLN9L	3F8	6
$ESTMX9L	3EC	6
$ESTPAGE	3E0	
$ESTPG9L	3E0	8
$ESTPN9L	404	8
$ESTPUN	404	
$ESTTCNT	3E0	5
$EST1	3E0	
$EVTLOFF	DCD	80
$EVTLRST	DCC	20
$EVTLSMF	DCC	80
$EVTLTRC	DCC	10
$EVTLUSR	DCC	8
$EXCPCT	8F0	0
$EXCPEXA	8C	
$EXECDUP	DA4	8
$EXECDWN	62B	80
$EXECEDS	62B	20
$EXECFG1	62B	0
$EXECPCE	9AC	
$EXECSPN	62B	40
$EXTECBQ	BC4	
$EZAADDR	1E8	
$FASNIFL	E2E	0
$FCLPCE	B0C	
$FLAGA	DCE	0
$FLAG1	DA4	0
$FLAG2	DA5	18
$FLAG3	DFB	A0
$FLAG4	E26	0
$FLAG5	DCB	0
$FLAG6	DCC	0
$FNCCNT	D87	0
$FREEJOE	EC	
$FSSETIM	8F4	
$F0	764	0
$F1	768	1
$F15	788	F
$F2	76C	2
$F255	78C	FF
$F3	770	3
$F4	774	4
$F4096	790	1000
$F5	778	5

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$F6	77C	6
$F65535	794	FFFF
$F7	780	7
$F8	784	8
$GENGRD	624	CC33AA55
$GENSYS	598	0
$GENWORK	598	
$GENWRKL	624	8C
$GENWTHT	59C	
$GENWTHW	5A0	
$GENWTJN	5A4	
$GETWKSF	670	674
$GETWKSV	670	0
$GETWKS1	670	67C
$GETWKS2	670	680
$GETWRKA	1F4	
$GTWKTAB	1F0	
$HASCB	1F8	
$HASPDCB	1FC	
$HASPECB	74	
$HASPECF	BA8	0
$HASPID	D78	D1C5E2F2
$HASPMAP	64	
$HASPPRM	2A8	C8C1E2D7
$HASPRB	200	
$HASPTCB	204	
$HASP051	914	0
$HCCT	2FC	
$HCTLEN	EB0	1000
$HCTPSZ	EB0	150
$HETOKEN	8C8	0
$HEXTRAN	798	6AC
$HFAM	208	
$HIBITOF	75C	75C
$HIBITON	798	80000000
$HIGHVER	D98	61
$HTDIST	50A	A
$H0	764	766
$H1	768	76A
$H2	76C	76E
$H255	78C	78E
$H3	770	76F
$H4	774	776
$H4096	790	792
$H5	778	77A
$H6	77C	77E

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$H7	780	782
$H8	784	786
$ICEFREC	46A	0
$ICEFRZC	46C	0
$ICELIM	468	0
$ICELOST	20C	
$ICEPRCT	466	50
$IMAGE	158	
$INCHECK	8AA	80
$INCNCKD	8AA	40
$INIWARM	214	
$INTRDCB	628	4
$IPCSLVL	61	
$IRCPCE	A24	
$JAXPTR	108	
$JCLPCE	A34	
$JCMDPCE	B14	
$JCOPYLM	508	
$JESACCT	218	
$JESSECL	228	40404040
$JESTOKA	21C	
$JESUSER	220	40404040
$JES2_LEVEL	334	
$JINITIP	890	40
$JIXMPCN	E09	0
$JNEW	230	
$JNOPRCT	CDB	
$JNSYSID	CDA	0
$JNTPTR	234	
$JNTSIZE	E0A	
$JOABTYP	894	FF
$JOBQPTR	23C	
$JOEIPCE	B6C	
$JOEPRCT	CD8	
$JOEWRKA	6C0	
$JOSYSID	CD7	0
$JOTABLE	240	
$JOTPOST	244	
$JOXPTR	250	
$JOXSIZE	E44	0
$JQCLSSZ	C08	90
$JQEEXFR	CD0	0
$JQEEXT	248	
$JQEFRCN	E1C	0
$JQEFUDG	33E	0
$JQELEN	CCC	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$JQEMSKL	CCE	3
$JQENUM	E20	
$JQEPRCT	CD5	
$JQFREEI	C04	
$JQHEADI	C08	
$JQHEADL	C08	4
$JQRBDTY	CC4	30
$JQRBLDI	CC4	
$JQRPCE	A0C	
$JQSYSID	CD4	0
$JQTYPES	C08	2F
$JQXPTR	24C	
$JQXSIZE	E40	0
$JSPL	7B8	7B7
$JSPLL	7B7	
$JSPLV	7B8	D1C5E2E2
$JWEHAVT	258	
$JWELTBL	254	
$JXFACT	E46	40
$JXFBLD	E46	20
$JXFCRT	E46	80
$JXFLAG	E46	0
$J2CLJBP	3D0	0
$J2CLMSG	3D0	1
$J2CLNFY	3D0	3
$J2CLNTA	3D0	2
$J2CLOPT	3D0	FFFFFFFF
$J2CLOP1	3D0	3D0
$J2CLOP2	3D0	3D1
$J2CLOP3	3D0	3D2
$J2CLOP4	3D0	3D3
$J2CLOUT	3D0	4
$J2CLPRY	3D0	5
$J2CLRTE	3D0	6
$J2CLSET	3D0	7
$J2CLXEQ	3D0	8
$J2CLXMT	3D0	9
$J3CLDS	3D4	1
$J3CLEDS	3D4	2
$J3CLEPR	3D4	9
$J3CLFMT	3D4	3
$J3CLMN	3D4	0
$J3CLNET	3D4	4
$J3CLNTA	3D4	5
$J3CLOPR	3D4	6
$J3CLOPT	3D4	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$J3CLOP1	3D4	3D4
$J3CLOP2	3D4	3D5
$J3CLOP3	3D4	3D6
$J3CLOP4	3D4	3D7
$J3CLPAU	3D4	7
$J3CLPRC	3D4	8
$J3CLRTE	3D4	A
$KFCFLG7	DCD	0
$KITNUM	394	
$KITNUM2	CCA	0
$KITPTR	25C	
$LASNIFL	E28	0
$LASTAMW	DE4	0
$LASTCLD	DD8	0
$LASTSPV	DDC	0
$LBFREC	430	0
$LBXFREC	43E	0
$LCKPTR	260	
$LCLADCT	988	
$LDSRENA	DCB	40
$LDVCACH	974	
$LEVEL	334	A961D6E2
$LIMPTR	578	
$LINECT	3CE	
$LIRCT	518	1
$LMTPBOT	70	
$LMT1	68	
$LMT1C	6C	
$LNEDCT	93C	
$LOCKOUT	398	3E8
$LOGFOLD	E47	80
$LOGNDCT	944	
$LOWVER	D99	61
$LSEPDBL	4BE	10
$LSEPFUL	4BE	20
$LSEPHAF	4BE	40
$LSEPNON	4BE	80
$LSPTR	264	
$MACVERS	60	F6
$MAILMSG	3CF	80
$MAINSTK	15C	
$MASACTV	DA4	20
$MASECF	BB0	0
$MASPOST	8A6	0
$MASTER	268	
$MASTERI	26C	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$MASTERL	BDC	0
$MASVER	D98	
$MAXCMCT	8F3	
$MAXDBLE	75C	7FFFFFFF
$MAXDELT	3B4	78
$MAXDORM	3AC	1F4
$MAXEXSZ	CD2	4E20
$MAXFAIL	4B4	0
$MAXFULL	75C	75C
$MAXHALF	75C	75C
$MAXHOP	3BA	0
$MAXINT	3A4	
$MAXMSGQ	3B6	C8
$MAXPART	50E	3
$MAXREST	89C	
$MAXSESS	464	0
$MAXVUSE	4B0	0
$MCJCLAS	E26	1
$MCONACT	629	80
$MCONFG1	629	0
$MCONMSG	270	
$MCONNPM	629	20
$MCONPCE	9F4	
$MCONWAT	629	40
$MCONWPM	629	10
$MCT	F4	
$MG607FL	482	
$MG607F1	482	0
$MG607F2	483	0
$MG607TM	484	0
$MIGRIOQ	1B8	
$MIGRQCD	1B8	
$MIGRQSQ	1BC	
$MINDORM	3A8	64
$MINHOLD	39C	5F5E0FF
$MINUS1	750	750
$MINUS2	754	FFFFFFFE
$MISCPCE	A14	
$MLBFSIZ	4F8	190
$MLLMECF	BB8	0
$MLLMPCE	9DC	
$MLNEDCT	940	
$MODREFR	891	4
$MSAVE	634	
$MSKNODE	8BC	80402010
$MSTHCTL	BE2	2D8

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$MSTRHI	BE0	A
$MSTRID	BD8	D4E2E3D9
$MSTRVER	BE0	
$MSTRVRN	BE0	6
$MSTRVR4	BE0	7
$MSTRV12	BE0	8
$MSTRZ11	BE0	9
$MSTRZ2	BE0	8
$MSTRZ22	BE0	A
$MVFENCE	DA4	10
$MVSDISP	7D8	
$MVSPSEQ	3C0	
$MVSWAIT	7C8	
$MWORK	274	
$M581DVN	580	
$M581ERR	58C	
$M581FGF	590	80
$M581FLG	590	
$M581FL1	590	40
$M581FL2	590	20
$M581FNT	590	10
$M581INF	58E	
$M581RC	588	
$M607AAS	483	40
$M607ACM	483	8
$M607ACT	482	20
$M607CKR	483	2
$M607CRS	482	4
$M607DIL	483	10
$M607ESP	483	80
$M607HLD	482	10
$M607IO	482	80
$M607LCK	482	8
$M607NET	483	20
$M607PCE	482	1
$M607SPM	483	4
$M607SPN	482	2
$M607WTO	482	40
$NDDOMID	90C	
$NDENAME	D7C	40404040
$NENFINP	3C5	
$NETACCT	278	
$NETDCTS	954	
$NETLDCT	950	
$NETLNES	994	0
$NEWSCLV	BFC	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NEWSIOT	BF8	0
$NEWSJQE	BF4	0
$NEWSLVL	BFE	0
$NHBFREC	45A	0
$NHBLGRQ	460	0
$NHBLIM	458	0
$NHBNWBF	45E	0
$NHBPRCT	456	50
$NHBWBF	45C	0
$NIPFCB	4E8	5C5C5C5C
$NIPFLSH	4F0	5C5C5C5C
$NIPUCS	4EC	C7C6F1F0
$NITABLE	27C	
$NITCPTR	280	
$NITCSEQ	284	0
$NITECNT	91E	0
$NITESIZ	8A4	0
$NJEADCT	978	
$NJEOPTS	3CF	
$NJRPCE	AA4	
$NJTPCE	A94	
$NMSGFRE	48C	0
$NMSGNUM	488	0
$NMSGPRC	480	
$NODEID	E00	1
$NODETOL	8A2	0
$NODREST	8A0	64
$NONPNJE	DCD	40
$NONSHR	DA4	40
$NOPRCCW	4BC	
$NOPUCCW	4BD	
$NPMPCE	AD4	
$NRMPCE	ADC	
$NRRPCE	AE4	
$NRTPCE	AEC	
$NSRPCE	AC4	
$NSTPCE	AB4	
$NUCFIXD	288	
$NUMACE	50C	14
$NUMALI	B50	10000
$NUMARM	B30	10000
$NUMASYN	9B8	10000
$NUMAUTO	3BE	0
$NUMBSC	41C	0
$NUMBUF	42A	FFFF
$NUMBUFX	438	FFFF

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NUMCDC	B68	10000
$NUMCKPT	9F0	10000
$NUMCMBS	474	64
$NUMCMDS	470	0
$NUMCNVT	A38	A0000
$NUMCOMM	9A8	
$NUMCPTS	376	0
$NUMDAWN	B60	10000
$NUMDIL	B48	70000
$NUMDLSP	A78	10000
$NUMEDS	B78	10000
$NUMENF	A08	10000
$NUMEOM	B58	30000
$NUMEVTL	9D0	10000
$NUMEXEC	9B0	10000
$NUMFAIL	4B8	0
$NUMFCL	B10	10000
$NUMIRC	A28	20000
$NUMJCMD	B18	10000
$NUMJOEI	B70	10000
$NUMJOES	DFC	
$NUMJQR	A10	A0000
$NUMLDEV	99E	
$NUMLNES	990	0
$NUMLOGS	996	0
$NUMMCON	9F8	10000
$NUMMISC	A18	10000
$NUMMLLM	9E0	10000
$NUMMLNE	992	0
$NUMNHB	454	FFFF
$NUMNJR	99F	
$NUMNJRS	AA8	0
$NUMNJT	99E	
$NUMNJTS	A98	0
$NUMNODE	DEC	1
$NUMNPM	AD8	10000
$NUMNRM	AE0	10000
$NUMNRR	AE8	0
$NUMNRT	AF0	0
$NUMNSR	9A1	
$NUMNSRS	AC8	0
$NUMNST	9A0	
$NUMNSTS	AB8	0
$NUMOFFS	99A	0
$NUMOJRS	AB0	0
$NUMOJTS	AA0	0

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NUMOSRS	AD0	0
$NUMOSTS	AC0	0
$NUMOUT	A48	A0000
$NUMPATH	3B8	1
$NUMPCY	B80	10000
$NUMPRTS	A50	0
$NUMPRTY	A80	10000
$NUMPRYO	A88	10000
$NUMPSO	A40	20000
$NUMPUNS	A60	0
$NUMPURG	A70	A0000
$NUMRDRS	A20	0
$NUMRESM	AF8	10000
$NUMSFS	A00	10000
$NUMSMFB	494	5
$NUMSNF	B38	20000
$NUMSOM	9E8	10000
$NUMSPI	B40	A0000
$NUMSPIN	B08	30000
$NUMSPOL	9D8	10000
$NUMSRVS	998	0
$NUMSTAC	B00	20000
$NUMTG	E04	
$NUMTIMR	9C8	10000
$NUMTPPR	A58	0
$NUMTPPU	A68	0
$NUMTPRD	A30	0
$NUMVTAM	446	0
$NUMWARM	A90	10000
$NUMXCF	B20	10000
$NUMXCM	B28	10000
$NUMXTIM	9C0	10000
$NWECB	90	
$OFFADCT	980	
$OFFDCT	960	
$OJRDCT	964	
$OJRPCE	AAC	
$OJTDCT	96C	
$OJTPCE	A9C	
$OLDDCTS	95C	
$OPSPJNO	DA8	0
$OPTCOLD	3C8	40
$OPTCONS	3C8	2
$OPTFMT	3C8	80
$OPTINTR	3CD	10
$OPTLIST	3C8	10

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$OPTLOG	3C8	8
$OPTQWIK	3C8	1
$OPTREQ	3C8	20
$OPTSTAT	3C8	38
$OPTSTA1	3C9	0
$OPTSTA2	3C7	0
$OPTSTD	3C8	38
$OPT1STD	3C9	0
$OP1CKPT	3C9	40
$OP1PJS2	3C9	20
$OP1SFCE	3C9	8
$OP1SPEC	3C9	80
$OP1SVAL	3C9	10
$OP1SVLH	3C9	2
$OP1UNAC	3C9	4
$OP2COMP	3C7	80
$OP2FULF	3C7	40
$ORIGMHD	3A0	0
$OSRDCT	968	
$OSRPCE	ACC	
$OSTDCT	970	
$OSTPCE	ABC	
$OUTPCE	A44	
$OWNNIT	86C	
$OWNNODE	878	1
$PADDR	290	
$PATCHSP	EB0	0
$PBELST	918	
$PCEASYN	8A7	80
$PCEHCTA	9A2	2
$PCEHCTC	9A2	4
$PCEHCTD	9A2	0
$PCEHCTE	9A2	8
$PCEHCTP	9A2	0
$PCELAST	B98	
$PCEORG	B94	
$PCEPOST	8A7	0
$PCEPRIX	8A7	40
$PCEPSTC	BA0	
$PCYPCE	B7C	
$PCYSYNC	8AA	20
$PDYNDET	891	20
$PERFCB	294	
$PITABLE	2A0	
$PITNUM	91C	0
$PLVL	33C	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$PLXDYNI	330	0
$POLCYDD	298	
$POSTELS	9A4	
$POSTEXA	84	
$POSTLST	B80	B7C
$POSTSAV	650	0
$PPBSIZE	374	
$PRAFLAG	E54	0
$PRAOOFF	E54	40
$PRAPTR	F8	
$PRASMAL	E54	20
$PRASUSP	E54	80
$PRCJ3CL	3CD	8
$PRECHEK	E47	40
$PRERR	E55	0
$PRFDATA	29C	
$PRFXFLG	4D7	20
$PRIHIGH	D9C	
$PRILOW	D9D	
$PRINCNT	E56	
$PRIOOPT	3CA	2
$PRIOUT	378	
$PRIRATE	D9A	0
$PRMDEND	5A8	80
$PRMDFLG	5A8	
$PRMDINX	5A0	
$PRMDSAV	598	
$PRMDTBL	2A4	
$PRMDWKL	5A8	11
$PRMMEMB	2B0	40404040
$PROCDDN	28C	0
$PROCDFT	628	3
$PROCESS	628	3
$PRODISP	628	10
$PRONEWS	628	80
$PRORATE	D9E	0
$PRPUSRV	F0	
$PRSCNWB	628	20
$PRTBOPT	3CB	80
$PRTCALL	4D4	80
$PRTDCT	930	
$PRTFCB	4E0	F6404040
$PRTOPTS	3CB	
$PRTOPT2	4D4	80
$PRTPCE	A4C	
$PRTRANS	3CB	8

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$PRTUCS	4E4	F0404040
$PRTYJOB	3CA	1
$PRTYOHI	DA0	FF0
$PRTYOLO	DA2	0
$PRTYOUT	3CA	4
$PRTYPCE	A7C	
$PRUNSP	DA4	1
$PRYOPCE	A84	
$PSOPCE	A3C	
$PSOTOK	DC	
$PSWAMOD	832	
$PSWMODE	831	
$PSWSAVE	830	
$PUNBOPT	3CB	40
$PUNDCT	934	
$PUNPCE	A5C	
$PURGPCE	A6C	
$QINDEXA	2B8	
$QSELEN	C00	C8
$QSEMAX	D64	20
$QSENDEF	D66	1
$QSE1	2BC	
$QVERDAT	3D8	0
$QVERRSN	3DC	
$QVRFZLP	3DC	7A
$QVRINLP	3DC	7C
$QVRNART	3DC	C
$QVRNBDB	3DC	53
$QVRNBDC	3DC	6
$QVRNBDF	3DC	7
$QVRNBDI	3DC	8
$QVRNBDQ	3DC	5
$QVRNBFR	3DC	51
$QVRNBIM	3DC	52
$QVRNBJE	3DC	5C
$QVRNBJF	3DC	5A
$QVRNBJH	3DC	5B
$QVRNBNI	3DC	55
$QVRNBNQ	3DC	54
$QVRNBOE	3DC	5E
$QVRNBOH	3DC	5D
$QVRNBOR	3DC	5F
$QVRNBQE	3DC	57
$QVRNBQH	3DC	56
$QVRNBQL	3DC	58
$QVRNBQV	3DC	59

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVRNCER	3DC	61
$QVRNCQ1	3DC	9A
$QVRNCQ2	3DC	9B
$QVRNCQ3	3DC	9C
$QVRNCQ4	3DC	9D
$QVRNCQ5	3DC	9E
$QVRNCQ6	3DC	9F
$QVRNCQ7	3DC	A0
$QVRNCQ8	3DC	A1
$QVRNDDI	3DC	74
$QVRNDDN	3DC	76
$QVRNDDT	3DC	75
$QVRNDDX	3DC	77
$QVRNDFI	3DC	3D
$QVRNDFQ	3DC	3C
$QVRNDFT	3DC	3E
$QVRNDJA	3DC	1D
$QVRNDJB	3DC	1E
$QVRNDJC	3DC	1F
$QVRNDJE	3DC	1C
$QVRNDJF	3DC	20
$QVRNDJN	3DC	18
$QVRNDJQ	3DC	1A
$QVRNDJX	3DC	19
$QVRNDJZ	3DC	1B
$QVRNDNP	3DC	73
$QVRNDNX	3DC	3F
$QVRNDPI	3DC	40
$QVRNDPN	3DC	72
$QVRNDPT	3DC	71
$QVRNENF	3DC	43
$QVRNETH	3DC	41
$QVRNETO	3DC	42
$QVRNFRC	3DC	3
$QVRNFRE	3DC	2
$QVRNJAR	3DC	AD
$QVRNJBC	3DC	21
$QVRNJCF	3DC	32
$QVRNJDF	3DC	31
$QVRNJEF	3DC	34
$QVRNJI#	3DC	3B
$QVRNJIN	3DC	3A
$QVRNJJI	3DC	39
$QVRNJJK	3DC	37
$QVRNJJN	3DC	36
$QVRNJJQ	3DC	35

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVRNJJR	3DC	38
$QVRNJNX	3DC	2E
$QVRNJOE	3DC	AE
$QVRNJPF	3DC	30
$QVRNJQC	3DC	12
$QVRNJQL	3DC	16
$QVRNJQO	3DC	15
$QVRNJSF	3DC	33
$QVRNJTE	3DC	1
$QVRNJXE	3DC	A
$QVRNJXM	3DC	B
$QVRNJZD	3DC	2F
$QVRNLDN	3DC	22
$QVRNLJI	3DC	2C
$QVRNMJN	3DC	9
$QVRNNLG	3DC	2B
$QVRNNTJ	3DC	2D
$QVRNNTZ	3DC	27
$QVRNOCC	3DC	8D
$QVRNOCE	3DC	89
$QVRNOCO	3DC	8A
$QVRNOCQ	3DC	8B
$QVRNOC1	3DC	8C
$QVRNOC2	3DC	8E
$QVRNOJE	3DC	82
$QVRNORE	3DC	84
$QVRNORQ	3DC	83
$QVRNOR2	3DC	85
$QVRNOR3	3DC	86
$QVRNOR4	3DC	87
$QVRNOR5	3DC	88
$QVRNOTE	3DC	81
$QVRNOWC	3DC	91
$QVRNOWE	3DC	8F
$QVRNOWQ	3DC	90
$QVRNOW1	3DC	92
$QVRNOW2	3DC	93
$QVRNOW3	3DC	94
$QVRNOW4	3DC	95
$QVRNOW5	3DC	96
$QVRNOW6	3DC	97
$QVRNOW7	3DC	98
$QVRNOW8	3DC	99
$QVRNRQE	3DC	4
$QVRNRSV	3DC	28
$QVRNSDN	3DC	23

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVRNTCE	3DC	AC
$QVRNTPE	3DC	A9
$QVRNTP2	3DC	AA
$QVRNTP3	3DC	AB
$QVRNTQE	3DC	A2
$QVRNTRE	3DC	A3
$QVRNTR2	3DC	A4
$QVRNTUE	3DC	A5
$QVRNTU2	3DC	A6
$QVRNTU3	3DC	A7
$QVRNTU4	3DC	A8
$QVRNWQE	3DC	10
$QVRNWQN	3DC	11
$QVRNWQP	3DC	13
$QVRNWQX	3DC	14
$QVRNWWQ	3DC	17
$QVRNXTF	3DC	F
$QVRNXTH	3DC	D
$QVRNXTO	3DC	E
$QVRNZAI	3DC	26
$QVRNZFQ	3DC	25
$QVRNZNF	3DC	24
$QVRNZNX	3DC	2A
$QVRNZRS	3DC	29
$QVRORZD	3DC	7F
$QVRORZI	3DC	79
$QVRORZO	3DC	78
$QVRZCOU	3DC	C3
$QVRZDLP	3DC	7D
$QVRZFRE	3DC	C1
$QVRZIDX	3DC	C2
$QVRZIXE	3DC	7E
$QVRZJCT	3DC	80
$QVRZJLP	3DC	7B
$RASSIGN	628	2
$RATABLE	2C0	
$RBDM497	4CC	
$RBFADDR	8F8	
$RCDFRST	2C4	
$RCDSIZE	E42	0
$RCOMCHR	4D6	5B
$RDRAREA	511	E9
$RDRDCT	92C	
$RDRPCE	A1C	
$READY	BD0	
$READYF	BD0	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$READYL	BD4	
$REBLDS	CC8	0
$RECINCR	E02	
$RECVCNT	8CE	0
$REGSAVC	7E8	
$REGSAVE	7E8	7F0
$RESMPCE	AF4	
$RETRYCT	51C	2
$RJEOPTS	3CC	
$RJOBOPT	3CD	
$RJOBOP2	E47	
$RMTDCTS	958	
$RMTNUM	4F4	0
$RMTSON	2CC	
$ROLLSAV	564	
$ROUTDCT	938	
$RPLCOMQ	2C8	
$RPRBOPT	3CB	20
$RPUBOPT	3CB	10
$RSCTABL	CD4	
$RSEPDBL	4BE	1
$RSEPFUL	4BE	2
$RSEPHAF	4BE	4
$RSEPNON	4BE	8
$RSLCONV	C5	20
$RSLFLAG	C5	0
$RSLOUTP	C5	40
$RSLPRCH	C5	80
$RSLSMAL	C5	10
$RSOCLDP	CE8	0
$RSRVCKG	4C0	
$RSV3	B84	0
$RTIMTAB	2D0	
$RUNOPTS	3CA	2
$RWL	94	
$RWLNJRS	A4	
$RWLNJTS	A8	
$RWLNSRS	AC	
$RWLNSTS	B0	
$RWLPRTS	9C	
$RWLPUNS	A0	
$RWLRDRS	98	
$SAPCACH	C0	
$SAPTOK	D4	
$SAVALST	2D8	
$SAVAREA	2D4	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$SAVEBEG	BD8	
$SAVEBOF	62	
$SAVEEND	EB0	
$SAVEEND_Z11	E4C	
$SAVELEN	EB0	2D8
$SAVELEN_Z11	E4C	274
$SBMT	2DC	
$SCANMDL	520	64
$SCANPDL	51E	40
$SCANWKA	598	
$SCANXWA	580	40404040
$SCANXWL	592	12
$SCLPEND	4D0	
$SCNDL16	598	598
$SCNDL24	598	
$SCNDWKA	598	598
$SCNDWKB	598	5A0
$SCNDWKC	598	5A8
$SCNGRD	594	CC33AA55
$SCNLLIM	5B0	
$SCOPSPL	4D7	10
$SCOPSYS	4D7	20
$SCQADDR	2E4	
$SCQJQE	CF0	0
$SCT	2E8	
$SDCMBAD	910	
$SDWNFST	890	80
$SEPPAGE	4BE	
$SFSPCE	9FC	
$SFWA	2E0	
$SID	868	40404040
$SIDBUSY	87A	
$SIDINDX	87C	0
$SIDTIME	860	0
$SINGLE	698	698
$SJFJDVT	8B4	0
$SLSLEOF	3CD	4
$SLVL	33D	
$SMFBUSY	2EC	
$SMFFREC	49A	0
$SMFLIM	49C	0
$SMFPRCT	496	
$SNFNSYM	DA5	1
$SNFPCE	B34	
$SNFZ7FS	0	1
$SNIFAST	DA5	2

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$SNV	870	
$SOCKTBL	2F4	
$SOMPCE	9E4	
$SPFTIME	CE0	0
$SPINACT	4AF	
$SPINJQE	628	40
$SPINPCE	B04	
$SPIPCE	B3C	
$SPLADRA	DA5	8
$SPLADRS	DA5	4
$SPLBYTS	E10	0
$SPLEASA	E26	2
$SPLEASS	E26	4
$SPLEXST	CF4	0
$SPLINAC	D34	0
$SPLIOER	164	A
$SPLLEN	DF3	
$SPLLGDS	DFB	80
$SPLLGUS	DFB	20
$SPLMTTT	DFB	40
$SPLNUMB	DF4	DF5
$SPLSLCT	D14	0
$SPMSKWA	6C8	0
$SPOFERR	510	
$SPOLMSG	503	
$SPOLNUM	DF4	20
$SPOLPCE	9D4	
$SPOOL	DEE	E2D7D6D6
$SPOOLCB	4C4	
$SPOOLQ	2F0	
$SPVLRSN	3DD	
$SPVMNAM	DE0	40404040
$SPV1BRT	3DD	5
$SPV1OPT	3DD	3
$SPV1QER	3DD	1
$SPV1SPL	3DD	4
$SPV1STR	3DD	6
$SPV1VAL	3DD	2
$SRVDCT	948	
$SSNM	870	5C5C5C5C
$SSVS	874	5C5C5C5C
$STABNDA	B4	
$STACPCE	AFC	
$STACTOK	D8	
$STARTCP	650	6C8
$STARTTM	650	638

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$STATUS	87F	
$STATUS1	890	40
$STATUS2	891	18
$STATUS3	8AA	0
$STDFORM	4D8	E2E3C440
$STERSTK	164	
$STIMASK	502	
$STIMBUF	502	80
$STIMDCT	502	20
$STIMSBT	502	10
$STIMTIM	502	40
$STKEWRK	6B0	0
$STOPXEQ	890	8
$STQEACT	300	
$STRTDSI	891	1
$STUBCNT	C8	0
$STUBPTR	CC	
$STWORK	2F8	
$ST1PJTM	890	20
$SUBTASK	87E	
$SXADDR	100	
$SYMBM	10C	
$SYNCTOL	37C	
$SYSID	878	
$TBLNUM	348	2
$TCELSIZ	E03	
$TGAENUM	88A	32
$TGALLOC	D54	
$TGBAD	348	
$TGDEFND	D5C	
$TGFREE	D60	
$TGFREEB	4A0	7FFFFFFF
$TGMADDR	340	
$TGMAP	344	
$TGMHEAD	340	
$TGPRCT	CDE	
$TGRADDR	358	
$TGRHDR	358	28
$TGSIZE	49E	1E
$TGSYSID	CDD	0
$TGTOTAL	D58	
$TIMEPCE	9C4	
$TIPSJBN	E34	0
$TOTCKRN	84C	
$TOTCKSZ	38C	
$TPPRPCE	A54	

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$TPPUPCE	A64	
$TPRDPCE	A2C	
$TQEQUE	30C	
$TRCDWN	630	1
$TRCFG1	630	0
$TRCPCE	9CC	
$TRCSYSX	630	80
$TRGENER	310	
$TRTIME	514	
$TTBPRCT	4A4	
$UCT	FC	
$UNSPUN	DA4	80
$UPADDR	35C	
$USERSET	3CB	2
$USER1	364	
$USER2	368	
$USER3	36C	
$USER4	370	0
$USER5	372	0
$USXADDR	360	
$UVERS	58	40404040
$VERSACT	4AE	80
$VERSFRE	4AA	0
$VERSINI	4AE	10
$VERSION	50	E2D740F5
$VERSKPT	4AE	20
$VERSNUM	4A8	0
$VERSSTT	4AE	10
$VERSWRN	4AC	50
$VFYSUBN	E47	20
$VLOGQUE	314	
$VTMFREC	44C	0
$VTMLGRQ	452	0
$VTMNWBF	450	0
$VTMPRCT	448	50
$VTMPRIV	44A	0
$VTMWBF	44E	0
$WARMACT	396	0
$WARMCNT	A90	4
$WARMPCE	A8C	
$WARMTYP	8FC	
$WCHECK	BEA	0
$WLMDATA	318	
$WLMDIFF	890	2
$WLMRGOK	890	1
$WORK16	6A8	698

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$WORK24	6A8	698
$WRKAREA	634	
$WRKAREL	6B0	8C
$WRMDONE	890	10
$WRMESYS	902	1
$WRMINIT	900	
$WRMREG	900	1
$WSAPTR	31C	
$WSBITOF	758	7F
$WSUSER	754	80
$WTBSYJO	DA5	80
$XCFFLG1	844	
$XCFFLG2	845	
$XCFGPNM	E14	40404040
$XCFIXVT	848	
$XCFPCE	B1C	
$XCFXEQP	898	0
$XCF1ERR	844	20
$XCF1MUD	844	2
$XCF1NAR	844	80
$XCF1NRS	844	40
$XCF1SGO	844	4
$XCF1STP	844	8
$XCF1STR	844	10
$XCF2ERR	845	80
$XCMPCE	B24	
$XCPECBX	88	1800000
$XCWFLAG	C4	0
$XCWLCEN	C4	40
$XCWSCEN	C4	80
$XECBQ	BC0	
$XECBQF	BC0	
$XECBQL	BC8	
$XEQDCT	94C	
$XEQINT	891	40
$XFRACTV	320	
$XFRBEND	324	
$XFRDEND	328	
$XFRECBX	80	1800000
$XITADDR	32C	
$XMASADR	1EC	
$XTIMPCE	9BC	
$XWTRACT	8F2	80
$XWTRFLG	8F2	
$ZAPTIME	D88	0
$ZERO	708	708

Table 212. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$ZEROES	708	708
$ZEROFFF	748	FFFFFF
$ZEROS	708	0
$ZEROTGS	DCB	80
$ZJCFREI	D90	0
$ZJCFREN	D94	0
$ZJCLEN	E24	0
$ZJCNUM	E48	
$ZJCPRCT	CE5	
$ZJCPTR	238	
$ZJSYSID	CE4	0
$ZODHEAD	D8C	0
$ZODJNUM	E50	
$0FFF	748	748
$000F	74C	FF
$7FFF	75C	75C
#POSTWTO	DCB	10
HCT	0	

$HFAM information

$HFAM programming interface information

$HFAM is a programming interface.

$HFAM heading information

Common name: HASP File Allocation Map

Macro ID: $HFAM

DSECT name: HFAM

Owning component: JES2 (SC1BH)

Eye-catcher ID: HFAM
Offset: HFAMID-HFAM
Length: L'HFAMID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.

Size: See HFAMLEN

Created by: JES2 Initialization

Pointed to by: $HFAM field of the $HCT data area

Serialization: The JES2 Checkpoint data set lock ($QSUSE) is used.
NOTE: This is a checkpointed control block and part of check record. Any change to this control block will be reflected across systems.

Function: This dsect is used to map file identification and use information about the two checkpoint data sets and their backups (NEWCKPTS). For the mapping of the individual entries, see the $HFAME control block.

$HFAM mapping

Table 213. Structure HFAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFAM	HASP FILE ALLOCATION MAP
0	(0)	CHARACTER	308	HFAMREC(0)	Offset table needs hard coded length
0	(0)	CHARACTER	4	HFAMID	HFAM EYE CATCHER
4	(4)	ADDRESS	1	HFAMVER	CONTROL BLOCK VERSION NUMBER
4	(4)	X'3'	0	HFAMVERN	"03" CONTROL BLOCK VER. NUMBER
5	(5)	BITSTRING	1	HFAMLSYS	System # of last system to update the ckpt.($SIDBUSY)
6	(6)	BITSTRING	1	HFAMFLAG	FLAG BYTE
		1...		HFAMDPLX	"B'10000000'" 0 - COMPLEX IS IN DUAL MODE 1 - COMPLEX IS IN DUPLEX MODE
		.1..		HFAMIDSN	"B'01000000'" IGNORE DSN/VOL IN HFAMES
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HFAMCSTR(2)	COLD START TIME STAMP
16	(10)	SIGNED	4	HFAMUSR1	RESERVED FOR USER
20	(14)	CHARACTER	72	HFAMCKP1	DATA SET SPEC FOR CHECKPOINT 1
92	(5C)	CHARACTER	72	HFAMCKP2	DATA SET SPEC FOR CHECKPOINT 2
164	(A4)	CHARACTER	72	HFAMCKN1	DATA SET SPEC FOR NEW CKPT1
236	(EC)	CHARACTER	1	HFAMCKN2	DATA SET SPEC FOR NEW CKPT2
236	(EC)	X'134'	0	HFAMLEN	"*-HFAM" LENGTH OF HFAM
308	(134)	ADDRESS	2	(0)	Ensure hardcoded value
308	(134)	ADDRESS	2	(0)	is accurate

Table 214. Cross Reference for $HFAM

Name	Offset	Hex Tag
HFAM	0	
HFAMCKN1	A4	
HFAMCKN2	EC	
HFAMCKP1	14	
HFAMCKP2	5C	
HFAMCSTR	8	
HFAMDPLX	6	80
HFAMFLAG	6	
HFAMID	0	C8C6C1D4
HFAMIDSN	6	40
HFAMLEN	EC	134
HFAMLSYS	5	
HFAMREC	0	
HFAMUSR1	10	
HFAMVER	4	
HFAMVERN	4	3

$HFAME information

$HFAME programming interface information

$HFAME is a programming interface.

$HFAME heading information

Common name:	HASP File Allocation Map Entry
Macro ID:	$HFAME
DSECT name:	HFE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: See $HFAM control block, or $HCCT control block, or $CKPRECV control block.
Size:	See HFELEN
Created by:	See $HFAM control block, or $HCCT control block, or $CKPRECV control block.
Pointed to by:	HFAMCKP1 field of the $HFAM data area HFAMCKP2 field of the $HFAM data area HFAMCKN1 field of the $HFAM data area HFAMCKN2 field of the $HFAM data area CCTCKPT1 field of the $HCCT data area CCTCKPT2 field of the $HCCT data area CKRHFAME field of the $CKPRECV data area Various fields in the processor work areas and parameter lists.
Serialization:	None required
Function:	This dsect maps the entry for one file in the HASP File Allocation Map (HFAM). See $HFAM control block for more information.

$HFAME mapping

Table 215. Structure HFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFE	HASP FILE ALOC MAP ELEMENT
		HFEDSVOL IS USED AS RNAME FOR RESERVE/DEQ MACROS. DO NOT CHANGE THE ORDER OF VOLSER AND DSNAME.			
0	(0)	CHARACTER	0	HFESPEC(0)	Data set spec
0	(0)	CHARACTER	0	HFEDASD(0)	Data set volser and dsn (Used as RNAME when ckpt is on DASD)
0	(0)	CHARACTER	6	HFEVOL	VOL SERIAL NUMBER OF DS
6	(6)	CHARACTER	44	HFEDSN	NAME OF DATA SET
50	(32)	CHARACTER	16	HFESTR	XES Structure name
66	(42)	BITSTRING	1	HFEFLAG1	FLAG BYTE FOR DATA SET
		1...		HFE1INUS	"B'10000000'" DATA SET IN USE
		.1..		HFE1DASD	"B'01000000'" Checkpoint is on DASD
		..1.		HFE1CF	"B'00100000'" Checkpoint is on CF
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
68	(44)	SIGNED	4	HFEUSER1	RESERVED FOR USER
68	(44)	X'48'	0	HFELEN	"*-HFE" LENGTH OF HFAME

Table 216. Cross Reference for $HFAME

Name	Offset	Hex Tag
HFE	0	
HFEDASD	0	
HFEDSN	6	
HFEFLAG1	42	
HFELEN	44	48
HFESPEC	0	
HFESTR	32	
HFEUSER1	44	
HFEVOL	0	
HFE1CF	42	20
HFE1DASD	42	40
HFE1INUS	42	80

$HFCT information

$HFCT programming interface information

$HFCT is a programming interface.

$HFCT heading information

Common name: HASP FSS Communication Table

Macro ID: $HFCT

DSECT name: HFCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: MIT entry for HASPFSSM ('MIT HASPFSSM')
Offset: 0
Length: 12

Storage attributes: Subpool: The subpool of the HASPFSSM load module.
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of an FSS address space.

Size: See the HFCTLEN equate.

Created by: The HASPFSSM load module is loaded during an FSS CONNECT request through the Functional Subsystem Interface (FSI). The HFCT is part of HASPFSSM.

Pointed to by: - As one of the key JES2 control blocks for processing from an FSS address space, the HFCT address is usually in general purpose register 11 in the assembly environment known as FSS.
- Label HASPFCT in HASPFSSM, defined as an external symbol for code in the HASPFSSM load module, is the address of the HFCT.
- The HFCT is at the front of the HASPFSSM load module so the module storage address in the MVS CDE for HASPFSSM (if one exists) points to the HFCT.
- The FSSHFCT field of the FSS's FSSCB common storage control block points to the FSS's HFCT.

Serialization: The HFCT is loaded and altered during an FSS CONNECT FSI request. From that point in time on, multiple tasks may be executing under the FSS and its Functional Subsystem Applications (FSAs). The HFCT fields are read-only, or used with compare-and-swap techniques.

Function: The HFCT is the central control block used for JES2 processing in the address space of a Functional Subsystem (FSS) connected to the JES2 subsystem. It is used for most processing within Functional Subsystem Interface (FSI) requests made by FSSs and their applications (FSAs), or directed to them.
The HFCT address is normally in general purpose register 11 during processing in the FSS assembly environment. Register 11 addressing for the HFCT is assumed in FSS-oriented JES2 service macros, routines, exits, and general linkage.

$HFCT mapping

Table 217. Structure HFCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFCT	HASP FSS COMMUNICATION TABLE
0	(0)	BITSTRING	80		HASPFSSM Module Info Table
80	(50)	CHARACTER	8	HFCTVER	Permanently set to SP 5.3.0
		Keep the next three fields intact.			
88	(58)	BITSTRING	10	HFCTJES2_LEVEL(0)	Level information
88	(58)	CHARACTER	8	HFCTLEVL	HASP Version <---+
96	(60)	ADDRESS	1	HFCTPLVL	Product Level |
97	(61)	ADDRESS	1	HFCTSLVL	Service Level <---+
98	(62)	SIGNED	2		Reserved for future use
		HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE SUPPORTED FSS FUNCTIONS.			
100	(64)	SIGNED	4	HFCTFSSF(0)	FSI SUPPORTED FSS FUNCTIONS
100	(64)	ADDRESS	4	HFCTSCNI	CONNECT IDENTIFIER
104	(68)	ADDRESS	4	HFCTSCNA	"V(FSMCONCT)" CONNECT ENTRY POINT
108	(6C)	ADDRESS	4	HFCTSDCI	DISCONNECT IDENTIFIER
112	(70)	ADDRESS	4	HFCTSDCA	"V(FSMCONCT)" DISCONNECT ENTRY POINT
116	(74)	ADDRESS	4	HFCTSGDI	GETDS IDENTIFIER
120	(78)	ADDRESS	4	HFCTSGDA	"V(FSMERROR)" GETDS UNSUPPORTED ON FSS LEVEL
124	(7C)	ADDRESS	4	HFCTSRDI	RELDS IDENTIFIER
128	(80)	ADDRESS	4	HFCTSRDA	"V(FSMERROR)" RELDS UNSUPPORTED ON FSS LEVEL
132	(84)	ADDRESS	4	HFCTSGRI	GETREC IDENTIFIER
136	(88)	ADDRESS	4	HFCTSGRA	"V(FSMERROR)" GETREC UNSUPPORTED ON FSS LEVEL
140	(8C)	ADDRESS	4	HFCTSFRI	FREEREC IDENTIFIER
144	(90)	ADDRESS	4	HFCTSFRA	"V(FSMERROR)" FREEREC UNSUPPORTD ON FSS LEVEL
148	(94)	ADDRESS	4	HFCTSCKI	CHKPT IDENTIFIER
152	(98)	ADDRESS	4	HFCTSCKA	"V(FSMERROR)" CHKPT UNSUPPORTED ON FSS LEVEL
156	(9C)	ADDRESS	4	HFCTSSNI	SEND IDENTIFIER
160	(A0)	ADDRESS	4	HFCTSSNA	"V(FSMSEND)" SEND ENTRY POINT
160	(A0)	X'6'	0	HFCTSIDN	"(*-HFCTSGDI)/8" NUM OF HASPFSSM ENTRY PTS

Table 217. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE FSA SUPPORTED FUNCTIONS.			
164	(A4)	SIGNED	4	HFCTFSAF(0)	FSI SUPPORTED FSA FUNCTIONS
164	(A4)	ADDRESS	4	HFCTACNI	CONNECT IDENTIFIER
168	(A8)	ADDRESS	4	HFCTACNA	"V(FSMERROR)" CONNECT UNSUPPORTD ON FSA LEVEL
172	(AC)	ADDRESS	4	HFCTADCI	DISCONNECT IDENTIFIER
176	(B0)	ADDRESS	4	HFCTADCA	"V(FSMERROR)" DISCONT UNSUPPORTD ON FSA LEVEL
180	(B4)	ADDRESS	4	HFCTAGDI	GETDS IDENTIFIER
184	(B8)	ADDRESS	4	HFCTAGDA	"V(FSMGETDS)" GETDS ENTRY POINT
188	(BC)	ADDRESS	4	HFCTARDI	RELDS IDENTIFIER
192	(C0)	ADDRESS	4	HFCTARDA	"V(FSMRELDS)" RELDS ENTRY POINT
196	(C4)	ADDRESS	4	HFCTAGRI	GETREC IDENTIFIER
200	(C8)	ADDRESS	4	HFCTAGRA	"V(FSMGETRC)" GETREC ENTRY POINT
204	(CC)	ADDRESS	4	HFCTAFRI	FREEREC IDENTIFIER
208	(D0)	ADDRESS	4	HFCTAFRA	"V(FSMFRERC)" FREEREC ENTRY POINT
212	(D4)	ADDRESS	4	HFCTACKI	CHKPT IDENTIFIER
216	(D8)	ADDRESS	4	HFCTACKA	"V(FSMCHKPT)" CHKPT ENTRY POINT
220	(DC)	ADDRESS	4	HFCTASNI	SEND IDENTIFIER
224	(E0)	ADDRESS	4	HFCTASNA	"V(FSMSEND)" SEND ENTRY POINT
		ENTRY POINTS FOR PC ROUTINES			
228	(E4)	SIGNED	4	HFCTPCS(0)	PC ROUTINE ID/ADDR PAIRS
228	(E4)	ADDRESS	4	HFCTORDI	ORDER IDENTIFIER
232	(E8)	ADDRESS	4	HFCTORDA	"V(FSMORDER)" ORDER ENTRY POINT
236	(EC)	ADDRESS	4	HFCTPSTI	POST IDENTIFIER
240	(F0)	ADDRESS	4	HFCTPSTA	"V(FSMPOST)" POST ENTRY POINT
240	(F0)	X'2'	0	HFCTPCNO	"(*-HFCTPCS)/8" NUMBER OF PC ROUTINES
240	(F0)	X'54'	0	HFCTETDL	"ETDLEN+(HFCTPCNO*ETDELEN)" LENGTH OF ETD CNTL BLOCK
		DEFINED CONSTANTS			
244	(F4)	CHARACTER	8	HFCTBLNK	DOUBLEWORD OF BLANKS
252	(FC)	BITSTRING	64	HFCTZERO	Lots of zeroes
252	(FC)	X'FC'	0	HFCT0000	"HFCTZERO" ALTERNATE NAME FOR HFCTZERO
316	(13C)	BITSTRING	4	HFCT000F	FULLWORD LOW ORDER BYTE MASK
320	(140)	BITSTRING	4	HFCT00FF	FULLWORD LOW HALFWORD MASK
324	(144)	BITSTRING	4	HFCT0FFF	FULLWORD 3 BYTE MASK
328	(148)	BITSTRING	4	HFCTALLF	FULLWORD ALL X'FF'S
328	(148)	X'148'	0	HFCTFFFF	"HFCTALLF" ALTERNATE NAME FOR HFCTALLF
332	(14C)	ADDRESS	4	HFCTBADA(16)	BAD value
		DEFINITIONS FOR GENERAL USE			
396	(18C)	ADDRESS	4	HFCTFSSA	ADDR OF FSSCB

Table 217. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	ADDRESS	4	HFCTHCCT	ADDR OF HCCT
404	(194)	SIGNED	2	HFCTJQLN	JQE length
406	(196)	BITSTRING	14		Reserved
		DEFINITIONS FOR QUICKCELL POOL MANAGEMENT			
420	(1A4)	ADDRESS	4	HFCTGTQC	"V(FSMGETQC)" ADDR OF GET QUICKCELL ROUTINE
424	(1A8)	ADDRESS	4	HFCTFRQC	"V(FSMFREQC)" ADDR OF FREE QUICKCELL ROUTINE
428	(1AC)	ADDRESS	4	HFCTBLQC	"V(FSMBLDQC)" ADDR OF BUILD CELLPOOL ROUTINE
432	(1B0)	ADDRESS	4	HFCTQCSU	"V(FSMQCT)" ADDR OF QCT SETUP ROUTINE
436	(1B4)	ADDRESS	4	HFCTQCTH	ADDR OF FIRST QCT
440	(1B8)	SIGNED	4	HFCTQCS1(18)	FSMBLDQC + FSMEXTQC SAVE AREA
512	(200)	SIGNED	4	HFCTQCS2(18)	VSM BLDCPOOL MACRO SAVE AREA
		DEFINITIONS FOR SAVE AREA AND ERROR SERVICES, ETC			
584	(248)	ADDRESS	4	HFCTSAVE	"V(FSMSAVE)" FSMSAVE $SAVE ROUTINE ADDR
588	(24C)	ADDRESS	4	HFCTRET	"V(FSMRETRN)" FSMRETRN $RETURN ROUTINE ADDR
592	(250)	ADDRESS	4		Reserved for future use
596	(254)	SIGNED	4	HFCTSVSV(18)	SAVE AREA FOR FSMSAVE
668	(29C)	SIGNED	4	HFCTSRBS(18)	SAVE AREA FOR SRBS (FSMRCRTN)
740	(2E4)	SIGNED	4	HFCTESAV(18)	SAVE AREA FOR $ERRORS
812	(32C)	ADDRESS	4	HFCTETCB	TCB OWNING $ERROR SAVE
816	(330)	BITSTRING	1	HFCTESVS	$ERROR SAVE AREA SERIALIZATION
817	(331)	BITSTRING	1	HFCTSAVF	SAVE AREA FLAG BYTE
818	(332)	BITSTRING	1	HFCTCONF	FSS CONNECT/DISCONNECT FLAG
		1...		HFCTGTMN	"B'10000000'" FSVT/ETD/ETC GETMAIN WAS DONE
		.1..		HFCTAXRS	"B'01000000'" AXRES WAS DONE FOR FSS AX
		..1.		HFCTAXST	"B'00100000'" AXSET WAS DONE FOR FSS AX
		...1		HFCTLXRS	"B'00010000'" LXRES WAS DONE FOR FSS LX
		.... 1...		HFCTETCR	"B'00001000'" ETCRE WAS DONE FOR FSS ETD
		.... .1..		HFCTATST	"B'00000100'" ATSET WAS DONE FOR JES2 AX
819	(333)	BITSTRING	1		RESERVED FOR FUTURE USE
		SERVICE ROUTINE ENTRY POINTS			
820	(334)	ADDRESS	4	HFCTFSIL	"V(FSMFSLNK)" FSSLINK SERVICE ROUTINE
824	(338)	ADDRESS	4	HFCTGBLK	"V(FSMGTBLK)" GETBLOCK SERVICE ROUTINE
828	(33C)	ADDRESS	4	HFCTRBLK	"V(FSMRTBLK)" RETBLOCK SERVICE ROUTINE
832	(340)	ADDRESS	4	HFCTCATE	"V(FSMCATER)" ADDR OF CAT ERROR ROUTINE

Table 217. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		HASPFSSM R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
832	(340)	X'CBC'	0	HFCTPSZ	"4096-(*-HFCT)"
836	(344)	BITSTRING	1	HFCTPCH(0)	DEFINE PATCH SPACE
836	(344)	X'1000'	0	HFCTLEN	"*-HFCT" Length of the HFCT

Table 218. Cross Reference for $HFCT

Name	Offset	Hex Tag
HFCT	0	
HFCTACKA	D8	
HFCTACKI	D4	
HFCTACNA	A8	
HFCTACNI	A4	
HFCTADCA	B0	
HFCTADCI	AC	
HFCTAFRA	D0	
HFCTAFRI	CC	
HFCTAGDA	B8	
HFCTAGDI	B4	
HFCTAGRA	C8	
HFCTAGRI	C4	
HFCTALLF	148	FFFFFFFF
HFCTARDA	C0	
HFCTARDI	BC	
HFCTASNA	E0	
HFCTASNI	DC	
HFCTATST	332	4
HFCTAXRS	332	40
HFCTAXST	332	20
HFCTBADA	14C	
HFCTBLNK	F4	40404040
HFCTBLQC	1AC	
HFCTCATE	340	
HFCTCONF	332	0
HFCTESAV	2E4	0
HFCTESVS	330	0
HFCTETCB	32C	
HFCTETCR	332	8
HFCTETDL	F0	54
HFCTFFFF	148	148
HFCTFRQC	1A8	
HFCTFSAF	A4	
HFCTFSIL	334	
HFCTFSSA	18C	

Table 218. Cross Reference for $HFCT (continued)

Name	Offset	Hex Tag
HFCTFSSF	64	
HFCTGBLK	338	
HFCTGTMN	332	80
HFCTGTQC	1A4	
HFCTHCCT	190	
HFCTJES2_LEVEL	58	
HFCTJQLN	194	0
HFCTLEN	344	1000
HFCTLEVL	58	A961D6E2
HFCTLXRS	332	10
HFCTORDA	E8	
HFCTORDI	E4	
HFCTPCH	344	0
HFCTPCNO	F0	2
HFCTPCS	E4	
HFCTPLVL	60	
HFCTPSTA	F0	
HFCTPSTI	EC	
HFCTPSZ	340	CBC
HFCTQCSU	1B0	
HFCTQCS1	1B8	0
HFCTQCS2	200	0
HFCTQCTH	1B4	
HFCTRBLK	33C	
HFCTRET	24C	
HFCTSAVE	248	
HFCTSAVF	331	0
HFCTSCKA	98	
HFCTSCKI	94	
HFCTSCNA	68	
HFCTSCNI	64	
HFCTSDCA	70	
HFCTSDCI	6C	
HFCTSFRA	90	
HFCTSFRI	8C	
HFCTSGDA	78	
HFCTSGDI	74	
HFCTSGRA	88	
HFCTSGRI	84	
HFCTSIDN	A0	6
HFCTSLVL	61	
HFCTSRBS	29C	0
HFCTSRDA	80	
HFCTSRDI	7C	
HFCTSSNA	A0	
HFCTSSNI	9C	

Table 218. Cross Reference for $HFCT (continued)

Name	Offset	Hex Tag
HFCTSVSV	254	0
HFCTVER	50	E2D740F5
HFCTZERO	FC	0
HFCT0FFF	144	FFFFFF
HFCT00FF	140	FFFF
HFCT000F	13C	FF
HFCT0000	FC	FC

$HJCT information

$HJCT heading information

Common name: JES2 Monitor Communication Table

Macro ID: $HJCT

DSECT name: HJCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: HJCT
Offset: JMTID-HJCT
Length: L'JMTID

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $HJCT resides in the JES2 monitor address space.

Size: See JMTSIZE

Created by: HASJMON

Pointed to by: - MHBHJCT field of the MONCB data area
- MWEHJCT field of the MWE data area
- General register 11 when executing code in the 'MONITOR' execution environment.

Serialization: None required

Function: The HJCT is the anchor private storage control block for the JES2 monitor address space

$HJCT mapping

Table 219. Structure HJCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HJCT	, HASP Communications Table
0	(0)	CHARACTER	4	JMTID	Eyecatcher
4	(4)	ADDRESS	1	JMTVRSN	HJCT version
4	(4)	X'1'	0	JMTVRNUM	"1" Current version number
5	(5)	BITSTRING	3		Reserved (and frozen)
8	(8)	ADDRESS	4	JMTOFSTB	Address of offset table, at HJCT offset +8
12	(C)	SIGNED	4		Reserved (and frozen)
16	(10)	ADDRESS	4	JMTHCT	HCT address
20	(14)	ADDRESS	4	JMTHCCT	HCCT address
24	(18)	ADDRESS	4	JMTMONCB	MONCB address
28	(1C)	ADDRESS	4	JMTMODMP	Monitor module map
32	(20)	ADDRESS	4	JMTBADA(16)	BAD address value

Table 219. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	SIGNED	4	JMTZEROS(16)	Constant zeros
160	(A0)	SIGNED	4	JMTJES2A	JES2 address space ALET
164	(A4)	ADDRESS	4	JMTJASCB	JES2 ASCB address
168	(A8)	CHARACTER	4	JMTSSNM	JES2 subsystem name
172	(AC)	ADDRESS	4	JMTJ2WAT	JES2 Main MVS wait
176	(B0)	ADDRESS	4	JMTMWE	JES2 monitor work areas
180	(B4)	ADDRESS	4	JMTMSD	Monitor sampling data
184	(B8)	CHARACTER	1	JMTCOMCH	CONCHAR for termination messages
185	(B9)	BITSTRING	1	JMTJSTAT	JES2 status flags (set by sampler)
		1...		JMTJSINI	"B'10000000'" JES2 in initialization
		.1..		JMTJSTRM	"B'01000000'" JES2 is terminating
186	(BA)	BITSTRING	2		Reserved
188	(BC)	ADDRESS	4	JMTMWT	MVS Wait list
		General work area (for MF=L areas messages, etc).			
192	(C0)	BITSTRING	128	JMTGWORK	General work area
320	(140)	SIGNED	4	JMTLWTO(0)	
320	(140)	ADDRESS	2		TEXT LENGTH
322	(142)	BITSTRING	2		MCSFLAGS
324	(144)	ADDRESS	4		MESSAGE TEXT ADDRESS
328	(148)	ADDRESS	1		VERSION LEVEL
329	(149)	BITSTRING	1		MISCELLANEOUS FLAGS
330	(14A)	ADDRESS	1		REPLY LENGTH
331	(14B)	ADDRESS	1		LENGTH OF WPX
332	(14C)	BITSTRING	2		EXTENDED MCS FLAGS
334	(14E)	ADDRESS	2		RESERVED
336	(150)	ADDRESS	4		REPLY BUFFER ADDRESS
340	(154)	ADDRESS	4		REPLY ECB ADDRESS
344	(158)	ADDRESS	4		CONNECT ID
348	(15C)	BITSTRING	2		DESCRIPTOR CODES
350	(15E)	ADDRESS	2		RESERVED
352	(160)	BITSTRING	16		
368	(170)	BITSTRING	2		MESSAGE TYPE
370	(172)	ADDRESS	2		MESSAGE'S PRIORITY
372	(174)	CHARACTER	8		JOB ID
380	(17C)	CHARACTER	8		JOB NAME
388	(184)	CHARACTER	8		RETRIEVAL KEY
396	(18C)	ADDRESS	4		TOKEN FOR DOM
400	(190)	ADDRESS	4		CONSOLE ID
404	(194)	CHARACTER	8		SYSTEM NAME
412	(19C)	CHARACTER	8		CONSOLE NAME
420	(1A4)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
424	(1A8)	ADDRESS	4		CART ADDRESS
428	(1AC)	ADDRESS	4		WSPARM ADDRESS
428	(1AC)	X'70'	0	JMTLWTOL	"*-JMTLWTO" WTO work area length

Table 219. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
432	(1B0)	DBL WORD	8	(0)	
	HEX translate table				
432	(1B0)	X'C0'	0	JMTXTRAN	"*-C'0'" Hexadecimal-to-EBCDIC
432	(1B0)	CHARACTER	16		translate table
	Probe message areas (mapped by PRBM DSECT in $MSD)				
448	(1C0)	DBL WORD	8	JMTPROBL(0)	Probe message list
448	(1C0)	ADDRESS	4	JMTPMAIN	Main task activity
452	(1C4)	ADDRESS	4	JMTPBRTL	Bert lock contention
456	(1C8)	ADDRESS	4	JMTPJOBL	Job lock contention
460	(1CC)	ADDRESS	4	JMTPCKPH	Long CKPT hold time
464	(1D0)	ADDRESS	4	JMTPLCMD	Long command processing
464	(1D0)	X'5'	0	JMTPROBC	"(*-JMTPROBL)/4" Count of message areas
	Active notice table and flags				
468	(1D4)	ADDRESS	4	JMTNOTMT	Notify message table addr
	Notice message table mapping				
468	(1D4)	X'0'	0	JMTNMSK	"0,8" JMTNOTIC mask
468	(1D4)	X'8'	0	JMTNFLG1	"8,1" Flag byte
		1...		JMTN1CRT	"B'10000000'" Critical notice
	EQU 9,3 Reserved				
468	(1D4)	X'C'	0	JMTNLEN	"12,2" Message length
468	(1D4)	X'E'	0	JMTNTXT	"14,71" Message text
	EQU 85,11 Reserved				
468	(1D4)	X'54'	0	JMTNMSNX	"96-12" Length from JMTNLEN to end
468	(1D4)	X'60'	0	JMTNSIZ	"96" Size of an entry
	Notice flags				
472	(1D8)	DBL WORD	8	(0)	Align
472	(1D8)	BITSTRING	8	JMTNOTIC(0)	Current notices
472	(1D8)	BITSTRING	2	JMTNOT01	Notice flag bytes 1
472	(1D8)	BITSTRING	0	JMTN1JNA	"B'1000000000000000'" JES2 A.S. not active
472	(1D8)	BITSTRING	0	JMTN1JIN	"B'0100000000000000'" JES2 initializing
472	(1D8)	BITSTRING	0	JMTN1JTR	"B'0010000000000000'" JES2 terminating
472	(1D8)	BITSTRING	0	JMTN1CRF	"B'0001000000000000'" CKPT RECONFIG in progress
472	(1D8)	BITSTRING	0	JMTN1BOS	"B'0000100000000000'" Member is not BOSS
472	(1D8)	BITSTRING	0	JMTN1ASP	"B'0000010000000000'" A.S. waiting for SPOOL sp

Table 219. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	BITSTRING	0	JMTN1IPL	"B'0000001000000000'" JES2 IPL required
472	(1D8)	BITSTRING	0	JMTN1JST	"B'0000000100000000'" JES2 stopped, $S needed
		1...		JMTN1JPX	"B'0000000010000000'" JES2 was $PXEQed
		.1..		JMTN1PEN	"B'0000000001000000'" A PCE has ended
		..1.		JMTN1NSP	"B'0000000000100000'" All SPOOLs not available
		...1		JMTN1PSP	"B'0000000000010000'" PCES waiting for SPOOL sp
		.... 1...		JMTN1FGC	"B'0000000000001000'" Fast SPOOL garbage coll
		.... .1..		JMTN1NPM	"B'0000000000000100'" NPM functions suspended
		.... ..1.		JMTN1NNC	"B'0000000000000010'" Node info not in ckpt
		1		JMTN1LNC	"B'0000000000000001'" Local node name changed
474	(1DA)	BITSTRING	2	JMTNOT02	Notice flag bytes 2
474	(1DA)	BITSTRING	0	JMTN2WDF	"B'1000000000000000'" WLM policy difference
474	(1DA)	BITSTRING	0	JMTN2DUB	"B'0100000000000000'" JES2 dubbed but not perm
474	(1DA)	BITSTRING	0	JMTN2CLO	"B'0010000000000000'" Ckpt lockout detected
474	(1DA)	BITSTRING	0	JMTN2AHL	"B'0001000000000000'" SPOOL automatically halted
474	(1DA)	BITSTRING	0	JMTN2LIM	"B'0000100000000000'" Independent mode (local)
474	(1DA)	BITSTRING	0	JMTN2SIM	"B'0000010000000000'" Independent mode (Other)
474	(1DA)	BITSTRING	0	JMTN2ANJ	"B'0000001000000000'" NJEDEF CONNECT=NO
474	(1DA)	BITSTRING	0	JMTN2ANR	"B'0000000100000000'" $PNET/$ENET issued
		1...		JMTN2DST	"B'0000000010000000'" Non-default DESTDEF set
		.1..		JMTN2BRT	"B'0000000001000000'" BERT shortage inhibiting
		..1.		JMTN2CDR	"B'0000000000100000'" Cross system data retrieval subtask gone
		...1		JMTN2DLS	"B'0000000000010000'" DLS PCE failed
		.... 1...		JMTN2ZGL	"B'0000000000001000'" Jobgroup logging subtask gone
		.... .1..		JMTN2ESA	"B'0000000000000100'" Email services not available
		.... ..1.		JMTN2ESM	"B'0000000000000010'" Email services not available on this mbr
476	(1DC)	BITSTRING	2	JMTNOT03	Notice flag bytes 3
478	(1DE)	BITSTRING	2	JMTNOT04	Notice flag bytes 4
		Critical notice mask is built when the monitor initialized from the NOTICE table.			
480	(1E0)	SIGNED	8	JMTNOTCR	Mask of critical notices

Table 219. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Patch space for code that uses R11 addressability to the HJCT			
488	(1E8)	SIGNED	4		Reserved
496	(1F0)	DBL WORD	8	(0)	
496	(1F0)	BITSTRING	256	JMTPATCH(2)	Patch space for R11-HJCT code
1008	(3F0)	DBL WORD	8	(0)	Ensure alignment
1008	(3F0)	X'3F0'	0	JMTSIZE	"*-HJCT" HJCT length

Table 220. Cross Reference for $HJCT

Name	Offset	Hex Tag
HJCT	0	
JMTBADA	20	
JMTCOMCH	B8	
JMTGWORK	C0	0
JMTHCCT	14	
JMTHCT	10	
JMTID	0	C8D1C3E3
JMTJASCB	A4	
JMTJES2A	A0	0
JMTJSINI	B9	80
JMTJSTAT	B9	
JMTJSTRM	B9	40
JMTJ2WAT	AC	
JMTLWTO	140	
JMTLWTOL	1AC	70
JMTMODMP	1C	
JMTMONCB	18	
JMTMSD	B4	
JMTMWE	B0	
JMTMWT	BC	
JMTNFLG1	1D4	8
JMTNLEN	1D4	C
JMTNMSK	1D4	0
JMTNMSNX	1D4	54
JMTNOTCR	1E0	
JMTNOTIC	1D8	
JMTNOTMT	1D4	
JMTNOT01	1D8	
JMTNOT02	1DA	
JMTNOT03	1DC	
JMTNOT04	1DE	
JMTNSIZ	1D4	60
JMTNTXT	1D4	E
JMTN1ASP	1D8	400
JMTN1BOS	1D8	800

Table 220. Cross Reference for $HJCT (continued)

Name	Offset	Hex Tag
JMTN1CRF	1D8	1000
JMTN1CRT	1D4	80
JMTN1FGC	1D8	8
JMTN1IPL	1D8	200
JMTN1JIN	1D8	4000
JMTN1JNA	1D8	8000
JMTN1JPX	1D8	80
JMTN1JST	1D8	100
JMTN1JTR	1D8	2000
JMTN1LNC	1D8	1
JMTN1NNC	1D8	2
JMTN1NPM	1D8	4
JMTN1NSP	1D8	20
JMTN1PEN	1D8	40
JMTN1PSP	1D8	10
JMTN2AHL	1DA	1000
JMTN2ANJ	1DA	200
JMTN2ANR	1DA	100
JMTN2BRT	1DA	40
JMTN2CDR	1DA	20
JMTN2CLO	1DA	2000
JMTN2DLS	1DA	10
JMTN2DST	1DA	80
JMTN2DUB	1DA	4000
JMTN2ESA	1DA	4
JMTN2ESM	1DA	2
JMTN2LIM	1DA	800
JMTN2SIM	1DA	400
JMTN2WDF	1DA	8000
JMTN2ZGL	1DA	8
JMTOFSTB	8	
JMTPATCH	1F0	0
JMTPBRTL	1C4	
JMTPCKPH	1CC	
JMTPJOBL	1C8	
JMTPLCMD	1D0	
JMTPMAIN	1C0	
JMTPROBC	1D0	5
JMTPROBL	1C0	
JMTSIZE	3F0	3F0
JMTSSNM	A8	D1C5E2F2
JMTVRNUM	4	1
JMTVRSN	4	
JMTXTRAN	1B0	C0
JMTZEROS	60	0

$ICE information

$ICE programming interface information

The following fields are **NOT** programming interface information:

- ICE#MSTR
- ICEACPTN
- ICEALCHN
- ICEAPCHN
- ICEFLAGS
- ICEFLGS2
- ICEFLGS3
- ICEFRZRC
- ICEINCT
- ICEINDEX
- ICEINHD
- ICEINLM
- ICEINTL
- ICELOST
- ICENJEF1
- ICENJEF2
- ICEOUTBF
- ICEOUTCT
- ICEOUTHD
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESTAT
- ICESUSFL
- ICETEA
- ICETNTRY
- ICETTIME
- ICEXRFBK
- ICEXTWRK

$ICE heading information

Common name:	Interface Control Element
Macro ID:	$ICE
DSECT name:	ICE ICETNTRY

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See ICESIZE

Created by: HASPIRRE
HASPSNA

Pointed to by: $ICELOST field of the $HCT data area
MDCTICE field of the $DCT data area
ICEAPCHN field of the $ICE data area
ICEALCHN field of the $ICE data area
ICETEMP field of the $ICE data area
MLMICEQ field of the $MLMWORK data area
MLMICEQ2 field of the $MLMWORK data area
MLMXICE field of the $MLMWORK data area
MLMWRKIQ field of the $MLMWORK data area

Serialization: Normal PCE dispatch serialization

Function: The ICE control block represents a VTAM session between JES2 and an NJE or RJE partner. The ICE is used to hold information about that session.
At the end of the ICE there is a rolling trace.
Entries are added to this trace whenever a significant event occurs on this session. The trace entries are mapped by the ICETNTRY DSECT.

$ICE mapping

Table 221. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICE	INTERFACE CONTROL ELEMENT DSECT
0	(0)	BITSTRING	1	ICESTAT	ICE STATUS INDICATORS
		1...		ICEDRAIN	"B'10000000'" ICE DRAIN REQ PENDING
		.1..		ICEALLOC	"B'01000000'" ICE ALLOCATED INDICATOR
		..1.		ICETIMER	"B'00100000'" ICE AWAITING TIMER INTRPT
		...1		ICEHOLD	"B'00010000'" ICE TEMPORARY HOLD STATUS
		.... 1...		ICERTRPD	"B'00001000'" ICE AWAITING RTR STATUS
		.... .1..		ICERCVSP	"B'00000100'" ICE RECEIVE CS STATUS
		.... ..1.		ICEABORT	"B'00000010'" ICE ABORT INDICATOR
		1		ICECLOSE	"B'00000001'" ICE CLOSE INDICATOR
		1111 1111		ICEAVAIL	"B'11111111'" ICE AVAILABLE INDICATOR
1	(1)	BITSTRING	1	ICEFLAGS	SESSION STATUS INDICATORS
		1...		ICEINBND	"B'10000000'" SESSION INBOUND ALLOCATED HDX-FF
		.1..		ICEOUTBD	"B'01000000'" SESSION OUTBOUND ALLOCATED HDX-FF
		..1.		ICEREVFL	"B'00100000'" SESSION REVERSED DIRECTION HDX-FF
		...1		ICEINBRK	"B'00010000'" SESSION IN BRACKET STATE
		.... 1...		ICEBBPND	"B'00001000'" SESSION BB PENDING STATE
		.... .1..		ICEEBPND	"B'00000100'" SESSION EB PENDING STATE
		.... ..1.		ICECHDIR	"B'00000010'" SESSION CD PENDING STATE

Table 221. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ICECNECT	"B'00000001'" SESSION IS CONNECTED (OPNDST)
		...1 11..		ICEBRCKT	"B'00011100'" BRACKET STATUS INDICATOR
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10'	0	ICETRCLN	"*-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
		1...		ICESIMPL	"B'10000000'" IMPLIED SUSPEND WITHOUT FM HEADER
		.1..		ICESUSPD	"B'01000000'" SUSPEND IN PROGRESS. $WAIT NEEDED
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1'	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2'	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3'	0	ICEFRZCR	"3" CRITICAL ERROR
29	(1D)	X'4'	0	ICEFRZRE	"4" HASPSICE RECOVERY
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
		1...		ICEXRDNA	"B'10000000'" DEST NOT ACCEPTING FURTHER DATA
		.1..		ICEXRCPY	"B'01000000'" DEST NOT HANDLING MULTIPLE COPIES
		..1.		ICENSXIT	"B'00100000'" NSXIT SCHEDULED FLAG
		...1		ICEQUIES	"B'00010000'" QUIESCE THEN SHUTDOWN FLAG
		.... 1...		ICERSTSR	"B'00001000'" RESETSR CS MODE RPL ISSUED
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINHD	INBOUND QUEUE HEAD BUFFER PTR
44	(2C)	ADDRESS	4	ICEINTL	INBOUND QUEUE TAIL BUFFER PTR
48	(30)	ADDRESS	2	ICEOUTLM	OUTBOUND QUEUE LIMIT
50	(32)	ADDRESS	2	ICEOUTCT	OUTBOUND QUEUE COUNTER
52	(34)	ADDRESS	4	ICEOUTBF	OUTBOUND OUTSTANDING BUFFER PTR
56	(38)	ADDRESS	4	ICEOUTHD	OUTBOUND QUEUE HEAD BUFFER PTR
60	(3C)	ADDRESS	4	ICEOUTTL	OUTBOUND QUEUE TAIL BUFFER PTR
64	(40)	ADDRESS	4	ICEADCT	ADDR OF ASSOCIATED LOGON DCT

Table 221. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	ADDRESS	4	ICELDCT	ADDR OF ASSOCIATED LINE DCT
72	(48)	ADDRESS	4	ICERDCT	ADDR OF ASSOCIATED REMOTE DCT (RAT addr during autologon)
76	(4C)	ADDRESS	4	ICESDCT	ADDR OF FIRST SUSPND RJE DCT ADDR OF NEXT TO POST NJE DCT
80	(50)	ADDRESS	4	ICEBUFAD	ADDR OF CURRENLY SCHED BUFFER
84	(54)	ADDRESS	4	ICECPT	SESSION COMPACTION TABLE ADDR
88	(58)	ADDRESS	4	ICEDCPT	SESSION DECOMPACTION TABLE ADDR
92	(5C)	ADDRESS	4	ICEATE	ADDR OF SESS PARTNRS APT ENTRY
96	(60)	BITSTRING	4	ICEWTIME	SESSION ALLOC WAIT TIME STAMP
100	(64)	ADDRESS	4	ICECNTRS(0)	SESSION STATISTICS COUNTERS
100	(64)	ADDRESS	4	ICETOTAL	SESSION TOTAL SEND/REC COUNT
104	(68)	ADDRESS	4	ICEXRESP	SESSION EXECPTION RESP COUNT
108	(6C)	ADDRESS	4	ICELUSTA	SESSION LOG UNIT STATUS COUNT
112	(70)	ADDRESS	4	ICEBDREJ	SESSION BID REJECTED COUNT
116	(74)	ADDRESS	4	ICETEMP	SESSION TEMPORARY ERROR COUNT
120	(78)	BITSTRING	1	ICEFLGS2	SESSION STATUS FLAGS
		1...		ICEFREEZ	"B'10000000'" ICE FREEZE INDICATOR
		.1..		ICEBDS	"B'01000000'" BEGIN DESTINATION SEL. RCVD
		..1.		ICEEDS	"B'00100000'" END DESTINATION SEL. RECVD
		...1		ICESTATI	"B'00010000'" STATE ERROR DETECTED
		.... 1...		ICE1STLU	"B'00001000'" FIRST SESSION FOR SMF
		.... .1..		ICESIGNL	"B'00000100'" DATAFLOW INRPT PENDING
		.... ..1.		ICEOUTBK	"B'00000010'" DF INRPT OUTBD FOR OUTBD
		1		ICEBREAK	"B'00000001'" DATAFLOW BREAK PENDING
121	(79)	BITSTRING	1	ICENJEF1	NJE FLAG BYTE1-SESS START FLAG
		1...		ICENJE	"B'10000000'" ICE BEING USED BY NJE SESSION
		.1..		ICEPRIME	"B'01000000'" ICE REPRESENTS PRIMARY NJE APPL
		.... 1...		ICEFMHR4	"B'00001000'" NJE FMH (TYPE 4) RECEIVED
		.... .1..		ICEFMHRV	"B'00000100'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) RECEIVED
		.... ..1.		ICEFMHS4	"B'00000010'" NJE FM HDR 4 SUCCESSFULLY SENT (+RSP TO HDR RECEIVED)
		1		ICEFMHST	"B'00000001'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) SUCCESSFULLY SENT
122	(7A)	BITSTRING	1	ICENJEF2	NJE FLAG BYTE2-SESS SHTDWN FLAG
		1...		ICEQUIET	"B'10000000'" ORDERLY SHUTDOWN IN PROGRESS
		.1..		ICEUNBD	"B'01000000'" UNBIND RECEIVED FROM PLU
		..1.		ICERSHUT	"B'00100000'" REQUEST SHUTDOWN CONTROL RCVD
		...1		ICETERMS	"B'00010000'" TERMSESS ISSUED
		.... 1...		ICETSC	"B'00001000'" TERMSESS COMPLETE

Table 221. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ICERCON	"B'00000100'" ICE ALLOCATED TO RCP
		.... ..1.		ICERSCN	"B'00000010'" RESCAN LINES FOR PASSWORD
123	(7B)	BITSTRING	1	ICEFLGS3	ADDITIONAL SESSION STATUS
		1...		ICE3SIMI	"B'10000000'" SIMLOGON ISSUED
		.1..		ICE3SIMA	"B'01000000'" SIMLOGON ACCEPTED
		..1.		ICE3SIMC	"B'00100000'" SIMLOGON COMPLETE
		...1		ICE3LOGX	"B'00010000'" LOGON EXIT18 INVOKED
		.... 1...		ICE3RATA	"B'00001000'" ICERDCT FIELD CONTAINS A RAT ADDRESS
		.... .1..		ICE3WINC	"B'00000100'" Wait for inbound buffer count to go to zero
124	(7C)	BITSTRING	40	ICEBAREA(0)	BIND/NSP DATA AREA
124	(7C)	BITSTRING	36	ICEBIND	SESSION BIND IMAGE
160	(A0)	BITSTRING	4		Additional space for NSP
164	(A4)	ADDRESS	4	ICELOST	Chain of frozen ICEs
168	(A8)	DBL WORD	8	ICEXTWRK(0)	VTAM EXIT ROUTINE WORK AREA
168	(A8)	SIGNED	4	ICEXTWCD(0)	VTAM EXIT ROUT ACTION CODE WORD
168	(A8)	BITSTRING	3		RESERVED
171	(AB)	BITSTRING	1	ICEXTCOD	VTAM EXIT ROUTINE ACTION CODE
172	(AC)	ADDRESS	4	ICEXTCHN	VTAM EXIT ROUTINE ICE CHAIN
176	(B0)	CHARACTER	8	ICELMODE	VTAM LOGMODE
184	(B8)	DBL WORD	8	ICECLR(0)	End of area to be cleared when ICE is initialized
	ICE Trace area This trace area is updated regularly with activity related to this ICE. ICETEA is the address of the current (last used) trace area. The trace wraps when it reaches the end.				
184	(B8)	X'C'	0	ICETNUM	"12" Number of entries in trace
184	(B8)	ADDRESS	4	ICETEA	Addr of current trace entry
188	(BC)	SIGNED	4		Reserved
192	(C0)	DBL WORD	8	ICETTIME	Time of last trace
200	(C8)	DBL WORD	8	ICET1ST(0)	First trace entry
200	(C8)	BITSTRING	0	(0)	Actual trace entries
848	(350)	BITSTRING	1	ICETEND(0)	End of ICE trace table
848	(350)	DBL WORD	8	(0)	Double word align ICE
848	(350)	X'350'	0	ICESIZE	"*-ICE" LENGTH OF ICE DSECT
	ICERCVST/ICESNDST				
		1111		ICEDSTRM	"B'11110000'" STATE MASK
		....		ICERESUM	"B'00000000'" RESUME SUSPENDED DATA SET
		...1		ICENMEND	"B'00010000'" NORMAL END OF DATA SET
		..1.		ICEBEGIN	"B'00100000'" BEGINNING OF DATA SET
		..11		ICEODS	"B'00110000'" BEGIN/END OF DATA SET
		.1..		ICESPEND	"B'01000000'" SUSPEND DATA SET
		.1.1		ICEABEND	"B'01010000'" ABORT DATA SET (NO RESUME)

Table 221. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.11.		ICECONT	"B'01100000'" CONTINUE DESTINATION
		.111		ICESTRS1	"B'01110000'" RESERVED
		1...		ICESTRS2	"B'10000000'" RESERVED
		1..1		ICESTRS3	"B'10010000'" RESERVED
		1.1.		ICESTRS4	"B'10100000'" RESERVED
		1.11		ICESTRS5	"B'10110000'" RESERVED
		11..		ICESTRS6	"B'11000000'" RESERVED
		11.1		ICESTRS7	"B'11010000'" RESERVED
		111.		ICENOFMH	"B'11100000'" DATAFLOW HAS NO FMH PENDING
		1111		ICEINSTR	"B'11110000'" DATAFLOW NO FMH PEND
		.... 1...		ICEINCHN	"B'00001000'" DATAFLOW IN CHAIN STATE
		.... .1..		ICEOCPND	"B'00000100'" DATAFLOW EOC PEND STATE
		.... ..1.		ICECNCEL	"B'00000010'" DATAFLOW CHAIN CANCELED
		1		ICEWTRSP	"B'00000001'" DATAFLOW WAITING FOR RESPONSE

Table 222. Structure ICETNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICETNTRY	, ICE trace entry DSECT
0	(0)	SIGNED	2	ICETTYPE(0)	Trace identifier
0	(0)	BITSTRING	1	ICETID1	Trace identifier 1
0	(0)	X'1'	0	ICETBUF	"1" Buffer end proc
0	(0)	X'2'	0	ICETICE	"2" ICE exit processing
0	(0)	X'3'	0	ICETPEND	"3" TPEND exit processing
0	(0)	X'4'	0	ICETSRMT	"4" Start Remote
0	(0)	X'5'	0	ICETERPL	"5" Execute RPL
0	(0)	X'6'	0	ICETFBUF	"6" Buffer free
0	(0)	X'7'	0	ICETSSAL	"7" Autolog SAF completion
1	(1)	BITSTRING	1	ICETID2	Trace identifier 2 (Meaning based on id 1)
1	(1)	X'2'	0	ICETCLC1	"*-ICETNTRY" Length for compare
2	(2)	SIGNED	2	ICETSEQ	Trace sequence number
4	(4)	BITSTRING	1	ICETREST(0)	Used to skip SEQ in CLC
ICE status fields					
4	(4)	BITSTRING	1	ICETSTAT	ICESTAT
5	(5)	BITSTRING	1	ICETFLGS	ICEFLAGS
6	(6)	BITSTRING	1	ICETRCTS	ICERCVST
7	(7)	BITSTRING	1	ICETSNDS	ICESNDST
8	(8)	BITSTRING	1	ICETINDX	ICEINDEX
9	(9)	BITSTRING	2	ICETCID	ICECID+2
11	(B)	BITSTRING	1	ICETSUSF	ICESUSFL
12	(C)	BITSTRING	1	ICETFLG2	ICEFLGS2
13	(D)	BITSTRING	1	ICETFLG3	ICEFLGS3
14	(E)	BITSTRING	1	ICETNJF1	ICENJEF1

Table 222. Structure ICETNTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
15	(F)	BITSTRING	1	ICETNJF2	ICENJEF2
		RPL status fields (if no RPL then all fields are X'FF')			
16	(10)	ADDRESS	4	ICETRPLA	RPL address
20	(14)	BITSTRING	1	ICETRREQ	RPLREQ
21	(15)	BITSTRING	1	ICETSRTY	RPLSRTYP
22	(16)	BITSTRING	2	ICETSEQN	RPLSEQNO
24	(18)	BITSTRING	1	ICETVFL2	RPLVTFL2
25	(19)	BITSTRING	3	ICETCNTR	RPLCNTRL
28	(1C)	BITSTRING	1	ICETCHN	RPLCHN
29	(1D)	BITSTRING	1	ICETRH3	RPLRH3
30	(1E)	BITSTRING	1	ICETRTNC	RPLRTNCD
31	(1F)	BITSTRING	1	ICETFDB2	RPLFDB2
32	(20)	BITSTRING	4	ICETFDBK	RPLFDBK2
36	(24)	BITSTRING	1	ICETRWHH	RPLWHRCH
37	(25)	BITSTRING	1	ICETRWH2	RPLWHRC2
		LOGON DCT fields (if no DCT then all fields are X'FF')			
38	(26)	BITSTRING	1	ICETASTA	Logon DCTSTAT
39	(27)	BITSTRING	1	ICETAFLS	Logon DCTFLAGS
40	(28)	BITSTRING	1	ICETAFL2	Logon DCTFLAG2
41	(29)	BITSTRING	1	ICETAMST	Logon MDCTSTAT
		LINE DCT fields (if no DCT then all fields are X'FF')			
42	(2A)	BITSTRING	1	ICETLSTA	Line DCTSTAT
43	(2B)	BITSTRING	1	ICETLFLS	Line DCTFLAGS
44	(2C)	BITSTRING	1	ICETLFL2	Line DCTFLAG2
45	(2D)	BITSTRING	1	ICETLMST	Line MDCTSTAT
		DEVICE DCT fields (if no device DCT - ICERDCT - then all fields are X'FF')			
46	(2E)	BITSTRING	1	ICETRSTA	Device DCTSTAT
47	(2F)	BITSTRING	1	ICETRFLS	Device DCTFLAGS
48	(30)	BITSTRING	1	ICETRFL2	Device DCTFLAG2
49	(31)	BITSTRING	1	ICETRDID	Device DCTDEVID
		ICETCNT is a count of the number of events which have occured which would have created trace entries which were identical except for the sequence number. The trace entry contains the most recent sequence number.			
52	(34)	BITSTRING	1		Reserved for future
52	(34)	X'31'	0	ICETCLC2	"*-ICETREST" Length for compare
53	(35)	BITSTRING	1	ICETCNT	Count of duplicate traces
53	(35)	X'36'	0	ICETEALN	"*-ICETNTRY" Length of a single entry

Table 223. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICE	Re-establish ICE DSECT

Table 224. Cross Reference for $ICE

Name	Offset	Hex Tag
ICE	0	
ICE	0	
ICE#MSTR	27	
ICEABEND	350	50
ICEABORT	0	2
ICEACPTN	24	0
ICEADCT	40	
ICEALCHN	18	
ICEALLOC	0	40
ICEAPCHN	14	
ICEATE	5C	
ICEAVAIL	0	FF
ICEBAREA	7C	
ICEBBPND	1	8
ICEBDREJ	70	
ICEBDS	78	40
ICEBEGIN	350	20
ICEBIND	7C	0
ICEBRCKT	1	1C
ICEBREAK	78	1
ICEBUFAD	50	
ICECHDIR	1	2
ICECID	10	0
ICECLOSE	0	1
ICECLR	B8	
ICECNCEL	350	2
ICECNECT	1	1
ICECNTRS	64	
ICECONT	350	60
ICECPT	54	
ICEDCPT	58	
ICEDRAIN	0	80
ICEDSTRM	350	F0
ICEEBPND	1	4
ICEEDS	78	20
ICEFLAGS	1	0
ICEFLGS2	78	0
ICEFLGS3	7B	0
ICEFMHRV	79	4
ICEFMHR4	79	8
ICEFMHST	79	1

Table 224. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICEFMHS4	79	2
ICEFREEZ	78	80
ICEFRZAB	1D	1
ICEFRZCR	1D	3
ICEFRZNL	1D	2
ICEFRZRC	1D	
ICEFRZRE	1D	4
ICEHOLD	0	10
ICEINBND	1	80
ICEINBRK	1	10
ICEINCHN	350	8
ICEINCT	22	
ICEINDEX	4	
ICEINHD	28	
ICEINLM	20	
ICEINSTR	350	F0
ICEINTL	2C	
ICELDCT	44	
ICELMODE	B0	40404040
ICELOST	A4	
ICELUSTA	6C	
ICENJE	79	80
ICENJEF1	79	0
ICENJEF2	7A	0
ICENMEND	350	10
ICENOFMH	350	E0
ICENSXIT	26	20
ICEOCPND	350	4
ICEODS	350	30
ICEOUTBD	1	40
ICEOUTBF	34	
ICEOUTBK	78	2
ICEOUTCT	32	
ICEOUTHD	38	
ICEOUTLM	30	
ICEOUTTL	3C	
ICEPRIME	79	40
ICEQUIES	26	10
ICEQUIET	7A	80
ICERCON	7A	4
ICERCPTN	25	0
ICERCVSP	0	4
ICERCVST	2	0
ICERDCT	48	
ICERESUM	350	0
ICEREVFL	1	20

Table 224. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICERSCN	7A	2
ICERSHUT	7A	20
ICERSPCT	5	
ICERSTSR	26	8
ICERTRPD	0	8
ICERULEN	6	
ICESDCT	4C	
ICESIGNL	78	4
ICESIMPL	1C	80
ICESIZE	350	350
ICESNDST	3	0
ICESPEND	350	40
ICESTAT	0	0
ICESTATI	78	10
ICESTRS1	350	70
ICESTRS2	350	80
ICESTRS3	350	90
ICESTRS4	350	A0
ICESTRS5	350	B0
ICESTRS6	350	C0
ICESTRS7	350	D0
ICESUSFL	1C	
ICESUSPD	1C	40
ICESYMB	8	40404040
ICETAFLS	27	0
ICETAFL2	28	0
ICETAMST	29	0
ICETASTA	26	0
ICETBUF	0	1
ICETCHN	1C	0
ICETCID	9	0
ICETCLC1	1	2
ICETCLC2	34	31
ICETCNT	35	0
ICETCNTR	19	0
ICETEA	B8	
ICETEALN	35	36
ICETEMP	74	
ICETEND	350	
ICETERMS	7A	10
ICETERPL	0	5
ICETFBUF	0	6
ICETFDBK	20	0
ICETFDB2	1F	0
ICETFLGS	5	0
ICETFLG2	C	0

Table 224. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICETFLG3	D	0
ICETICE	0	2
ICETID1	0	
ICETID2	1	
ICETIMER	0	20
ICETINDX	8	0
ICETLFLS	2B	0
ICETLFL2	2C	0
ICETLMST	2D	0
ICETLSTA	2A	0
ICETNJF1	E	0
ICETNJF2	F	0
ICETNTRY	0	
ICETNUM	B8	C
ICETOTAL	64	
ICETPEND	0	3
ICETRCLN	8	10
ICETRCTS	6	0
ICETRDID	31	0
ICETREST	4	
ICETRFLS	2F	0
ICETRFL2	30	0
ICETRH3	1D	0
ICETRPLA	10	
ICETRREQ	14	0
ICETRSTA	2E	0
ICETRTNC	1E	0
ICETRWHH	24	0
ICETRWH2	25	0
ICETSC	7A	8
ICETSEQ	2	
ICETSEQN	16	0
ICETSNDS	7	0
ICETSRMT	0	4
ICETSRTY	15	0
ICETSSAL	0	7
ICETSTAT	4	0
ICETSUSF	B	0
ICETTIME	C0	
ICETTYPE	0	
ICETVFL2	18	0
ICET1ST	C8	
ICEUNBD	7A	40
ICEWTIME	60	0
ICEWTRSP	350	1
ICEXRCPY	26	40

Table 224. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICEXRDNA	26	80
ICEXRESP	68	
ICEXRFBK	26	0
ICEXTCHN	AC	
ICEXTCOD	AB	0
ICEXTWCD	A8	
ICEXTWRK	A8	
ICE1STLU	78	8
ICE3LOGX	7B	10
ICE3RATA	7B	8
ICE3SIMA	7B	40
ICE3SIMC	7B	20
ICE3SIMI	7B	80
ICE3WINC	7B	4

$INIWARM information

$INIWARM heading information

Common name: HASPIR* to HASPWARM Communications block.

Macro ID: $INIWARM

DSECT name: INW

Owning component: JES2 (SC1BH)

Eye-catcher ID: INIW
Offset: INWID
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: Real and virtual anywhere

Size: See INWSIZE

Created by: HASPIRA

Pointed to by: $INIWARM field of the $HCT data area

Serialization: None necessary. HASPIR* modules are only modules updating the area.

Function: There is data and circumstances uncovered by initialization modules which need to be known by warmstart. The warmstart PCE is created late in initialization and thus is unavailable for storing the data. The initialization PCE is removed after initialization completes and thus is unavailable to warmstart. This block fills the gap.

$INIWARM mapping

Table 225. Structure INW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INW	
0	(0)	CHARACTER	4	INWID	Eye catcher
4	(4)	BITSTRING	200	INWQSE	Qse for this member that existed before initialization began
204	(CC)	BITSTRING	1	INWFLAG1	Flags

Table 225. Structure INW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		INW1BRTD	"B'01000000'" BERT $DISTERR issued
205	(CD)	ADDRESS	4	INDOM493	DOM id for HASP493 issued from initialization
209	(D1)	BITSTRING	3	INWBRTLN	Length of BERT usage map
212	(D4)	ADDRESS	4	INWBRTMP	BERT usage map
		The TSUCLASS, STCCLASS and JOBCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions are copied from $CIRWORK in case installation processing wants to change the default values. $ADD JOBCLASS uses these values post initialization.			
216	(D8)	CHARACTER	24	INWROPSL	TSUCLASS defaults
240	(F0)	CHARACTER	24	INWROPST	STCCLASS defaults
264	(108)	CHARACTER	24	INWROPSU	JOBCLASS defaults
		If there is a STEPLIB in the JES2 PROC, INWSTEPL points to a data area that contains the data sets in the STEPLIB concatenation. This area is mapped using the INIDSN mapping below.			
288	(120)	ADDRESS	4	INWSTEPL	STEPLIB data set info
		The following maps the initialization data sets used when JES2 was started and the number of cards read from each. This area is mapped using the INIDSN mapping below.			
292	(124)	ADDRESS	4	INWDECKL	Init deck info address
		Command used to start JES2			
296	(128)	CHARACTER	126	INWSTRCM	Command used to start JES2
424	(1A8)	SIGNED	4	(0)	Alignment
		Ultimate default job class for JES2			
424	(1A8)	CHARACTER	8	INWDEFCL	Default job class
		Initialization status indicators			
432	(1B0)	BITSTRING	1	INWIFLAG	Init status flags
		1...		INWIFWRN	"B'10000000'" Warning message issued
		.1..		INWIFIER	"B'01000000'" Error on init statement
		..1.		INWIFVAL	"B'00100000'" Error post init deck
		...1		INWIFREA	"B'00010000'" Init deck read/open error
		.... 1...		INWIFCFG	"B'00001000'" Incompatible configuration
		.... .1..		INWIFXIT	"B'00000100'" Exit requested termination
433	(1B1)	BITSTRING	3		Reserved
		Error counts (corresponds to flags above			
436	(1B4)	SIGNED	4	INWICWRN	Warning message count
440	(1B8)	SIGNED	4	INWICIER	Error on init statement
444	(1BC)	SIGNED	4	INWICVAL	Error post init deck

Table 225. Structure INW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
448	(1C0)	SIGNED	4	INWICREA	Init deck read/open error
452	(1C4)	SIGNED	4	INWICCFG	Incompatible configuration
456	(1C8)	SIGNED	4	INWICXIT	Exit requested termination
464	(1D0)	DBL WORD	8	(0)	Ensure alignment
464	(1D0)	X'1D0'	0	INWSIZE	"*-INW" Length of INIWARM

Table 226. Structure INIDSN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INIDSN	, Data set list header
0	(0)	CHARACTER	4	IDSNID	Eyecatcher
4	(4)	SIGNED	4	IDSNLEN	Total length of area
8	(8)	SIGNED	4	IDSNFRST	First data set number
12	(C)	SIGNED	4	IDSNLAST	and last data set number
16	(10)	SIGNED	4	IDSNMAX	Max space for DS names
20	(14)	SIGNED	4		Reserved
24	(18)	CHARACTER	8	IDSNTYPE	Type of data sets
32	(20)	DBL WORD	8	IDSNSTRT(0)	Start of DSN list
32	(20)	BITSTRING	18432	(0)	Default number of entries
18464	(4820)	DBL WORD	8	(0)	End of header
18464	(4820)	X'4820'	0	IDSNSIZE	"*-INIDSN" Default area length

Table 227. Structure INIDSNE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INIDSNE	, Data set list entry
0	(0)	CHARACTER	54	IDSENAME(0)	Data set name (and member)
0	(0)	CHARACTER	44	IDSEDSN	Data set name
44	(2C)	CHARACTER	10	IDSEMEMA(0)	Member area
44	(2C)	CHARACTER	1	IDSEMEMO	Open parenthesis
45	(2D)	CHARACTER	8	IDSEMEMB	Member name
53	(35)	CHARACTER	1	IDSEMEMC	Close parenthesis
54	(36)	BITSTRING	6	IDSEVOL	First VOLSER
60	(3C)	BITSTRING	8	IDSEUNIT	First UNIT address
68	(44)	SIGNED	4	IDSECNT	Type dependent count
72	(48)	DBL WORD	8	(0)	Alignment
72	(48)	X'48'	0	IDSESIZE	"*-INIDSNE" Data set entry length

Table 228. Cross Reference for $INIWARM

Name	Offset	Hex Tag
IDSECNT	44	
IDSEDSN	0	
IDSEMEMA	2C	
IDSEMEMB	2D	
IDSEMEMC	35	
IDSEMEMO	2C	

Table 228. Cross Reference for $INIWARM (continued)

Name	Offset	Hex Tag
IDSENAME	0	
IDSESIZE	48	48
IDSEUNIT	3C	
IDSEVOL	36	
IDSNFRST	8	1
IDSNID	0	C9C4E2D5
IDSNLAST	C	1
IDSNLEN	4	
IDSNMAX	10	100
IDSNSIZE	4820	4820
IDSNSTRT	20	
IDSNTYPE	18	
INDOM493	CD	
INIDSN	0	
INIDSNE	0	
INW	0	
INWBRTLN	D1	
INWBRTMP	D4	
INWDECKL	124	
INWDEFCL	1A8	
INWFLAG1	CC	
INWICCFG	1C4	
INWICIER	1B8	
INWICREA	1C0	
INWICVAL	1BC	
INWICWRN	1B4	
INWICXIT	1C8	
INWID	0	C9D5C9E6
INWIFCFG	1B0	8
INWIFIER	1B0	40
INWIFLAG	1B0	
INWIFREA	1B0	10
INWIFVAL	1B0	20
INWIFWRN	1B0	80
INWIFXIT	1B0	4
INWQSE	4	
INWROPSL	D8	F0F0F0F0
INWROPST	F0	F0F0F0F0
INWROPSU	108	F0F0F0F0
INWSIZE	1D0	1D0
INWSTEPL	120	
INWSTRCM	128	
INW1BRTD	CC	40

$IOT information

$IOT programming interface information

The following field is **NOT** programming interface information:

- IOTTGADR

$IOT heading information

Common name:	JES2 Input/Output Table
Macro ID:	$IOT
DSECT name:	IOT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	IOT Offset: IOTID-IOT Length: L'IOTID
Storage attributes:	Subpool: 0 for Main Task, 230 for User Environment, 231 for Spin IOT. Key: 1 for Main Task, 5 for User Environment, 1 for Spin IOT. Residency: The $IOT is a JES2 spool resident control block. Real and virtual storage can be anywhere (above or below 16M).
Size:	See IOTLENG
Created by:	Primary Allocation IOT - Most commonly created at reader time (HASPRDR), but also created dynamically when spin data sets are allocated. Secondary Allocation IOT - $TRACK routine in HASPTRAK and $STRAK routine in HASCSRIC as are needed. PDDB only IOT - HASPNET, HASPRDR, HASCDSAL or HASCJBST.
Pointed to by:	CHKIOTTC field of the $CHK data area (addr on spool) GCBIOTTR field of the $GCB data area (addr on spool) CCTSPIOT field of the $HCCT data area (LIFO spin Q) CCTSPIOT field of the $HCCT data area (FIFO spin Q) $NEWSIOT field of the $HCT data area (addr on spool) JCTSPIOT field of the $JCT data area (addr on spool) JCTIOT field of the $JCT data area (addr on spool) JIBIOT field of the $JIB data area JIBIOTTR field of the $JIB data area (addr on spool) JIBFIOTR field of the $JIB data area (addr on spool) JNEWIOTT field of the $JNEW data area (addr on spool) JOEIOTTR field of the $JOE data area (addr on spool) JQETRAK field of the $JQE data area (addr on spool) MTLMTTR field of the $MTL data area (addr on spool) PDBPLIOT field of the $PDDB data area PDBSPTTR field of the $PDDB data area (addr on spool) PSOIOT field of the $PSO data area (addr on spool) PSOANCHR field of the $PSO data area (addr on spool) SDBPIOT field of the $SDB data area SDBAIOT field of the $SDB data area SJBIOT field of the $SJB data area SJBSPIOT field of the $SJB data area SJXBSIOT field of the $SJXB data area SJXRIOT field of the $SJXB data area TABAIOT field of the $TAB data area Various fields in the processor work areas and parameter lists.
Serialization:	While a job is in execution, the IOT resides in the user address space, so that no other JES2 PCE will update the IOT. At other times, various types of serialization are used for the different types of IOTs. ENQ/DEQ logic is used for Secondary Allocation IOTs. Compare-and-swap logic is used for Spin IOTs.

Function: The IOT is a spool resident control block that describes the spool space used by a job (all the space allocated to data sets, control blocks, etc.). It also holds the information on the job's data sets.

$IOT mapping

Table 229. Structure IOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOT	HASP INPUT/OUTPUT TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL. BUFMEMD1, BUFMEMW1, BUFMEMW2, BUFMEMW3, and BUFMEMW5 are used by HAM when writing out IOTs for SYSOUT data sets. They cannot be used in the IOT if it could be written by HASCHAM.			
0	(0)	X'50'	0	IOTFLAG4	"BUFMFLG1-BFPDSECT+IOT,1" Fourth flag byte (memory resident only)
0	(0)	X'80'	0	IOT4CKPT	"BUFM1CKP" Rewrite this IOT
0	(0)	X'51'	0	IOTFLAG5	"BUFMEMF2-BFPDSECT+IOT,1" Fifth flag byte (memory resident only)
0	(0)	X'80'	0	IOT5CSDB	"BFD2CSDB" B'10000000' Write IOT in HAM (under the SDB)
0	(0)	X'40'	0	IOT5CSFR	"BFD2CSFR" B'01000000' HAM CEA should free IOT
0	(0)	X'10'	0	IOT5IOE	"BFD2IOE" B'00010000' I/O error (HAM PUT only)
0	(0)	X'58'	0	IOTJCT	"BUFMEMW6-BFPDSECT+IOT,4" Storage address of JCT (referenced only in allocation IOTs)
0	(0)	X'5C'	0	IOTIOT	"BUFMEMW7-BFPDSECT+IOT,4" Storage address of next IOT
0	(0)	X'5C'	0	IOTCSASP	"BUFMEMW7-BFPDSECT+IOT,4" CSA spin IOT chain pointer
0	(0)	X'64'	0	IOTBWP	"BUFWRTBK-BFPDSECT+IOT,4" Storage address of prev IOT
0	(0)	X'64'	0	IOTJOE	"BUFWRTBK-BFPDSECT+IOT,4" Offset of JOE for SPIN IOT while in HASPSPIN
		There will be only one secondary allocation IOT on this memory chain.			
0	(0)	X'4C'	0	IOTIOTA	"BUFMEMW4-BFPDSECT+IOT,4" Storage address of secondary IOT
		The following fields are used ONLY in the CSA SPIN IOT. They can be used because the only buffer prefix field used in the CSA queued SPIN IOT is the CSA chaining field.			
24	(18)	CHARACTER	8	IOTNTEYE	Eye catcher
32	(20)	CHARACTER	32	IOTNOTPL	Parm list storage for $HNOTIFY call from DSAL
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	IOTSTART	"*" START OF DATA WRITTEN TO SPOOL

Table 229. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
104	(68)	CHARACTER	4	IOTID	Eyecatcher
108	(6C)	CHARACTER	8	IOTJNAME	Job name
116	(74)	SIGNED	4	IOTJBNUM	Job number
120	(78)	SIGNED	4	IOTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	IOTSPLNG	"*-IOTID"
128	(80)	ADDRESS	2	IOTLENG	LENGTH OF IOT INCLUDING PREFIX
130	(82)	BITSTRING	1	IOTFLAG1	FIRST FLAG BYTE
131	(83)	BITSTRING	1	IOTFLAG2	SECOND FLAG BYTE
132	(84)	BITSTRING	4	IOTTRACK	TRACK ADDRESS OF THIS IOT
136	(88)	BITSTRING	4	IOTIOTTR	TRACK ADDRESS OF NEXT IOT
IOTMTHER is the allocation IOT associated with the PDDBs in this IOT. It is the job allocation IOT in non-spin PDDB-only IOTs, and the spin 'mother' IOT in spin-daughter PDDB IOTs. It is zero in the job (primary) allocation IOT and spin mother (primary) allocation IOTs and in secondary allocation IOTs. IOTMTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.					
140	(8C)	SIGNED	4	IOTMTHER	MTTR of mother alloc IOT
144	(90)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Charact-eristic (MOC) spool chain
148	(94)	SIGNED	4		Reserved
140	(8C)	BITSTRING	6	IOTPRMQT	MQTR of primary alloc IOT
146	(92)	BITSTRING	2		Reserved
148	(94)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
152	(98)	SIGNED	2	IOTTGOFL	Offset of 1st MQT Version 1 IOTs only. Must be zero in version 0 IOTs
154	(9A)	SIGNED	2	IOTTGOFF	Offset of free TGAE space
156	(9C)	SIGNED	4	IOTJQOFF	JQE OFFSET
160	(A0)	BITSTRING	1	IOTFLAG3	Third flag byte
IOTFLAG3					
		1...		IOT3NUTK	"B'10000000'" New track obtained after a close failure
		.1..		IOT3MOCF	"B'01000000'" Mother instance counting has failed
TGAEs in IOTs come in 3 flavors. Version 0 - Old style IOT with all TGAEs being 3 bytes in length Version 1 - An IOT that started off as a version 0 IOT with 3 byte TGAEs but an M of X'FF' was added to convert remaining TGAEs to 5 byte TGAEs Version 2 - An IOT with all 5 byte TGAEs					

Table 229. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
161	(A1)	BITSTRING	1	IOTVER	IOT Version number
161	(A1)	X'0'	0	IOTVER0	"0" Vrsn 0 IOT (short TGAEs)
161	(A1)	X'1'	0	IOTVER1	"1" Vrsn 1 IOT (Mixed TGAEs)
161	(A1)	X'2'	0	IOTVER2	"2" Vrsn 2 IOT (long TGAEs)
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	(2)	Reserved for future use
172	(AC)	SIGNED	4	IOTPDDBP	OFFSET BEYOND LAST PDDB IN IOT
176	(B0)	SIGNED	4	IOTPDDB	OFFSET TO FIRST PDDB IN IOT
180	(B4)	SIGNED	4	IOTDSCT	Offset of DSCT in IOT
184	(B8)	BITSTRING	4	IOTCKRC	MTTR OF CHK SPL REC - SPIN IOTS
188	(BC)	SIGNED	4	IOTMUCTR	Multiple Output Characteristics (MOC) Counter
192	(C0)	SIGNED	4	IOTCKTKN	Checkpoint token for spin data sets
196	(C4)	CHARACTER	8	IOTUSER	Userid which allocated datasets in this IOT (Only set by spool reload)
208	(D0)	DBL WORD	8		Reserved for future use
	ALLOCATION IOT (BOTH PRIMARY AND SECONDARY)				
216	(D8)	DBL WORD	8	IOTMSTAB(0)	MASTER TAB (DWORD ALIGNED FOR CDS ON TABMTTR)
228	(E4)	SIGNED	4		Reserved
232	(E8)	DBL WORD	8	(0)	ALIGN FOLLOWING DOUBLEWORD
232	(E8)	SIGNED	4	IOTCYMXM	MAX TTR THIS TRACK GROUP
236	(EC)	SIGNED	4	IOTCELL	MTTR OF NEXT AVAILABLE TRAKCELL
236	(EC)	X'E8'	0	IOTRCPBA	"IOTCYMXM,*-IOTCYMXM" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES IN RTAM
240	(F0)	BITSTRING	32	IOTSPMSK	MASK OF SPOOLS ALLOCATED ON
272	(110)	BITSTRING	32	IOTSAMSK	SPOOLS ALLOWED MASK
304	(130)	SIGNED	3	IOTFAMLY	Family ID for MOCA IOTs
307	(133)	BITSTRING	1		Reserved for future use
308	(134)	ADDRESS	4		Reserved for future use
312	(138)	DBL WORD	8		Reserved for future use
312	(138)	X'3'	0	IOTTGAEL	"3" Length of short TGAE (MTT)
312	(138)	X'5'	0	IOTTGA2L	"5" Long TGAE length (MQT)
312	(138)	X'140'	0	IOTTGAE	"*" START OF TRACK GROUP ALLOCATION ENTRIES (TGAE'S)
	NON-ALLOCATION IOT (PDDB IOT)				
216	(D8)	DBL WORD	8	(2)	RESERVED FOR FUTURE USE
232	(E8)	SIGNED	4	IOTPDDB1(0)	FIX IOT OFFSET TO LOCATION OF FIRST PDDB WITHIN A PDDB IOT
	IOTFLAG1				
		.1..		IOT1UNSP	"B'01000000'" IOT IS UNSPUN
		..1.		IOT1ALO2	"B'00100000'" IOT IS SECONDARY ALLOCATION IOT
		...1		IOT1SPIN	"B'00010000'" IOT TYPE IS SPIN

Table 229. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		IOT1ALOC	"B'00001000'" IOT is a primary allocation IOT (mutually exclusive with IOT1ALO2)
		.... .1..		IOT1NTPR	"B'00000100'" TO BE PROC. BY SPIN/HOLD
		.... ..1.		IOT1NEWS	"B'00000010'" JESNEWS IOT
		1		IOT1NEW	"B'00000001'" 2NDARY ALLOC IOT HAS BEEN BUILT
	IOTFLAG2				
		1...		IOT2UNAL	"B'10000000'" IOT HAS BEEN UNALLOCATED
		.1..		IOT2RUBL	"B'01000000'" IOT IS REUSABLE
		..1.		IOT2RUED	"B'00100000'" IOT HAS BEEN REUSED
		...1		IOT2NLPL	"B'00010000'" IOT CONTAINS ONLY NULL PLACEHOLDER PDDBS
		.... 1...		IOT2NSPN	"B'00001000'" SPIN IOT WAS UNALLOCATED AS NO-SPIN
		.... .1..		IOT2DSCT	"B'00000100'" DSCT contains valid info
		.... ..1.		IOT2SPNB	"B'00000010'" IOT is busy in HASPSPIN
		1		IOT2SPER	"B'00000001'" I/O error incurred writing IOT

Table 230. Cross Reference for $IOT

Name	Offset	Hex Tag
IOT	0	
IOTBWP	0	64
IOTCELL	EC	
IOTCKRC	B8	
IOTCKTKN	C0	
IOTCSASP	0	5C
IOTCYMXM	E8	
IOTDSCT	B4	
IOTFAMLY	130	
IOTFLAG1	82	
IOTFLAG2	83	
IOTFLAG3	A0	
IOTFLAG4	0	50
IOTFLAG5	0	51
IOTID	68	
IOTIOT	0	5C
IOTIOTA	0	4C
IOTIOTTR	88	
IOTJBKEY	78	
IOTJBNUM	74	
IOTJCT	0	58
IOTJNAME	6C	
IOTJOE	0	64

Table 230. Cross Reference for $IOT (continued)

Name	Offset	Hex Tag
IOTJQOFF	9C	
IOTLENG	80	
IOTMSTAB	D8	
IOTMTHER	8C	
IOTMUCTR	BC	
IOTMULTR	90	
IOTNOTPL	20	
IOTNTEYE	18	
IOTPDDB	B0	
IOTPDDBP	AC	
IOTPDDB1	E8	
IOTPRMQT	8C	
IOTRCPBA	EC	E8
IOTSAMSK	110	
IOTSPLNG	7C	18
IOTSPMSK	F0	
IOTSTART	0	68
IOTTGAE	138	140
IOTTGAEL	138	3
IOTTGATR	94	
IOTTGA2L	138	5
IOTTGOFF	9A	
IOTTGOFL	98	
IOTTRACK	84	
IOTUSER	C4	
IOTVER	A1	
IOTVER0	A1	0
IOTVER1	A1	1
IOTVER2	A1	2
IOT1ALOC	140	8
IOT1ALO2	140	20
IOT1NEW	140	1
IOT1NEWS	140	2
IOT1NTPR	140	4
IOT1SPIN	140	10
IOT1UNSP	140	40
IOT2DSCT	140	4
IOT2NLPL	140	10
IOT2NSPN	140	8
IOT2RUBL	140	40
IOT2RUED	140	20
IOT2SPER	140	1
IOT2SPNB	140	2
IOT2UNAL	140	80
IOT3MOCF	A0	40
IOT3NUTK	A0	80

Table 230. Cross Reference for $IOT (continued)

Name	Offset	Hex Tag
IOT4CKPT	0	80
IOT5CSDB	0	80
IOT5CSFR	0	40
IOT5IOE	0	10

$IRE information

$IRE programming interface information

$IRE is a programming interface.

$IRE heading information

Common name: IRE

Macro ID: $IRE

DSECT name: IRE

Owning component: JES2 (SC1BH)

Eye-catcher ID: IRE
Offset: IREEYE-IRE
Length: L'IREEYE

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in extended common storage

Size: See IRELEN

Created by: As a part of an ECSA CPOOL, the storage is obtained at CPOOL build time (called out of JES2 initialization processing). Elements are obtained during internal reader allocation processing.

Pointed to by: CCTINTRE field of the HCCT data area
HSBINTRE field of the HASB data area
IRENEXT field of the IRE data area
IREASNXT field of the IRE data area
RIDIRE field of the IRWD data area

Serialization: The IRE data area is obtained and added to the chains in the user address space. However, the IRE can only be deleted from the HCCT chain in the JES2 main task because the chain can be run by $DRDI processing.

Function: This area maps the data area used to track usage of internal readers. Each allocated has associated with it one tracking element in ECSA. This is used for the $DRDI command.

$IRE mapping

Table 231. Structure IRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRE	, Internal Reader Element
0	(0)	CHARACTER	4	IREEYE	Eyecatcher
4	(4)	ADDRESS	1	IREVER	Version
4	(4)	X'1'	0	IREVERN	"1" Initial version
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	10	IREDEVN	Device name
16	(10)	ADDRESS	4	IRENEXT	Next IRE on HCCT chain

Table 231. Structure IRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	IREASNXT	Next IRE on HASB chain
24	(18)	ADDRESS	4	IREIRWD	Associated IRWD
28	(1C)	ADDRESS	4	IRESJB	Owning SJB (or zero)
32	(20)	ADDRESS	4	IREHASB	Owning HASB
36	(24)	BITSTRING	8	IREASCBT	Owning address space token
44	(2C)	CHARACTER	8	IREOJOBN	Owning job name
52	(34)	CHARACTER	8	IREOJBID	and JOBID
60	(3C)	SIGNED	4	IREJOBCT	Total job count
64	(40)	CHARACTER	8	IRECJOBN	Job name, JOBID and
72	(48)	CHARACTER	8	IRECJBID	job key of job currently
80	(50)	SIGNED	4	IRECJKEY	on this internal reader
84	(54)	SIGNED	4	IRECUREC	Records read for current job
88	(58)	CHARACTER	12	IRECCARD	Card currently being processed
100	(64)	BITSTRING	1	IRERAUTH	Reader command authority (see IRSRAUTH for bits)
101	(65)	BITSTRING	1	IREFLAGS	Processing flags
		1...		IRESIIND	"B'10000000'" Independent mode
		.1..		IREHOLDJ	"B'01000000'" Hold job ($TJ...,H)
		..1.		IRETRACE	"B'00100000'" Tracing is active
		...1		IREIRCAC	"B'00010000'" IRE active in cleanup processing
		.... 1...		IRECLOSG	"B'00001000'" INTRDR CLOSEing
102	(66)	BITSTRING	1	IRESTATS	Current RDR status
		1...		IREINACT	"B'10000000'" IRE element logically deleted
		.1..		IREALLOC	"B'01000000'" Internal reader allocated
		..1.		IREACTIV	"B'00100000'" Internal reader active
103	(67)	BITSTRING	1		Reserved
104	(68)	CHARACTER	8	IREJCLAS	Default Job class
112	(70)	CHARACTER	1	IREMCLAS	Default MSGCLASS
113	(71)	CHARACTER	7		Reserved
120	(78)	BITSTRING	4	IRESIAFF	Default system affinity
124	(7C)	SIGNED	4	IREPRINT(0)	Default print route code
124	(7C)	SIGNED	2	IREPRNOD	Node number
126	(7E)	SIGNED	2	IREPRRTE	Local printer/remote number
128	(80)	CHARACTER	8	IREPRSER	Print userid
136	(88)	SIGNED	4	IREPUNCH(0)	Default punch route code
136	(88)	SIGNED	2	IREPUNOD	Node number
138	(8A)	SIGNED	2	IREPURTE	Local punch/remote number
140	(8C)	CHARACTER	8	IREPUSER	Punch userid
148	(94)	SIGNED	4	(3)	Reserved
160	(A0)	DBL WORD	8	(0)	Alignment
160	(A0)	X'A0'	0	IRELEN	"*-IRE" Length of data area

Table 232. Cross Reference for $IRE

Name	Offset	Hex Tag
IRE	0	
IREACTIV	66	20
IREALLOC	66	40
IREASCBT	24	
IREASNXT	14	
IRECCARD	58	
IRECJBID	48	
IRECJKEY	50	
IRECJOBN	40	
IRECLOSG	65	8
IRECUREC	54	
IREDEVN	6	
IREEYE	0	C9D9C540
IREFLAGS	65	
IREHASB	20	
IREHOLDJ	65	40
IREINACT	66	80
IREIRCAC	65	10
IREIRWD	18	
IREJCLAS	68	
IREJOBCT	3C	
IRELEN	A0	A0
IREMCLAS	70	
IRENEXT	10	
IREOJBID	34	
IREOJOBN	2C	
IREPRINT	7C	
IREPRNOD	7C	
IREPRRTE	7E	
IREPRSER	80	
IREPUNCH	88	
IREPUNOD	88	
IREPURTE	8A	
IREPUSER	8C	
IRERAUTH	64	
IRESIAFF	78	
IRESIIND	65	80
IRESJB	1C	
IRESTATS	66	
IRETRACE	65	20
IREVER	4	
IREVERN	4	1

$IRIS information

$IRIS programming interface information

$IRIS is a programming interface.

$IRIS heading information

Common name:	IRIS
Macro ID:	$IRIS
DSECT name:	IRIS
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	IRIS Offset: IRSEYE-IRS Length: L'IRSEYE
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in common storage
Size:	See IRISLEN
Created by:	HASPIRMA during JES2 initialization processing
Pointed to by:	CCTBATMD field of the HCCT data area CCTIRSMD field of the HCCT data area CCTSTCMD field of the HCCT data area CCTTSOMD field of the HCCT data area
Serialization:	None required
Function:	This area maps the data area used to store defaults for internal readers (as set from INTRDR initialization statement). One exists for each type of internal reader (in ECSA) even though the initialization statement only applies to batch internal readers.

$IRIS mapping

Table 233. Structure IRIS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRIS	, Internal reader init statement
0	(0)	CHARACTER	4	IRISEYE	Eyecatcher
4	(4)	ADDRESS	1	IRISVER	Version
4	(4)	X'1'	0	IRISVERN	"1" Initial version
5	(5)	BITSTRING	1	IRSFLAGS	Processing flags
		1...		IRSSIIND	"B'10000000'" Independent mode
		.1..		IRSHOLDJ	"B'01000000'" Hold job ($TJ...,H)
		...1		IRSBLIM	"B'00010000'" Honor BYTES= values
6	(6)	BITSTRING	1	IRSPRINC	Priority increment
7	(7)	BITSTRING	1	IRSPRLIM	Priority limit
8	(8)	CHARACTER	8	IRSJCLAS	Default Job class
16	(10)	CHARACTER	1	IRSMCLAS	Default MSGCLASS
17	(11)	CHARACTER	7		Reserved
24	(18)	SIGNED	4	IRSPRINT(0)	Default print route code
24	(18)	SIGNED	2	IRSPRNOD	Node number
26	(1A)	SIGNED	2	IRSPRRTE	Local printer/remote number
28	(1C)	CHARACTER	8	IRSPRSER	Print userid

Table 233. Structure IRIS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	IRSPUNCH(0)	Default punch route code
36	(24)	SIGNED	2	IRSPUNOD	Node number
38	(26)	SIGNED	2	IRSPURTE	Local punch/remote number
40	(28)	CHARACTER	8	IRSPUSER	Punch userid
48	(30)	BITSTRING	4	IRSSIAFF	Default system affinity
52	(34)	BITSTRING	1	IRSRAUTH	Reader command authority
		.... 1...		IRSREJRM	"B'00001000'" Remote restriction
		.... .1..		IRSREJJB	"B'00000100'" Restricted from job commands
		.... ..1.		IRSREJDV	"B'00000010'" Restricted from device commands
		1		IRSREJSY	"B'00000001'" Restricted from system commands
53	(35)	BITSTRING	1	IRSTRFLG	Tracing flags (ONLY)
		1...		IRSTRACE	"B'10000000'" Tracing is active
		.1..		IRSTRFAS	"B'01000000'" ASID filtering active
		..1.		IRSTRFJN	"B'00100000'" JOBNAME filtering active
		...1		IRSTRFJ#	"B'00010000'" JOB number filtering act
54	(36)	SIGNED	2	IRSTRASI	Trace ASID option
56	(38)	CHARACTER	8	IRSTRJBN	Trace job name option
64	(40)	SIGNED	4	IRSTRJNO	Trace job number option
68	(44)	SIGNED	4	(3)	Reserved
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	IRISLEN	"*-IRIS" Length of data area

Table 234. Cross Reference for $IRIS

Name	Offset	Hex Tag
IRIS	0	
IRISEYE	0	C9D9C9E2
IRISLEN	50	50
IRISVER	4	
IRISVERN	4	1
IRSBLIM	5	10
IRSFLAGS	5	
IRSHOLDJ	5	40
IRSJCLAS	8	
IRSMCLAS	10	
IRSPRINC	6	
IRSPRINT	18	
IRSPRLIM	7	
IRSPRNOD	18	
IRSPRRTE	1A	
IRSPRSER	1C	
IRSPUNCH	24	
IRSPUNOD	24	

Table 234. Cross Reference for $IRIS (continued)

Name	Offset	Hex Tag
IRSPURTE	26	
IRSPUSER	28	
IRSRAUTH	34	
IRSREJDV	34	2
IRSREJJB	34	4
IRSREJRM	34	8
IRSREJSY	34	1
IRSSIAFF	30	
IRSSIIND	5	80
IRSTRACE	35	80
IRSTRASI	36	
IRSTRFAS	35	40
IRSTRFJ#	35	10
IRSTRFJN	35	20
IRSTRFLG	35	
IRSTRJBN	38	
IRSTRJNO	40	

$IRWD information

$IRWD programming interface information

$IRWD is a programming interface.

$IRWD heading information

Common name: IRWD

Macro ID: $IRWD

DSECT name: IRWD

Owning component: JES2 (SC1BH)

Eye-catcher ID: IRWD
Offset: RIDID-IRWD
Length: L'RIDID

Storage attributes: Subpool: 249
Key: 1
Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space that allocated the internal reader

Size: See RIDSIZE

Created by: HASCDSAL during allocation processing

Pointed to by: IREIRWD field of the IRE data area
DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address

Serialization: None required

Function: This data area represents an internal reader allocated in an application address space.

$IRWD mapping

Table 235. Structure IRWD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRWD	, Internal Reader work area
0	(0)	CHARACTER	4	RIDID	IRWD eycatcher
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	RIDCWKAR(0)	Common work area
3368	(D28)	ADDRESS	4	RIDHCCT	HCCT address
3372	(D2C)	ADDRESS	4	RIDIRE	Associated IRE address
3376	(D30)	ADDRESS	4	RIDIRIS	IRIS address
3380	(D34)	ADDRESS	4	RIDTRE	TRE address (in HINTRDR)
		ASOK fields. For details, see ASOK DSECT in $SDB			
3384	(D38)	BITSTRING	8	RIDASOK(0)	ASOK fields
3386	(D3A)	SIGNED	2	RIDASOKO	Ordinality of ASOK L1
3388	(D3C)	SIGNED	2	RIDASOK1	Offset into Level 1 ASOK
3390	(D3E)	SIGNED	2	RIDASOK2	Offset into Level 2 ASOK
3392	(D40)	DBL WORD	8	RIDLOCK	Lock owning TCB info (or zero if not locked)
		Default values for this internal reader (from allocation time)			
3400	(D48)	BITSTRING	1	RIDFLAGD	Default flag settings
		1...		RIDDLOCL	"B'10000000'" Force SYSAFF to local
		.1..		RIDDHOLD	"B'01000000'" Force TYPRUN=HOLD (DD HOLD=YES)
		..1.		RIDDROUT	"B'00100000'" A default print/punch routing has been passed
3401	(D49)	BITSTRING	1	RIDRECFM	RECFM of intrdr dataset, bits defined in DCB under DCBRECFM
3402	(D4A)	SIGNED	2	RIDLRECL	LRECL of intrdr dataset
3404	(D4C)	CHARACTER	1	RIDMCLAS	Default MSGCLASS
3405	(D4D)	CHARACTER	7		Reserved
3412	(D54)	SIGNED	4	RIDDPRT(0)	Default print route code
3412	(D54)	SIGNED	2	RIDDPRND	Node number
3414	(D56)	SIGNED	2	RIDDPRRT	Local printer/remote number
3416	(D58)	CHARACTER	8	RIDDPRUS	Print userid
3424	(D60)	SIGNED	4	RIDDPUN(0)	Default punch route code
3424	(D60)	SIGNED	2	RIDDPUND	Node number
3426	(D62)	SIGNED	2	RIDDPURT	Local punch/remote number
3428	(D64)	CHARACTER	8	RIDDPUUS	Punch userid
		Internal reader processing options			
3436	(D6C)	BITSTRING	1	RIDFLAG1	Miscellaneous flag byte, serialized by SJB lock
		1...		RID1LRDF	"B'10000000'" OPEN set default LRECL or lrecl value specified by user at open intrdr time is to be overridden.
		.1..		RID1BLIM	"B'01000000'" Honor BYTES= values for internal readers

Table 235. Structure IRWD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		RID1ESSM	"B'00100000'" Reader is owned by the emergency subsystem
3437	(D6D)	BITSTRING	3		Reserved
3440	(D70)	ADDRESS	4	RIDSJB	SJB address
3444	(D74)	CHARACTER	8	RIDJOBID	Internal reader job id
3452	(D7C)	ADDRESS	4	RIDSYML	Address of TU symmbol list to pass in with jobs submitted on this intrdr
3456	(D80)	SIGNED	4	(20)	Reserved
3456	(D80)	X'E00'	0	RIDSIZE	"((*-IRWD+127)/128)*128" Length of DSECT

Table 236. Cross Reference for $IRWD

Name	Offset	Hex Tag
IRWD	0	
RIDASOK	D38	
RIDASOKO	D3A	
RIDASOK1	D3C	
RIDASOK2	D3E	
RIDCWKAR	8	
RIDDHOLD	D48	40
RIDDLOCL	D48	80
RIDDPRND	D54	
RIDDPRRT	D56	
RIDDPRT	D54	
RIDDPRUS	D58	
RIDDPUN	D60	
RIDDPUND	D60	
RIDDPURT	D62	
RIDDPUUS	D64	
RIDDROUT	D48	20
RIDFLAGD	D48	
RIDFLAG1	D6C	
RIDHCCT	D28	
RIDID	0	C9D9E6C4
RIDIRE	D2C	
RIDIRIS	D30	
RIDJOBID	D74	
RIDLOCK	D40	
RIDLRECL	D4A	
RIDMCLAS	D4C	
RIDRECFM	D49	
RIDSIZE	D80	E00
RIDSJB	D70	
RIDSYML	D7C	
RIDTRE	D34	
RID1BLIM	D6C	40
RID1ESSM	D6C	20

Table 236. Cross Reference for $IRWD (continued)

Name	Offset	Hex Tag
RID1LRDF	D6C	80

$JCMWORK information

$JCMWORK heading information

Common name: JES2 Job Command PCE Work Area

Macro ID: $JCMWORK

DSECT name: PCE ($JCMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $JCMDPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by the JES2 Job Command Processor and by its support routines and exits. $JCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJCMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JCMWORK mapping

Table 237. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	ADDRESS	4	JCMDSJBQ	Address of current SJB queue head
336	(150)	DBL WORD	8	(0)	Force double-word alignment
336	(150)	X'8'	0	JCMPCEWS	"*-PCEWORK" Length of work area

$JCT information

$JCT programming interface information

$JCT is a programming interface.

$JCT heading information

Common name: JES2 Job Control Table

Macro ID: $JCT

DSECT name: JCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JCT '
Offset: JCTIDENT-JCT
Length: 4

Storage attributes: Subpool: 7 in JES2 main task environment;
230 in USER or SUBTASK environments
Key: 1
Residency: The $JCT is a JES2 spool resident control block. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

Size: JCTFEND-JCT is the length of the fixed portion. The JCT is contained in a buffer of size $BUFSIZE which is a field in $HCT.

Created by: Initially created by HASPRDR or HASPNSR when a job enters the system.
In-storage versions of the control block are created by $CBIO READ VERIFY=JCT.

Pointed to by: FSAJCTAD field of the $FSACB data area
IOTJCT field of the $IOT data area
JIBJCT field of the $JIB data area
JIBJCTA field of the $JIB data area (address on spool)
JQETRAK field of the $JQE data area (address on spool)
SJBJCT field of the $SJB data area
Various fields in the processor work areas and parameter lists.

Serialization: Serialized under the JES2 TCB.

Function: The Job Control Table is the primary job oriented control block. It is created by the input service processor and written to spool. Other processors then read this control block and rewrite it to spool as needed. The control block contains two types of information: Accounting information from the accounting field of the JOB card or /*JOBPARM control card and accounting information gathered during job processing. This control block is the primary contributor to the SMF Purge record (Type 26) as well as many other SMF records.

$JCT mapping

Table 238. Structure JCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JCT	JOB CONTROL TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'50'	0	JCTFLAG5	"BUFMFLG1-BFPDSECT+JCT,1" Memory-only flag byte
0	(0)	X'80'	0	JCT5CKPT	"BUFM1CKP" Rewrite this JCT
		1		JCT5EXTA	"B'00000001'" Local JCT extension allowed
0	(0)	X'5C'	0	JCTLEXTA	"BUFMEMW7-BFPDSECT+JCT,4,C'A'" Local JCT extension address
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	JCTSTART	"*" START OF DATA WRITTEN TO SPOOL

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	JCTIDENT	Eyecatcher
108	(6C)	CHARACTER	8	JCTJNAME	Job name
116	(74)	SIGNED	4	JCTJBNUM	Job number
120	(78)	SIGNED	4	JCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	JCTSPLNG	"*-JCTIDENT"
128	(80)	ADDRESS	2	JCTLENG	LENGTH OF JCT INCLUDING PREFIX
130	(82)	BITSTRING	1	JCTFLAG1	FLAGS 1 ---
		1...		JCT1SJOB	"X'80'" Job ran because of $S J
		.1..		JCTBURST	"X'40'" JOB OUTPUT BURST OPTION
		..1.		JCT1INTJ	"X'20'" Internally created job (Job has no subsystem datasets)
		...1		JCT1LDR	"X'10'" JOB CREATED BY LOADER DEV.
		.... 1...		JCT1RECV	"X'08'" JOB RECEIVED ON SYSOUT RCVR
		.... .1..		JCT1NUNK	"X'04'" Token is NJE unknown
		.... ..1.		JCT1UNDF	"X'02'" JCTJUSID is undefined user
		1		JCT1ODEL	"X'01'" Job offloaded DISP=DELETE
131	(83)	BITSTRING	1	JCTJTFLG	JOB TERM FLAGS (SSJTFLG1)
132	(84)	CHARACTER	8	JCTJDVT	JDVT NAME
140	(8C)	BITSTRING	4	JCTTRAK_Z11	Track address (MTTR) of this JCT (only valid up to version $J2PZ111)
144	(90)	BITSTRING	4	JCTSPIOT_Z11	Track address (MTTR) of 1st spin IOT (only valid up to version $J2PZ111)
148	(94)	BITSTRING	4	JCTIOT_Z11	Track address (MTTR) of 1st regular IOT (only valid up to version $J2PZ111)
152	(98)	BITSTRING	4	JCTOCTTR_Z11	Track address (MTTR) of OCR table (only valid up to version $J2PZ111)
156	(9C)	BITSTRING	4	JCTXTRK_Z11	Track address (MTTR) of 1st XMIT track (only valid up to version $J2PZ111)
160	(A0)	BITSTRING	4	JCTXBUFO	BUFFER OFFSET IN 1ST XMIT TRACK
164	(A4)	BITSTRING	32	JCTSAMSK	SPOOLS ALLOWED MASK
196	(C4)	SIGNED	4	JCTPDDBK	PERIPHERAL DATA SET KEY
200	(C8)	SIGNED	4	JCTPDDBO	DS KEY FOR LAST INPUT PDDB OR 100 (X'64') IF NO SYSIN
204	(CC)	SIGNED	4	JCTCNVRC	RETURN CODE FROM JCL CONVERTER
204	(CC)	X'0'	0	JCTCOK	"0" JCL converted without err
204	(CC)	X'4'	0	JCTCJCL	"4" JCL error detected by CNV
204	(CC)	X'8'	0	JCTCIO	"8" I/O error detected by CNV
204	(CC)	X'4'	0	JCTCDUPL	"JCTCJCL" Duplicate logon executing
204	(CC)	X'C'	0	JCTCSECF	"12" Security envir. could not be established for the job

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
204	(CC)	X'10'	0	JCTCNWT	"16" JCL couldn't be converted The referenced JCLLIB data set not available
204	(CC)	X'24'	0	JCTCABND	"36" I/O error using RPLs
204	(CC)	X'26'	0	JCTCIOER	"38" I/O error on PROCLIB
204	(CC)	X'28'	0	JCTCJDVT	"40" Input JDVT not found
204	(CC)	X'36'	0	JCTCSYSE	"54" System error
204	(CC)	X'38'	0	JCTGMFAL	"56" Converter GETMAIN failed
204	(CC)	X'3C'	0	JCTCFOPN	"60" Fake open failure
208	(D0)	SIGNED	4	JCTUSER0	RESERVED FOR USER
212	(D4)	SIGNED	4	JCTUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	JCTUSER2	RESERVED FOR USER
220	(DC)	SIGNED	4	JCTUSER3	RESERVED FOR USER
224	(E0)	SIGNED	4	JCTUSER4	RESERVED FOR USER
228	(E4)	SIGNED	4	JCTUSER5	RESERVED FOR USER
232	(E8)	SIGNED	4	JCTUSER6	RESERVED FOR USER
236	(EC)	SIGNED	4	JCTUSER7	RESERVED FOR USER
240	(F0)	SIGNED	4	JCTUSER8	RESERVED FOR USER
244	(F4)	SIGNED	4	JCTUSER9	RESERVED FOR USER
248	(F8)	SIGNED	4	JCTUSERA	RESERVED FOR USER
252	(FC)	SIGNED	4	JCTUSERB	RESERVED FOR USER
256	(100)	SIGNED	4	JCTUSERC	RESERVED FOR USER
260	(104)	SIGNED	4	JCTUSERD	RESERVED FOR USER
264	(108)	SIGNED	4	JCTUSERE	RESERVED FOR USER
268	(10C)	SIGNED	4	JCTUSERF	RESERVED FOR USER
272	(110)	CHARACTER	2	JCTPRTY	PRIORITY OR JOB CARD 'PRTY='
274	(112)	SIGNED	2	JCTJSSTP	JOB SELECT RESTART STEP (SSRQSTEP)
276	(114)	SIGNED	2	JCTASID	ASID OF JOB
278	(116)	SIGNED	1	JCTVER	JCT version - contains the JES2 product level where the JCT was created. See $J2Pxxx in $HASPEQU.
278	(116)	X'2E'	0	JCTCVER	"46" Current version
279	(117)	BITSTRING	1	JCTFLAGZ	Flag byte:
		1...		JCTZEMID	"B'10000000'" Job has EMAIL= id
		.1..		JCTZPRIV	"B'01000000'" Privileged job
		..1.		JCTZLGPD	"B'00100000'" Job uses was created using large - PDBLENM sized PDDBs
280	(118)	BITSTRING	1	JCTFLAG2	FLAG BYTE
		1...		JCT2TWOJ	"B'10000000'" Two jobcards XMIT
		.1..		JCT2AVDP	"B'01000000'" DO NOT DO AUTH VERIFICATION IN JOB INITIATION, ALREADY DONE, JOB PASSED VERIFICATION CHECK
		..1.		JCT2AVF	"B'00100000'" JOB FAILED AUTH VERIFICATION IN CALL FROM JES2
		...1		JCT2AVD	"B'00010000'" AUTH VERIFICATION DONE
		.... 1...		JCT2TJOB	"B'00001000'" Job token received
		.... .1..		JCT2EXEC	"B'00000100'" Job entered execution OK

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JCT2SDCR	"B'00000010'" SAF CALL FOR SYSIN CREATE NOT YET DONE FOR SYSIN DATA SETS
		1		JCT2IOT2	"B'00000001'" SYSTEM DATA SETS SPAN 2 IOTS (NOT INCLUDING MULTI-DEST COPIES)
281	(119)	BITSTRING	1	JCTFLAG3	Flag Byte
		1...		JCT3TPI	"X'80'" Transaction initiator
		.1..		JCT3BATI	"X'40'" Batch initiator
		..1.		JCT3JDSP	"X'20'" JESDS PROCESSING COMPLETED
		...1		JCT3NCF	"X'10'" Suppress notification of store-and-forward
		.... 1...		JCT3NCA	"X'08'" Suppress notification of reached ultimate dest
		.... .1..		JCT3NOTK	"X'04'" At least one D/S needs a Job Level Token
		.... ..1.		JCT3FORM	"X'02'" FORMS specified in JCL
		1		JCT3RJCS	"X'01'" Job card processed locally
282	(11A)	BITSTRING	1	JCTJSFLG	JOB SELECT FLAGS (SSRQFLG1)
283	(11B)	BITSTRING	1	JCTSMFLG	SMF FLAGS
		11.1 1...		JCTSMFL0	"B'11011000'" Reserved
		..1.		JCTNOUSO	"B'00100000'" Do not take IEFUSO exit
		.... .1..		JCTNOTY6	"B'00000100'" Do not produce Type 6 SMF record
		.... ..1.		JCTNOUJP	"B'00000010'" Do not take IEFUJP exit
		1		JCTNOT26	"B'00000001'" Do not produce Type 26 SMF record
KEEP THE FIELDS JCTJOBFL AND JCTJBOPT TOGETHER FOR SMF					
284	(11C)	BITSTRING	1	JCTJOBFL	HASP Job flags (same as CATJOBFL)
		1...		JCTBATCH	"B'10000000'" Batch job
		.1..		JCTTSUJB	"B'01000000'" Time sharing user
		..1.		JCTSTCJB	"B'00100000'" System task
284	(11C)	X'E0'	0	JCTVALJB	"JCTBATCH+JCTTSUJB+JCTSTCJB" valid types
		...1		JCTNOJNL	"B'00010000'" No journal option
		.... 1...		JCTNOUPT	"B'00001000'" No output option
		.... .1..		JCTTSCAN	"B'00000100'" TYPRUN=SCAN was specified
		.... ..1.		JCTTCOPY	"B'00000010'" TYPRUN=COPY was specified
		1		JCTRSTRT	"B'00000001'" Allow warmstart to re-queue to XEQ
285	(11D)	BITSTRING	1	JCTJBOPT	HASP Job options (same as CATJBOPT)
		1...		JCTPRICD	"B'10000000'" PRIORITY card or JOB card 'PRTY=' present (not used in CATJBOPT field)
		.1..		JCTSETUP	"B'01000000'" SETUP card(S) present (not used in CATJOBOPT field)
		..1.		JCTTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		JCTNOLOG	"B'00010000'" NO job log option
		.... 1...		JCTXBMII	"B'00001000'" XBM II job

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JCTINRDR	"B'00000100'" Job was entered on INTRDR (not used in CATJBOPT field
		.... ..1.		JCTRERUN	"B'00000010'" Job was re-run (not used in CATJBOPT field)
		1		JCTQHELD	"B'00000001'" Not used in JCTJBOPT, indicates class queue is held in CATJBOPT
286	(11E)	BITSTRING	2	JCTMXLRC	Max LRECL of JCL stream
288	(120)	SIGNED	4	(0)	
288	(120)	CHARACTER	8	JCTJOBID	HASP ASSIGNED JOB IDENTIFICATION
Keep next 24 bytes intact for SMF - JCTPNAME thru JCTPRIO					
296	(128)	CHARACTER	20	JCTPNAME	PROGRAMMER'S NAME FROM JOB CARD
316	(13C)	CHARACTER	1	JCTMCLAS	MSGCLASS FROM JOB CARD
317	(13D)	CHARACTER	1	JCTJCLAS	HASP EXECUTION JOB CLASS
318	(13E)	BITSTRING	1	JCTIPRIO	HASP INITIAL JOB SELECTION PRIORITY
319	(13F)	BITSTRING	1	JCTPRIO	HASP EXECUTION SELECTION PRIORITY
320	(140)	BITSTRING	1	JCTIOPRI	HASP INITIAL OUTPUT SELECTION PRIO
321	(141)	BITSTRING	1	JCTOPRIO	HASP OUTPUT SELECTION PRIORITY
322	(142)	BITSTRING	2	(0)	Job suppression flags
322	(142)	BITSTRING	1	JCTEVTLF	EVENTLOG data set flags
		1...		JCTESMF	"B'10000000'" Supp EVENTLOG SMF recs
EQU B'01111000' Reserved internal use					
323	(143)	BITSTRING	1	JCTFEAS	Feature suppression flags
		1...		JCTEVTW	"B'10000000'" Suppress EVENTLOG write
		.1..		JCTNNJE	"B'01000000'" Suppress non-printable data sets on NJE
324	(144)	SIGNED	4	JCTROUTE(0)	INPUT ROUTE CODE
324	(144)	SIGNED	2	JCTRNODE	NODE NUMBER
326	(146)	SIGNED	2	JCTRRMT	REMOTE NUMBER
Keep next 28 bytes intact for SMF - JCTINDEV thru JCTESTPU					
328	(148)	CHARACTER	8	JCTINDEV	HASP INPUT DEVICE NAME
336	(150)	CHARACTER	4	JCTACCTN	JOB ACCOUNTING NUMBER FROM JOB CARD
340	(154)	CHARACTER	4	JCTROOMN	PROGRAMMER'S ROOM NUMBER
344	(158)	SIGNED	4	JCTETIME	ESTIMATED EXECUTION TIME
348	(15C)	SIGNED	4	JCTESTLN	ESTIMATED OUTPUT LINES
352	(160)	SIGNED	4	JCTESTPU	ESTIMATED PUNCHED OUTPUT
356	(164)	CHARACTER	8	JCTFORMS	JOB OUTPUT FORMS
364	(16C)	BITSTRING	1	JCTFLAG4	Flag byte 4
		1...		JCT4PASE	"B'10000000'" Password is encrypted
		.1..		JCT4NPSE	"B'01000000'" New password is encrypted
		..1.		JCT4UJNM	"B'00100000'" Exit 2/52 updated job name
		...1		JCT4RCST	"B'00010000'" Return code info set (JCTMAXRC and JCTLSTAB)

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		JCT4WINI	"B'00001000'" Job ran under a WINIT (Work Load Manager INIT)
		.... .1..		JCT4EJOB	"B'00000100'" Job restarted
		.... ..1.		JCT4LCDF	"B'00000010'" JCTLINCT value from $LINECT
		1		JCT4STAB	"B'00000001'" JCTLSTAB set by JES2
365	(16D)	BITSTRING	1	JCTCPYCT	JOB PRINT COPY COUNT
		JCTJLOGD is a date token used to determine if a date line is needed in the job log. The token is remainder after dividing the number of days since JAN 1, 1900 by 254 plus 1. A value of zero indicates there is no date in the job log yet, a value of X'FF' indicates no dates are to be placed into the job log.			
366	(16E)	BITSTRING	1	JCTJLOGD	JOB log date token
367	(16F)	BITSTRING	1	JCTLINCT	LINES PER PAGE
368	(170)	SIGNED	4	JCTESTPG	ESTIMATED PAGE OUTPUT
372	(174)	SIGNED	4	JCTESTBY	ESTIMATED BYTE OUTPUT
376	(178)	SIGNED	4	JCTPROUT(0)	JOB PRINT ROUTE CODE
376	(178)	SIGNED	2	JCTPRNOD	NODE NUMBER
378	(17A)	SIGNED	2	JCTPRRMT	REMOTE NUMBER
380	(17C)	CHARACTER	8	JCTPRRID	PRINTER EBCDIC RMT/USERID
388	(184)	SIGNED	4	JCTPUOUT(0)	JOB PUNCH ROUTE CODE
388	(184)	SIGNED	2	JCTPUNOD	NODE NUMBER
390	(186)	SIGNED	2	JCTPURMT	REMOTE NUMBER
392	(188)	CHARACTER	8	JCTPURID	PUNCH EBCDIC RMT/USERID
400	(190)	CHARACTER	8	JCTPROCN	PROCEDURE DDNAME
408	(198)	CHARACTER	8	JCTPASS	CURRENT PASSWORD
416	(1A0)	CHARACTER	8	JCTNUPAS	NEW PASSWORD
424	(1A8)	CHARACTER	8	JCTGRPID	GROUPID
432	(1B0)	CHARACTER	8	JCTNOTUS	Notify user id
432	(1B0)	X'1B0'	0	JCTTSUID	"JCTNOTUS,7" TIME SHARING USR FOR NOTIFY
440	(1B8)	BITSTRING	1	JCTTSUAF	INPUT SYSAF FOR NOTIFY
441	(1B9)	CHARACTER	9	JCTIDLEN(0)	FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER FOR RACROUTE USE
441	(1B9)	CHARACTER	1	JCTUIDL	USERID LENGTH
442	(1BA)	CHARACTER	8	JCTJUSID	USERID (FROM JOB CARD)
450	(1C2)	CHARACTER	8	JCTENCKY	Password encryption key
458	(1CA)	SIGNED	2	JCTRXLEN	Free space in JCT for JCT extensions
460	(1CC)	SIGNED	3	JCTFAMLY	Highest family ID used by MOCA IOTs
463	(1CF)	SIGNED	1	JCT#IOTS	Number of IOTs required to house system PDDBs
464	(1D0)	SIGNED	4	(0)	Ensure fullword for token
464	(1D0)	BITSTRING	1	JCTTOKEN	Security TOKEN for job
		KEEP NEXT 48 BYTES INTACT FOR SMF - JCTCNVON THROUGH JCTODTOF			
544	(220)	SIGNED	4	JCTCNVON	TIME ON JCL CONVERSION PROCESSOR
548	(224)	SIGNED	4	JCTCDTON	DATE ON JCL CONVERSION PROCESSOR

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
552	(228)	SIGNED	4	JCTCNVOF	TIME OFF JCL CONVERSION PROCESSOR
556	(22C)	SIGNED	4	JCTCDTOF	DATE OFF JCL CONVERSION PROCESSOR
560	(230)	SIGNED	4	JCTXEQON	TIME ON EXECUTION PROCESSOR
564	(234)	SIGNED	4	JCTXDTON	DATE ON EXECUTION PROCESSOR
568	(238)	SIGNED	4	JCTXEQOF	TIME OFF EXECUTION PROCESSOR
572	(23C)	SIGNED	4	JCTXDTOF	DATE OFF EXECUTION PROCESSOR
576	(240)	SIGNED	4	JCTOUTON	TIME ON OUTPUT PROCESSOR
580	(244)	SIGNED	4	JCTODTON	DATE ON OUTPUT PROCESSOR
584	(248)	SIGNED	4	JCTOUTOF	TIME OFF OUTPUT PROCESSOR
588	(24C)	SIGNED	4	JCTODTOF	DATE OFF OUTPUT PROCESSOR
KEEP NEXT 28 BYTES INTACT FOR SMF - JCTCARDS THROUGH JCTOTSID					
592	(250)	SIGNED	4	JCTCARDS	TOTAL NUMBER OF INPUT CARDS
596	(254)	SIGNED	4	JCTLINES	GENERATED OUTPUT LINES
600	(258)	SIGNED	4	JCTPUNCH	GENERATED PUNCHED OUTPUT
604	(25C)	CHARACTER	4	JCTRDSID	INPUT PROCESSOR SYSTEM ID
608	(260)	CHARACTER	4	JCTCVSID	CONVERSION PROCESSOR SYSTEM ID
612	(264)	CHARACTER	4	JCTEXSID	EXECUTION PROCESSOR SYSTEM ID
616	(268)	CHARACTER	4	JCTOTSID	OUTPUT PROCESSOR SYSTEM ID
620	(26C)	SIGNED	4	JCTPAGES	GENERATED OUTPUT PAGES
624	(270)	SIGNED	4	JCTBYTES	GENERATED OUTPUT BYTES
628	(274)	SIGNED	4	JCTSPUNB	TOTAL BYTES IN SPUN DATASET(S)
632	(278)	SIGNED	2	JCTXEQND	INITIAL EXECUTION NODE
634	(27A)	SIGNED	2	JCTXNODE	ACTUAL EXECUTION NODE
636	(27C)	CHARACTER	4	JCTNJSID	JOB XMITTER PROCESSOR SYSTEM ID
640	(280)	SIGNED	4	JCTNJTON	TIME ON JOB TRANSMITTER PROCESSOR
644	(284)	SIGNED	4	JCTNDTON	DATE ON JOB TRANSMITTER PROCESSOR
648	(288)	SIGNED	4	JCTNJTOF	TIME OFF JOB TRANSMITTER PROCESSOR
652	(28C)	SIGNED	4	JCTNDTOF	DATE OFF JOB TRANSMITTER PROCESSOR
656	(290)	CHARACTER	8	JCTNACCT	NETWORK ACCOUNTING NUMBER
664	(298)	CHARACTER	8	JCTNOJID	ORIGINAL JOB IDENTIFICATION
672	(2A0)	CHARACTER	8	JCTNNDEV	JOB TRANSMITTER DEVICE NAME
680	(2A8)	CHARACTER	8	JCTNONDE	NETWORK ORIGINAL NODE NAME
688	(2B0)	CHARACTER	8	JCTNOUSR	SUBMITTING USERID
696	(2B8)	CHARACTER	8	JCTNXNDE	NETWORK EXECUTION NODE NAME
704	(2C0)	CHARACTER	8	JCTNNNDE	NETWORK NEXT NODE NAME
712	(2C8)	CHARACTER	8	JCTNLNDE	NETWORK LAST NODE NAME
720	(2D0)	SIGNED	4	JCTESOUT	ESTIMATED OUTPUT (LINES+CARDS)
724	(2D4)	SIGNED	4	JCTXOUT	GENERATED OUTPUT RECORDS
728	(2D8)	CHARACTER	8	JCTPSN1	STEP NAME FROM EXEC STEP
736	(2E0)	CHARACTER	8	JCTPSN2	STEP NAME OF CALLING STEP
744	(2E8)	DBL WORD	8	(0)	Ensure doubleword boundary
744	(2E8)	BITSTRING	144	JCTWORK	144-BYTE WORK AREA
888	(378)	BITSTRING	80	JCTXWRK	80-BYTE WORK AREA FOR RDR EXITS

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Start of the JMR area. Note that starting with release 2.1, the JMR is split into two areas. The original area exists here. The new area is constructed on the fly from fields in the JCTX			
888	(378)	X'3C8'	0	JCTJMRST	"*" START OF JMR AREA
KEEP THE FIELDS JCTJMRJN, JCTRDRON, AND JCTRDTON TOGETHER FOR SMF					
968	(3C8)	CHARACTER	8	JCTJMRJN	JMR JOB NAME
976	(3D0)	SIGNED	4	JCTRDRON	TIME ON INPUT PROCESSOR
980	(3D4)	SIGNED	4	JCTRDTON	DATE ON INPUT PROCESSOR
984	(3D8)	BITSTRING	4	JCTCPUID	JMR CPU IDENTIFICATION
988	(3DC)	CHARACTER	8	JCTUSEID	JMR installation data field
996	(3E4)	BITSTRING	1	JCTSTEP	CURRENT STEP NUMBER
997	(3E5)	BITSTRING	1	JCTINDC	JMR SMF OPTIONS
998	(3E6)	BITSTRING	2	JCTJTCC(0)	CONDITION CODE
999	(3E7)	BITSTRING	1	JCTCLASS	HASP EXECUTION JOB CLASS
1000	(3E8)	SIGNED	4	JCTUCOM	JMR USER COMMUNICATION AREA
1004	(3EC)	SIGNED	4	JCTUJVP	JMR ADDRESS OF USER EXIT ROUTINE
KEEP THE FIELDS JCTRDROF AND JCTRDTOF TOGETHER FOR SMF					
1008	(3F0)	SIGNED	4	JCTRDROF	TIME OFF INPUT PROCESSOR
1012	(3F4)	SIGNED	4	JCTRDTOF	DATE OFF INPUT PROCESSOR
1016	(3F8)	SIGNED	4	JCTJOBIN	JMR JOB SYSIN COUNT
1020	(3FC)	BITSTRING	2	JCTRDR	READER DEVICE TYPE AND CLASS
1022	(3FE)	BITSTRING	1	JCTJMOPT	JMR SMF OPTIONS
		..1.		JCTJMRUX	"B'00100000'" Take user exits for SMF
1023	(3FF)	BITSTRING	1	JCTJMRVR	JMR version
		....		JCTVER0	"X'00'" Version 0
		1		JCTVER1	"X'01'" Version 1
1024	(400)	SIGNED	4	JCTJMRND(0)	END OF JMR
1024	(400)	X'3C8'	0	JCTJMR	"JCTJMRST,*-JCTJMRST" Reference for entire JMR
1024	(400)	X'38'	0	JCTJMRL	"*-JCTJMRST" Length of JMR in JCT and job correlator
1024	(400)	BITSTRING	32	JCTXMASK	EXIT JOB MASK
1056	(420)	SIGNED	4	JCTJQE	OFFSET OF HASP JOB QUEUE ENTRY
1060	(424)	CHARACTER	8	JCTNNODE	NOTIFICATION NODE
1068	(42C)	SIGNED	2	JCTCHNDX	CREATED HEADER TABLE INDEX
1070	(42E)	BITSTRING	10	JCTCHDRT	CREATED HEADER TABLE
1080	(438)	ADDRESS	4	JCTNJHTR_Z11	MTTR OF JOB HEADER (only valid up to version $J2PZ111)
1084	(43C)	ADDRESS	4	JCTNJTTR_Z11	MTTR OF JOB TRAILER (only valid up to version $J2PZ111)
1088	(440)	BITSTRING	1	JCTAXCLS	Actual execution class
1089	(441)	BITSTRING	1	JCTAXPR	Actual execution priority
1096	(448)	DBL WORD	8	JCTXSTRT	Execution start time (STCK)
1104	(450)	DBL WORD	8	JCTXSTOP	Execution stop time (STCK)

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1112	(458)	DBL WORD	8	JCTETS	System entry Time (STCK)
1120	(460)	CHARACTER	8	JCTDEPT	Programmer's department id
1128	(468)	CHARACTER	8	JCTBLDG	Programmer's building id
1136	(470)	CHARACTER	8	JCTROOM	PROGRAMMER'S ROOM
1144	(478)	CHARACTER	8	JCTSGRP	Submitting group

```
The job accounting packet format is:
  DC Y(length) length of packet not including
                 this halfword
  followed by a variable length string of this
  format:
  DC AL1(number-of-pairs-that-follow)
    followed by 0 or more accounting pairs
Accounting pairs are of the form:
  DC AL1(length),C'string of length "length"'
  A length of 0 indicates an omitted field
Example:
  (X3600,42,,ABC) on the JOB card will result
  in the packet looking like:
DC H'15' Length of following
DC FL1'4' Nr of fields
DC FL1'5' Length of field 1
DC C'X3600' Field 1
DC FL1'2' Length of field 2
DC C'42' Field 2
DC FL1'0' Length of field 3 (null)
DC FL1'3' Length of field 4
DC C'ABC' Field 4
```

1152	(480)	SIGNED	2	JCTACCTL(0)	Beginning of acct. packet
1152	(480)	SIGNED	2	JCTACTLG	Length of job accounting
1154	(482)	BITSTRING	145	JCTJOBAC	Job accounting string
1299	(513)	BITSTRING	1		Reserved
1300	(514)	SIGNED	4	(0)	Ensure alignment
1300	(514)	CHARACTER	8	JCTSECLB	SECLABEL of job
1308	(51C)	SIGNED	4	JCTJPERD	STCK for end of READER
1312	(520)	DBL WORD	8	JCTJPEST	Program entry start time for JSAB (Time off JCL conversion processor STCK)
1320	(528)	CHARACTER	8	JCTNXUID	Network execution userid (from XMIT or XEQ)
1328	(530)	CHARACTER	8	JCTMVSNM	Execution MVS System name
1336	(538)	BITSTRING	3	JCTMAXRC	Max return code
1339	(53B)	BITSTRING	3	JCTLSTAB	Last ABEND code
1342	(53E)	CHARACTER	8	JCTWSCN	WLM service class name
1350	(546)	CHARACTER	8	JCTWOSCN	WLM (original) srv cls name
1358	(54E)	BITSTRING	4	JCTWEARR	TOD when job re-enqueued
1362	(552)	CHARACTER	16	JCTSCHEN	SCHENV for job
1378	(562)	BITSTRING	1	JCTNFLG1	Networking flags
		1...		JCTN1EOT	"B'10000000'" EOT received for NJE job
		.1..		JCTN1DUB	"B'01000000'" Job origin node is dubious
1379	(563)	BITSTRING	1	JCTFLAG7	Flag byte 7
		1...		JCT7NQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JCT7NQAL	"B'01000000'" - Allow the job to downgrade SYSDSN ENQs to SHR control when no longer needed EXCL when requested via JCL DSENQSHR keyword on JOB statement - Both bits off disables the function (disallow)
		..1.		JCT7PCNV	"B'00100000'" - preconversion JCT. MQTR of new JCT is in JCTPCVTK
		...1		JCT7FAIC	"B'00010000'" - Fail job after conversion
		.... 1...		JCT7BNOT	"B'00001000'" - NOTIFY=&SYSUID and &SYSUID is a special local destination
		.... .1..		JCT7UNTL	"B'00000100'" - Hold job due to HOLDUNTL
		.... ..1.		JCT7GDGS	"B'00000010'" - GDGBIAS=STEP default
		In preconversion JCT, JCTPCTRK points to a postconversion JCT. In a postconversion JCT, JCTPCTRK points to a preconversion JCT under the following conditions: 1. Job has been validated (JCT2AVDP is on), AND 2. Either of the password fields is not already encrypted(JCT4PASE or JCT4NPSE is off), AND 3. Password fields, JCTPASS and JCTNUPAS, are not null (zero or blank). Note that this field will remain non-zero if a job is re-converted.			
1380	(564)	ADDRESS	4	JCTPCTRK_Z11	Track addr of pre-conv JCT (only valid up to version $J2PZ111)
1384	(568)	BITSTRING	1	JCTFLAG6	Flag byte
		1...		JCT6LSRC	"B'10000000'" JOBRC=LASTRC is default
		.1..		JCT6RQST	"B'01000000'" JCTREQRC has been set
		..1.		JCT6RQAB	"B'00100000'" JCTREQRC has ABEND code
		...1		JCT6RSPC	"B'00010000'" JOBRC=STEP found
		.... 1...		JCT6JBRC	"B'00001000'" JOBRC present on job card
		.... .1..		JCT6DFJG	"B'00000100'" Job represents a JOBGROUP
		.... ..1.		JCT6CONC	"B'00000010'" Job in concurrent set
		1		JCT6NETS	"B'00000001'" Job has / NET statement.
1385	(569)	BITSTRING	3	JCTREQRC	RC of requested step
1388	(56C)	BITSTRING	1	JCTFLAG8	Excession limit flags: (from / MAIN)
		1...		JCT8LJLC	"X'80'" Lines Limit is Cancel
		.1..		JCT8LJLD	"X'40'" Lines Limit is Dump
		..1.		JCT8LJLW	"X'20'" Lines Limit is Warning
		.... 1...		JCT8PJLC	"X'08'" Pages Limit is Cancel
		.... .1..		JCT8PJLD	"X'04'" Pages Limit is Dump
		.... ..1.		JCT8PJLW	"X'02'" Pages Limit is Warning
1389	(56D)	BITSTRING	1	JCTFLAG9	More Excession limit flags: (from / MAIN)
		1...		JCT9BJLC	"X'80'" Bytes Limit is Cancel
		.1..		JCT9BJLD	"X'40'" Bytes Limit is Dump
		..1.		JCT9BJLW	"X'20'" Bytes Limit is Warning
		.... 1...		JCT9CJLC	"X'08'" Cards Limit is Cancel

Table 238. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JCT9CJLD	"X'04'" Cards Limit is Dump
		.... ..1.		JCT9CJLW	"X'02'" Cards Limit is Warning
1390	(56E)	BITSTRING	2		RESERVED FOR FUTURE USE
1392	(570)	SIGNED	4		RESERVED FOR FUTURE USE
1396	(574)	SIGNED	4		RESERVED FOR FUTURE USE
1400	(578)	SIGNED	4	JCTFEND_Z11(0)	End of fixed portion of JCT (only valid up to version $J2PZ111)
		The following eight MQTR fields are only valid at version $J2PZ112 and greater.			
1400	(578)	BITSTRING	6	JCTCURTK	Track address (MQTR) of this JCT
1406	(57E)	BITSTRING	6	JCTSPNTK	Track address (MQTR) of 1st spin IOT
1412	(584)	BITSTRING	6	JCTIOTTK	Track address (MQTR) of 1st regular IOT
1418	(58A)	BITSTRING	6	JCTOCTTK	Track address (MQTR) of OCR table
1424	(590)	BITSTRING	6	JCTXMTTK	Track address (MQTR) of 1st XMIT track
1430	(596)	BITSTRING	6	JCTNJHTK	Track address (MQTR) of job header.
1436	(59C)	BITSTRING	6	JCTNJTTK	Track address (MQTR) of job trailer.
1442	(5A2)	BITSTRING	6	JCTPCVTK	Track address (MQTR) of pre-conv JCT. See the description of field JCTPCTRK_Z11 for more info.
1448	(5A8)	SIGNED	4	JCTFEND(0)	End of fixed portion of JCT
		It is required that the JCT have enough space left after the fixed portion of the JCT (i.e. after JCTFEND) for $JCT extensions. Enough space is arbitrarily declared to be 512 bytes in a buffer which is at its minimum size (2048). If the following SCON gets an assembly error, then there is not enough space left over.			
1448	(5A8)	ADDRESS	2	JCTLEFT(0)	
		The following fields define the local extension to the JCT pointed to by JCTLEXTA. This extension is a local data area managed by the $JCTXnnn services.			
1448	(5A8)	X'0'	0	JCTLXID	"0,4,C'C'" Eyecatcher ('JCLX')
1448	(5A8)	X'4'	0	JCTLXLEN	"4,2,C'H'" Remaining free space
1448	(5A8)	X'6'	0	JCTLXPRE	"L'JCTLXID+L'JCTLXLEN" Length of prefix
1448	(5A8)	X'2000'	0	JCTLXSIZ	"8192" Size of local extension

Table 239. Cross Reference for $JCT

Name	Offset	Hex Tag
JCT	0	
JCT#IOTS	1CF	
JCTACCTL	480	
JCTACCTN	150	
JCTACTLG	480	
JCTASID	114	
JCTAXCLS	440	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTAXPR	441	
JCTBATCH	11C	80
JCTBLDG	468	
JCTBURST	82	40
JCTBYTES	270	
JCTCABND	CC	24
JCTCARDS	250	
JCTCDTOF	22C	
JCTCDTON	224	
JCTCDUPL	CC	4
JCTCFOPN	CC	3C
JCTCHDRT	42E	
JCTCHNDX	42C	
JCTCIO	CC	8
JCTCIOER	CC	26
JCTCJCL	CC	4
JCTCJDVT	CC	28
JCTCLASS	3E7	
JCTCNVOF	228	
JCTCNVON	220	
JCTCNVRC	CC	
JCTCNWT	CC	10
JCTCOK	CC	0
JCTCPUID	3D8	
JCTCPYCT	16D	
JCTCSECF	CC	C
JCTCSYSE	CC	36
JCTCURTK	578	
JCTCVER	116	2E
JCTCVSID	260	
JCTDEPT	460	
JCTENCKY	1C2	
JCTESMF	142	80
JCTESOUT	2D0	
JCTESTBY	174	
JCTESTLN	15C	
JCTESTPG	170	
JCTESTPU	160	
JCTETIME	158	
JCTETS	458	
JCTEVTLF	142	
JCTEVTW	143	80
JCTEXSID	264	
JCTFAMLY	1CC	
JCTFEAS	143	
JCTFEND	5A8	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTFEND_Z11	578	
JCTFLAGZ	117	
JCTFLAG1	82	
JCTFLAG2	118	
JCTFLAG3	119	
JCTFLAG4	16C	
JCTFLAG5	0	50
JCTFLAG6	568	
JCTFLAG7	563	
JCTFLAG8	56C	
JCTFLAG9	56D	
JCTFORMS	164	
JCTGMFAL	CC	38
JCTGRPID	1A8	
JCTIDENT	68	
JCTIDLEN	1B9	
JCTINDC	3E5	
JCTINDEV	148	
JCTINRDR	11D	4
JCTIOPRI	140	
JCTIOT_Z11	94	
JCTIOTTK	584	
JCTIPRIO	13E	
JCTJBKEY	78	
JCTJBNUM	74	
JCTJBOPT	11D	
JCTJCLAS	13D	
JCTJDVT	84	
JCTJLOGD	16E	
JCTJMOPT	3FE	
JCTJMR	400	3C8
JCTJMRJN	3C8	
JCTJMRL	400	38
JCTJMRND	400	
JCTJMRST	378	3C8
JCTJMRUX	3FE	20
JCTJMRVR	3FF	
JCTJNAME	6C	
JCTJOBAC	482	
JCTJOBFL	11C	
JCTJOBID	120	
JCTJOBIN	3F8	
JCTJPERD	51C	
JCTJPEST	520	
JCTJQE	420	
JCTJSFLG	11A	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTJSSTP	112	
JCTJTCC	3E6	
JCTJTFLG	83	
JCTJUSID	1BA	
JCTLEFT	5A8	
JCTLENG	80	
JCTLEXTA	0	5C
JCTLINCT	16F	
JCTLINES	254	
JCTLSTAB	53B	
JCTLXID	5A8	0
JCTLXLEN	5A8	4
JCTLXPRE	5A8	6
JCTLXSIZ	5A8	2000
JCTMAXRC	538	
JCTMCLAS	13C	
JCTMVSNM	530	
JCTMXLRC	11E	
JCTNACCT	290	
JCTNDTOF	28C	
JCTNDTON	284	
JCTNFLG1	562	
JCTNJHTK	596	
JCTNJHTR_Z11	438	
JCTNJSID	27C	
JCTNJTOF	288	
JCTNJTON	280	
JCTNJTTK	59C	
JCTNJTTR_Z11	43C	
JCTNLNDE	2C8	
JCTNNDEV	2A0	
JCTNNJE	143	40
JCTNNNDE	2C0	
JCTNNODE	424	
JCTNOJID	298	
JCTNOJNL	11C	10
JCTNOLOG	11D	10
JCTNONDE	2A8	
JCTNOTUS	1B0	
JCTNOTY6	11B	4
JCTNOT26	11B	1
JCTNOUJP	11B	2
JCTNOUPT	11C	8
JCTNOUSO	11B	20
JCTNOUSR	2B0	
JCTNUPAS	1A0	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTNXNDE	2B8	
JCTNXUID	528	
JCTN1DUB	562	40
JCTN1EOT	562	80
JCTOCTTK	58A	
JCTOCTTR_Z11	98	
JCTODTOF	24C	
JCTODTON	244	
JCTOPRIO	141	
JCTOTSID	268	
JCTOUTOF	248	
JCTOUTON	240	
JCTPAGES	26C	
JCTPASS	198	
JCTPCTRK_Z11	564	
JCTPCVTK	5A2	
JCTPDDBK	C4	
JCTPDDBO	C8	
JCTPNAME	128	
JCTPRICD	11D	80
JCTPRIO	13F	
JCTPRNOD	178	
JCTPROCN	190	
JCTPROUT	178	
JCTPRRID	17C	
JCTPRRMT	17A	
JCTPRTY	110	
JCTPSN1	2D8	
JCTPSN2	2E0	
JCTPUNCH	258	
JCTPUNOD	184	
JCTPUOUT	184	
JCTPURID	188	
JCTPURMT	186	
JCTQHELD	11D	1
JCTRDR	3FC	
JCTRDROF	3F0	
JCTRDRON	3D0	
JCTRDSID	25C	
JCTRDTOF	3F4	
JCTRDTON	3D4	
JCTREQRC	569	
JCTRERUN	11D	2
JCTRNODE	144	
JCTROOM	470	
JCTROOMN	154	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTROUTE	144	
JCTRRMT	146	
JCTRSTRT	11C	1
JCTRXLEN	1CA	
JCTSAMSK	A4	
JCTSCHEN	552	
JCTSECLB	514	
JCTSETUP	11D	40
JCTSGRP	478	
JCTSMFLG	11B	
JCTSMFL0	11B	D8
JCTSPIOT_Z11	90	
JCTSPLNG	7C	18
JCTSPNTK	57E	
JCTSPUNB	274	
JCTSTART	0	68
JCTSTCJB	11C	20
JCTSTEP	3E4	
JCTTCOPY	11C	2
JCTTHOLD	11D	20
JCTTOKEN	1D0	
JCTTRAK_Z11	8C	
JCTTSCAN	11C	4
JCTTSUAF	1B8	
JCTTSUID	1B0	1B0
JCTTSUJB	11C	40
JCTUCOM	3E8	
JCTUIDL	1B9	
JCTUJVP	3EC	
JCTUSEID	3DC	
JCTUSERA	F8	
JCTUSERB	FC	
JCTUSERC	100	
JCTUSERD	104	
JCTUSERE	108	
JCTUSERF	10C	
JCTUSER0	D0	
JCTUSER1	D4	
JCTUSER2	D8	
JCTUSER3	DC	
JCTUSER4	E0	
JCTUSER5	E4	
JCTUSER6	E8	
JCTUSER7	EC	
JCTUSER8	F0	
JCTUSER9	F4	

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTVALJB	11C	E0
JCTVER	116	
JCTVER0	3FF	0
JCTVER1	3FF	1
JCTWEARR	54E	
JCTWORK	2E8	
JCTWOSCN	546	
JCTWSCN	53E	
JCTXBMII	11D	8
JCTXBUFO	A0	
JCTXDTOF	23C	
JCTXDTON	234	
JCTXEQND	278	
JCTXEQOF	238	
JCTXEQON	230	
JCTXMASK	400	
JCTXMTTK	590	
JCTXNODE	27A	
JCTXOUT	2D4	
JCTXSTOP	450	
JCTXSTRT	448	
JCTXTRK_Z11	9C	
JCTXWRK	378	
JCTZEMID	117	80
JCTZLGPD	117	20
JCTZPRIV	117	40
JCT1INTJ	82	20
JCT1LDR	82	10
JCT1NUNK	82	4
JCT1ODEL	82	1
JCT1RECV	82	8
JCT1SJOB	82	80
JCT1UNDF	82	2
JCT2AVD	118	10
JCT2AVDP	118	40
JCT2AVF	118	20
JCT2EXEC	118	4
JCT2IOT2	118	1
JCT2SDCR	118	2
JCT2TJOB	118	8
JCT2TWOJ	118	80
JCT3BATI	119	40
JCT3FORM	119	2
JCT3JDSP	119	20
JCT3NCA	119	8
JCT3NCF	119	10

Table 239. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCT3NOTK	119	4
JCT3RJCS	119	1
JCT3TPI	119	80
JCT4EJOB	16C	4
JCT4LCDF	16C	2
JCT4NPSE	16C	40
JCT4PASE	16C	80
JCT4RCST	16C	10
JCT4STAB	16C	1
JCT4UJNM	16C	20
JCT4WINI	16C	8
JCT5CKPT	0	80
JCT5EXTA	0	1
JCT6CONC	568	2
JCT6DFJG	568	4
JCT6JBRC	568	8
JCT6LSRC	568	80
JCT6NETS	568	1
JCT6RQAB	568	20
JCT6RQST	568	40
JCT6RSPC	568	10
JCT7BNOT	563	8
JCT7FAIC	563	10
JCT7GDGS	563	2
JCT7NQAL	563	40
JCT7NQAU	563	80
JCT7PCNV	563	20
JCT7UNTL	563	4
JCT8LJLC	56C	80
JCT8LJLD	56C	40
JCT8LJLW	56C	20
JCT8PJLC	56C	8
JCT8PJLD	56C	4
JCT8PJLW	56C	2
JCT9BJLC	56D	80
JCT9BJLD	56D	40
JCT9BJLW	56D	20
JCT9CJLC	56D	8
JCT9CJLD	56D	4
JCT9CJLW	56D	2

$JCTX information

$JCTX programming interface information

$JCTX is a programming interface.

$JCTX heading information

Common name: JES2 Job Control Table Extension

Macro ID: $JCTX

DSECT name: JCTX

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JCTX'
Offset: JCXEYE-JCTX
Length: 4

Storage attributes: Subpool: 7 in JES2 main task environment;
230 in USER or SUBTASK environments
Key: 1
Residency: The $JCTX is an extension of the $JCT, currently residing in the same spool buffer as the $JCT. No code dependencies (other than in the $JCTX service routines themselves) should rely on this.
Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

Size: JCXORG-JCTX defines the length of the base section of the JCTX. JCXLEN contains the total length of the extension.

Created by: $JCTXADD routine in HASCXJCT.
In-storage versions of the control block are created by $CBIO READ VERIFY=JCT.

Pointed to by: $JCTXGET macro should be used to find the address of the extension.

Serialization: Serialization is the same as for the $JCT.

Function: The Job Control Table Extension gives an installation the ability to associate their own information with a job without modifying the Job Control Table.
These extensions may be manipulated using the $JCTXADD, $JCTXEXP, $JCTXGET, and $JCTXREM services.
The $JCTX mapping is also used as the parameter list to the $JCTX service routines. These parameter lists are created by the $JCTXxxx macros and deleted by the corresponding routines.

$JCTX mapping

Table 240. Structure JCTX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JCTX	
0	(0)	CHARACTER	4	JCXEYE	JCTX Eyecatcher
4	(4)	CHARACTER	4	JCXTYPE	Extension Type
8	(8)	SIGNED	2	JCXMOD	Extension Modifier
10	(A)	SIGNED	2	JCXLEN	Extension Length
		The variable information in the $JCTX begins at label JCXORG. Note that different mappings will exist for different values of TYPE and MOD. The instruction "ORG ," should not be used in the mappings for any extension, as this sets the location counter to the highest value defined so far. If multiple sections are defined, this could lead to an erroneous mapping.			
12	(C)	SIGNED	4	JCXORG(0)	Origin for variable data portions of $JCT extension.
12	(C)	X'C'	0	JCXBASLN	"JCXORG-JCTX" Length of base section of the $JCTX

Table 240. Structure JCTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		IBM supplied extension for JESLOG spin control. The JCXTYPE is "IBM" The JCXMOD is JCXJLGM			
12	(C)	X'1'	0	JCXJLGM	"1" Modifier
12	(C)	BITSTRING	6	JCXJLOG	JES log control
12	(C)	X'12'	0	JCXJLEN	"*-JCTX" Extension length
		IBM supplied extension for advanced features The JCXTYPE is "IBM" The JCXMOD is JCXADVM			
12	(C)	X'2'	0	JCXADVM	"2" Modifier
12	(C)	CHARACTER	8	JCXJCLA8	Extended execution job class name
20	(14)	CHARACTER	8	JCXAXCL8	Extended actual execution job class name
28	(1C)	CHARACTER	8	JCXMVSSB	Submitting MVS system name
36	(24)	BITSTRING	6	JCXJSMTK	MQTR of JSMT (Job symbol table)
36	(24)	X'2A'	0	JCXADVSZ	"*-JCTX" Extension length

Table 241. Cross Reference for $JCTX

Name	Offset	Hex Tag
JCTX	0	
JCXADVM	C	2
JCXADVSZ	24	2A
JCXAXCL8	14	
JCXBASLN	C	C
JCXEYE	0	D1C3E3E7
JCXJCLA8	C	
JCXJLEN	C	12
JCXJLGM	C	1
JCXJLOG	C	
JCXJSMTK	24	
JCXLEN	A	
JCXMOD	8	
JCXMVSSB	1C	
JCXORG	C	
JCXTYPE	4	

$JESLOG information

$JESLOG programming interface information

$JESLOG is a programming interface.

$JESLOG heading information

Common name: JES log control

Macro ID: $JESLOG

DSECT name: JLG

Owning component: JES2 (SC1BH)

Eye-catcher ID: "None"
Offset: N/A
Length: N/A

Storage attributes: Subpool: n/a
Key: n/a
Residency: This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

Size: See JLGLEN

Created by: See "hosting" control blocks

Pointed to by: No pointers

Serialization: None required

Function: The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOBLG) is to be supported.

$JESLOG mapping

Table 242. Structure JLG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JLG	
0	(0)	BITSTRING	1	JLGFLAG1	Flags - JESMSGLG/JESYSMSG
		1...		JLG1ELIG	"B'10000000'" Spin eligible
		.1..		JLG1TIMI	"B'01000000'" Spin on time interval
		..1.		JLG1TIMD	"B'00100000'" Spin on time of day
		...1		JLG1LINE	"B'00010000'" Spin upon line delta
		.... 1...		JLG1SUP	"B'00001000'" Suppress
		.... .1..		JLG1NOSP	"B'00000100'" No Spin
		.... .1..		JLG1NOCM	"B'00000100'" Not spinnable via command
1	(1)	SIGNED	1	JLGSOURC	Source of JESLOG info
1	(1)	X'0'	0	JLGSEXIT	"0" JESLOG from Exit
1	(1)	X'1'	0	JLGSJCL	"1" JESLOG from JCL
1	(1)	X'2'	0	JLGSCAT	"2" JESLOG from CAT
1	(1)	X'3'	0	JLGSSRR	"3" JESLOG from IEFSSRR

```
JLGVALUE has one of the following values:
  o 0 if no bit on in JLGFLAG1 or just JLG1ELIG on
     or just JLG1SUP on
  o Increment in seconds if JLG1TIMI on
  o Increment in TOD clock units if JLG1TIMI on
     and embedded in the SJXB
  o Number of seconds past midnight if JLG1TIMD on
  o Number of TOD clock units past midnight if
     JLG1TIMD on and embedded in the SJXB
  o Line delta if JLG1LINE on
```

2	(2)	SIGNED	4	JLGVALUE	Value used for JESLOG spin decisions (see above)
2	(2)	X'6'	0	JLGLEN	"*-JLG" Length of area
6	(6)	ADDRESS	2	(0)	Ensure length is 6

Table 243. Cross Reference for $JESLOG

Name	Offset	Hex Tag
JLG	0	
JLGFLAG1	0	
JLGLEN	2	6

Table 243. Cross Reference for $JESLOG (continued)

Name	Offset	Hex Tag
JLGSCAT	1	2
JLGSEXIT	1	0
JLGSJCL	1	1
JLGSOURC	1	
JLGSSRR	1	3
JLGVALUE	2	
JLG1ELIG	0	80
JLG1LINE	0	10
JLG1NOCM	0	4
JLG1NOSP	0	4
JLG1SUP	0	8
JLG1TIMD	0	20
JLG1TIMI	0	40

$JIB information

$JIB programming interface information

The following fields are **NOT** programming interface information:

- JIBGCB
- JIBJSPA

$JIB heading information

Common name: JES2 JOE Information Block

Macro ID: $JIB

DSECT name: JIB

Owning component: JES2 (SC1BH)

Eye-catcher ID:
JIB
Offset: JIBID-JIB
Length: L'JIBID

Storage attributes:
Subpool: 230
Key: 1
Residency: If the FSS supports AMODE 31, then ANY. If the FSS only supports AMODE 24, then storage is obtained below the line. Real storage is anywhere.
The storage resides in the FSS address space.

Size: See JIBSIZE

Created by: HASPFSSM

Pointed to by:
FSAREQQS field of the FSACB data area
FSAACTQS field of the FSACB data area
FSARETQS field of the FSACB data area
JIBNEXT field of the JIB data area
QCTSTKHD field of the QCT data area

Serialization: Standard FSA level control block serialization.

Function: The JIB is used to pass JOE level information between the JES2 main task (in HASPFSSP) and the FSS address space (HASPFSSM). In addition, HASPFSSM uses the JIB to store JOE level information.

$JIB mapping

Table 244. Structure JIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JIB	JOE INFORMATION BLOCK
0	(0)	CHARACTER	4	JIBID	JIB IDENTIFIER
4	(4)	SIGNED	4	JIBNEXT	POINTER TO NEXT JIB ON QUEUE
8	(8)	SIGNED	4	JIBJ2RAB(0)	BEGIN JES2 RELDS CMS COPY AREA
8	(8)	CHARACTER	8	JIBMIDSE	JIB unprintable reason code
16	(10)	SIGNED	4	JIBFLAGS(0)	JIB FLAG BYTES
16	(10)	BITSTRING	1	JIBFLG1	FIRST FLAG BYTE
		1...		JIBFREQ	"B'10000000'" JIB IS A REQUEST FOR A JOE
		.1..		JIBFACT	"B'01000000'" JIB IS ACTIVE ON DEVICE
		..1.		JIBFRET	"B'00100000'" JIB IS BEING RETURNED TO JES
		...1		JIBFINIT	"B'00010000'" JIB IS INITIALIZED
		.... 1...		JIBFCOMP	"B'00001000'" JIB COMPLETELY PROCESSED
		.... .1..		JIBFINCP	"B'00000100'" JIB NOT COMPLETELY PROCESSED
		.... ..1.		JIBFCPB	"B'00000010'" CHECKPOINT BUFFER ACQUIRED
		1		JIBIOERR	"B'00000001'" I/O ERROR ON JCT/IOT READ
17	(11)	BITSTRING	1	JIBFLG2	SECOND FLAG BYTE
		1...		JIBFSTOP	"B'10000000'" $Z COMMAND
		.1..		JIBFDEL	"B'01000000'" $C COMMAND
		..1.		JIBFRST	"B'00100000'" $E COMMAND
		...1		JIBFINT	"B'00010000'" $I COMMAND
		.... 1...		JIBFBKSP	"B'00001000'" $B COMMAND
		.... .1..		JIBFJHPG	"B'00000100'" JOB HEADER PAGE REQUIRED
		.... ..1.		JIBFJTPG	"B'00000010'" JOB TRAILER PAGE REQUIRED
		1		JIBFNEWS	"B'00000001'" JES2 NEWS DATA SET ACQUIRED
18	(12)	BITSTRING	1	JIBFLG3	THIRD FLAG BYTE
		1...		JIBFFSTP	"B'10000000'" 1ST PDDB BEING GETDSD FROM JOE
		.1..		JIBFLSTP	"B'01000000'" LAST PDDB BEING GETDSD FROM JOE
		..1.		JIBFCPVL	"B'00100000'" VALID CKPT RECORD READ FOR JOE
		...1		JIBFCPER	"B'00010000'" I/O ERROR ON SPOOL CKPT RECORD
		.... 1...		JIBFUNPR	"B'00001000'" UNPRINTABLE JOE IN JIB
		.... .1..		JIBFONDV	"B'00000100'" ON DEVICE MSG NEEDED FOR JOE
		.... ..1.		JIBFOPIC	"B'00000010'" JIB CANCELLED DURING SETUP
		1		JIB3AUTH	"B'00000001'" JESNEWS AUTHORIZATION FAILURE
19	(13)	BITSTRING	1	JIBFLG4	FOURTH FLAG BYTE

Table 244. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JIB4RSV1	"B'10000000'" Reserved for future use
		.1..		JIB4DUMD	"B'01000000'" Dummy data set being processed
		..1.		JIB4FSSR	"B'00100000'" HASP704 for FSS reason
		...1		JIBSWBER	"B'00010000'" SWB error
		.... 1...		JIB4RDIP	"B'00001000'" FSA posted for GETDS as dataset RELDSed incomplete & FSA was waiting for work
		.... .1..		JIB4OPIN	"B'00000100'" Operator intervention requested for dataset within JIB
		.... ..1.		JIB4REPO	"B'00000010'" JIB's dataset going thru reposition
		1		JIB4NENF	"B'00000001'" Data set select ENF was sent when JOE header page was printed
20	(14)	BITSTRING	1	JIBUNPRR	REASON PRT DS UNPRINTABLE
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	JIBJ2GAB(0)	BEGIN JES2 GETDS CMS COPY AREA
24	(18)	BITSTRING	1	JIBFLG5	Fifth Flag Byte
		1...		JIB5JCOR	"B'10000000'" Job correlator in GETDS data
25	(19)	BITSTRING	3		RESERVED FOR FUTURE USE
28	(1C)	SIGNED	4	JIBJOEI	Index of JOE in the JOT
32	(20)	SIGNED	4	JIBJ2RAE(0)	END OF JES2 RELDS CMS COPY AREA
32	(20)	BITSTRING	4	JIBJCTA	JCT TRACK ADDRESS (JQEJCT)
36	(24)	SIGNED	4	JIBJBNUM	Job number
40	(28)	CHARACTER	8	JIBJOBID	HASP JOB IDENTIFIER
48	(30)	ADDRESS	4	JIBJKEY	HDBDSKEY FOR CB VERIFICATION
52	(34)	BITSTRING	184	JIBNEWS	Copy of current JNEW CB (used for JESNEWS)
236	(EC)	SIGNED	4	JIBJ2GAC(0)	Begin JES2 GETDS CMS copy area for Job Correlator
236	(EC)	CHARACTER	64	JIBJCOR	Job Correlator
300	(12C)	SIGNED	4	JIBJ2GAE(0)	END OF JES2 GETDS CMS COPY AREA
300	(12C)	SIGNED	4	JIBWORK(4)	WORK AREA FOR $VERIFY IN FSSM
316	(13C)	CHARACTER	8	JIBDEVN	EBCDIC device name
324	(144)	ADDRESS	4	JIBSJIOB	Normal SJIOB pointer
328	(148)	ADDRESS	4	JIBCSJIO	CHK record SJIOB pointer
332	(14C)	ADDRESS	4	JIBJCT	POINTER TO JCT
336	(150)	ADDRESS	4	JIBIOT	POINTER TO IOT
340	(154)	BITSTRING	6	JIBIOTTK	IOT MQTR (CURRENT OR RESET)
346	(15A)	BITSTRING	2		Reserved
348	(15C)	ADDRESS	4	JIBPDDB	POINTER TO NEXT ASSIGNABLE PDDB
352	(160)	ADDRESS	4	JIBFPDB	FIRST PDDB OFFSET IN JIB
356	(164)	ADDRESS	4	JIBFIOTR	IOT MTTR OF FIRST PDDB
360	(168)	ADDRESS	4	JIBCPBUF	CHECKPOINT I/O BUFFER ADDRESS
364	(16C)	ADDRESS	4	JIBGCB	POINTER TO GCB CHAIN
368	(170)	SIGNED	4	JIBDSACT	DATA SETS ASSIGNED COUNT
372	(174)	SIGNED	4	JIBDSEQN	DATA SET SEQUENCE NUMBER
376	(178)	CHARACTER	8	JIBSECLB	Security label of the job

Table 244. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	BITSTRING	224	JIBJSPA	JSPA AREA
608	(260)	BITSTRING	4	(2)	Reserved
608	(260)	X'268'	0	JIBSIZE	"*-JIB" Length of JIB base. Note that the length of a JIB is JIBSIZE, plus the size of the prototype JOA, which is appended to the end of the JIB.
616	(268)	SIGNED	2	JIBJOAPR(0)	Prototype (copy) JOA. The size of a JIB is calc- ulated dynamicially at runtime by the FSMQCT routine in HASPFSSM

Table 245. Cross Reference for $JIB

Name	Offset	Hex Tag
JIB	0	
JIBCPBUF	168	
JIBCSJIO	148	
JIBDEVN	13C	
JIBDSACT	170	
JIBDSEQN	174	
JIBFACT	10	40
JIBFBKSP	11	8
JIBFCOMP	10	8
JIBFCPB	10	2
JIBFCPER	12	10
JIBFCPVL	12	20
JIBFDEL	11	40
JIBFFSTP	12	80
JIBFINCP	10	4
JIBFINIT	10	10
JIBFINT	11	10
JIBFIOTR	164	
JIBFJHPG	11	4
JIBFJTPG	11	2
JIBFLAGS	10	
JIBFLG1	10	
JIBFLG2	11	
JIBFLG3	12	
JIBFLG4	13	
JIBFLG5	18	
JIBFLSTP	12	40
JIBFNEWS	11	1
JIBFONDV	12	4
JIBFOPIC	12	2
JIBFPDB	160	
JIBFREQ	10	80
JIBFRET	10	20
JIBFRST	11	20
JIBFSTOP	11	80

Table 245. Cross Reference for $JIB (continued)

Name	Offset	Hex Tag
JIBFUNPR	12	8
JIBGCB	16C	
JIBID	0	
JIBIOERR	10	1
JIBIOT	150	
JIBIOTTK	154	
JIBJBNUM	24	
JIBJCOR	EC	
JIBJCT	14C	
JIBJCTA	20	
JIBJKEY	30	
JIBJOAPR	268	
JIBJOBID	28	
JIBJOEI	1C	
JIBJSPA	180	
JIBJ2GAB	18	
JIBJ2GAC	EC	
JIBJ2GAE	12C	
JIBJ2RAB	8	
JIBJ2RAE	20	
JIBMIDSE	8	
JIBNEWS	34	
JIBNEXT	4	
JIBPDDB	15C	
JIBSECLB	178	
JIBSIZE	260	268
JIBSJIOB	144	
JIBSWBER	13	10
JIBUNPRR	14	
JIBWORK	12C	
JIB3AUTH	12	1
JIB4DUMD	13	40
JIB4FSSR	13	20
JIB4NENF	13	1
JIB4OPIN	13	4
JIB4RDIP	13	8
JIB4REPO	13	2
JIB4RSV1	13	80
JIB5JCOR	18	80

$JNEW information

$JNEW programming interface information

$JNEW is a programming interface.

$JNEW heading information

Common name:	JNEW Control Block
Macro ID:	$JNEW
DSECT name:	JNEW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	JNEW Offset: JNEWID-JNEW Length: L'JNEWID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual storage is 31 bit. No restriction on real storage
Size:	See JNEWSIZE
Created by:	JESNEWS processing in HASPJOS
Pointed to by:	$JNEW field of the $HCT data area JNEWNEXT field of the $JNEW data area PPPANEWS field of the $PPPWORK data area JIBNEWS field of the $JIB data area
Serialization:	Creation is serialized by the $PRONEWS flag of the $PROCESS byte in the HCT
Function:	The JNEW is the control block representing the JESNEWS data set. It contains the JESNEWS data set resource name and the TOKEN associated with the data set. The format of the entity name is "nodeid.jes_userid.$JESNEWS.jesnews_jobid. Dnews_level.JESNEWS". The JNEW is located in the JES2 address space. It is created by $#NEWS when a new news data set is created and by $#GTNEWS when a printer requests the current news.

$JNEW mapping

Table 246. Structure JNEW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JNEW	
0	(0)	CHARACTER	4	JNEWID	JNEW identifier
4	(4)	ADDRESS	1	JNEWVERS	Version
		1		JNEWVRSN	"X'01'" Version equate
5	(5)	BITSTRING	1	JNEWFLAG	Flag byte
		1...		JNEWMOVD	"B'10000000'" JESNEWS was moved
6	(6)	ADDRESS	2		Reserved
8	(8)	SIGNED	4	JNEWUSE	Use Count
12	(C)	ADDRESS	4	JNEWNEXT	Address of next JNEW
16	(10)	SIGNED	4	JNEWJNUM	Job number of JQE
20	(14)	SIGNED	4	JNEWLEVL	Level of the news
24	(18)	ADDRESS	4	JNEWMTTR	MTTR of JESNEWS data set
28	(1C)	ADDRESS	4	JNEWIOTT	MTTR of JESNEWS IOT
32	(20)	SIGNED	4	JNEWRECT	Data set record count
36	(24)	SIGNED	4	JNEWPGCT	Page data page count
40	(28)	BITSTRING	80	JNEWTOKN	JESNEWS Security token
120	(78)	CHARACTER	53	JNEWENTY	JESNEWS entity name
173	(AD)	BITSTRING	1	JNEWRECF	Data set record format
174	(AE)	BITSTRING	2	JNEWRECL	Maximum data set record lng
176	(B0)	BITSTRING	4		Reserved

Table 246. Structure JNEW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	DBL WORD	8	(0)	Ensure boundry
184	(B8)	X'B8'	0	JNEWSIZE	"*-JNEW" Size of JNEW control block

Table 247. Cross Reference for $JNEW

Name	Offset	Hex Tag
JNEW	0	
JNEWENTY	78	
JNEWFLAG	5	
JNEWID	0	
JNEWIOTT	1C	
JNEWJNUM	10	
JNEWLEVL	14	
JNEWMOVD	5	80
JNEWMTTR	18	
JNEWNEXT	C	
JNEWPGCT	24	
JNEWRECF	AD	
JNEWRECL	AE	
JNEWRECT	20	
JNEWSIZE	B8	B8
JNEWTOKN	28	
JNEWUSE	8	
JNEWVERS	4	
JNEWVRSN	4	1

$JNT information

$JNT programming interface information

$JNT is a programming interface.

$JNT heading information

Common name: HASP Job Number Table

Macro ID: $JNT

DSECT name: JNT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JNT '
Offset: JNTID-JNT
Length: 4

Storage attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

Size: JNTLEN + (2 * 32768) - R4 mode <32K jobs
JNTLEN + (2 * 65534) - R4 mode >=32K jobs
JNTLENZ2 + (4 * 65536) - z2 mode

Created by: JES2 initialization allocates storage for the JNT.
The checkpoint versions subtask creates copies of the JNT in the checkpoint versions data space.

Pointed to by: The $JNTPTR field of the $HCT data area.
The KACJNTP field of the $KAC data area.
The DSRVJNPT field of the IAZDSERV data area.

Serialization: JES2 checkpoint data set lock ($QSUSE)

Function: Maps the job number table in the 4K checkpoint page area. Contains all job number information including the JIX (job number index).

$JNT mapping

Table 248. Structure JNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JNT	JOB NUMBER TABLE DSECT
0	(0)	CHARACTER	4	JNTID	JNT IDENTIFIER
4	(4)	ADDRESS	1	JNTVRSN	JNT VERSION
4	(4)	X'4'	0	JNTVERS	"4" JNT VERSION NUMBER
5	(5)	ADDRESS	1	JNTRSV1	RESERVED
6	(6)	SIGNED	2	JNTCATCT	Counter that is incremented every time an execution class (CAT) or execution class group (GRPOBJ) is changed. Used to trigger a REFRESH of the in- memory CAT/GRPOBJ cache.
8	(8)	SIGNED	4	JNTLCMIN	LOCAL MINIMUM JOB NUMBER
12	(C)	SIGNED	4	JNTLCMAX	LOCAL MAXIMUM JOB NUMBER
16	(10)	SIGNED	4	JNTLSTAL	LAST ALLOCATED JOB NUMBER
20	(14)	SIGNED	4	JNTFRCNT	NUMBER OF FREE JOB NUMBERS
24	(18)	ADDRESS	4	JNTJBMAX	TOTAL NUMBER OF JOB NUMBERS
28	(1C)	SIGNED	4	(2)	Reserved for future use
36	(24)	SIGNED	4	JNTBSEND(0)	End of base section
36	(24)	X'24'	0	JNTBLEN	"*-JNT" Length of the base JNT
		JNTJXMAP is a map of the allocated job numbers in the JIX. The map contains one bit for every 32 job numbers. Therefore, a bit being on indicates that one or more job numbers within the 32 job number range are allocated in the JIX. We selected one bit to represent 32 job numbers because 999999 job numbers could be accounted for and still keep the z2 JNT in a single buffer (not including the JIX).			
36	(24)	BITSTRING	1	JNTJXMAP	Jix map of allocated job numbers
36	(24)	X'F43'	0	JNTJXMLN	"*-JNTJXMAP" Length of JNTJXMAP
3944	(F68)	SIGNED	4	JNTJIXZ2(0)	Start of z2 JIX
3944	(F68)	X'F68'	0	JNTLENZ2	"*-JNT" Length of the z2 JNT
3944	(F68)	X'10000'	0	JNTJXENT	"65536" Number of JIX entries

Table 249. Cross Reference for $JNT

Name	Offset	Hex Tag
JNT	0	
JNTBLEN	24	24
JNTBSEND	24	
JNTCATCT	6	
JNTFRCNT	14	
JNTID	0	D1D5E340
JNTJBMAX	18	

Table 249. Cross Reference for $JNT (continued)

Name	Offset	Hex Tag
JNTJIXZ2	F68	
JNTJXENT	F68	10000
JNTJXMAP	24	
JNTJXMLN	24	F43
JNTLCMAX	C	
JNTLCMIN	8	
JNTLENZ2	F68	F68
JNTLSTAL	10	
JNTRSV1	5	
JNTVERS	4	4
JNTVRSN	4	

$JOE information

$JOE programming interface information

$JOE is a programming interface.

$JOE heading information

Common name: Job Output Element

Macro ID: $JOE

DSECT name: JOE

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of JOEs is preceded by an eyecatcher '**JOE POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy.
Key: 1
Residency: The JOE is a checkpoint resident control block.
Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.

Size: See JOESIZE.

Created by: JES2 Initialization allocates memory for the pool of JOEs. The checkpoint versions subtask creates the dataspace copies. The $#ADD service routine creates elements within the pool.

Pointed to by:

The following fields contain indexes to $JOEs from the address in field $JOTABLE in the $HCT data area. The offsets are converted to addresses by adding the value in $JOTABLE to the offset. The indexes are converted to addresses by multipling by JOESIZE and then adding the value in $JOTABLE to the calculated offset.
JOTFREQI field of the $JOT data area
JOTCHRQI field of the $JOT data area
JOTPRGQI field of the $JOT data area
JOTHLDQI field of the $JOT data area
JOTCLSQI field of the $JOT data area
JOTNTWQI field of the $JOT data area
JQEJOEI field of the $JQE data area
JOENEXTI field of the $JOE data area
JOEPREVI field of the $JOE data area
JOENXJQI field of the $JOE data area
JOECHARI field of the $JOE data area
JOECHNXI field of the $JOE data area
JOEWKPTI field of the $JOE data area

The following fields contain offsets to $JOEs:
PSOWKOFF field of the $PSO data area
PSOCHOFF field of the $PSO data area
JOENETCH field of the $JOE data area

The following fields contain addresses of $JOEs:
PQEJWJOE field of the $PQE data area
PQEDWJOE field of the $PQE data area
PQHXJOE field of the $PQH data area

Various fields in the processor work areas and parameter lists contain offsets or addresses of JOEs.

Serialization:

The JES2 checkpoint ($QSUSE) for change, the owning job's job lock for selection. JOEs in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since they could be changing, they may be page-released or they may be all zeros.
WORK JOEs are managed by the $DOGJOE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to work JOEs (CHAR JOEs should never be updated except by the appropriate $# service). With the exception of a few bits, you must obtain an update mode JOA before making any updates to a work JOE.

Function:

The JOE control block represents group of sysout data sets (PDDBs) with compatible output grouping characteristics. It is a checkpointed control block that represents queued and active output work. There are two main types of JOEs, work JOEs and characteristics JOEs. Work JOEs are the queue elements used to select, hold, track, etc. an output group. The chains that are run to select output work are those of work JOEs. Work JOEs contain attributes of JOEs that vary frequently such as class, record counts and page counts. One characteristics JOE exists for each unique combination of other characteristics not in the work JOE that vary less frequently such as userid, writer id and security label for all the JOEs in the MAS. One characteristics JOE may represent multiple work JOEs.
The work JOEs are chained by SYSOUT classes, from anchors in the Job Output Table (JOT). The JOT anchors are in the CKPT, located in the front of the section for the JOEs.
The JOEs written to the checkpoint exist in multiple copies: main and I/O checkpoint areas. The main and I/O CKPT areas in storage each have a copy, and are in subpool 0. There may be 1 or more versions in the CKPT Versions dataspace as well.
Copies of JOEs may be made in other control blocks, for example in the JIB that flows through the FSS output logic in an FSS address space (copied from the JES2 address space).

$JOE mapping

Table 250. Structure JOE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOE	JOB OUTPUT ELEMENT DSECT
0	(0)	X'0'	0	JOA	"JOE,0,C'J'" JOE is sometimes a JOA
0	(0)	X'8'	0	JOEVRSN	"8" JOE control block version
	Work JOE starts here				
0	(0)	X'0'	0	JOEWSTRT	"*,0,C'J'" Start of work JOE area
0	(0)	BITSTRING	1	JOETYPE	JOE TYPE
		1...		JOEWORK	"B'10000000'" THIS IS A WORK JOE
		.1..		JOECHARJ	"B'01000000'" THIS IS A CHAR JOE
		11..		JOEFREE	"B'11000000'" THIS IS A FREE JOE
		..1.		JOEINDEX	"B'00100000'" This is an index JOE
0	(0)	X'0'	0	JOEWB1	"JOE,*-JOE,C'X'" 1st work JOE block
1	(1)	ADDRESS	3	JOENEXTI	Next WORK-JOE in class q or next CHAR-JOE (index) or next index JOE (index)
4	(4)	BITSTRING	1	JOECURCL	JOE CURRENT SYSOUT CLASS (reserved in the CHAR JOE)
4	(4)	X'4'	0	JOEWB2	"JOECURCL,*-JOECURCL,C'X'" 2nd work JOE block
	When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.				
5	(5)	ADDRESS	3	JOEPREVI	Previous WORK-JOE in class queue or previous CHAR-JOE (index)
8	(8)	BITSTRING	1	JOEFLAG5	Common area JOE flag byte
		1		JOE5RBLD	"B'00000001'" This JOE is on the Rebuild queue
		.... ..1.		JOE5ZAP	"B'00000010'" JOE (and JQE) zapped by ZAPJOB
		.... .1..		JOE5ESSM	"B'00000100'" Owning job was submitted via emergency subsystem
8	(8)	X'8'	0	JOEWB3	"JOEFLAG5,*-JOEFLAG5,C'X'" 3rd work JOE block
9	(9)	BITSTRING	1	JOE#BRTS	Number of BERTS used by this JOE
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	BITSTRING	1	JOEFLAG1	WORK-JOE FLAGS
		1...		JOE1CKV	"B'10000000'" CHECKPOINT ELEMENT VALID FLAG
		.1..		JOE1SPIN	"B'01000000'" SPIN JOE FLAG
		..1.		JOE1PRT	"B'00100000'" JOE ON-PRINTER FLAG
		...1		JOE1PUN	"B'00010000'" JOE ON-PUNCH FLAG
		.... 1...		JOE1CJES	"B'00001000'" ckpted by JES (not by FSS). If JOE is interrupted and later processed by FSS, bit indicates to invalidate ckpt + reset counts

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JOE1CPDS is set on when a JOE is built and when PDDBs are grouped into the JOE. JOE1CPDS is never turned off even if there are no more PDDBs with PDB3PAGE on			
		.... .1..		JOE1CPDS	"B'00000100'" One or more PDDBs within this JOE are Page mode (i.e. PDB3PAGE is on)
		JOE1CTKN is set on when a JOE is built if a PDDB being represented by the JOE has a client token associated with it (a client token was returned on the dynamic allocation for the SYSOUT data set represented by the PDDB).			
		.... ..1.		JOE1CTKN	"B'00000010'" A PDDB within this JOE has a client token associated with it(i.e. PDB9CTKN on)
		1		JOE1ART	"B'00000001'" This is an artifical JOE
13	(D)	ADDRESS	3	JOEJQEI	JQE for this JOE (index)
16	(10)	BITSTRING	1	JOEFLAG2	MORE WORK JOE FLAGS
		1...		JOE2TCEL	"B'10000000'" TRACK-CELL JOE FLAG
		.1..		JOE2DMND	"B'01000000'" DEMAND-SETUP JOE FLAG
		..1.		JOE2SYSN	"B'00100000'" SYSTEM GENERATED JOE NAME FLAG
		...1		JOE2CLNE	"B'00010000'" SET MULTIPLE COPIES OF THIS JOE
		.... 1...		JOE2UPRI	"B'00001000'" USER SPECIFY PRIORITY FLAG
		.... .1..		JOE2IPAD	"B'00000100'" Destination is in IP-format
		.... ..1.		JOE2NUNK	"B'00000010'" Tokens are NJE unknown user
		1		JOE2UNSP	"B'00000001'" JOE CREATED BY UNSPUN PROC
16	(10)	X'C'	0	JOEWB4	"JOEFLAG1,*-JOEFLAG1,C'X'" 4th work JOE block
17	(11)	ADDRESS	3	JOENXJQI	Next WORK-JOE with same job (index)
20	(14)	BITSTRING	1	JOEFLAG3	THIRD WORK JOE FLAG
		1...		JOE3CPER	"B'10000000'" PERM I/O ERROR ON CHK SPOOL REC
		.1..		JOE3IOTV	"B'01000000'" JOE'S IOT HAS BEEN WRITTEN
		..1.		JOE3NWTG	"B'00100000'" GET NEW TRK GRP FOR CHK
20	(14)	X'10'	0	JOE3TODP	"$ODPURGE" JOE IS OUTDISP=PURGE
		The 4 following bits must match definitions in STATSSL3/ESWPSSL3.			
20	(14)	X'8'	0	JOE3TODW	"$ODWRITE" JOE IS OUTDISP=WRITE
20	(14)	X'4'	0	JOE3TODH	"$ODHOLD" JOE IS OUTDISP=HOLD
20	(14)	X'2'	0	JOE3TODK	"$ODKEEP" JOE IS OUTDISP=KEEP
20	(14)	X'1'	0	JOE3TODL	"$ODLEAVE" JOE IS OUTDISP=LEAVE
20	(14)	X'1F'	0	JOE3TODA	"$ODANYWP" ALL OUTDISP BIT SETTINGS
20	(14)	X'14'	0	JOEWB5	"JOEFLAG3,*-JOEFLAG3,C'X'" 5th work JOE block

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
21	(15)	ADDRESS	3	JOECHARI	Characteristic JOE for this WORK-JOE (index)
24	(18)	BITSTRING	1	JOEOFFSL	OFFLOAD SELECT BYTE
24	(18)	X'18'	0	JOEWB6	"JOEOFFSL,*-JOEOFFSL,C'X'" 6th work JOE block
25	(19)	ADDRESS	3	JOECHNXI	Next WORK-JOE, same CHAR (index)
28	(1C)	BITSTRING	1	JOEFLAG4	FOURTH WORK JOE FLAG
		1...		JOE4JNEW	"B'10000000'" JESNEWS JOE FLAG
		.1..		JOE4CRTM	"B'01000000'" JOECRTME update pending
		..1.		JOE4DAUG	"B'00100000'" JOE created from daughter spin IOT
		...1		JOE4DSCT	"B'00010000'" Valid DSCT in spin IOT
		.... 1...		JOE4PRIO	"B'00001000'" Installation set Priority
		.... .1..		JOE4DSID	"B'00000100'" DSID= 3540 HELD DATA SET
		.... ..1.		JOE4NPSO	"B'00000010'" JOE IS NOT AVAILABLE TO PSO
		1		JOE4PRST	"B'00000001'" JOE priority has been set by $#BLD
		Flag byte JOEFLGT2 is used by various processors (HASPFSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both $TO and $R command processing.			
29	(1D)	BITSTRING	1	JOEFLGT2	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in PDDB. See also JOEFLAGT.
		.1..		JOE2TUSE	"B'01000000'" Userid changed via commands
		..1.		JOETPSOC	"B'00100000'" JOE created by PSO/SAPI
		...1		JOETPSOA	"B'00010000'" PSO/SAPI added PDDB to JOE
		.... 1...		JOETPSOD	"B'00001000'" PSO/SAPI deleted PDDB from JOE
30	(1E)	BITSTRING	1	JOEHOLD	JOE hold type (also called JOE blocked type)
		OHLDOPER B'10000000' Operator HOLD/blocked OHLDSYS B'00100000' System HOLD/blocked OHLDALL B'11111111' ALL HOLD/blocked			
31	(1F)	BITSTRING	1	JOEHSRSN	System HOLD/blocked reason
		OHLDJX01 X'01' FSI RELDS UNPRINTABLE SWB ERROR OHLDJX02 X'02' FSI RELDS UNPRINTABLE FSA OHLDJX03 X'03' SAF CALL FAILED IN HASPPRPU OHLDJX04 X'04' TRANSMISSION FAILED IN HASPNET OHLDJX05 X'05' NJE Hop Count Exceeded OHLDJX06 X'06' Held by Sysout API OHLDJX07 X'07' JCT/IOT I/O error (SAPI) OHLDJ233 X'33' OFFLOAD WITH HOLD OHLDJ234 X'34' PROGRAM CHECK IN HASPPRPU OHLDJ235 X'35' PROGRAM CHECK IN USER EXIT OHLDJ236 X'36' PROGRAM CHECK IN SWBTUREQ			
32	(20)	SIGNED	4	JOEFSID	FSID IF JOE ACTIVE ON AN FSA
32	(20)	X'20'	0	JOEFSSID	"JOEFSID,2,C'H'" FSS ID

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'22'	0	JOEFSAID	"JOEFSID+2,2,C'H'" FSA ID
32	(20)	X'20'	0	JOENETCH	"JOEFSID,4,C'A'" Offset of next JOE on SYSOUT transmitter chain
36	(24)	SIGNED	2	JOEPRIO	JOE PRIORITY X'0000' - X'0FF0'
38	(26)	SIGNED	2	JOEJNEWL	JESNEWS number for JESNEWS
40	(28)	SIGNED	4	JOECPADR_Z2	CKPT SPOOL record addr (MTTR) z2 mode only (reserved in z11 mode)
	THESE FIELDS MUST BE KEPT TOGETHER				
44	(2C)	BITSTRING	4	JOERECCT	TOTAL RECORD COUNT
48	(30)	BITSTRING	4	JOEPGCT	TOTAL PAGE RECORD COUNT
52	(34)	BITSTRING	4	JOEWRECN	NUM OF RECS PROCESSED SO FAR
56	(38)	BITSTRING	4	JOEWPAGN	NUM OF PAGES PROCESSED SO FAR
	END OF SECTION THAT MUST BE KEPT TOGETHER				
60	(3C)	SIGNED	4	JOEIOTTR_Z2	JOE IOT track addr (MTTR) z2 mode only (reserved in z11 mode)
64	(40)	BITSTRING	3	JOEDEVID	USER DEVICE IDENTIFICATION
	Flag byte JOEFLAGT is used by various processors (HASPFSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both $TO and $R command processing.				
67	(43)	BITSTRING	1	JOEFLAGT	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in PDDB. See also JOEFLGT2.
		1...		JOEFTMOD	"B'10000000'" JOE overrides PDDB settings or network data set header settings
		.1..		JOEFTFMS	"B'01000000'" FORMS CHANGED
		..1.		JOEFTFCB	"B'00100000'" FCB CHANGED
		...1		JOEFTUCS	"B'00010000'" UCS CHANGED
		.... 1...		JOEFTWRT	"B'00001000'" WRITER CHANGED
		.... .1..		JOEFTFLH	"B'00000100'" FLASH CHANGED
		.... ..1.		JOEFTBRT	"B'00000010'" BURST CHANGED
		1		JOEFTPRM	"B'00000001'" PRMODE CHANGED
68	(44)	SIGNED	4	JOEROUT(0)	REMOTE ID OF DATA
68	(44)	SIGNED	2	JOERNODE	NODE NUMBER
70	(46)	SIGNED	2	JOEREMOT	REMOTE NUMBER
70	(46)	X'46'	0	JOERUNIT	"JOEREMOT" UNIT ADDRESS
72	(48)	CHARACTER	12	JOEID(0)	JOE IDENTIFICATION BLOCK
72	(48)	CHARACTER	8	JOENAME	JOE'S OUTPUT GROUP NAME
72	(48)	X'4F'	0	JOESGNB1	"JOENAME+7" JOENAME SIGN NIBBLE FOR EBCDIC
80	(50)	SIGNED	2	JOEID1	JOE'S OUTPUT GROUP 1ST ID
82	(52)	SIGNED	2	JOEID2	JOE'S OUTPUT GROUP 2ND ID
84	(54)	SIGNED	4	JOECRTME	JOE CREATION TIME
88	(58)	CHARACTER	8	JOECRUID	Creator userid for Dataset

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	SIGNED	4	JOEBERTT	Token representing the BERTS for this JOE (In z11 mode)
96	(60)	X'60'	0	JOESWBOT_Z2	"JOEBERTT,4,C'X'" Track address of JOE SWBIT chain for SWBTU overrides (MTTR) z2 mode only
100	(64)	BITSTRING	1	JOEBUSY	JOE busy system id
101	(65)	SIGNED	3	JOEFAMLY	Mother/Daughter Family ID
101	(65)	X'1C'	0	JOEWB7	"JOEFLAG4,*-JOEFLAG4,C'X'" 7th work JOE block
104	(68)	SIGNED	4	JOE1END(0)	END OF WORK-JOE
104	(68)	X'68'	0	JOEWSIZE	"*-JOEWSTRT" Size of Work JOE
	CHAR JOE starts here				
104	(68)	X'68'	0	JOECSTRT	"*,0,C'J'" Start of CHAR JOE area
104	(68)	BITSTRING	1	JCETYPE	JOETYPE JOE Type
104	(68)	X'68'	0	JOECB1	"JOECSTRT,*-JOECSTRT,C'X'" 1st CHAR JOE block
105	(69)	ADDRESS	3	JCENEXTI	JOENEXTI Next CHAR-JOE
108	(6C)	BITSTRING	1	JOECR2	Reserved
108	(6C)	X'6C'	0	JOECB2	"JOECR2,*-JOECR2,C'X'" 2nd CHAR JOE block
	When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.				
109	(6D)	ADDRESS	3	JCEPREVI	JOEPREVI Previous CHAR-JOE
112	(70)	BITSTRING	1	JCEFLAG5	JOEFLAG5 Common area JOE flag byte
112	(70)	X'70'	0	JOECB3	"JCEFLAG5,*-JCEFLAG5,C'X'" 3rd CHAR JOE block
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	BITSTRING	1	JOECR4	Reserved - Do not use. This allows us to use JOE1ART directly for an art JOE check instead of having to check JOETYPE first.
116	(74)	X'74'	0	JOECB4	"JOECR4,*-JOECR4,C'X'" 4th CHAR JOE block
117	(75)	ADDRESS	3	JOEWKPTI	WORK-JOE with like CHAR-JOE (index)
	IF YOU ADD OR DELETE SETUP FIELDS, YOU MUST UPDATE THE EQUATES FOR THE $D F COMMAND IN HASPCOMM				
120	(78)	CHARACTER	8	JOEFORM	FORMS NAME
128	(80)	CHARACTER	4	JOEFCB	FCB NUMBER
132	(84)	CHARACTER	4	JOEUCS	UCS NUMBER
136	(88)	CHARACTER	8	JOEWTRID	DATA SET EXTERNAL WRITER NAME
144	(90)	CHARACTER	8	JOEUSER	USER ID
152	(98)	CHARACTER	4	JOEFLASH	OVERLAY-FRAME
156	(9C)	CHARACTER	8	JOEPRMD	PROCESS MODE OF THIS JOE
164	(A4)	CHARACTER	8	JOESECLB	Security label for Dataset
172	(AC)	BITSTRING	1	JOEFLAGC	CHARACTERISTICS FLAGS
		1...		JOEFCBRT	"B'10000000'" BURST=YES FLAG

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
173	(AD)	BITSTRING	1	JOEFLAGD	DEMAND CHARACTERISTIC FLAGS
		1...		JOEFDFMS	"B'10000000'" FORMS DEMAND '0' NO '1' YES
		.1..		JOEFDFLH	"B'01000000'" FLASH DEMAND '0' NO '1' YES
		..1.		JOEFDFCB	"B'00100000'" FCB DEMAND '0' NO '1' YES
		...1		JOEFDUCS	"B'00010000'" UCS DEMAND '0' NO '1' YES
		.... 1...		JOEFDBRT	"B'00001000'" BURST DEMAND '0' NO '1' YES
173	(AD)	X'78'	0	JOESETUP	"JOEFORM,*-JOEFORM" DEVICE SETUP CHARACTERISTICS
174	(AE)	BITSTRING	2		RESERVED FOR FUTURE USE
174	(AE)	X'78'	0	JOECB5	"JOEFORM,*-JOEFORM,C'X'" 5th CHAR JOE block
176	(B0)	SIGNED	4	JOEUSE	# OF JOES USING THIS ELEMENT
180	(B4)	SIGNED	4	JOE2END(0)	END OF CHAR-JOE
180	(B4)	X'4C'	0	JOECSIZE	"*-JOECSTRT" Size of Char JOE
		Set length to be 2 times the longer of the WORK or CHAR JOE.			
0	(0)	BITSTRING	208		Define 2 WORK JOEs length
0	(0)	BITSTRING	152		Define 2 CHAR JOEs length
208	(D0)	X'68'	0	JOESIZE	"(*-JOE)/2" Size of CKPTed JOE area
		JOE extension (JOX) The following fields appear only within an artificial JOE. Artificial JOEs are constructed using the $DOGJOE service.			
208	(D0)	SIGNED	4	JOX(0)	Start of JOE extension
208	(D0)	BITSTRING	6	JOXSWBOT	Track address of JOE SWBIT chain for SWBTU overrides (MQTR)
214	(D6)	BITSTRING	6	JOXCPADR	CKPT SPOOL record addr
220	(DC)	BITSTRING	6	JOXIOTTR	JOE IOT track addr
226	(E2)	BITSTRING	1	JOXFLAG1	JOX Flags
		1...		JOXTRNCK	"B'10000000'" This JOE has been checked for transaction data since last z2 to z11 activation.
226	(E2)	X'D0'	0	JOXSB1	"JOX,*-JOX,C'X'" 1st work JOX block
227	(E3)	BITSTRING	1		Reserved
228	(E4)	ADDRESS	3	JOXPRVWR	Index of prev JOE in primary node JOE-chain
231	(E7)	ADDRESS	3	JOXNXTWR	Index of next JOE in primary node JOE-chain
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4		Reserved
240	(F0)	SIGNED	4	JOE3END(0)	End of JOX area
240	(F0)	X'20'	0	JOXSIZE	"*-JOX" Size of the JOX
		Local JOE fields (never written to the checkpoint)			
240	(F0)	ADDRESS	4	JOELCHAN	JOA chain pointer

Table 250. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
244	(F4)	SIGNED	2	JOEDLEN	Length of JOA
246	(F6)	SIGNED	2		Reserved
		JOE fields backed by BERTs (only valid in z11 mode) Fields in this section are associated with work JOEs and are filled in by the $DOGJOE/$DOGBERT services.			
248	(F8)	SIGNED	4	JOEBERTS(0)	Start of BERT JOE area
248	(F8)	CHARACTER	8	JBETRJBN	Transaction job name
256	(100)	CHARACTER	8	JBETRWKI	Transaction work unit id
264	(108)	CHARACTER	8	JBETROWN	Transaction owner userid
264	(108)	X'F8'	0	JBETRANS	"JBETRJBN,*-JBETRJBN" Section definition field
		JBESAPI is supplied by SAPI support when a JOE is selected by a SAPI application.			
272	(110)	CHARACTER	8	JBEANAME	SAPI application job name
280	(118)	CHARACTER	8	JBEAPPL	SAPI application name
280	(118)	X'110'	0	JBESAPI	"JBEANAME,*-JBEANAME" SAPI section
280	(118)	X'28'	0	JBEMAINL	"*-JOEBERTS" Length of BERT section
280	(118)	X'120'	0	JOASIZE	"*-JOA" Length of artificial JOE

Table 251. Structure JOEINDX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOEINDX	Index JOE
0	(0)	BITSTRING	1	JIETYPE	See JOE type
1	(1)	ADDRESS	3	JIENEXTI	Next Index-JOE (JOE index)
4	(4)	SIGNED	4	JIEPRSTR(0)	Primary node start
4	(4)	X'4'	0	JIEHDRSZ	"*-JOEINDX" Index JOE header size
4	(4)	BITSTRING	1	JIVIEWS	Index JOE area housing indexing mechanisms.

Table 252. Structure PRIMARYN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRIMARYN	Primary node definition
0	(0)	SIGNED	4	PRILEFT	Offset left subtree node
4	(4)	SIGNED	4	PRIRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	PRIBALF	Balance factor
9	(9)	BITSTRING	1	PRIFLAG	Flag
10	(A)	BITSTRING	3		Alignment/reserved
13	(D)	ADDRESS	3	PRICHAIN	JOE Chain - Index of first work JOE
		Following is the JOE-chain time stamp field. This field has three different possible value: -- If JOE-chain not empty then this is time of last work_JOE add. -- If JOE-chain empty and time not zero then this is time of last work JOE remove.			
16	(10)	SIGNED	4	PRITSTMP	JOE-chain time stamp field

Table 252. Structure PRIMARYN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'14'	0	PRIMFIX	"*-PRILEFT" Length of primary node fixed portion
		Primary key located in index JOE. Configuration is kept in JAX and should only be referenced through JAX. Here for useful information purposes.			
20	(14)	BITSTRING	1	PRIMKEY(0)	Primary key
20	(14)	BITSTRING	1	PRICLASS	JOE sysout class
21	(15)	BITSTRING	12	PRIDEST	JOE destination
33	(21)	BITSTRING	1	PRIDISP	JOE disposition

Table 253. Structure ALTNODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALTNODE	Alternate node definition
0	(0)	SIGNED	4	ALTLEFT	Offset left subtree node
4	(4)	SIGNED	4	ALTRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	ALTBALF	Balance factor
		Chain of index JOEs with some portion of primary key satisfying this alternate node. This is not a circular chain - the master alternate node is the head and its previous JOE index is always zeroes.			
9	(9)	ADDRESS	3	ALTPRVIN	Previous index JOE - index
12	(C)	ADDRESS	3	ALTNXTIN	Next index JOE - index
15	(F)	BITSTRING	1	ALTFLAG	Implementation specific flags
		1...		ALTMAST	"B'10000000'" This is master alternate node - denotes THIS node is in actual AVL tree and will not be deleted unless entire tree is rebuilt. This node's - JOE index chain is the head.
		.1..		ALTOVERF	"B'01000000'" Number index JOEs chained to master currently will overflow JOE priority array located within the JOX.
		..1.		ALIINJOX	"B'00100000'" Alternate node resides in index JOE -> JOX
15	(F)	X'10'	0	ALNODESZ	"*-ALTNODE" Alternate node size

Table 254. Structure JOECNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOECNT	, JOE count array
0	(0)	CHARACTER	8	JOECNM1	JOE type 1 (work)
8	(8)	SIGNED	4	JOECNR1	Number of JOEs of this type
8	(8)	X'C'	0	JOECLEN	"*-JOECNT" Size of one entry
12	(C)	CHARACTER	8	JOECNM2	JOE type 2 (char)
20	(14)	SIGNED	4	JOECNR2	Number of JOEs of this type
24	(18)	CHARACTER	8	JOECNM3	JOE type 3 (index)
32	(20)	SIGNED	4	JOECNR3	Number of JOEs of this type
36	(24)	CHARACTER	8	JOECNM4	JOE type 4 (free)
44	(2C)	SIGNED	4	JOECNR4	Number of JOEs of this type

Table 254. Structure JOECNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	8	JOECNM5	JOE type 5 (invalid)
56	(38)	SIGNED	4	JOECNR5	Number of JOEs of this type
56	(38)	X'3C'	0	JOECARSZ	"*-JOECNT" Size of a full array

Table 255. Cross Reference for $JOE

Name	Offset	Hex Tag
ALIINJOX	F	20
ALNODESZ	F	10
ALTBALF	8	
ALTFLAG	F	
ALTLEFT	0	
ALTMAST	F	80
ALTNODE	0	
ALTNXTIN	C	
ALTOVERF	F	40
ALTPRVIN	9	
ALTRIGHT	4	
JBEANAME	110	
JBEAPPL	118	
JBEMAINL	118	28
JBESAPI	118	110
JBETRANS	108	F8
JBETRJBN	F8	
JBETROWN	108	
JBETRWKI	100	
JCEFLAG5	70	
JCENEXTI	69	
JCEPREVI	6D	
JCETYPE	68	
JIEHDRSZ	4	4
JIENEXTI	1	
JIEPRSTR	4	
JIETYPE	0	
JIVIEWS	4	
JOA	0	0
JOASIZE	118	120
JOE	0	
JOE#BRTS	9	
JOEBERTS	F8	
JOEBERTT	60	
JOEBUSY	64	
JOECARSZ	38	3C
JOECB1	68	68
JOECB2	6C	6C
JOECB3	70	70

Table 255. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOECB4	74	74
JOECB5	AE	78
JOECHARI	15	
JOECHARJ	0	40
JOECHNXI	19	
JOECLEN	8	C
JOECNM1	0	
JOECNM2	C	
JOECNM3	18	
JOECNM4	24	
JOECNM5	30	
JOECNR1	8	
JOECNR2	14	
JOECNR3	20	
JOECNR4	2C	
JOECNR5	38	
JOECNT	0	
JOECPADR_Z2	28	
JOECRTME	54	
JOECRUID	58	
JOECR2	6C	
JOECR4	74	
JOECSIZE	B4	4C
JOECSTRT	68	68
JOECURCL	4	
JOEDEVID	40	
JOEDLEN	F4	
JOEFAMLY	65	
JOEFCB	80	
JOEFCBRT	AC	80
JOEFDBRT	AD	8
JOEFDFCB	AD	20
JOEFDFLH	AD	40
JOEFDFMS	AD	80
JOEFDUCS	AD	10
JOEFLAGC	AC	
JOEFLAGD	AD	
JOEFLAGT	43	
JOEFLAG1	C	
JOEFLAG2	10	
JOEFLAG3	14	
JOEFLAG4	1C	
JOEFLAG5	8	
JOEFLASH	98	
JOEFLGT2	1D	
JOEFORM	78	

Table 255. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOEFREE	0	C0
JOEFSAID	20	22
JOEFSID	20	
JOEFSSID	20	20
JOEFTBRT	43	2
JOEFTFCB	43	20
JOEFTFLH	43	4
JOEFTFMS	43	40
JOEFTMOD	43	80
JOEFTPRM	43	1
JOEFTUCS	43	10
JOEFTWRT	43	8
JOEHOLD	1E	
JOEHSRSN	1F	
JOEID	48	
JOEID1	50	
JOEID2	52	
JOEINDEX	0	20
JOEINDX	0	
JOEIOTTR_Z2	3C	
JOEJNEWL	26	
JOEJQEI	D	
JOELCHAN	F0	
JOENAME	48	
JOENETCH	20	20
JOENEXTI	1	
JOENXJQI	11	
JOEOFFSL	18	
JOEPGCT	30	
JOEPREVI	5	
JOEPRIO	24	
JOEPRMD	9C	
JORECCT	2C	
JOEREMOT	46	
JOERNODE	44	
JOEROUT	44	
JOERUNIT	46	46
JOESECLB	A4	
JOESETUP	AD	78
JOESGNB1	48	4F
JOESIZE	D0	68
JOESWBOT_Z2	60	60
JOETPSOA	1D	10
JOETPSOC	1D	20
JOETPSOD	1D	8
JOETYPE	0	

Table 255. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOEUCS	84	
JOEUSE	B0	
JOEUSER	90	
JOEVRSN	0	8
JOEWB1	0	0
JOEWB2	4	4
JOEWB3	8	8
JOEWB4	10	C
JOEWB5	14	14
JOEWB6	18	18
JOEWB7	65	1C
JOEWKPTI	75	
JOEWORK	0	80
JOEWPAGN	38	
JOEWRECN	34	
JOEWSIZE	68	68
JOEWSTRT	0	0
JOEWTRID	88	
JOE1ART	C	1
JOE1CJES	C	8
JOE1CKV	C	80
JOE1CPDS	C	4
JOE1CTKN	C	2
JOE1END	68	
JOE1PRT	C	20
JOE1PUN	C	10
JOE1SPIN	C	40
JOE2CLNE	10	10
JOE2DMND	10	40
JOE2END	B4	
JOE2IPAD	10	4
JOE2NUNK	10	2
JOE2SYSN	10	20
JOE2TCEL	10	80
JOE2TUSE	1D	40
JOE2UNSP	10	1
JOE2UPRI	10	8
JOE3CPER	14	80
JOE3END	F0	
JOE3IOTV	14	40
JOE3NWTG	14	20
JOE3TODA	14	1F
JOE3TODH	14	4
JOE3TODK	14	2
JOE3TODL	14	1
JOE3TODP	14	10

Table 255. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOE3TODW	14	8
JOE4CRTM	1C	40
JOE4DAUG	1C	20
JOE4DSCT	1C	10
JOE4DSID	1C	4
JOE4JNEW	1C	80
JOE4NPSO	1C	2
JOE4PRIO	1C	8
JOE4PRST	1C	1
JOE5ESSM	8	4
JOE5RBLD	8	1
JOE5ZAP	8	2
JOX	D0	
JOXCPADR	D6	
JOXFLAG1	E2	
JOXIOTTR	DC	
JOXNXTWR	E7	
JOXPRVWR	E4	
JOXSB1	E2	D0
JOXSIZE	F0	20
JOXSWBOT	D0	
JOXTRNCK	E2	80
PRIBALF	8	
PRICHAIN	D	
PRICLASS	14	
PRIDEST	15	
PRIDISP	21	
PRIFLAG	9	
PRILEFT	0	
PRIMARYN	0	
PRIMFIX	10	14
PRIMKEY	14	
PRIRIGHT	4	
PRITSTMP	10	

$JOEIWRK information

$JOEIWRK heading information

Common name: JES2 JOEI (JOEINDEX Service) Processor

Macro ID: $JOEIWRK

DSECT name: PCE ($JOEIWRK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JOIPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $JOEIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the JOEI PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 JOEINDEX processor and by its support routine/exits. $JOEIWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JOEIWRK are actually part of PCE DSECT, but only map PCEs with the value PCEJOIID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$JOEIWRK mapping

Table 256. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	12	JOEICTQE	HASP Timer Queue Element
340	(154)	BITSTRING	1	JOEIFLAG	JOEIWRK flag
		1...		JOEIACTV	"B'10000000'" Timer Active
341	(155)	BITSTRING	3		Alignment
344	(158)	SIGNED	4		Reserved for future use
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'18'	0	JOIPCEWL	"*-PCEWORK" Length of JOEI PCE

$JOT information

$JOT programming interface information

$JOT is a programming interface.

$JOT heading information

Common name: Job Output Table

Macro ID: $JOT

DSECT name: JOT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JOT '
Offset: JOTID-JOT
Length: 4

Storage attributes: Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy.
Key: 1
Residency: The JOT is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.

Size: See JOESIZE.

Created by: JES2 Initialization allocates memory for the JOT. The checkpoint versions subtask creates the dataspace copies.

Pointed to by: $JOTABLE field of the $HCT data area
KACJOTP field of the $KAC data area

Serialization: The JES2 checkpoint ($QSUSE) for change. The copy of the JOT in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since it could be changing, it may be page-released or it may be all zeros

Function: The JOT control block contains the headers to all the job output queues and contains all the Job Output Elements (JOEs). See $JOE for more information on JOEs.

$JOT mapping

Table 257. Structure JOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOT	JOB OUTPUT TABLE DSECT
0	(0)	CHARACTER	4	JOTID	JOB OUTPUT TABLE ID
4	(4)	SIGNED	4	JOTFREC	COUNT OF FREE JOES
8	(8)	ADDRESS	2	JOTCLMU	CLASS MULTIPLIER
10	(A)	SIGNED	2		RESERVED FOR FUTURE USE
12	(C)	ADDRESS	4	JOTCLSEN	SIZE OF CLASS QUEUE ENTRY
16	(10)	ADDRESS	4	JOTUSER1	USER FIELD ONE
20	(14)	ADDRESS	4	JOTUSER2	USER FIELD TWO
24	(18)	ADDRESS	4	JOTUSER3	USER FIELD THREE
28	(1C)	ADDRESS	4	JOTUSER4	USER FIELD FOUR
		Queue head fields contain index of the first JOE in a respective queue.			
32	(20)	ADDRESS	4	JOTQHEAD(0)	Beginning of JOE q heads
32	(20)	ADDRESS	4	JOTFREQI	Queue of free JOEs
36	(24)	ADDRESS	4	JOTCHRQI	Queue of CHAR-JOEs
40	(28)	ADDRESS	4	JOTPRGQI	Queue of purge JOEs
		HOLD QUEUE - AVAILABLE FOR ANY OFFLOAD DEVICES			
44	(2C)	ADDRESS	4	JOTHLDQI	Queue of hold JOEs
		READY QUEUE - AVAILABLE FOR ANY PROCESSOR THAT IS ELIGIBLE TO SELECT JOES			
48	(30)	BITSTRING	0	JOTRDWQI(0)	Ready work JOE queues
48	(30)	ADDRESS	4	JOTNTWQI	Queue of network JOEs
52	(34)	ADDRESS	4	JOTCLSQI(0)	Queue of class WORK-JOEs
52	(34)	ADDRESS	4	(0)	OFFSET QUEUE OF CLASS WORK-JOES BY LOCAL AND NON-LOCAL DEST (QUEUE HEADS)
52	(34)	X'6D'	0	JOTNUMWQ	"(1+3*36)" NUMBER OF READY WORK QUEUE
52	(34)	X'1B0'	0	JOTCLSSZ	"(*-JOTCLSQI)" Size of class queue heads
52	(34)	X'4'	0	JOTHEADL	"4" LENGTH OF A CLASS QUEUE HEAD
52	(34)	X'8'	0	JOTPRHDL	"2*JOTHEADL" LENGTH OF PAIR OF CLASS Q HEADS

Table 257. Structure JOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	X'0'	0	JOTLQOFF	"0" OFFSET OF LCL Q FROM CLS
52	(34)	X'4'	0	JOTUQOFF	"JOTHEADL" OFFSET OF USER Q FROM CLS
52	(34)	X'8'	0	JOTRQOFF	"2*JOTHEADL" OFFSET OF REM Q FROM CLASS
52	(34)	X'C'	0	JOTTHEDL	"3*JOTHEADL" TOTAL LENGTH OF CLS Q HDS
484	(1E4)	ADDRESS	4	JOTRBLQI	JOE rebuild queue header
484	(1E4)	X'1C8'	0	JOTQUEL	"*-JOTQHEAD" Length of all JOE q headers
488	(1E8)	ADDRESS	4	JOTINEXQ	Queue of index JOEs. A JOE index
492	(1EC)	SIGNED	4		Reserved for future use
		Ensure JOT header size is exact multiple of JOE size. There cannot be anything between the next DC and JOTJOES.			
496	(1F0)	BITSTRING	1	(0)	
520	(208)	SIGNED	4	JOTJOES(0)	START OF JOB OUTPUT ELEMENTS
520	(208)	X'208'	0	JOTJOESO	"*-JOT" Offset of first real JOE
520	(208)	X'5'	0	JOTJOESI	"(*-JOT)/JOESIZE" Index of first real JOE
520	(208)	X'F4240'	0	JOTMXJOE_Z11	"1000000" Maximum number of JOEs for Z11 mode
520	(208)	X'2625A0'	0	JOTMXJOE	"2500000" Maximum number of JOEs for Z22 mode
520	(208)	X'4C48'	0	JOTFRJIX	"((JOTMXJOE+JOTJOESI)/x'200')*4" Local free JOE array size (see FREEJOE in HASPJOS for info)

Table 258. Cross Reference for $JOT

Name	Offset	Hex Tag
JOT	0	
JOTCHRQI	24	
JOTCLMU	8	
JOTCLSEN	C	
JOTCLSQI	34	
JOTCLSSZ	34	1B0
JOTFREC	4	
JOTFREQI	20	
JOTFRJIX	208	4C48
JOTHEADL	34	4
JOTHLDQI	2C	
JOTID	0	
JOTINEXQ	1E8	
JOTJOES	208	
JOTJOESI	208	5
JOTJOESO	208	208
JOTLQOFF	34	0
JOTMXJOE	208	2625A0
JOTMXJOE_Z11	208	F4240
JOTNTWQI	30	

Table 258. Cross Reference for $JOT (continued)

Name	Offset	Hex Tag
JOTNUMWQ	34	6D
JOTPRGQI	28	
JOTPRHDL	34	8
JOTQHEAD	20	
JOTQUEL	1E4	1C8
JOTRBLQI	1E4	
JOTRDWQI	30	
JOTRQOFF	34	8
JOTTHEDL	34	C
JOTUQOFF	34	4
JOTUSER1	10	
JOTUSER2	14	
JOTUSER3	18	
JOTUSER4	1C	

$JPAWORK information

$JPAWORK heading information

Common name: JES2 Job Priority Aging PCE Work Area

Macro ID: $JPAWORK

DSECT name: PCE ($JPAWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $PRTYPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by a JES2 Job Priority Aging Processor and by its support routines and exits. $JPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JPAWORK mapping

Table 259. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	12	JPATQE	HASP Timer Queue Element

Table 259. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
340	(154)	SIGNED	4		Reserved for future use
344	(158)	DBL WORD	8	(0)	Force double-word alignment
344	(158)	X'10'	0	JPAPCEWS	"*-PCEWORK" Length of work area

$JQE information

$JQE programming interface information

$JQE is a programming interface.

$JQE heading information

Common name: JES2 Job Queue Element

Macro ID: $JQE

DSECT name: JQE

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of JQEs is preceded by an eyecatcher '**JQE POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

Size: JQEBLEN (base length) + 4*((SPOLNUM+31)/32) (size of the SPOOLS used mask which is dependent on the number of SPOOL volumes; 4 bytes for every 32 spool volumes) $JQELEN in the $HCT data area is the total length.

Created by: Storage is obtained by HASPIRDA for the JES2 private version and by HASPCKVR for the data space versions. The control block is filled in by the $QADD service.

Pointed to by:

The following fields contain offsets (R4 level of the checkpoint) or indexes (z/OS 1.2 and later levels of the checkpoint) to $JQEs from the address in field $JOBQPTR in the $HCT data area. The offsets are converted to addresses by adding the value in $JOBQPTR to the offset. The indexes are converted to addresses by multiplying by $JQELEN and then adding the value in $JOBQPTR to the calculated offset.
CATQHDI field of the $CAT data area
$JQFREEI field of the $HCT data area
$JQHEADI field of the $HCT data area
$JQRBLDI field of the $HCT data area
JOEJQEI field of the $JOE data area
JQENEXTI field of the $JQE data area

The following fields contain offsets to $JQEs:
$NEWSJQE field of the $HCT data area
$SCQJQE field of the $HCT data area
IOTJQOFF field of the $IOT data area
JCTJQE field of the $JCT data area
PITJQOFF field of the $PIT data area
PSOJQEP field of the $PSO data area
QSEPRGJQ field of the $QSE data area
RATRMJQE field of the $RAT data area
SJBJQOFF field of the $SJB data area
TGBJQE field of the $TGB data area

The following fields contain addresses of $JQEs:
$JOBQPTR field of the $HCT data area
PCEJQE field of the $PCE data area

Various fields in the processor work areas and parameter lists contain offsets or addresses of JQEs.

Serialization:

The JES2 Checkpoint data set lock ($QSUSE), the job lock (in the JQE), and JQE1BUSY bits are used for serialization.
JQEs are managed by the $DOGJQE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to a JQE. With the exception of a few bits, you must obtain an update mode JQA before making any updates to a JQE. There are some fields that are managed by the $DOGJQE service and can be set without the BERT lock for the job. The fields/bits and restrictions are:
JQE8NJIX Set/reset in JQE or JQA
JQE8RBLD Set/reset in JQE or JQA
JQE8NOQ Set/reset in JQE or JQA
JQE1PURG Set in JQE or JQA, cannot turn off
JQE1OCAN Set in JQE or JQA, cannot turn off
JQE4CAN Set in JQE or JQA, cannot turn off
JQX1WLM Set/reset in real JQX only
JQX3JGCM Set in real JQX or JQA, cannot turn off
JQX3RJGR Set/reset in real JQX only

Function:

The job queue element is a control block that represents an element of work for the system (a job) and is moved from queue to queue as that work moves through each successive stage of JES2 processing.
The heads of the JES2 queues reside at $JQHEADI in the HCT. These queue heads are used when locating JQEs on a specific queue.
The JQEs are checkpointed control blocks. There are, therefore, at least two copies of each JQE in storage (the actual and I/O copies of the ckpt, in subpool 0). There may also 1 or more copies in the ckpt versions dataspace.

$JQE mapping

Table 260. Structure JQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQE	HASP JOB QUEUE ENTRY DSECT
0	(0)	X'0'	0	JQA	"JQE,0,C'J'" JQE is sometimes a JQA

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	JQEVRSN	"8" JQE control block version
0	(0)	X'0'	0	JQEBB1	"*" Begin of move block 1
0	(0)	SIGNED	1	JQEPRIO	JOB PRIORITY
1	(1)	BITSTRING	1	JQETYPE	LOGICAL QUEUE TYPE
		IF THE $XEQ BIT IS ON THEN THE JOB CAN BE IN OR AWAITING CONVERSION OR EXECUTION. THE JOB IS IN OR AWAITING CONVERSION IF THE $XEQ BIT IS ON AND THERE IS NO JOB CLASS DEFINED IN THE LOW ORDER SIX BITS. THE JOB IS AWAITING XEQ IF THERE IS A JOB CLASS DEFINED AND THE JOB IS NOT BUSY. IF THE JOB IS BUSY AND A CLASS IS DEFINED THEN THE JOB IS BUSY IN EXECUTION. If a new JQETYPE flag is added, then the $QJQE macro and $QINDEX must be updated for the queue type If the job is executing in an 8 character job class ($XEQ8CHR), $QINDEX is never used or updated and JQXJCLAS must be used as the actual class value.				
		.111 1111		$XEQCLAS	"X'7F'" CLASS OF JOB QUEUED FOR EXECUTION
		1...		$SPIN	"X'80'" SPIN QUEUE
		.1..		$XEQ	"X'40'" EXECUTION/CONVERSION QUEUE: - If low order six bits are zero, job is on the conversion queue. - If NOT $XEQ8CHR, the low order six bits define the job class and can be indexed into $QINDEX. - If $XEQ8CHR, JQXJCLAS must be used for the job class value and $QINDEX cannot be used.
		..1.		$INPUT	"X'20'" INPUT QUEUE
		...1		$XMIT	"X'10'" TRANSMISSION QUEUE
		.... 1...		$SETUP	"X'08'" SETUP QUEUE
		.... .1..		$RECEIVE	"X'04'" SYSOUT RECEIVER QUEUE
		.... ..1.		$OUTPUT	"X'02'" OUTPUT QUEUE
		1		$HARDCPY	"X'01'" OUTPUT IN-PROGRESS QUEUE
		....		$PURGE	"X'00'" PURGE QUEUE
		1111 1111		$FREE	"X'FF'" FREE QUEUE
1	(1)	X'41'	0	$XEQJOB1	"C'A'-(FF-$XEQCLAS)" OFFSET TO FIRST $QINDEX ENTRY FOR JOB XEQ CLASS QUEUES (JQETYPE)
		.1.1		$XEQSTC	"X'D0'-(FF-$XEQCLAS)" OFFSET TO THE $QINDEX ENTRY FOR STC XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATSTCCL, CATSTCID)
		.11.		$XEQTSU	"X'E0'-(FF-$XEQCLAS)" OFFSET TO THE $QINDEX ENTRY FOR TSU XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATTSUCL, CATTSUID)
		.11. 1.1.		$XEQ8CHR	"X'EA'-(FF-$XEQCLAS)" The job is running in an 8 char execution class. NOTES:- 8 Char job classes do NOT interact with $QINDEX! - Must use JQXJCLAS as the class value
1	(1)	X'79'	0	$XEQJOBL	"C'9'-(FF-$XEQCLAS)" Offset to Last $QINDEX entry for job XEQ class queues (JQETYPE)
2	(2)	BITSTRING	1	JQENENF	Id of member doing ENF78 or NOTIFY processing (if JQENENF is not 0, job cannot be purged)
3	(3)	BITSTRING	1	JQEFLAGB	FLAG BYTE

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JQEBRLST	"B'10000000'" Job is a dependent job in a SCHEDULE AFTER= release list (also see JQARELHD/JQARELNX).
		.1..		JQEBRLHD	"B'01000000'" Job is parent (head) job of a SCHEDULE AFTER= release list (also see JQARELHD/JQARELNX).
4	(4)	BITSTRING	1	JQEFLAG1	JOB QUEUE FLAGS
		1...		JQE1HLDA	"B'10000000'" HOLD ALL JOBS
		.1..		JQE1HLD1	"B'01000000'" HOLD SINGLE JOB
		..1.		JQE1HUNT	"B'00100000'" Hold for HOLDUNTL
		...1		JQE1HLDT	"B'00010000'" Pseudo flag indicating a job whose JQXDUP field is non-zero (not in CKPT- only used by prescan exit to display job status)
		...1		JQE1PURG	"B'00010000'" JOB IS TO BE PURGED
		.... 1...		JQE1OCAN	"B'00001000'" OPERATOR ISSUED $C OR $P JOB
		.... .1..		JQE1ARMR	"B'00000100'" The Automatic Restart Manager has registered the job. Hold it (JQE1ARMH) when it ends execution.
		.... ..1.		JQE1ARMH	"B'00000010'" The job is held awaiting a restart decision by the Automatic Restart Manager
		1		JQE1ARME	"B'00000001'" $E the job if ARM does not restart it
4	(4)	X'4'	0	JQEEB1	"*-1" End of first move block
4	(4)	X'0'	0	JQESB1	"JQEBB1,JQEEB1-JQEBB1+1,C'X'" Size of 1st block
5	(5)	ADDRESS	3	JQENEXTI	Next JQE index
5	(5)	X'8'	0	JQEBB2	"*" Begin of 2nd move block
8	(8)	BITSTRING	1	JQEFLAG2	MORE JOB QUEUE FLAGS
		1...		JQE2IND	"B'10000000'" JOB HAS INDEPENDENT MODE AFFINITY
		.1..		JQE2REST	"B'01000000'" JOB has been restarted
		..1.		JQE2STAR	"B'00100000'" JOB to be started by $S J
		...1		JQE2PEOM	"B'00010000'" JOB pending EOM subtask
		.... 1...		JQE2UNTL	"B'00001000'" HOLDUNTL specified (see JQAUNTL)
		.... .1..		JQE2STBY	"B'00000100'" STARTBY specified (see JQASTBY)
		.... ..1.		JQE2ZAP	"B'00000010'" JQE zapped (ZAPJOB)
		1		JQE2ART	"B'00000001'" This is artificial JQE
8	(8)	X'8'	0	JQEEB2	"*-1" End of 2nd move block
8	(8)	X'8'	0	JQESB2	"JQEBB2,JQEEB2-JQEBB2+1,C'X'" Size of 2nd block
9	(9)	ADDRESS	3	JQEJOEI	First WORK-JOE for this JQE (index)
9	(9)	X'C'	0	JQEBB3	"*" Begin of 3rd move block
12	(C)	BITSTRING	1	JQEFLAG3	SOME MORE JOB QUEUE FLAGS
		11		JQE3JOB	"B'00000011'" BATCH JOB TYPE (WHEN BITS ZERO)
		1		JQE3STC	"B'00000001'" STC JOB TYPE
		.... ..1.		JQE3TSU	"B'00000010'" TSU JOB TYPE

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JQE3XMIT	"B'00000100'" JOB DESTINED FOR ANOTHER NODE XMIT OR INTERMEDIATE NODE JOB
		.... 1...		JQE3TMOD	"B'00001000'" JOB IS BEING PROCESSED BY $TO OR $R
		1...		JQE3MVRQ	"B'10000000'" MOVE JOB FOR SPOOL COMMANDS
		.1..		JQE3UNSP	"B'01000000'" JOB HAS UNSPUN SPIN IOTS
		..1.		JQE3NDMP_Z11	"B'00100000'" NON SELECTABLE BY DUMPER z/1.11 ckpt mode & below
JQE3NDMP B'00100000' moved to JQEANDMP in z/2.2 ckpt mode					
		..1.		JQE3DFJG	"B'00100000'" Job represents a JOBGROUP that is being defined z/2.2 ckpt mode & above
		...1		JQE3SYSD	"B'00010000'" JQE REPRESENTS SYSTEM DATA SET, IMPLIES JQETRAK POINTS TO IOT
13	(D)	CHARACTER	1	JQEJCLAS	JOB CLASS
14	(E)	BITSTRING	1	JQEFLAGA	FLAG BYTE
		1...		JQEAFLSH	"B'10000000'" Job has been flushed
		..1.		JQEANDMP	"B'00100000'" Non-selectable by DUMPER
		...1		JQEADLY	"B'00010000'" Job is delayed due to a dynamic dependency (SCHEDULE DELAY=YES and/or SCHEDULE AFTER= was specified).
		.... 1...		JQEANET	"B'00001000'" Job is involved in a / NET dependency network.
		.... .1..		JQEADUBY	"B'00000100'" Dubious NJE job
		.... ..1.		JQEAESSM	"B'00000010'" Job submitted via emergency subsystem
		1		JQEAXARV	"B'00000001'" Job has entered into Post-Execution State
JQEZGLM is an id of a member performing logging for this jobgroup. This field is only valid when JQE3DFJG is set. JQEZGLM = FF means that logging for this jobgroup failed. If JQEZGLM is not 0 or FF, JQE cannot be purged.					
15	(F)	BITSTRING	1	JQEZGLM	Logging member id
16	(10)	BITSTRING	4	JQEJBKEY	JOB IDENTIFER KEY
20	(14)	BITSTRING	4	JQETRAK	TRACK ADDRESS OF JCT OR IOT TRACK ADDRESS IF JQE3SYSD
24	(18)	SIGNED	2	JQEINPND	INPUT NODE (BINARY)
26	(1A)	SIGNED	2	JQEXEQND	EXECUTION NODE (BINARY)
28	(1C)	SIGNED	4	(0)	FORCE ALIGNMENT
28	(1C)	BITSTRING	1	JQEFLAG4	More job queue flags
		1...		JQE4CAN	"B'10000000'" FORCE SELECT WHEN VOL INACTIVE
		.1..		JQE4NEWS	"B'01000000'" JOB IS JES2NEWS.
		..1.		JQE4SPHA	"B'00100000'" SPOF HOLD ALL JOBS REQUIRED AFTER AUTH CHECK IN CNVT PROCESSOR

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JQE4SPOF	"B'00010000'" JQE HELD BY SYSOUT RECEIVER OR JOB RECEIVER
		.... 1...		JQE4MOLD	"B'00001000'" OLD (ORIGINAL) JOB FOR SPL MOVE
		.... .1..		JQE4MNEW	"B'00000100'" NEWLY CREATED JOB FROM SPL MOVE
		.... ..1.		JQE4TWOJ	"B'00000010'" TWO JOBCARDS FOR JOB XMIT
		1		JQE4JCLH	"B'00000001'" TYPRUN=JCLHOLD, HOLD REQUIRED AFTER AUTH CHK IN CNVT PROCESSOR
29	(1D)	ADDRESS	3	JQEDEVID	Device Identify (DCTDEVID)
32	(20)	BITSTRING	1	JQEARMMI	Member ID on which a job is registered by ARM
33	(21)	BITSTRING	1	JQERESVD	Formerly JQEWSLCK
34	(22)	BITSTRING	1	JQEBUSY	JQE busy system id
35	(23)	BITSTRING	1	JQEJLOK	Job lock busy system id
36	(24)	CHARACTER	8	JQEJNAME	JOB NAME FROM JOB CARD
44	(2C)	CHARACTER	8	JQEUSRID	USERID OF JOB OWNER
52	(34)	CHARACTER	8	JQESECLB	SECURITY LABEL OF JOB
		JQEJOEID is the current JOE identifier used when building JOEs for this job unless this is JESNEWS. For an active JESNEWS job this is the count of active users of this instance of JESNEWS			
60	(3C)	SIGNED	4	JQENWUSE(0)	News use count
60	(3C)	SIGNED	4	JQEJOEID	Current JOE id number (unless this is JESNEWS)
64	(40)	BITSTRING	1	JQEFLAG5	FLAG BYTE
		1...		JQE5XUSD	"B'10000000'" USING EXTENSION FOR TG COUNT
		.1..		JQE5NSL	"B'01000000'" JOB REJECTED BY SELECTIVE LOAD
		..1.		JQE5NUNK	"B'00100000'" Job tkn is NJE unknwn user
		...1		JQE5NOTF	"B'00010000'" NOTIFY PROCESSING COMPLETE
		.... 1...		JQE5EOM	"B'00001000'" Job terminated at end of memory
		.... .1..		JQE5RUNS	"B'00000100'" Job has new unspun work
		.... ..1.		JQE5PUPS	"B'00000010'" Job may have unprocessed spin output (Flag only valid before unspun processing starts)
		1		JQE5INPL	"B'00000001'" Job went through input processing on local node
65	(41)	BITSTRING	1	JQEOFFSL	OFFLOAD SELECT BYTE
		The total number of trackgroups allocated to a given JQE is in two pieces. One piece is in the JQX (JQXTGWRP) and the other piece is in the JQE (if JQE5XUSD is off) or in the JQT (if JQE5XUSD is on.) The one byte value in the JQX is the number of multiples of X'8000' trackgroups that the JQE owns. The value in the second piece is the number of trackgroups owned above the multiple of X'8000'. If JQE5XUSD is on, then JQETGNBR is the index of the JQT entry which holds the two byte value.			

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
66	(42)	SIGNED	2	JQETGNBR	See above
68	(44)	BITSTRING	1	JQEFLAG6	FLAG BYTE
		EQU B'10000000' Obsolete (JQE6DUPC in			
		.1..		JQE6PRG	"B'01000000'" Purge auditing required
		..1.		JQE6TGAE	"B'00100000'" TG counter has overflowed
		B'00010000' This bit used in 5.1 (cannot use in 5.2)			
		.... 1...		JQE6HOPR	"B'00001000'" Reset NJE hop count when retransmitting job
		.... .1..		JQE6PRT	"B'00000100'" Priority change by $T
		.... ..1.		JQE6PRAG	"B'00000010'" Priority change by aging
		1		JQE6NCSA	"B'00000001'" Job has no more CSA IOTs (only valid after job has completed execution)
69	(45)	BITSTRING	1	JQEFLAG7	FLAG BYTE
		1...		JQE7PROT	"B'10000000'" Job's output is protected
		.1..		JQE7TP	"B'01000000'" Transaction initiator
		..1.		JQE7INIT	"B'00100000'" Batch initiator
		...1		JQE7IOTE	"B'00010000'" IOT error
		.... 1...		JQE7SPIN	"B'00001000'" Spin IOTs outstanding
		.... .1..		JQE7SPOT	"B'00000100'" Spin output produced
		.... ..1.		JQE7RJI	"B'00000010'" Request job id indicator
		1		JQE7SYSL	"B'00000001'" SYSLOG indicator
70	(46)	BITSTRING	1	JQEFLAG8	FLAG BYTE
		1...		JQE8HLDS	"B'10000000'" JOB HAS HELD 3540 DATA SET
		.1..		JQE8DUPL	"B'01000000'" Job has been held at least once for duplicate job name
		..1.		JQE8CNWT	"B'00100000'" Job must convert on a PCE that can wait for OS CNVT
		...1		JQE8BOUT	"B'00010000'" Use abnormal outdisp
		.... 1...		JQE8OPCD	"B'00001000'" Job cancelled by oper with dump
		.... .1..		JQE8NJIX	"B'00000100'" Job is not in JIX
		.... ..1.		JQE8RBLD	"B'00000010'" Job is on Rebuild Queue
		1		JQE8NOQ	"B'00000001'" Job is not on a queue
		The use of JQEFLAG9 should be reserved for use by the job command processor only.			
71	(47)	BITSTRING	1	JQEFLAG9	FLAG BYTE - JCMD processor
		1...		JQE9$E	"B'10000000'" Mark JQE for Restart
		.1..		JQE9$C	"B'01000000'" Cancel the JQE
		.11.		JQE9$CD	"B'01100000'" Cancel JQE with dump
		.1.1		JQE9$CAR	"B'01010000'" Cancel JQE with ARM restart

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		EQU B'00001000' Was JQE2$SPN			
		.... .1..		JQE9$TSC	"B'00000100'" Reset the service class
		.... ..1.		JQE9$FRC	"B'00000010'" Cancel JQE with FORCE
		1		JQE9$EVC	"B'00000001'" Evict this job
		..1. ...1		JQE9$EVH	"B'00100001'" Evict job with HOLD
72	(48)	SIGNED	4	JQEJBNUM	HASP job number
		The following default route fields should only be used for command/console authorization purposes. They initially match the JCT fields when a job is created, but are not complete in that only one of the userid valids is in the JQE. They are not used in any dataset destination resolution (the JCT fields are used), and apply (for compatibility) only to console operator job ownership.			
76	(4C)	SIGNED	4	JQEDRPRT	Default print routing, initially same as JCTPROUT
80	(50)	CHARACTER	8	JQEDRPRU	Default print routing user for SDSF compatibility
88	(58)	SIGNED	4	JQEDRPUN	Default punch routing, initially same as JCTPUOUT
88	(58)	X'0'	0	JQEDRNO	"0,2,C'H'" Offset of node in route
88	(58)	X'2'	0	JQEDRRO	"2,2,C'H'" Offset of rmt in route
92	(5C)	BITSTRING	4	JQESAF	Full system affinity mask
96	(60)	SIGNED	4	(0)	INSURE FULL-WORD BOUNDARY
96	(60)	X'60'	0	JQEEB3	"*" End of 3rd move block
96	(60)	X'C'	0	JQESB3	"JQEBB3,JQEEB3-JQEBB3,C'X'" Size of 3rd block
96	(60)	X'60'	0	JQEBEND	"*" End of base JQE
96	(60)	X'60'	0	JQEBLEN	"*-JQE" LENGTH OF BASE JOB QUEUE ENTRY
96	(60)	SIGNED	4	JQESUMSK(0)	START OF SPOOLS-USED MASK, VARIABLE LEN (NUMBER OF BITS=SPOOLNUM), LEN IS MULTIPLE OF FOUR BYTES
96	(60)	BITSTRING	1	JQASUMSK	Max spools used mask
		The following fields appear only within an artificial JQE. Artificial JQEs are constructed using the $DOGJQE service.			
128	(80)	SIGNED	4	JQX(0)	Beginning of JQX
128	(80)	X'8'	0	JQXVRZ2	"8" JQX control block version for z/OS version 1.2 checkpoint mode.
128	(80)	X'9'	0	JQXVRZ11	"9" JQX control block version for z/OS version 1.11 checkpoint mode.
128	(80)	X'80'	0	JQXBB1	"*" Begin of 1st move block
128	(80)	SIGNED	4	JQXRECCT	Pre-execution record count
		JQX maximum completion code information, by design, matches the mapping in the network job trailer. Consult NJE Formats and Protocols before adding a new type.			
132	(84)	BITSTRING	4	JQXMAXRC(0)	--+ Maximum Job Return Code
132	(84)	BITSTRING	1	JQXMXIND	| Job completion indicator
		1...		JQXMXAB	"X'80'" | Abend code exists

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JQXMXCDE	"X'40'" | Condition code exists
		..1.		JQXMXJRC	"X'20'" | Code from JOBRC request
132	(84)	X'E0'	0	JQXMXCDS	"JQXMXAB+JQXMXCDE+JQXMXJRC" List of all codes
132	(84)	X'0'	0	JQXMXUNK	"0" | No completion info
132	(84)	X'1'	0	JQXMXNRM	"1" | Job ended normally +
132	(84)	X'2'	0	JQXMXCC	"2" | Job ended by CC +
132	(84)	X'3'	0	JQXMXJCL	"3" | Job had a JCL error
132	(84)	X'4'	0	JQXMXCAN	"4" | Job was canceled
132	(84)	X'5'	0	JQXMXABN	"5" | Job ABENDed +
132	(84)	X'6'	0	JQXMXCAB	"6" | Converter ABENDed
132	(84)	X'7'	0	JQXMXSEC	"7" | Security error
132	(84)	X'8'	0	JQXMXEOM	"8" | Job failed in EOM +
132	(84)	X'9'	0	JQXMXCNV	"9" | Converter error
132	(84)	X'A'	0	JQXMXSYS	"10" | System failure
132	(84)	X'B'	0	JQXMXFLU	"11" | Job has been flushed
133	(85)	BITSTRING	3	JQXMAXCC	--+ Completion code (set for '+' conditions)
136	(88)	BITSTRING	4	JQXBERTT	Token representing the BERTS for this JQE
140	(8C)	BITSTRING	4	JQXCRTME	JQE creation time
140	(8C)	X'90'	0	JQXEB1	"*" End of 1st move block
140	(8C)	X'80'	0	JQXSB1	"JQXBB1,JQXEB1-JQXBB1,C'X'" Size of 1st block
144	(90)	SIGNED	4	JQXWSNXT	Index of next JQE on WSC Q
148	(94)	SIGNED	4	JQXWSPRV	Index of prev JQE on WSC Q
148	(94)	X'98'	0	JQXBB2	"*" Begin of 2nd move block
152	(98)	CHARACTER	8	JQXJCLAS	Job class
The JQX1WLM flag has special case code in $DOGJQE. This flag should be modified using the real JQX. The other flags in JQXFLAG1 should be modified using the JQA.					
160	(A0)	BITSTRING	1	JQXFLAG1	Flags
		1...		JQX1TSRV	"B'10000000'" SRVCLASS has been $Ted to a non-null value
		.1..		JQX1WLM	"B'01000000'" Job on WLM queue
		..1.		JQX1CTKN	"B'00100000'" Job has data set(s) for which DYNALLOC returned a client token
		...1		JQX1DFQ	"B'00010000'" Job pending WLM requeue
		.... 1...		JQX1LSPN	"B'00001000'" Job went thru unspun in its lifetime
		.... .1..		JQX1XWTR	"B'00000100'" At least one JOE purged due to external device
		.... ..1.		JQX1BSPL	"B'00000010'" CBIMPL4 dump processing has occurred
		1		JQX1AWFL	"B'00000001'" Job ended badly (EOM or busy @ system crash)
161	(A1)	SIGNED	1	JQXTGWRP	Number of times JQETGNBR wrapped over 7FFF
162	(A2)	BITSTRING	1	JQXFLAG2	More flags

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JQX2CKLG	"B'10000000'" If on - then associated logging job must be checked for - in midst conversion or on conversion queue. Logging job must convert before associated job(s)
		.1..		JQX2TPAR	"B'01000000'" Invalid hold time, one paranoia check was hit
		..1.		JQX2UCOR	"B'00100000'" User portion of Job Correlator set
		...1		JQX2JNOT	"B'00010000'" Job notification data set (SYS_JOB_NOTIFY symbol)
		.... 1...		JQX2NENF	"B'00001000'" Indicates ENF78 or NOTIFY processing
		.... .1..		JQX2MAXR	"B'00000100'" JQXMAXRC has been set
		.... ..1.		JQX2ASYM	"B'00000010'" Job req alternate system symbol table
		1		JQX2SYMT	"B'00000001'" Job symbol table CB exist
163	(A3)	BITSTRING	1	JQXFLAG3	More flags
		1...		JQX3CVSY	"B'10000000'" Job has symbols to be passed to converter
		.1..		JQX3INST	"B'01000000'" Job has datasets with symbol substitution
		..1.		JQX3JBGR	"B'00100000'" Job is a logging job for JOBGROUP (mutually exclusive with JQX3RJGR)
		...1		JQX3RJGR	"B'00010000'" This job is registered to the JQXZNAME job group (mutually exclusive with JQX3JBGR). This bit is managed by the REGISTER_JOB method in HASCJZDN and SHOULD NOT be set or reset outside of this method!
		.... 1...		JQX3JLSP	"B'00001000'" Jobgroup logging is being stopped
		.... .1..		JQX3JGCS	"B'00000100'" This job is part of a concurrent set of jobs in a job group. (the JQX3RJGR bit will also be on).
		.... ..1.		JQX3JGCM	"B'00000010'" This is the 'master job' in a concurrent set of jobs in a job group. (the JQX3JGCS and JQX3RJGR bits will also be on).
		1		JQX3NFDT	"B'00000001'" Job has associated NOTIFY statement data
164	(A4)	SIGNED	4	JQXNWSID(0)	JESNEWS id
164	(A4)	SIGNED	4	JQXIJNUM	Initial job number
164	(A4)	X'A8'	0	JQXEB2	"*" End of 2nd move block
164	(A4)	X'98'	0	JQXSB2	"JQXBB2,JQXEB2-JQXBB2,C'X'" Size of 2nd block
		JQXDUP is managed without JQAs. This field will be modified only by the DUPJOB service routine and by queue rebuild.			
168	(A8)	SIGNED	4	JQXDUP	Index of next duplicate job zero ==> not duplicate -1 ==> last JQE in dup chn
168	(A8)	X'AC'	0	JQXBB3	"*" Begin of 3rd move block
172	(AC)	BITSTRING	1	JQXCAFF	Composite member affinity

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
172	(AC)	X'AC'	0	JQXPXARV	"JQXCAFF,L'JQXCAFF,C'F'" TOD when job entered post-execution
176	(B0)	BITSTRING	4	JQXIT141	Reserved for Exit 14
180	(B4)	BITSTRING	4	JQXIT142	Reserved for Exit 14
180	(B4)	X'B8'	0	JQXEB3	"*" End of 3rd move block
180	(B4)	X'AC'	0	JQXSB3	"JQXBB3,JQXEB3-JQXBB3,C'X'" Size of 3rd block
		JQXJNUMQ is used to make JIX processing faster. By having this value in the real JQX, the real JQE does not need to be obtained to do job number comparisons in $QLOC. Note: JQXJNUMQ is not included in the JQA since it is only useful for chaining (along with field JQXNJIXI).			
184	(B8)	BITSTRING	1	JQXJNUMQ	The quotient of the JQE job number divided by 64K
185	(B9)	ADDRESS	3	JQXNJIXI	Index of next JQE/JQX on the JIX chain
188	(BC)	SIGNED	4	JQXBSEND(0)	End of base section
188	(BC)	X'3C'	0	JQXLEN_Z2	"*-JQX" Length of checkpointed z/OS 1.2 mode JQX.
188	(BC)	BITSTRING	1		Reserved for future use.
		NOTE: JQXJQEBI is not included in the JQA since it is only useful for chaining.			
189	(BD)	ADDRESS	3	JQXJQEBI	JQE back chain index
189	(BD)	X'C0'	0	JQXBB4	"*" Begin of 4th move block
192	(C0)	SIGNED	4	JQXRDRON	Time on input processor
196	(C4)	SIGNED	4	JQXRDTON	Date on input processor
200	(C8)	BITSTRING	1	JQXRDMBR	Input member id
201	(C9)	CHARACTER	8	JQXZNAME	Associated Job Group (ZOD) name. Set when a job is registered to a jobgroup (bit JQX3RJGR is set) or this is a logging job for a jobgroup (bit JQX3JBGR is set).
205	(CD)	CHARACTER	4	JQXWNAME	Associated DJC work area containing one / NET STMT for a DJC job -- at input processing time.
209	(D1)	BITSTRING	1	JQX#BRTS	Number of BERTs used for this JQE
210	(D2)	BITSTRING	3	JQX#JOES	Number of JOEs for this job
213	(D5)	BITSTRING	3	JQX#JBRT	Number of BERTs used for this job's JOEs
216	(D8)	SIGNED	4	JQXZJCIX	Index of associated job group object (ZJC) : - This is a 'ZOD' object index if this job is a logging job for a jobgroup (bit JQX3JBGR is set). - This is a 'ZJI' object index if this job is registered to a jobgroup (bit JQX3RJGR is set).
216	(D8)	X'DC'	0	JQXEB4	"*" End of 4th move block
216	(D8)	X'C0'	0	JQXSB4	"JQXBB4,JQXEB4-JQXBB4,C'X'" Size of 4th block
216	(D8)	X'DC'	0	JQXEXEND	"*" End of z/OS 1.11 mode JQX and JQX section of the external JQA.
216	(D8)	X'5C'	0	JQXSIZE	"*-JQX" Size of JQX

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	X'5C'	0	JQXZ11LN	"*-JQX" Length of checkpointed z/OS 1.11 mode JQX and JQX section of the external JQA.
		The following fields are pseudo fields. They are artificially constructed from other fields in the JQE/JQX/BERT-backed fields. There are no $BERTTABs defining these fields, so DOGBERT does not know of their existence. The field names begin with JQP for Job Queue Pseudo JQPTGNBR field is constructed from the two fields JQETGNBR and JQXTGWRP. This pseudo field should be used as an input field only. Any updates made to it will not be reflected back into the JQE/JQX or the JQT.			
220	(DC)	SIGNED	4	JQPTGNBR	Track groups
224	(E0)	SIGNED	2	JQPNHOLD	If job is associated with a DJC then this is the associated NHOLD value obtained from related ZJI.
226	(E2)	SIGNED	2	JQPNHSAV	Saved JQPNHOLD value described above. Used to determine if value changed. DO NOT CHANGE!!!
228	(E4)	BITSTRING	1	JQPFLAG1	Parameter flag byte
		1...		JQP1REQ	"B'10000000'" Job is being re-queued
		.1..		JQP1EVIC	"B'01000000'" EJOB,STEP requeued job
229	(E5)	BITSTRING	3	JQPGRID	Job group logging number extracted from SCHEDULE JOBGROUP parm
		End of Pseudo fields BERT resident data sections			
232	(E8)	SIGNED	4	JQABERT(0)	Begin BERT resident data
232	(E8)	BITSTRING	148	JQAACCT	Job accounting information
380	(17C)	SIGNED	4	JQAXEQ(0)	Start of XEQ section of JQE
380	(17C)	CHARACTER	3	JQAPERF	Performance group
383	(17F)	BITSTRING	1	JQAFLAG1	Flags
		1...		JQA1EHLD	"B'10000000'" Job was held by the end user via TYPRUN=HOLD or SETUP or HOLDUNTL
		.1..		JQA1JCLH	"B'01000000'" Job held for JCLHOLD
		..1.		JQA1THLD	"B'00100000'" Hold start time in JQATIMER
		...1		JQA1TSCH	"B'00010000'" SCHENV start time in JQATIMER
		.... 1...		JQA1DUPJ	"B'00001000'" Possible duplicate jobname exists
		.... ..1.		JQA1TBAD	"B'00000010'" Hold/SCHENV timers should not be maintained
		1		JQA1SPIN	"B'00000001'" JESLOG is spinable
384	(180)	BITSTRING	4	JQASTOK	Service class token
388	(184)	CHARACTER	8	JQAWSCN	Service Class Queue Name
396	(18C)	SIGNED	4	JQARRIV	Time job arrived in XEQ Q
400	(190)	SIGNED	4	JQAQTIME	Time job entered current execution queue
404	(194)	BITSTRING	2	JQASID	ASID where executing
406	(196)	BITSTRING	4	JQASCHAF	Affinity mask of systems where scheduling environ is available
410	(19A)	BITSTRING	1	JQASTARM	Member on which $S J is to occur.

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
411	(19B)	BITSTRING	1		Reserved (alignment)
412	(19C)	SIGNED	4	JQARHLD	Duration when job held
416	(1A0)	SIGNED	4	JQARRSC	Duration when SCHENV not available
420	(1A4)	SIGNED	4	JQARTOC	Conversion time
424	(1A8)	SIGNED	4	JQATIMER	STCK value when hold or SCHENV timer last started
428	(1AC)	SIGNED	4	JQAUTIME	STCK value when JQARHLD last updated
432	(1B0)	BITSTRING	1	JQAFLAG2	Flags
		1...		JQA2SCHE	"B'10000000'" SCHENV is a default
		.1..		JQA2SINV	"B'01000000'" SCHENV (JQASCHE) no longer valid
		..1.		JQA2TSCH	"B'00100000'" SCHENV has been $Ted to a non-null value
		...1		JQA2DUPJ	"B'00010000'" JQADUPTM has been primed
		.... 1...		JQA2TFUD	"B'00001000'" Hold/SCHENV timers were off by less than fudge factor (See CLOCCHKR)
		.... .1..		JQA2WIN	"B'00000100'" WINIT selected job
433	(1B1)	BITSTRING	3		Reserved for future use
433	(1B1)	X'38'	0	JQAXEQL	"*-JQAXEQ" Length of XEQ section
This BERT resident data defines the batch execution section.					
436	(1B4)	SIGNED	4	JQAXBAT(0)	Start of batch execution section
436	(1B4)	SIGNED	4	JQAXSRMT	SRM Token from classify
440	(1B8)	SIGNED	4	JQAMINLV	Min BCP level for CNVT/XEQ
444	(1BC)	BITSTRING	6	JQAUNTL	HOLDUNTL timestamp in ETOD format
450	(1C2)	BITSTRING	6	JQASTBY	STARTBY timestamp in ETOD format
456	(1C8)	BITSTRING	1	JQAFLAG3	More flags:
		1...		JQA3UNTU	"B'10000000'" JQAUNTL time is UTC (OFF - time is local on member JQXRDMBR)
		.1..		JQA3STBU	"B'01000000'" JQASTBY time is UTC (OFF - time is local on member JQXRDMBR)
		..1.		JQA3UNTG	"B'00100000'" JQAUNTL time granularity ON = seconds OFF = minutes
457	(1C9)	SIGNED	1	JQAQGRSN	Reason for QGET rejection
457	(1C9)	X'1'	0	JQAQGDUP	"1" Duplicate jobname
457	(1C9)	X'2'	0	JQAQGCAT	"2" CAT not usable (see JQAQGCWR)
457	(1C9)	X'3'	0	JQAQGWLM	"3" Service class block (see JQAQGCWR)
457	(1C9)	X'4'	0	JQAQGX49	"4" Exit 49 rejected
458	(1CA)	SIGNED	1	JQAQGCWR	Reason QGET got CAT or WLM rejection
CAT reasons					
458	(1CA)	X'4'	0	JQAQGCHO	"4" CAT held
458	(1CA)	X'8'	0	JQAQGCJX	"8" JESPLEX max exceeded
458	(1CA)	X'C'	0	JQAQGCMX	"12" Member max exceeded

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
458	(1CA)	X'10'	0	JQAQGCQF	"16" QAFF mismatch
WSC reasons					
458	(1CA)	X'4'	0	JQAQGWAC	"4" WSCSELCT reject
458	(1CA)	X'8'	0	JQAQGWMF	"8" Multi Affinity limit
458	(1CA)	X'C'	0	JQAQGWST	"12" Stolen count limit
459	(1CB)	BITSTRING	1		Reserved for future use
JQARRAJ is an arrival time adjustment value for the purposes of sorting service class queues. JQEs on service class queues are sorted in the order of (JQARRIV-JQARRAJ).					
460	(1CC)	SIGNED	4	JQARRAJ	Arrival time adjustment
464	(1D0)	CHARACTER	8	JQAWITH	Job name on WITH=
464	(1D0)	X'24'	0	JQAXBATL	"*-JQAXBAT" Length of section
472	(1D8)	CHARACTER	16	JQASCHE	Scheduling environment
488	(1E8)	BITSTRING	4	JQASCLAF	Affinity mask of systems where SECLABEL is active
492	(1EC)	BITSTRING	4	JQAUNSPN	MTTR of UNSPUN IOT (0 if multiple or unknown)
496	(1F0)	SIGNED	4	JQADUPTM	Accumulated TOD units when job held for duplicate jobname
This section is only defined for MVS SYSLOG jobs					
500	(1F4)	CHARACTER	8	JQASYSLN	MVS system name for SYSLOG job
508	(1FC)	SIGNED	4	JQASYSLC	Index of next SYSLOG JQE
508	(1FC)	X'1F4'	0	JQASYSLG	"JQASYSLN,*-JQASYSLN" Section definition field
This BERT resident data section is only available when the job has JES2 symbol SYS_CORR_USRDATA defined.					
512	(200)	CHARACTER	32	JQAUCOR	User data portion of Job Correlator
This section is only defined when the job is involved in a / NET dependency network or a very rare scenario for normal JEC job group. See field JQALGNUM. NOTE: - The fields below are propagated as follows: o JDNNHOLD --> JQAOHOLD --> ZJICHOLD o JDNRELID --> JQARELID --> ZJIRELID o JDNRELJB --> JQARELJB --> ZJIRELJB o JDNNORMA --> JQANORMA --> N/A o JDNABNOR --> JQAABNOR --> N/A o JDNABCMP --> JQAABCMP --> N/A o JDNNRCMP --> JQANRCMP --> N/A o JDNPHOLD --> JQAPHOLD --> N/A See $ZJC for full field definitions.					
544	(220)	SIGNED	2	JQAOHOLD	Original NHOLD=N value. N = The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card. (See JDNNHOLD in $ZJC)
546	(222)	CHARACTER	8	JQARELID	NETID value from : NETREL=(NETID,.....) (See JDNRELID in $ZJC)
550	(226)	CHARACTER	4	JQALGNUM	If JQX2CKLG -> on - then this is the job number of the associated logging job

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
554	(22A)	CHARACTER	8	JQARELJB	JOBNAME value from : NETREL=(.....,JOBNAME) (See JDNRELJB in $ZJC)
562	(232)	BITSTRING	1	JQANORMA	NORMAL=(D,F or R) (See JDNNORMA in $ZJC)
563	(233)	BITSTRING	1	JQAABNOR	ABNORMAL=(D,F or R) (See JDNABNOR in $ZJC)
564	(234)	BITSTRING	1	JQAABCMP	ABCMP=(KEEP or NOKP) (See JDNABCMP in $ZJC)
565	(235)	BITSTRING	1	JQANRCMP	NRCMP=(HOLD,NOHO or FLSH) (See JDNNRCMP in $ZJC)
566	(236)	BITSTRING	1	JQAPHOLD	OPHOLD=(NO or YES) (See JDNPHOLD in $ZJC)
566	(236)	X'220'	0	JQANETFL	"JQAOHOLD,*-JQAOHOLD" Section definition field

```
This section is only valid when the job is
involved in a "dynamic dependency" ( that is, a
BEFORE=, AFTER=. or DELAY= was specified via the
SCHEDULE= statement ).
- EXAMPLE : o JOB_A SCHEDULE BEFORE=JOB_B
               - JOB_A ---> JOB_B
               - JQEJNAME = JOB_A
               - JQANXTJB = JOB_B
- EXAMPLE : o JOB_A SCHEDULE AFTER=JOB_B
               - JOB_B ---> JOB_A
               - JQEJNAME = JOB_A
               - JQAPRVJB = JOB_B
It is important to note that each job initially
only knows about it's BEFORE= and AFTER= job name.
There is no 'JOBGROUP-like' structure that knows
about the entire network. This means that job
queue scans are always needed to locate the
associated BEFORE= and AFTER= jobs. These scans
make this function very inefficient when compared
to JOBGROUPs!
o AFTER= background information :
  - When a job with an AFTER= attempts to release
    itself (via $QGET), it needs ensure that it's
    AFTER= parent job is complete as well as ALL
    other jobs that have BEFORE= defined to the job.
    o For instance : JOB_1 JOB_2 JOB_3
                     (BEFORE= (BEFORE= /
                      JOB_4) JOB_4) /
                            \ | /
                             \ | /
                              \ | /
                               JOB_4
                              (AFTER=
                               JOB_3)
    In this example, JOB_1, JOB_2, and JOB_3 must
    be complete before JOB_4 can be released.
    o Jobs with BEFORE= (JOB_1 and JOB_2) will
      trigger a release attempt on JOB_4 when they
      complete (via $QMOD).
    o Jobs with an AFTER= parent (JOB_4) have no
      'job completion trigger'. Instead, a release
      attempt is initially triggered by $QGET.
      In our example above, we have no idea when
      JOB_3 will complete becasue JOB_3 initially
      knows nothing about JOB_4.
o JQA4PARL (Parent will release) bit discussion :
```

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
          - As can be seen, AFTER= can be problematic. For
            instance, if the release attempt of JOB_4 is
            initially unsuccessful, we would have to keep
            retrying the release until JOB_3 completes (an
            obvious CPU killer). We need way to 'push'
            the trigger point to parent job completion.
            To accomplish this we introduce JQA4PARL..a bit
            that indicates 'a parent job will release me'.
            If this bit is set in a dependent job (JOB_4),
            $QGET will not select it again. Instead all
            release attempts will be triggered by parent
            job completion (via $QMOD).
            JQA4PARL can be set during a release attempt
            in two ways :
            o If a dependent job is added to an uncompleted
              AFTER= parent job's release list ( see
              release list discussion below ). Note that
              we always visit the AFTER= parent job first.
              In our example, we would add the dependent
              job (JOB_4) into the release list of the
              parent job (JOB_3) and turn JQA4PARL on in
              the dependent job (JOB_4).
            o If an uncompleted parent job has BEFORE= the
              dependent job (JOB_1 and JOB_2 in example).
        o Parent job release list ( JQARELHD/JQARELNX )
          discussion :
          - A JQE list that tracks dependent AFTER= jobs
            that need to be released when a parent job
            completes.
            o For instance : JOB_1
                                      / | \
                                     / | \
                                    / | \
                             JOB_2 JOB_3 JOB_4
                            (AFTER= (AFTER= (AFTER=
                             JOB_1) JOB_1) JOB_1)
              Assuming JOB_1 has not completed before all
              dependent AFTER= jobs (JOB_2, JOB_3, JOB_4)
              make an initial release attempt, JOB1's
              release list chain would look like :
                  JOB_1
                  +------------+ NOTES :
               +----JQARELHD | -------
               | | JQARELNX=0 | o JOB_1 is the 'queue
               | +------------+ head' job.
               +->JOB_2 o We are always able
                  +------------+ to get the parent
```

```
                  | JQARELHD=0 | JQE address by using
               +----JQARELNX | the AFTER= parent
               | +------------+ job# we have stashed
               | in field JQAPRVJN.
               +->JOB_3
                  +------------+ o The JQEBRLST bit is
                  | JQARELHD=0 | turned on in all
               +----JQARELNX | jobs associated with
               | +------------+ a release list. Used
               | by maintenance
               +->JOB_4 routines ($QREM,
                  +------------+ etc..) to quickly
                  | JQARELHD=0 | tell if they need to
                  | JQARELNX=0 | take action.
                  +------------+
              When JOB_1 completes, a release attempt (via
              $QMOD) will be attempted for all jobs in the
              list (JOB_2, JOB_3, JOB_4) as well as for any
              job defined in JOB_1's BEFORE= parameter.
```

568	(238)	SIGNED	4	(0)	Align on word boundary.
568	(238)	CHARACTER	8	JQANXTJB	Name of 'next' (BEFORE=) job (zero if not defined)
576	(240)	SIGNED	4	JQANXTJN	Job number (JQEJBNUM) of 'next' (BEFORE=) job (zero if none).
580	(244)	BITSTRING	4	JQANXTJK	Job key (JQEJBKEY) of 'next' (BEFORE=) job (zero if none).
584	(248)	CHARACTER	8	JQAPRVJB	Name of 'previous' (AFTER=) job (zero if not defined)

Table 260. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
592	(250)	SIGNED	4	JQAPRVJN	Job number (JQEJBNUM) of 'previous' (AFTER=) job (zero if none).
596	(254)	BITSTRING	4	JQAPRVJK	Job key (JQEJBKEY) of 'previous' (AFTER=) job (zero if none).
600	(258)	BITSTRING	1	JQAFLAG4	Dynamic Dependency flags :
		1...		JQA4NXTR	"B'10000000'" ON = A release was attempted on the "next" job JQANXTJB (the job specified on BEFORE=).
		.1..		JQA4DLYR	"B'01000000'" ON = This previously delayed job (via DELAY= or AFTER=) was released (the JQEADLY bit was turned OFF).
		..1.		JQA4DLYY	"B'00100000'" ON = SCHEDULE DELAY=YES was specified.
		...1		JQA4PARL	"B'00010000'" ON = This delayed job (via DELAY= or AFTER=) will be released by a parent job (a job with a BEFORE=) that was located in a prior iteration.
601	(259)	BITSTRING	3		Reserved.
604	(25C)	SIGNED	4	JQARELHD	Parent job release list - queue head JQE index.
608	(260)	SIGNED	4	JQARELNX	Parent job release list - next JQE index.
608	(260)	X'238'	0	JQADYDEP	"JQANXTJB,*-JQANXTJB" Section definition field
		JQAQCHNG is used to track the point in time when a job changes queues. Not used for $OUTPUT and later queues.			
612	(264)	SIGNED	4	JQAQCHNG	TOD that job changed queues
616	(268)	BITSTRING	4		Reserved for future use
616	(268)	X'264'	0	JQAJOBTM	"JQAQCHNG,*-JQAQCHNG" Job time section
		JQARESRQ is used to track resources the job needs to move to the next phase.			
620	(26C)	SIGNED	4	JQARSBUF	Number of CB bufs needed for $OUTPUT phase
624	(270)	BITSTRING	4		Reserved for future use
624	(270)	X'26C'	0	JQARESRQ	"JQARSBUF,*-JQARSBUF" Resource needs of job
624	(270)	X'18C'	0	JQABERTL	"*-JQABERT" Length of BERT data defined in this DSECT
624	(270)	X'274'	0	JQABLEN	"*-JQE" Length of JQE + extensions defined in this DSECT

Table 261. Structure JQECNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQECNT	, JQE count array
0	(0)	CHARACTER	8	JQECNM1	JQE type 1 (BATCH)
8	(8)	SIGNED	4	JQECNA1	Number of ACTIVE and
12	(C)	SIGNED	4	JQECNC1	completed JQES of type
12	(C)	X'10'	0	JQECLEN	"*-JQECNT" Size of one entry

Table 261. Structure JQECNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	8	JQECNM2	JQE type 2 (STC)
24	(18)	SIGNED	4	JQECNA2	Number of ACTIVE and
28	(1C)	SIGNED	4	JQECNC2	completed JQES of type
32	(20)	CHARACTER	8	JQECNM3	JQE type 3 (TSU)
40	(28)	SIGNED	4	JQECNA3	Number of ACTIVE and
44	(2C)	SIGNED	4	JQECNC3	completed JQES of type
48	(30)	CHARACTER	8	JQECNM4	JQE type 4 (JOBGROUP)
56	(38)	SIGNED	4	JQECNA4	Number of ACTIVE and
60	(3C)	SIGNED	4	JQECNC4	completed JQES of type
64	(40)	CHARACTER	8	JQECNM5	JQE type 5 (INTERNAL)
72	(48)	SIGNED	4	JQECNA5	Number of ACTIVE and
76	(4C)	SIGNED	4	JQECNC5	completed JQES of type
80	(50)	CHARACTER	8	JQECNM6	JQE type 6 (FREE)
88	(58)	SIGNED	4	JQECNA6	Number of ACTIVE and
92	(5C)	SIGNED	4	JQECNC6	completed JQES of type
92	(5C)	X'60'	0	JQECARSZ	"*-JQECNT" Size of a full array

Table 262. Cross Reference for $JQE

Name	Offset	Hex Tag
$FREE	1	FF
$HARDCPY	1	1
$INPUT	1	20
$OUTPUT	1	2
$PURGE	1	0
$RECEIVE	1	4
$SETUP	1	8
$SPIN	1	80
$XEQ	1	40
$XEQCLAS	1	7F
$XEQJOBL	1	79
$XEQJOB1	1	41
$XEQSTC	1	50
$XEQTSU	1	60
$XEQ8CHR	1	6A
$XMIT	1	10
JQA	0	0
JQAABCMP	234	
JQAABNOR	233	
JQAACCT	E8	
JQABERT	E8	
JQABERTL	270	18C
JQABLEN	270	274
JQADUPTM	1F0	
JQADYDEP	260	238
JQAFLAG1	17F	

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQAFLAG2	1B0	
JQAFLAG3	1C8	
JQAFLAG4	258	
JQAJOBTM	268	264
JQALGNUM	226	
JQAMINLV	1B8	
JQANETFL	236	220
JQANORMA	232	
JQANRCMP	235	
JQANXTJB	238	
JQANXTJK	244	
JQANXTJN	240	
JQAOHOLD	220	
JQAPERF	17C	
JQAPHOLD	236	
JQAPRVJB	248	
JQAPRVJK	254	
JQAPRVJN	250	
JQAQCHNG	264	
JQAQGCAT	1C9	2
JQAQGCHO	1CA	4
JQAQGCJX	1CA	8
JQAQGCMX	1CA	C
JQAQGCQF	1CA	10
JQAQGCWR	1CA	
JQAQGDUP	1C9	1
JQAQGRSN	1C9	
JQAQGWAC	1CA	4
JQAQGWLM	1C9	3
JQAQGWMF	1CA	8
JQAQGWST	1CA	C
JQAQGX49	1C9	4
JQAQTIME	190	
JQARELHD	25C	
JQARELID	222	
JQARELJB	22A	
JQARELNX	260	
JQARESRQ	270	26C
JQARHLD	19C	
JQARRAJ	1CC	
JQARRIV	18C	
JQARRSC	1A0	
JQARSBUF	26C	
JQARTOC	1A4	
JQASCHAF	196	
JQASCHE	1D8	

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQASCLAF	1E8	
JQASID	194	
JQASTARM	19A	
JQASTBY	1C2	
JQASTOK	180	
JQASUMSK	60	
JQASYSLC	1FC	
JQASYSLG	1FC	1F4
JQASYSLN	1F4	
JQATIMER	1A8	
JQAUCOR	200	
JQAUNSPN	1EC	
JQAUNTL	1BC	
JQAUTIME	1AC	
JQAWITH	1D0	
JQAWSCN	184	
JQAXBAT	1B4	
JQAXBATL	1D0	24
JQAXEQ	17C	
JQAXEQL	1B1	38
JQAXSRMT	1B4	
JQA1DUPJ	17F	8
JQA1EHLD	17F	80
JQA1JCLH	17F	40
JQA1SPIN	17F	1
JQA1TBAD	17F	2
JQA1THLD	17F	20
JQA1TSCH	17F	10
JQA2DUPJ	1B0	10
JQA2SCHE	1B0	80
JQA2SINV	1B0	40
JQA2TFUD	1B0	8
JQA2TSCH	1B0	20
JQA2WIN	1B0	4
JQA3STBU	1C8	40
JQA3UNTG	1C8	20
JQA3UNTU	1C8	80
JQA4DLYR	258	40
JQA4DLYY	258	20
JQA4NXTR	258	80
JQA4PARL	258	10
JQE	0	
JQEADLY	E	10
JQEADUBY	E	4
JQEAESSM	E	2
JQEAFLSH	E	80

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQEANDMP	E	20
JQEANET	E	8
JQEARMMI	20	
JQEAXARV	E	1
JQEBB1	0	0
JQEBB2	5	8
JQEBB3	9	C
JQEBEND	60	60
JQEBLEN	60	60
JQEBRLHD	3	40
JQEBRLST	3	80
JQEBUSY	22	
JQECARSZ	5C	60
JQECLEN	C	10
JQECNA1	8	
JQECNA2	18	
JQECNA3	28	
JQECNA4	38	
JQECNA5	48	
JQECNA6	58	
JQECNC1	C	
JQECNC2	1C	
JQECNC3	2C	
JQECNC4	3C	
JQECNC5	4C	
JQECNC6	5C	
JQECNM1	0	
JQECNM2	10	
JQECNM3	20	
JQECNM4	30	
JQECNM5	40	
JQECNM6	50	
JQECNT	0	
JQEDEVID	1D	
JQEDRNO	58	0
JQEDRPRT	4C	
JQEDRPRU	50	
JQEDRPUN	58	
JQEDRRO	58	2
JQEEB1	4	4
JQEEB2	8	8
JQEEB3	60	60
JQEFLAGA	E	
JQEFLAGB	3	
JQEFLAG1	4	
JQEFLAG2	8	

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQEFLAG3	C	
JQEFLAG4	1C	
JQEFLAG5	40	
JQEFLAG6	44	
JQEFLAG7	45	
JQEFLAG8	46	
JQEFLAG9	47	
JQEINPND	18	
JQEJBKEY	10	
JQEJBNUM	48	
JQEJCLAS	D	
JQEJLOK	23	
JQEJNAME	24	
JQEJOEI	9	
JQEJOEID	3C	
JQENENF	2	
JQENEXTI	5	
JQENWUSE	3C	
JQEOFFSL	41	
JQEPRIO	0	
JQERESVD	21	
JQESAF	5C	
JQESB1	4	0
JQESB2	8	8
JQESB3	60	C
JQESECLB	34	
JQESUMSK	60	
JQETGNBR	42	
JQETRAK	14	
JQETYPE	1	
JQEUSRID	2C	
JQEVRSN	0	8
JQEXEQND	1A	
JQEZGLM	F	
JQE1ARME	4	1
JQE1ARMH	4	2
JQE1ARMR	4	4
JQE1HLDA	4	80
JQE1HLDT	4	10
JQE1HLD1	4	40
JQE1HUNT	4	20
JQE1OCAN	4	8
JQE1PURG	4	10
JQE2ART	8	1
JQE2IND	8	80
JQE2PEOM	8	10

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQE2REST	8	40
JQE2STAR	8	20
JQE2STBY	8	4
JQE2UNTL	8	8
JQE2ZAP	8	2
JQE3DFJG	C	20
JQE3JOB	C	3
JQE3MVRQ	C	80
JQE3NDMP_Z11	C	20
JQE3STC	C	1
JQE3SYSD	C	10
JQE3TMOD	C	8
JQE3TSU	C	2
JQE3UNSP	C	40
JQE3XMIT	C	4
JQE4CAN	1C	80
JQE4JCLH	1C	1
JQE4MNEW	1C	4
JQE4MOLD	1C	8
JQE4NEWS	1C	40
JQE4SPHA	1C	20
JQE4SPOF	1C	10
JQE4TWOJ	1C	2
JQE5EOM	40	8
JQE5INPL	40	1
JQE5NOTF	40	10
JQE5NSL	40	40
JQE5NUNK	40	20
JQE5PUPS	40	2
JQE5RUNS	40	4
JQE5XUSD	40	80
JQE6HOPR	0	8
JQE6NCSA	0	1
JQE6PRAG	0	2
JQE6PRG	0	40
JQE6PRT	0	4
JQE6TGAE	0	20
JQE7INIT	45	20
JQE7IOTE	45	10
JQE7PROT	45	80
JQE7RJI	45	2
JQE7SPIN	45	8
JQE7SPOT	45	4
JQE7SYSL	45	1
JQE7TP	45	40
JQE8BOUT	46	10

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQE8CNWT	46	20
JQE8DUPL	46	40
JQE8HLDS	46	80
JQE8NJIX	46	4
JQE8NOQ	46	1
JQE8OPCD	46	8
JQE8RBLD	46	2
JQE9$C	47	40
JQE9$CAR	47	50
JQE9$CD	47	60
JQE9$E	47	80
JQE9$EVC	47	1
JQE9$EVH	47	21
JQE9$FRC	47	2
JQE9$TSC	47	4
JQPFLAG1	E4	
JQPGRID	E5	
JQPNHOLD	E0	
JQPNHSAV	E2	
JQPTGNBR	DC	
JQP1EVIC	E4	40
JQP1REQ	E4	80
JQX	80	
JQX#BRTS	D1	
JQX#JBRT	D5	
JQX#JOES	D2	
JQXBB1	80	80
JQXBB2	94	98
JQXBB3	A8	AC
JQXBB4	BD	C0
JQXBERTT	88	
JQXBSEND	BC	
JQXCAFF	AC	
JQXCRTME	8C	
JQXDUP	A8	
JQXEB1	8C	90
JQXEB2	A4	A8
JQXEB3	B4	B8
JQXEB4	D8	DC
JQXEXEND	D8	DC
JQXFLAG1	A0	
JQXFLAG2	A2	
JQXFLAG3	A3	
JQXIJNUM	A4	
JQXIT141	B0	
JQXIT142	B4	

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQXJCLAS	98	
JQXJNUMQ	B8	
JQXJQEBI	BD	
JQXLEN_Z2	BC	3C
JQXMAXCC	85	
JQXMAXRC	84	
JQXMXAB	84	80
JQXMXABN	84	5
JQXMXCAB	84	6
JQXMXCAN	84	4
JQXMXCC	84	2
JQXMXCDE	84	40
JQXMXCDS	84	E0
JQXMXCNV	84	9
JQXMXEOM	84	8
JQXMXFLU	84	B
JQXMXIND	84	
JQXMXJCL	84	3
JQXMXJRC	84	20
JQXMXNRM	84	1
JQXMXSEC	84	7
JQXMXSYS	84	A
JQXMXUNK	84	0
JQXNJIXI	B9	
JQXNWSID	A4	
JQXPXARV	AC	AC
JQXRDMBR	C8	
JQXRDRON	C0	
JQXRDTON	C4	
JQXRECCT	80	
JQXSB1	8C	80
JQXSB2	A4	98
JQXSB3	B4	AC
JQXSB4	D8	C0
JQXSIZE	D8	5C
JQXTGWRP	A1	
JQXVRZ11	80	9
JQXVRZ2	80	8
JQXWNAME	CD	
JQXWSNXT	90	
JQXWSPRV	94	
JQXZJCIX	D8	
JQXZNAME	C9	
JQXZ11LN	D8	5C
JQX1AWFL	A0	1
JQX1BSPL	A0	2

Table 262. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQX1CTKN	A0	20
JQX1DFQ	A0	10
JQX1LSPN	A0	8
JQX1TSRV	A0	80
JQX1WLM	A0	40
JQX1XWTR	A0	4
JQX2ASYM	A2	2
JQX2CKLG	A2	80
JQX2JNOT	A2	10
JQX2MAXR	A2	4
JQX2NENF	A2	8
JQX2SYMT	A2	1
JQX2TPAR	A2	40
JQX2UCOR	A2	20
JQX3CVSY	A3	80
JQX3INST	A3	40
JQX3JBGR	A3	20
JQX3JGCM	A3	2
JQX3JGCS	A3	4
JQX3JLSP	A3	8
JQX3NFDT	A3	1
JQX3RJGR	A3	10

$JQRWORK information

$JQRWORK heading information

Common name: JES2 JQE request PCE Work Area

Macro ID: $JQRWORK

DSECT name: PCE ($JQRWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JQRPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $JQRPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 JQE request Processor. $JQRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JQRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJQRID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$JQRWORK mapping

Table 263. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	SIGNED	4	JQRPALET	JQRB data space ALET
332	(14C)	ADDRESS	4	JQRJQA	Address of current JQA
336	(150)	ADDRESS	4	JQRJCT	Address of current JCT
340	(154)	ADDRESS	4	JQRIOT	Address of current IOT
344	(158)	BITSTRING	1	JQRFLAG1	General flag byte
		1...		JQR1BRTL	"B'10000000'" BERT lock held
		.1..		JQR1QSUS	"B'01000000'" Wait for the queues
		..1.		JQR1CKPW	"B'00100000'" Wait for CKPT write
		...1		JQR1BUFR	"B'00010000'" Wait for free buffers
345	(159)	BITSTRING	1	JQRQUE	New queue from JQRB
346	(15A)	BITSTRING	2	JQRRSV1	Reserved
348	(15C)	SIGNED	4	JQRRQJRA(0)	Request Job ID Request Area
348	(15C)	CHARACTER	4	JQRJQRID	ID for JQR requestor
352	(160)	SIGNED	2	JQRRQJAS	Request Job ID ASID
354	(162)	BITSTRING	2	JQRRQJRE	Req Job ID Request Area End
356	(164)	SIGNED	4	JQRASDSA	ASDS data space ALET
360	(168)	CHARACTER	8	JQRWJOBC	Job class work area
368	(170)	CHARACTER	8	JQRWSRVC	Service class work area
376	(178)	ADDRESS	4	JQRWSJBQ	Address of current SJB queue head
380	(17C)	ADDRESS	4	JQRSQD	Address of SQD or zero
384	(180)	SIGNED	4	JQRNRTCD	New route code for $R XEQ job modify request
392	(188)	DBL WORD	8	(0)	Alignment
392	(188)	X'40'	0	JQRPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 264. Cross Reference for $JQRWORK

Name	Offset	Hex Tag
JQRASDSA	164	
JQRFLAG1	158	
JQRIOT	154	
JQRJCT	150	
JQRJQA	14C	
JQRJQRID	15C	
JQRNRTCD	180	
JQRPALET	148	
JQRPCEWL	188	40
JQRQUE	159	

Table 264. Cross Reference for $JQRWORK (continued)

Name	Offset	Hex Tag
JQRRQJAS	160	
JQRRQJRA	15C	
JQRRQJRE	162	
JQRRSV1	15A	
JQRSQD	17C	
JQRWJOBC	168	
JQRWSJBQ	178	
JQRWSRVC	170	
JQR1BRTL	158	80
JQR1BUFR	158	10
JQR1CKPW	158	20
JQR1QSUS	158	40
PCE	0	

$JRW information

$JRW programming interface information

$JRW is a programming interface.

$JRW heading information

Common name: JES2 Job Receiver Work Area

Macro ID: $JRW

DSECT name: JRW

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: See $PCE (JES2 address space)
0 (NETSRV address space)
Key: See $PCE (JES2 address space)
0 (NETSRV address space)
Residency: See $PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See JRWLEN

Created by: See $PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTJRWA field of the $NSST data area
RDRCWKAR label of the $RDRWORK data area
X002AREA field of the $XPL data area
X003AREA field of the $XPL data area
X004AREA field of the $XPL data area
X020AREA field of the $XPL data area
X050AREA field of the $XPL data area
X052AREA field of the $XPL data area
X053AREA field of the $XPL data area
X054AREA field of the $XPL data area
Imbedded in the PCE in the JES2 address space.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 input processing PCEs, including NJE job receivers, card readers, internal readers, RJE card readers, and internal job creation. This includes support routines and exits. $JRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$JRW mapping

Table 265. Structure JRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRW	, JRW mapped as $NJEWORK
0	(0)	CHARACTER	4	JRWEYE	Eyecatcher
4	(4)	CHARACTER	10	JRWDEVN	Device name
14	(E)	BITSTRING	1	JRWDEVTP	Device type
15	(F)	BITSTRING	3	JRWDEVID	Device id
18	(12)	BITSTRING	2	JRWCRSV1	Reserved
20	(14)	ADDRESS	4	JRWWAVE	WAVE address
24	(18)	ADDRESS	4	JRWSQD	SQD address
28	(1C)	ADDRESS	4	JRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	JRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JRWJQA	Address of JQA
72	(48)	X'48'	0	JRWJQE	"JRWJQA" Address of JQE
76	(4C)	ADDRESS	4	JRWJCT	Address of JCT
80	(50)	ADDRESS	4	JRWIOT	Address of IOT
80	(50)	X'50'	0	JRWIOTBF	"JRWIOT" Address of IOT
84	(54)	ADDRESS	4	JRWNJH	Network job header address
88	(58)	ADDRESS	4	JRWNJT	Network job trailer address
92	(5C)	SIGNED	4	JRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JRWNERRC	Error code
108	(6C)	X'1'	0	JRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JRWNEJOE	"2" Invalid mix of spin/nonspin

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	X'3'	0	JRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JRWNESJF	"11" SJF error
108	(6C)	X'C'	0	JRWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JRWCRSV2	Reserved
120	(78)	DBL WORD	8	JRWDBL	Doubleword work area
128	(80)	DBL WORD	8	JRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JRWWRK16	"JRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JRWWRK24	"JRWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JRWCLEAR	"JRWCLRST,*-JRWCLRST,C'X'" Area to clear
144	(90)	BITSTRING	1	JRW$EXP	'EXPECTED' TYPES (FLAGS)
145	(91)	BITSTRING	1	JRW$LST	'LAST RECEIVED' TYPE (FLAG)
		1...		JRW$JH	"B'10000000'" JOB HEADER
		.1..		JRW$JT	"B'01000000'" JOB TRAILER
		..1.		JRW$DSH	"B'00100000'" DATA SET HEADER
		...1		JRW$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		JRW$DATA	"B'00001000'" DATA RECORD
		.... .1..		JRW$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		JRW$JES2	"B'00000010'" JES2 SECTION RECEIVED
		1		JRW$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
146	(92)	BITSTRING	1	JRWFLAG2	Control flags
		JRW2SYSN indicates sysin data being processed and any JCL/JECL will end data. JRW2DATA is any data that must be terminated by a DLM card.			
		1...		JRW2SYSN	"B'10000000'" Processing SYSIN or / PROCESS cards
		.1..		JRW2DATA	"B'01000000'" Processing data cards or / DATASET cards
		..1.		JRW2JCL	"B'00100000'" Processing JCL card
		...1		JRW2JECL	"B'00010000'" Processing JECL card
		.... 1...		JRW2CONT	"B'00001000'" Processing continuation
		.... .1..		JRW2QUOT	"B'00000100'" Processing unended quote
		.... ..1.		JRW2CMNT	"B'00000010'" Processing comment cont
146	(92)	X'E'	0	JRW2CNTS	"JRW2CONT+JRW2QUOT+JRW2CMNT" All continuations
		1		JRW2SPCN	"B'00000001'" Processing paren cont

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
147	(93)	BITSTRING	1	JRWFLAG3	Control flags
		1...		JRW3SKIP	"B'10000000'" Skipping for job card message issued
		.1..		JRW3FLSH	"B'01000000'" Flushing input stream (look for delimiter)
		..1.		JRW3FEOF	"B'00100000'" Flushing until EOF
		...1		JRW3FAIL	"B'00010000'" Fail job at end of input
		.... 1...		JRW3SKGT	"B'00001000'" Reprocess current record
		.... .1..		JRW3STNF	"B'00000100'" Store and forward steam
		.... ..1.		JRW3XMIT	"B'00000010'" XMIT stream
		1		JRW3PURG	"B'00000001'" Job is to be purged
148	(94)	BITSTRING	1	JRWFLAG4	Control flags
		1...		JRW4ILLC	"B'10000000'" Illegal continuation
		.1..		JRW4ILCD	"B'01000000'" Deferred continuation err
		..1.		JRW4JQSA	"B'00100000'" $JQESERV ADD in progress
		...1		JRW4ILCB	"B'00010000'" Illegal continuation before exit
		.... 1...		JRW4FJCE	"B'00001000'" Fatal job card error
		.... .1..		JRW4FBCL	"B'00000100'" CLASS= on job card bad
		.... ..1.		JRW4NOCL	"B'00000010'" Bypass JOB class verification
149	(95)	BITSTRING	1	JRWCPSWK	Caller PSW byte 1 (key)
150	(96)	BITSTRING	1	JRWFLAG5	Control flags
		1...		JRW5JPPR	"B'10000000'" JOBPARM PROCLIB seen
		.1..		JRW5JCPR	"B'01000000'" JCLLIB PROCLIB seen
		..1.		JRW5UCRS	"B'00100000'" Field JRWJRUCR was set
		...1		JRW5OFLF	"B'00010000'" OFFLOADn.JR being flushed
		.... 1...		JRW5CERR	"B'00001000'" JCL error message pending
		.... .1..		JRW5AVF	"B'00000100'" JOB failed SAF VERIFYX
		.... ..1.		JRW5GRP	"B'00000010'" Job created due to JOBGROUP processing
		1		JRW5GRPH	"B'00000001'" JOBGROUP created as HELD
151	(97)	BITSTRING	1	JRWFLAG6	Control flags
		1...		JRW6SPAR	"B'10000000'" Spaces in PARENs allowed
		.1..		JRW6ICSC	"B'01000000'" Special case continuation error (col 72 non blank and 71 end of operand)
		..1.		JRW6JBAD	"B'00100000'" JOBGROUP name contains bad characters
		...1		JRW6MSGP	"B'00010000'" Set logging job JESJCLIN PDDB as not printable
		.... 1...		JRW6SKIP	"B'00001000'" Skipping for JOBGROUP card issued
		.... .1..		JRW6JES3	"B'00000100'" JES3 JECL syntax / (together with JRW2JECL)

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JRW6JS3A	"B'00000010'" JES3 JECL syntax (together with JRW2JECL)
		1		JRW6LERR	"B'00000001'" Non-sever error encountered
152	(98)	BITSTRING	1	JRWFLAG7	More control flags:
		1...		JRW7USET	"B'10000000'" User identification set
		.1..		JRW7EMLI	"B'01000000'" EMAIL id is in JRWEMAIL
		..1.		JRW7NFDT	"B'00100000'" Job has NOTIFY stmt data
		...1		JRW7GRPC	"B'00010000'" Current card should be flag as JECL within LRC when written to JESJCLIN
		.... 1...		JRW7LOG	"B'00001000'" This job is a logging job for a DJC network
		.... .1..		JRW7NET	"B'00000100'" This job has an associated NET statement
		1		JRW7ESSM	"B'00000001'" Job submitted from emergency subsystem
153	(99)	BITSTRING	1	JRWFLAG8	More control flags:
		1...		JRW8NULL	"B'10000000'" Current card null
		.1..		JRW8DEFR	"B'01000000'" If ON, this is a deferred JRW in a multi-job NJE stream (See JRWNXJRW). If OFF, this is a fixed 'work' JRW that exists in a $RDRWORK PCE or JRW addressed by $NSST.
		..1.		JRW8GTWK	"B'00100000'" If ON, this deferred JRW was obtained via $GETWORK.
		...1		JRW8CNJH	"B'00010000'" If ON, the NJH addressed by NRWNJH was copied.
		.... 1...		JRW8CJP1	"B'00001000'" If ON, CJOBEND will do full processing but will keep job in the $INPUT queue.
		.... .1..		JRW8CJP2	"B'00000100'" If ON, CJOBEND will only do $QMOD to the next phase. Assumes a separate call with JRW8CJP1 set was done first.
		.... ..1.		JRW8J3XQ	"B'00000010'" JES3 ROUTE XEQ
		1		JRW8J3XJ	"B'00000001'" Job card expected
154	(9A)	BITSTRING	1	JRWMVSRL	MVS release level required
		..1.		JRWMVS22	"B'00100000'" >= HJE77A0 required
		.1..		JRWMVS23	"B'01000000'" >= HJE77B0 required
		1...		JRWMVS24	"B'10000000'" >= HJE77C0 required
		...1 1111		JRWMVSRE	"B'00011111'" Reserved for rel levels
155	(9B)	BITSTRING	1		Reserved
156	(9C)	BITSTRING	1	JRWFLAGN	/ NETACCT keywords coded
		1...		JRWNPNAM	"B'10000000'" PNAME= specified
		.1..		JRWNACCT	"B'01000000'" ACCT= specified
		..1.		JRWNBLDG	"B'00100000'" BLDG= specified
		...1		JRWNDEPT	"B'00010000'" DEPT= specified
		.... 1...		JRWNROOM	"B'00001000'" ROOM= specified
		.... .1..		JRWNUSER	"B'00000100'" USERID= specified
157	(9D)	SIGNED	1	JRWENVIR	Environment

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
157	(9D)	X'0'	0	JRWERDR	"0" RDR/BSC NJE/SNA NJE
157	(9D)	X'8'	0	JRWEUSER	"8" INJR/INTRDR
157	(9D)	X'10'	0	JRWENSRV	"16" NJJR/NETSRV
157	(9D)	X'18'	0	JRWESBMT	"24" SSRV/$SUBMIT
158	(9E)	SIGNED	2	JRWEMALL	Length of data in JRWEMAIL
160	(A0)	CHARACTER	256	JRWEMAIL	EMAIL= for the job
416	(1A0)	ADDRESS	4	JRWEMLWA	Ptr to email work area
420	(1A4)	ADDRESS	4	JRWEMLWZ	Size of email work area
424	(1A8)	BITSTRING	8		Reserved
432	(1B0)	DBL WORD	8	JRWTMP8	8 byte work area
440	(1B8)	BITSTRING	32	JRWTMP32	32 byte work area

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MACDATE = 08/19/88
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440	(1B8)	BITSTRING	24	JRWSTIML	REMOTE STIMERM SET PARM LIST

```
Deferred NJE JRW queues.
There are a number of fixed 'work' JRWs that exist:
- In each Input services PCE work area (RDRWORK -
  see RDWCWKAR ). Handles NJE BSC/SNA.
- In each NJE Server Subtask Connection Table
  ( $NSST - see NSSTJRWA ). Handles NJE TCP/IP.
In an NJE stream there may be multiple JOB/JOBGROUP
cards. Input processing can proceed on these jobs
up to the point where the job trailer must be
applied. The job trailer arrives last in the NJE
stream. Therefore, all jobs (JRWs) must be
'deferred' until the job trailer arrives. These
queues handle 'deferring' these JRWs-in-waiting
( and the associated JQEs ).
The queues are used as follows:
  JRWFDJRW - Free deferred JRWs that are ready
             for re-use.
             NOTE : - The queue head is a fixed
                      work JRW (in $RDRWORK or
                      $NSST).
  JRWNXJRW - Chain of deferred JRWs that represent
             the jobs in the current NJE stream
             that are waiting for the job trailer
             to arrive.
             NOTE : - The queue head is a fixed
                      work JRW (in $RDRWORK or
                      $NSST).
  JRWLAJRW - The last JRW in the JRWNXJRW chain.
             Used to facilitate chaining in arrival
             order.
             NOTE : - Only set in work JRWs ( in
                      $RDRWORK or $NSST ).
```

472	(1D8)	ADDRESS	4	JRWFDJRW	Free deferred JRWs head.
476	(1DC)	ADDRESS	4	JRWNXJRW	If processing an NJE job stream, This is the ptr to the next JRW in the JRWNXJRW job stream chain.
480	(1E0)	ADDRESS	4	JRWLAJRW	If processing an NJE job stream, this points to the last JRW in the JRWNXJRW job stream chain.

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Job reader card buffer (RJCB) queues The queus are used as follows: JRWRJCB - Cards that represent the current JCL card being processed. These cards are represented in JRWSTMT JRWRJCBN - These are cards that are queued for processing after the current cards in JRWRJCB are processed. There were either generated internally or were added by an exit JRWRJCBF - Free RJCBs that are ready for re-use JRWRJCBX - These are the job cards that have already been written to the JCLIN data set and are waiting to be written to the SYSIN data set for XBM processing. JRWRJCBS - SCRs that are to be written after the cards in JRWRJCB (if any) are processed. JRWRJCBP - One pending SCR that is to be written when the next data or JCL card is encountered. JRWRJCBM - Messages that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBB - Messages that need to be inserted into JCLIN after all / NET messages JRWRJCBD - RJCBs that represents deferred messages JRWRJCBC - CMBs that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBI - RJCB that represents a SYSIN or delimiter card added by an exit JRWRJCBO - RJCB that represents a card to be placed after JOB stmt, before EXEC				
484	(1E4)	SIGNED	4	JRWRJCB1(0)	First queue of RJCBs
484	(1E4)	ADDRESS	4	JRWRJCB	Current card buffer head
488	(1E8)	ADDRESS	4	JRWRJCBN	Next card buffer head
492	(1EC)	ADDRESS	4	JRWRJCBF	Free card buffer head
492	(1EC)	X'C'	0	JRWRJCFS	"(*-JRWRJCB1)" Size of card/free buffer queues.
496	(1F0)	ADDRESS	4	JRWRJCBX	XBM card queue
500	(1F4)	ADDRESS	4	JRWRJCBS	SCR queue
504	(1F8)	ADDRESS	4	JRWRJCBP	Pending SCR queue
508	(1FC)	ADDRESS	4	JRWRJCBM	Message queue
512	(200)	ADDRESS	4	JRWRJCBB	/ NET delayed queue
516	(204)	ADDRESS	4	JRWRJCBD	Deferred message queue
520	(208)	ADDRESS	4	JRWRJCBC	CMB queue
524	(20C)	ADDRESS	4	JRWRJCBI	SYSIN/delimiter RJCB
528	(210)	ADDRESS	4	JRWRJCBO	After JOB, before EXEC
528	(210)	X'C'	0	JRWRJCNM	"(*-JRWRJCB1)/4" Number of RJCB queues
528	(210)	X'30'	0	JRWRJSIZ	"(*-JRWRJCB1)" Size of RJCB queue array.
532	(214)	ADDRESS	4	(2)	Reserved for future use
		Current logical statement work areas			
540	(21C)	ADDRESS	4	JRWSTMT	Pointer to statement buffer
544	(220)	ADDRESS	4	JRWSTMTE	1st free byte in buffer
548	(224)	SIGNED	2	JRWSTMTS	Size of JRWSTMT area
550	(226)	SIGNED	2	JRWPARCT	Parenthesis count
552	(228)	DBL WORD	8	(0)	Align properly

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
552	(228)	CHARACTER	12	JRWSTMTV	JCL/JECL verb for statement in 4K buffer
564	(234)	CHARACTER	8	JRWSTMTL	JCL label for verb in 4K buffer
572	(23C)	SIGNED	4	JRWSTMTC	Count of cards in current statement
	RCARDSCN work areas				
576	(240)	CHARACTER	12	JRWRSCNK	Scanned keyword
588	(24C)	CHARACTER	12	JRWRSCNA	Keyword alias (only filled in if duplicate keyword)
600	(258)	SIGNED	2	JRWRSCNL	Value length (-1 implies missing required keyword)
602	(25A)	SIGNED	2	JRWRSCNP	Number of positionals found
604	(25C)	SIGNED	2	JRWRSCNM	# of list elements found
606	(25E)	BITSTRING	1	JRWRSCER	RCARDSCN error code
606	(25E)	X'1'	0	JRWRSCOP	"1" Operand error code
606	(25E)	X'2'	0	JRWRSCKY	"2" Keyword error code
607	(25F)	BITSTRING	1	JRWRSFL1	RCARDSCN Flag 1
		1...		JRWRSLNG	"B'10000000'" Statement label is longer than 8 characters
608	(260)	CHARACTER	768	JRWRSCNV	Keyword value
	Routing information areas				
1376	(560)	SIGNED	2	JRWXEQND	Default execution node
1378	(562)	SIGNED	2	JRWJRMNO	Device modify node number
1380	(564)	SIGNED	4	JRWRDRT(0)	Source (origin) route code
1380	(564)	SIGNED	2	JRWRDNOD	Node number
1382	(566)	SIGNED	2	JRWRDRTE	Remote number
1384	(568)	SIGNED	4	JRWPRINT(0)	Default print route code
1384	(568)	SIGNED	2	JRWPRNOD	Node number
1386	(56A)	SIGNED	2	JRWPRRTE	Local printer/remote number
1388	(56C)	CHARACTER	8	JRWPRSER	Print userid
1396	(574)	SIGNED	4	JRWPUNCH(0)	Default punch route code
1396	(574)	SIGNED	2	JRWPUNOD	Node number
1398	(576)	SIGNED	2	JRWPURTE	Local punch/remote number
1400	(578)	CHARACTER	8	JRWPUSER	Punch userid
	General work/data areas				
1408	(580)	BITSTRING	216	JRWMSG	Input processing msg area
1624	(658)	BITSTRING	128	JRWGRARE	GROUP processing work area
1752	(6D8)	BITSTRING	360	JRWSAFI	SAFINFO parameter list
2112	(840)	ADDRESS	4	JRWTWA	Address of token work area
2116	(844)	ADDRESS	4	JRWTOKA	Input token for JOBVALM
2120	(848)	ADDRESS	4	JRWJECLT	Addr of JECL table
2124	(84C)	BITSTRING	2	JRWJECKY	JECL validity value (see $HASPEQU for equates)
2126	(84E)	BITSTRING	2		Reserved
2128	(850)	ADDRESS	4	JRWJCTSV	JCT address obtained at NJE JOB header time

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JRWCLASX is filled in at the beginning of the input processing. It represents the offset within the JCT of the JCTX segment for advanced features. If zero, the offset has not yet been computed. If negative the JCTX is damaged and a message reporting the damage has already been issued (HASP110).			
2132	(854)	SIGNED	4	JRWCLASX	Offset of advanced features JCTX extension extension.
2136	(858)	ADDRESS	4	JRWIOTL	Address of last IOT
2140	(85C)	SIGNED	2	JRWIOTCT	Count of IOT's used
2142	(85E)	BITSTRING	1		Reserved
2143	(85F)	BITSTRING	1	JRWDUBIE	Dubious error indicator
2143	(85F)	X'4'	0	JRWDDUB	"4" Job arrived marked dubious
2143	(85F)	X'8'	0	JRWDOWN	"8" Job from own node
2143	(85F)	X'C'	0	JRWDUNKN	"12" Job from unknown node
2143	(85F)	X'10'	0	JRWDSUB	"16" Subnet job arrived from outside subnet
2143	(85F)	X'14'	0	JRWDDIR	"20" Direct origin via S & F
2143	(85F)	X'18'	0	JRWDADJX	"24" Adjacent and exec node same
2143	(85F)	X'1C'	0	JRWDTKN	"28" SAF token node incorrect
2144	(860)	ADDRESS	4	JRWOCT	Output control table addr
2148	(864)	ADDRESS	4	JRWPOCT	Pending OCT buffer address
2152	(868)	ADDRESS	4	JRWPDDB	Current SYSIN PDDB address
2156	(86C)	CHARACTER	2	JRWJPRIO	Priority from PRIO or PRTY=
2158	(86E)	CHARACTER	1	JRWMCLAS	Default msgclass
2159	(86F)	BITSTRING	1	JRWPRINC	Priority increment
2160	(870)	BITSTRING	1	JRWPRLIM	Priority limit
2161	(871)	BITSTRING	3		Reserved
2164	(874)	CHARACTER	8	JRWJCLAS	Default job class
2172	(87C)	CHARACTER	8	JRWSVCLS	Original job class (Saved)
2180	(884)	CHARACTER	8	JRWOJCLS	Override JOBCLASS value
2188	(88C)	CHARACTER	8	JRWXBMPR	Procname for XBM/2 job
2196	(894)	CHARACTER	32	JRWJRUCR	User portion of a Job Correlator
2228	(8B4)	BITSTRING	4	JRWJOBKY	Related job key
2232	(8B8)	BITSTRING	4		Reserved
		Each byte of JRWJECLV represents the presence of a JECL statement. See RCCTAB/RCCJ3TAB for the offset associated with a particular verb. The values are 0 = not processed, 1 = processed, 2 = warning, 3 = error.			
2236	(8BC)	BITSTRING	32	JRWJECLV	JECL use indicators
2236	(8BC)	X'8CC'	0	JRWJECL2	"JRWJECLV+16,16" JES2 JECL use
2268	(8DC)	ADDRESS	4	JRWRCC	Address of the JECL table entry for the current statement
2272	(8E0)	SIGNED	4	JRWINJNO	Initial job number
2276	(8E4)	ADDRESS	4	JRWNJOFF	Address of offload section
2280	(8E8)	BITSTRING	1	JRWSAF	System affinity

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Password blanking processing fields (used by RPUTSCAN and RPSWSCAN)			
2284	(8EC)	ADDRESS	4	JRWPRJCB	Current RJCB being scanned
2288	(8F0)	ADDRESS	4	JRWP1STR	RJCB with PASSWORD= in it
2292	(8F4)	ADDRESS	4	JRWP1CHR	Addr 1st char after = sign
2296	(8F8)	BITSTRING	1	JRWPSWD	PASSWORD processing field
		1		$RPASFND	"B'00000001'" PASSWORD processed
		.... ..1.		$RJOBERR	"B'00000010'" Error on JOB card
		.... .1..		$RPSWPRC	"B'00000100'" PASSWORD processing
		.... 1...		$RJOBFND	"B'00001000'" JOB card being processed
		...1		$RPSWCNT	"B'00010000'" PASSWORD continuation found in RPUTSCAN routine
		..1.		$RNPASER	"B'00100000'" Encrypted password network protocol error detected
		.1..		$RPASPHR	"B'01000000'" Pass phrase was used
		1...		$RNPQUOT	"B'10000000'" Quoted string password
2297	(8F9)	BITSTRING	1	JRWPSWD2	Additional password flags
		1...		$RNPAREN	"B'10000000'" PASSWORD=(specified
		.1..		$RNPQCNT	"B'01000000'" Continued quoted string
2298	(8FA)	BITSTRING	1	JRWSW1	Input switches
		.1..		JRW1JVFY	"B'01000000'" Job has been verified
		..1.		JRW1SREQ	"B'00100000'" Submittor token required
		...1		JRW1IXEQ	"B'00010000'" Invalid XEQ card detected
		.... 1...		JRW1JKIL	"B'00001000'" Job killed via RJOBKILL
		.... .1..		JRW1XBGN	"B'00000100'" XBM generated cards added
		.... ..1.		JRW1SAFF	"B'00000010'" JOB stmt SYSAFF processed
		1		JRW1SYS	"B'00000001'" JOB stmt SYSTEM processed
2299	(8FB)	BITSTRING	1	JRWSW2	Input switches
		1...		JRW2JSRD	"B'10000000'" At least one JOB stmt read since the last physical EOF
		.1..		JRW2IND	"B'01000000'" Independent mode
		..1.		JRW2XMIT	"B'00100000'" Off - XMIT allowed after job or comment cards On - XMIT not allowed
		...1		JRW2JCLH	"B'00010000'" TYPRUN=JCLHOLD
		.... 1...		JRW2JBON	"B'00001000'" $HASP100 msg issued
		.... .1..		JRW2COPY	"B'00000100'" TYPRUN=COPY flag
		.... ..1.		JRW2ASAF	"B'00000010'" System affinity from MVS
		1		JRW2JCAN	"B'00000001'" NJE job cancel switch
2300	(8FC)	BITSTRING	1	JRWSW3	Input switches
		1...		JRW3MAIN	"B'10000000'" SRIP caller main task
		.1..		JRW3SUBT	"B'01000000'" SRIP caller sub task
		..1.		JRW3USER	"B'00100000'" SRIP caller user space

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JRW3MULT	"B'00010000'" Multiple job cards found
		.... 1...		JRW3SHLD	"B'00001000'" Hold job for spof smf
		.... .1..		JRW3JHLD	"B'00000100'" Device TYPRUN=HOLD
		.... ..1.		JRW3DHDR	"B'00000010'" An NJE header has had its processing deferred
2301	(8FD)	BITSTRING	1	JRWSW4	Input switches
		1...		JRW4JCLE	"B'10000000'" Job contains a JECL error
		.1..		JRW4XBCH	"B'01000000'" Xeq batch monitor cls job
		..1.		JRW4SYSN	"B'00100000'" Use SYSIN PUT parms
2302	(8FE)	BITSTRING	1	JRWSW5	Input switches
		...1		JRW5E20T	"B'00010000'" Job terminated by exit 20
	JES3 JECL processing switches				
2303	(8FF)	BITSTRING	1	JRWSW6	JES3 JECL switches
		1...		JRW6NET	"B'10000000'" / NET stmt processed
		.1..		JRW6OUT1	"B'01000000'" First card image for this / FORMAT added to RJCB queue
		..1.		JRW6EXEC	"B'00100000'" First EXEC or INCLUDE JCL statement seen
		...1		JRW6TRAK	"B'00010000'" Tracking done for this job
2304	(900)	BITSTRING	4		Reserved for future use
	Fields used for JES3 / FORMAT statements				
2308	(904)		2	JRWOLABL	OUTPUT statement number
2310	(906)	BITSTRING	1	JRWMXIND	Reason for terminating input - see JQXMXIND for possible values
2311	(907)	SIGNED	1	JRWNEXTQ	Next phase of processing
2312	(908)	BITSTRING	1	JRWDELRS	"JOB DELETED" reason code
2312	(908)	X'1'	0	JRWDJOBC	"1" Illegal JOB card
2312	(908)	X'2'	0	JRWDXIT4	"2" EXIT 4 illegal cntrl card
2312	(908)	X'3'	0	JRWDCONT	"3" Error on continuation
2312	(908)	X'4'	0	JRWDDELP	"4" DEL or PURGE JECL
2312	(908)	X'5'	0	JRWDOPER	"5" Operator command
2312	(908)	X'6'	0	JRWDERR	"6" Processing error
2312	(908)	X'7'	0	JRWDIOER	"7" I/O error
2312	(908)	X'8'	0	JRWDJECL	"8" Illegal JECL card
2312	(908)	X'9'	0	JRWDXEQN	"9" Illegal execution node
2312	(908)	X'A'	0	JRWDSYSN	"10" Excessive SYSIN stmts
2312	(908)	X'B'	0	JRWDSTOP	"11" Device canceled or stoped
2312	(908)	X'C'	0	JRWDACCT	"12" Illegal acct field JOB card
2312	(908)	X'D'	0	JRWDSAF	"13" Unsupported SAF return code
2312	(908)	X'E'	0	JRWDPROT	"14" NJE protocol error
2312	(908)	X'F'	0	JRWDXMIT	"15" JCL XMIT card error
2312	(908)	X'10'	0	JRWDDATA	"16" JCL DD DATA card error

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2312	(908)	X'11'	0	JRWDJSMT	"17" Job symbols not spooled
2312	(908)	X'12'	0	JRWDCNGR	"18" Error on GROUP card continuation
2312	(908)	X'13'	0	JRWDJNAL	"19" Not allowed JECL card
Reason codes in this byte need to be added to HASP119 msg					
2313	(909)	BITSTRING	1	JRWACCTL	Length of accounting string
2314	(90A)	BITSTRING	1	JRWRAUTH	Reader command authority
2315	(90B)	SIGNED	1	JRWDLML	Machine length of DLM
2316	(90C)	CHARACTER	18	JRWDLM	Input data set delimiter
2334	(91E)	CHARACTER	64	JRWDSLAB	Input SYSIN DSKEYLBL label
2398	(95E)	BITSTRING	1	JRWDSKEL	Length of JRWDSLAB
2399	(95F)	BITSTRING	1	JRWFLAGX	Reader exits flag byte
		1		JRWXJCL	"B'00000001'" JCL card detected
2399	(95F)	X'1'	0	RDWXJCL	"JRWXJCL" Compatibility
		.... ..1.		JRWXJECL	"B'00000010'" JECL card detected
2399	(95F)	X'2'	0	RDWXJECL	"JRWXJECL" Compatibility
		.... .1..		JRWXJOBC	"B'00000100'" JOB card detected
2399	(95F)	X'4'	0	RDWXJOBC	"JRWXJOBC" Compatibility
		.... 1...		JRWXCONT	"B'00001000'" Continuation card detected
2399	(95F)	X'8'	0	RDWXCONT	"JRWXCONT" Compatibility
		...1		JRWXXSNC	"B'00010000'" Exit supplied next card
2399	(95F)	X'10'	0	RDWXXSNC	"JRWXXSNC" Compatibility
		..1.		JRWXXSEM	"B'00100000'" Exit supplied error message
2399	(95F)	X'20'	0	RDWXXSEM	"JRWXXSEM" Compatibility
		.1..		JRWXJOBP	"B'01000000'" JOBPARM card detected
2399	(95F)	X'40'	0	RDWXJOBP	"JRWXJOBP" Compatibility
JECL processing options for the job Bits should be defined the same as X002ECLT, X052ECLT, X003ECLT and X053ECLT					
2400	(960)	BITSTRING	1	JRWECLT	Job JECL processing:
		1...		JRWECLJ2	"B'10000000'" Process JES2 JECL
		.1..		JRWECLJ3	"B'01000000'" Process JES3 JECL
JECL processing options for JES2 and JES3. Format is the same as $J2CLOPT and $J2CLOPT in $HCT					
2404	(964)	SIGNED	4	JRWJ2CLO(0)	JES2 JECL options
2404	(964)	X'964'	0	JRWJ2CL1	"JRWJ2CLO+0,1" first byte of JRWJ2CLO
2404	(964)	X'965'	0	JRWJ2CL2	"JRWJ2CLO+1,1" second byte of JRWJ2CLO
2404	(964)	X'966'	0	JRWJ2CL3	"JRWJ2CLO+2,1" third byte of JRWJ2CLO
2404	(964)	X'967'	0	JRWJ2CL4	"JRWJ2CLO+3,1" fourth byte of JRWJ2CLO
2408	(968)	BITSTRING	4	JRWJ3CLO	JES3 JECL options
2412	(96C)	ADDRESS	4	JRWENTRY	Addr of entry point vector

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		For internal readers, information on the submitter			
2416	(970)	CHARACTER	8	JRWSJBID	Id of current owner
2424	(978)	CHARACTER	8	JRWSJNAM	Name of current owner
2432	(980)	CHARACTER	8	JRWSUSR	'USER' from owner's ACEE
2440	(988)	CHARACTER	8	JRWSGRP	'GROUP' from owner's ACEE
		Information on last record read (RGET or passed to reader processing)			
2448	(990)	BITSTRING	1	JRWINFLG	Input record flags
2449	(991)	BITSTRING	1	JRWCCTL	Carriage control
2450	(992)	SIGNED	2	JRWCDLRL	Card logical record length
2450	(992)	X'993'	0	JRWCDLR1	"JRWCDLRL+1,1,C'X'" One byte LRECL for HASPRDR
2452	(994)	ADDRESS	4	JRWRECRD	Record address
		LRECL and RECFM information			
2456	(998)	BITSTRING	1	JRWCDLEN	Card length
2457	(999)	BITSTRING	1	JRWCDLRC	Card logical record control byte
2458	(99A)	SIGNED	2	JRWDEFLR	Default LRECL for SYSIN DS
2460	(99C)	BITSTRING	1	JRWDEFRF	Default RECFM for SYSIN DS, bits defined in DCB under DCBRECFM
2461	(99D)	BITSTRING	1	JRWUDFRF	Ultimate default RECFM for SYSIN datasets for the job
2462	(99E)	SIGNED	2	JRWMAXRL	Longest sysin record scanned so far
2464	(9A0)	SIGNED	2	JRWUDFLR	Ultimate default LRECL for SYSIN datasets for the job
2468	(9A4)	SIGNED	4	JRWDSKEY	Data set key
		Estimates for LINES/BYTES/CARDS/PAGES scanned from the job statement.			
2472	(9A8)	SIGNED	4	JRWESTLN	Line estimate
2476	(9AC)	SIGNED	4	JRWESTPU	Punch estimate
2480	(9B0)	SIGNED	4	JRWESTPG	Page estimate
2484	(9B4)	SIGNED	4	JRWESTBY	Byte estimate
2488	(9B8)	BITSTRING	1	JRWESTL2	Second parm of LINES set
2489	(9B9)	BITSTRING	1	JRWESTC2	Second parm of CARDS set
2490	(9BA)	BITSTRING	1	JRWESTP2	Second parm of PAGES set
2491	(9BB)	BITSTRING	1	JRWESTB2	Second parm of BYTES set
2491	(9BB)	X'9A8'	0	JRWESTXX	"JRWESTLN,*-JRWESTLN" Length of all estimate flds
2492	(9BC)	ADDRESS	4	JRWTCB	Owning TCB
2496	(9C0)	DBL WORD	8	JRWTEMP	Double word work area
		The following list represents entry points to routines that are environment peculiar. Users of routines in SRIP must fill in the addresses with entry point values that support the function. If the function is not supported in a particular environment, then the address is left as zero.			
2504	(9C8)	ADDRESS	4	JRW_BASE(0)	First routine address

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2504	(9C8)	ADDRESS	4	JRW_RJQEUPD	JQE update routine
2508	(9CC)	ADDRESS	4	JRW_RCLSSYSI	Close open SYSIN data set
2512	(9D0)	ADDRESS	4	JRW_WRTBUFRS	Write out buffers to SPOOL
2516	(9D4)	ADDRESS	4	JRW_WRJCTIOT	Finish write of JCT/IOTs
2520	(9D8)	ADDRESS	4	JRW_RWRTJOB	Ensure tracks obtained
2524	(9DC)	ADDRESS	4	JRW_RQMODJOB	$QMOD JQE to proper queue
2528	(9E0)	ADDRESS	4	JRW_RJOBWTO	Job Receiver Notification
2532	(9E4)	ADDRESS	4	JRW_RJCBPROC	Process Q'ed Msgs/CMB JRCBs
2536	(9E8)	ADDRESS	4	JRW_RJCTTERM	JCT cleanup
2540	(9EC)	ADDRESS	4	JRW_JCLINS	Deal with JCL insert
2540	(9EC)	X'9C8'	0	JRW_LIST	"JRW_BASE,*-JRW_BASE" Environment list
2544	(9F0)	SIGNED	4	(5)	Reserved
2568	(A08)	DBL WORD	8	(0)	
2568	(A08)	DBL WORD	8	(0)	Force Dword alignment
2568	(A08)	BITSTRING	48	JRWCRTSY	Parm block for HASPRDDS.
2616	(A38)	CHARACTER	1	JRWOPNSP	Open spool parm list
	Work areas for parsing notification parameters				
2648	(A58)	SIGNED	4	(0)	Alignment
2648	(A58)	CHARACTER	8	JRWWNODE	Node name work area
2656	(A60)	CHARACTER	8	JRWWUSER	User id work area
2664	(A68)	BITSTRING	1	JRWWAFF	Affinity work area
2665	(A69)	BITSTRING	1	JRWWTYPE	Notification type see JSFTYPE in $JSMT
2666	(A6A)	SIGNED	2	JRWWEMLL	Length of data in JRWEML
2668	(A6C)	CHARACTER	256	JRWWEML	Email address work area
2924	(B6C)	BITSTRING	64	JRWWRPN	RPN area for WHEN=
2988	(BAC)	BITSTRING	1	JRWWRPNL	RPN size
2989	(BAD)	BITSTRING	3		Reserved
2992	(BB0)	ADDRESS	4	JRWWNFBM	NOTIFY statement bookmark
	JRWNFYT points to a table with data from all NOTIFY statements in a job. This is a symbol table in the format mapped by IAZSYMDF. Symbols in the table are SYS_NOTIFYnn - see JSMNFY in $JSMT.				
2996	(BB4)	ADDRESS	4	JRWNFYT	Ptr to NOTIFY table
3000	(BB8)	BITSTRING	1	JRWNFYF	Notification control flags
		1...		JRWNFSUI	"B'10000000'" pending &SYSUID substitution
3002	(BBA)	SIGNED	2	JRWSASID	ASID of address space doing job input processing
3004	(BBC)	BITSTRING	1		Reserved
	Bookmarks for placing delayed messages in correct logical sequence in JESJCLIN				
3008	(BC0)	ADDRESS	4	JRWBKREQ	Bookmark request (ptr to bookmark ptr)

Table 265. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3012	(BC4)	ADDRESS	4	JRWJBMRK	Bookmark control for post JOB card insert
3016	(BC8)	ADDRESS	4	JRWNBMRK	Bookmark control for post / NET card insert
3024	(BD0)	DBL WORD	8	(0)	Alignment
3024	(BD0)	X'BD0'	0	JRWLEN	"*-JRW" Length of area
		The following fields exist only in a JRW that is not in the JES2 address space (NETSERV, INTRDR, Request JOBID, etc)			
3024	(BD0)	ADDRESS	4	JRWSAVEA	JRW save area stack
3028	(BD4)	SIGNED	4	JRWHRGSV(4)	High half R14-R1 save area
3044	(BE4)	SIGNED	4	JRWARGSV(4)	AR14-AR1 save area
3060	(BF4)	BITSTRING	128	JRWPJCL	JCLIN data set parm list
3188	(C74)	BITSTRING	128	JRWPSYSN	SYSIN data set parm list
3316	(CF4)	ADDRESS	4	JRWPCUR	Last JRWPUTPL used in I/O
3320	(CF8)	ADDRESS	4	JRWSJB	SJB address
3324	(CFC)	ADDRESS	4	(3)	Reserved
3336	(D08)	BITSTRING	1	JRWNFLG1	Status flags
		1...		JRWN1ERR	"B'10000000'" Processing detected error
3337	(D09)	BITSTRING	1	JRWNFLG2	Status flags
3338	(D0A)	BITSTRING	6		Reserved
3344	(D10)	ADDRESS	8	JRWRJQE	Real JQE address in live
3352	(D18)	SIGNED	4	JRWRJQEA	version and ALET
3356	(D1C)	BITSTRING	4		Reserved
3360	(D20)	DBL WORD	8	(0)	Align
3360	(D20)	X'D20'	0	JRWCLEN	"*-JRW" Length of JRW in NETSRV address space
3360	(D20)	X'348'	0	JRWWORDS	"JRWCLEN/4" Largest JRW size in words.

Table 266. Structure RCSL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RCSL	, Reader card scan DSECT
0	(0)	CHARACTER	12	RCSLKEY	Keyword
12	(C)	ADDRESS	4	RCSLRTN	Processing routine
16	(10)	BITSTRING	1	RCSLPOSN	Positional parm number (0 implies all positional)
17	(11)	BITSTRING	1	RCSLFLG1	Flag byte
		1...		RCSL1ASI	"B'10000000'" Leave apostrophes as is
		.1..		RCSL1NSP	"B'01000000'" Leave enclosing parens
		..1.		RCSL1REQ	"B'00100000'" Required operand
		...1		RCSL1BLK	"B'00010000'" Skip blanks after keyword
		.... 1...		RCSL1LST	"B'00001000'" Value is a list
		.... .1..		RCSL1ALI	"B'00000100'" Keyword is an alias of prior keyword

Table 266. Structure RCSL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		RCSL1NAL	"B'00000010'" Keyword is an alias of next keyword
18	(12)	BITSTRING	1	RCSLLSIZ	List element size
19	(13)	BITSTRING	1		Reserved
19	(13)	X'14'	0	RCSLELEN	"*-RCSL" Length of table entry

Table 267. Structure JRWPUTPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRWPUTPL	, CPUT parameter list DSECT
0	(0)	ADDRESS	4	JRWPLACB	ACB address
4	(4)	ADDRESS	4	JRWPLRPL	RPL address
8	(8)	ADDRESS	4	JRWPLDEB	DEB address
12	(C)	ADDRESS	4	JRWPLSDB	SDB address
16	(10)	ADDRESS	4	JRWPLREC	IAZYTDBC or record to put
24	(18)	DBL WORD	8	JRWPTMP	8 byte work area
32	(20)	BITSTRING	1	JRWPLCC	Carriage control
33	(21)	BITSTRING	1	JRWPLLRC	LRC to be used
34	(22)	SIGNED	2	JRWPLRCL	Record LRECL
36	(24)	CHARACTER	64	JRWPELBL	Input SYSIN DSKEYLBL label
100	(64)	BITSTRING	1	JRWPLENG	Length of JRWPELBL
101	(65)	BITSTRING	1	JRWPLFG1	Control flags
		1...		JRWPL1DB	"B'10000000'" JRWPLREC points to a IAZYTDBC with record
		.1..		JRWPL1AS	"B'01000000'" Use ASYNC put (ie NETSRV)
		..1.		JRWPL1TR	"B'00100000'" Truncate current buffer
		...1		JRWPL1JL	"B'00010000'" JCL data set (will be read by converter)
		.... 1...		JRWPENCR	"B'00001000'" Encryption label supplied
Work areas used by CPUT and close processing					
102	(66)	BITSTRING	1	JRWPLFG2	Data flag byte
		1...		JRWPL2FR	"B'10000000'" At least one record proc
		.1..		JRWPL2VA	"B'01000000'" Record sized vary
		..1.		JRWPL2CA	"B'00100000'" ASA control character found
		...1		JRWPL2CM	"B'00010000'" Machine control chars found
104	(68)	SIGNED	2	JRWPLMLR	Max LRECL seen by CPUT
108	(6C)	SIGNED	4	(0)	Align
108	(6C)	SIGNED	4	(5)	Reserved.
108	(6C)	X'80'	0	JRWPLSIZ	"*-JRWPUTPL" Parameter list size

Table 268. Structure JRWGRP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRWGRP	, JOB GROUP DSECT

Table 268. Structure JRWGRP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	8	JRWGRPNM	GROUP/ZOD name if JRWGFLA1 -> JRW1GROP.
8	(8)	ADDRESS	4	JRWRKADD	Address of work addr used for / NET STMT processing
12	(C)	BITSTRING	4		Alignment
16	(10)	ADDRESS	8	JRWZOD	Address of ZOD associated with GRUP
24	(18)	CHARACTER	8	JRWJOBNM	Name of last GJOB or JOBSET proceesed
32	(20)	CHARACTER	8	JRWTEMPX	Work variable
40	(28)	CHARACTER	80	JRWNAMAR	BEFORE/AFTER/CONCURRENT name array
120	(78)	SIGNED	4	JRWNUMEN	Number of entries in JRWNAMAR array
124	(7C)	BITSTRING	1	JRWGFLA1	Group JCL parsing status
		1...		JRW1GRER	"B'10000000'" An error has been encountered and the GROUP must not live on.
		.1..		JRW1SCAN	"B'01000000'" TYPE=SCAN was specified on GROUP card
		..1.		JRW1GROP	"B'00100000'" A valid JOB GROUP is being processed - ZOD exists. Native JEC group.
		...1		JRW1PRVV	"B'00010000'" Previous card (GJOB or JOBSET) was valid. See JRWPRVCD to determine type of previous card
		.... 1...		JRW1ANYF	"B'00001000'" ANYFLUSH specified on GJOB or JOBSET denoted by JRWJOBNM
		.... .1..		JRW1ALLF	"B'00000100'" ALLFLUSH specified on GJOB or JOBSET
		.... ..1.		JRW1BAOK	"B'00000010'" Before OR After name= processing was successful
		1		JRW1SJOB	"B'00000001'" Current JOBSET - at least one SJOB seen
125	(7D)	BITSTRING	1	JRWPRVCD	Previous card processed.
		....		JRWNOTAP	"X'00'" Previous card not relevant
		1		JRWACTGJ	"X'01'" GJOB was previous card
		.... ..1.		JRWACTJS	"X'02'" JOBSET was previous card
125	(7D)	X'8'	0	JRWNAMSZ	"8" Size of a NAME array entry
125	(7D)	X'A'	0	JRWNAME#	"10" Number of NAME array entries
126	(7E)	BITSTRING	1	JRWGFLA2	Flag 2
		1...		JRW2ENDG	"B'10000000'" End group card seen
		.1..		JRW2NETZ	"B'01000000'" Job associated with / NET STMT
127	(7F)	BITSTRING	1		Slack byte
128	(80)	SIGNED	4	(0)	Align
128	(80)	X'80'	0	JRWGRSIZ	"*-JRWGRP" Group JRW size

Table 269. Structure BOOKMRK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BOOKMRK	, Bookmark management
0	(0)	CHARACTER	4	BMREYE	Eye catcher
4	(4)	BITSTRING	8	BMRKRBA	RBA for block of insertion
4	(4)	X'4'	0	BMRKMQTR	"BMRKRBA,6" MQTR of block of insertion

Table 269. Structure BOOKMRK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	4	BMRKMTTR	MTTR of block after insert
12	(C)	X'10'	0	BMRKLEN	"*-BOOKMRK" Length of block

Table 270. Cross Reference for $JRW

Name	Offset	Hex Tag
$RJOBERR	8F8	2
$RJOBFND	8F8	8
$RNPAREN	8F9	80
$RNPASER	8F8	20
$RNPQCNT	8F9	40
$RNPQUOT	8F8	80
$RPASFND	8F8	1
$RPASPHR	8F8	40
$RPSWCNT	8F8	10
$RPSWPRC	8F8	4
BMREYE	0	C2D4D9D2
BMRKLEN	C	10
BMRKMQTR	4	4
BMRKMTTR	C	
BMRKRBA	4	
BOOKMRK	0	
JRW	0	
JRW$DATA	91	8
JRW$DSH	91	20
JRW$DST	91	10
JRW$EOF	91	4
JRW$EXP	90	
JRW$JES2	91	2
JRW$JH	91	80
JRW$JT	91	40
JRW$LST	91	
JRW$SPOF	91	1
JRW_BASE	9C8	
JRW_JCLINS	9EC	
JRW_LIST	9EC	9C8
JRW_RCLSSYSI	9CC	
JRW_RJCBPROC	9E4	
JRW_RJCTTERM	9E8	
JRW_RJOBWTO	9E0	
JRW_RJQEUPD	9C8	
JRW_RQMODJOB	9DC	
JRW_RWRTJOB	9D8	
JRW_WRJCTIOT	9D4	
JRW_WRTBUFRS	9D0	
JRWACCTL	909	

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWACTGJ	7D	1
JRWACTJS	7D	2
JRWAREA	20	
JRWARGSV	BE4	
JRWBKREQ	BC0	
JRWCCTL	991	
JRWCDLEN	998	
JRWCDLRC	999	
JRWCDLRL	992	
JRWCDLR1	992	993
JRWCLASX	854	
JRWCLEAR	90	48
JRWCLEN	D20	D20
JRWCLRST	48	
JRWCPSWK	95	
JRWCRSV1	12	
JRWCRSV2	6D	
JRWCRTSY	A08	0
JRWCUREC	60	
JRWDACCT	908	C
JRWDADJX	85F	18
JRWDBL	78	
JRWDBLE	80	
JRWDBLE1	88	
JRWDCNGR	908	12
JRWDCONT	908	3
JRWDDATA	908	10
JRWDDELP	908	4
JRWDDIR	85F	14
JRWDDUB	85F	4
JRWDEFLR	99A	
JRWDEFRF	99C	
JRWDELRS	908	
JRWDERR	908	6
JRWDEVID	F	
JRWDEVN	4	
JRWDEVTP	E	
JRWDIOER	908	7
JRWDJECL	908	8
JRWDJNAL	908	13
JRWDJOBC	908	1
JRWDJSMT	908	11
JRWDLM	90C	
JRWDLML	90B	
JRWDOPER	908	5
JRWDOWN	85F	8

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWDPROT	908	E
JRWDSAF	908	D
JRWDSKEL	95E	
JRWDSKEY	9A4	
JRWDSLAB	91E	
JRWDSTOP	908	B
JRWDSUB	85F	10
JRWDSYSN	908	A
JRWDTKN	85F	1C
JRWDUBIE	85F	
JRWDUNKN	85F	C
JRWDXEQN	908	9
JRWDXIT4	908	2
JRWDXMIT	908	F
JRWECBCC	30	
JRWECLJ2	960	80
JRWECLJ3	960	40
JRWECLT	960	
JRWEMAIL	A0	
JRWEMALL	9E	
JRWEMLWA	1A0	
JRWEMLWZ	1A4	
JRWENSRV	9D	10
JRWENTRY	96C	
JRWENVIR	9D	
JRWERDR	9D	0
JRWESBMT	9D	18
JRWESTBY	9B4	
JRWESTB2	9BB	
JRWESTC2	9B9	
JRWESTLN	9A8	
JRWESTL2	9B8	
JRWESTPG	9B0	
JRWESTPU	9AC	
JRWESTP2	9BA	
JRWESTXX	9BB	9A8
JRWEUSER	9D	8
JRWEYE	0	D1D9E640
JRWFDJRW	1D8	
JRWFLAGN	9C	
JRWFLAGX	95F	
JRWFLAG2	92	
JRWFLAG3	93	
JRWFLAG4	94	
JRWFLAG5	96	
JRWFLAG6	97	

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWFLAG7	98	
JRWFLAG8	99	
JRWGFLA1	7C	
JRWGFLA2	7E	
JRWGRARE	658	
JRWGRP	0	
JRWGRPNM	0	
JRWGRSIZ	80	80
JRWHRGSV	BD4	
JRWINFLG	990	
JRWINJNO	8E0	
JRWIOT	50	
JRWIOTBF	50	50
JRWIOTCT	85C	
JRWIOTL	858	
JRWJBMRK	BC4	
JRWJCLAS	874	
JRWJCT	4C	
JRWJCTSV	850	
JRWJECKY	84C	
JRWJECLT	848	
JRWJECLV	8BC	
JRWJECL2	8BC	8CC
JRWJOBID	64	
JRWJOBKY	8B4	
JRWJOBNM	18	
JRWJPRIO	86C	
JRWJQA	48	
JRWJQE	48	48
JRWJRMNO	562	
JRWJRUCR	894	
JRWJ2CLO	964	
JRWJ2CL1	964	964
JRWJ2CL2	964	965
JRWJ2CL3	964	966
JRWJ2CL4	964	967
JRWJ3CLO	968	
JRWLAJRW	1E0	
JRWLEN	BD0	BD0
JRWMAXRL	99E	
JRWMCLAS	86E	
JRWMSG	580	
JRWMVSRE	9A	1F
JRWMVSRL	9A	
JRWMVS22	9A	20
JRWMVS23	9A	40

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWMVS24	9A	80
JRWMXIND	906	
JRWNACCT	9C	40
JRWNAMAR	28	
JRWNAME#	7D	A
JRWNAMSZ	7D	8
JRWNBLDG	9C	20
JRWNBMRK	BC8	
JRWNDEPT	9C	10
JRWNECBI	6C	7
JRWNECLO	6C	5
JRWNEGG	6C	A
JRWNEIOE	6C	6
JRWNEJOB	6C	1
JRWNEJOE	6C	2
JRWNENJH	6C	8
JRWNEOPE	6C	4
JRWNERRC	6C	
JRWNESAF	6C	C
JRWNESEQ	6C	9
JRWNESJF	6C	B
JRWNESUB	6C	3
JRWNEXTQ	907	
JRWNFLG1	D08	
JRWNFLG2	D09	
JRWNFSUI	BB8	80
JRWNFYF	BB8	
JRWNFYT	BB4	
JRWNITAD	34	
JRWNITAL	38	
JRWNITBL	3C	
JRWNJH	54	
JRWNJOFF	8E4	
JRWNJT	58	
JRWNOTAP	7D	0
JRWNPNAM	9C	80
JRWNROOM	9C	8
JRWNSST	24	
JRWNUMEN	78	
JRWNUSER	9C	4
JRWNXJRW	1DC	
JRWN1ERR	D08	80
JRWOCT	860	
JRWOJCLS	884	
JRWOLABL	904	
JRWOPNSP	A38	

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWPARCT	226	
JRWPAREA	1C	
JRWPCUR	CF4	
JRWPDDB	868	
JRWPELBL	24	
JRWPENCR	65	8
JRWPJCL	BF4	
JRWPLACB	0	
JRWPLCC	20	
JRWPLDEB	8	
JRWPLENG	64	
JRWPLFG1	65	
JRWPLFG2	66	
JRWPLLRC	21	
JRWPLMLR	68	
JRWPLRCL	22	
JRWPLREC	10	
JRWPLRPL	4	
JRWPLSDB	C	
JRWPLSIZ	6C	80
JRWPL1AS	65	40
JRWPL1DB	65	80
JRWPL1JL	65	10
JRWPL1TR	65	20
JRWPL2CA	66	20
JRWPL2CM	66	10
JRWPL2FR	66	80
JRWPL2VA	66	40
JRWPOCT	864	
JRWPRINC	86F	
JRWPRINT	568	
JRWPRJCB	8EC	
JRWPRLIM	870	
JRWPRNOD	568	
JRWPRRTE	56A	
JRWPRSER	56C	
JRWPRVCD	7D	0
JRWPSWD	8F8	
JRWPSWD2	8F9	
JRWPSYSN	C74	
JRWPTMP	18	
JRWPUNCH	574	
JRWPUNOD	574	
JRWPURTE	576	
JRWPUSER	578	
JRWPUTPL	0	

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWP1CHR	8F4	
JRWP1STR	8F0	
JRWRAUTH	90A	
JRWRCC	8DC	
JRWRCOUN	5C	
JRWRDNOD	564	
JRWRDRT	564	
JRWRDRTE	566	
JRWRECRD	994	
JRWRJCB	1E4	
JRWRJCBB	200	
JRWRJCBC	208	
JRWRJCBD	204	
JRWRJCBF	1EC	
JRWRJCBI	20C	
JRWRJCBM	1FC	
JRWRJCBN	1E8	
JRWRJCBO	210	
JRWRJCBP	1F8	
JRWRJCBS	1F4	
JRWRJCBX	1F0	
JRWRJCB1	1E4	
JRWRJCFS	1EC	C
JRWRJCNM	210	C
JRWRJQE	D10	
JRWRJQEA	D18	
JRWRJSIZ	210	30
JRWRKADD	8	
JRWRSCER	25E	
JRWRSCKY	25E	2
JRWRSCNA	24C	
JRWRSCNK	240	
JRWRSCNL	258	
JRWRSCNM	25C	
JRWRSCNP	25A	
JRWRSCNV	260	
JRWRSCOP	25E	1
JRWRSFL1	25F	
JRWRSLNG	25F	80
JRWSAF	8E8	
JRWSAFI	6D8	
JRWSASID	BBA	
JRWSAVEA	BD0	
JRWSGRP	988	
JRWSJB	CF8	
JRWSJBID	970	

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWSJNAM	978	
JRWSQD	18	
JRWSTIML	1B8	0
JRWSTMT	21C	
JRWSTMTC	23C	
JRWSTMTE	220	
JRWSTMTL	234	
JRWSTMTS	224	
JRWSTMTV	228	
JRWSUSR	980	
JRWSVCLS	87C	
JRWSW1	8FA	
JRWSW2	8FB	
JRWSW3	8FC	
JRWSW4	8FD	
JRWSW5	8FE	
JRWSW6	8FF	
JRWTAREA	2C	
JRWTBUF	28	
JRWTCB	9BC	
JRWTEMP	9C0	
JRWTEMPX	20	
JRWTMP32	1B8	
JRWTMP8	1B0	
JRWTOKA	844	
JRWTWA	840	
JRWUDFLR	9A0	
JRWUDFRF	99D	
JRWWAFF	A68	
JRWWAVE	14	
JRWWEML	A6C	
JRWWEMLL	A6A	
JRWWNFBM	BB0	
JRWWNODE	A58	
JRWWORDS	D20	348
JRWWRK16	88	80
JRWWRK24	88	78
JRWWRPN	B6C	
JRWWRPNL	BAC	
JRWWTYPE	A69	
JRWWUSER	A60	
JRWXBMPR	88C	
JRWXCONT	95F	8
JRWXDATE	44	
JRWXEQND	560	
JRWXJCL	95F	1

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWXJECL	95F	2
JRWXJOBC	95F	4
JRWXJOBP	95F	40
JRWXTIME	40	
JRWXXSEM	95F	20
JRWXXSNC	95F	10
JRWZOD	10	
JRW1ALLF	7C	4
JRW1ANYF	7C	8
JRW1BAOK	7C	2
JRW1GRER	7C	80
JRW1GROP	7C	20
JRW1IXEQ	8FA	10
JRW1JKIL	8FA	8
JRW1JVFY	8FA	40
JRW1PRVV	7C	10
JRW1SAFF	8FA	2
JRW1SCAN	7C	40
JRW1SJOB	7C	1
JRW1SREQ	8FA	20
JRW1SYS	8FA	1
JRW1XBGN	8FA	4
JRW2ASAF	8FB	2
JRW2CMNT	92	2
JRW2CNTS	92	E
JRW2CONT	92	8
JRW2COPY	8FB	4
JRW2DATA	92	40
JRW2ENDG	7E	80
JRW2IND	8FB	40
JRW2JBON	8FB	8
JRW2JCAN	8FB	1
JRW2JCL	92	20
JRW2JCLH	8FB	10
JRW2JECL	92	10
JRW2JSRD	8FB	80
JRW2NETZ	7E	40
JRW2QUOT	92	4
JRW2SPCN	92	1
JRW2SYSN	92	80
JRW2XMIT	8FB	20
JRW3DHDR	8FC	2
JRW3FAIL	93	10
JRW3FEOF	93	20
JRW3FLSH	93	40
JRW3JHLD	8FC	4

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRW3MAIN	8FC	80
JRW3MULT	8FC	10
JRW3PURG	93	1
JRW3SHLD	8FC	8
JRW3SKGT	93	8
JRW3SKIP	93	80
JRW3STNF	93	4
JRW3SUBT	8FC	40
JRW3USER	8FC	20
JRW3XMIT	93	2
JRW4FBCL	94	4
JRW4FJCE	94	8
JRW4ILCB	94	10
JRW4ILCD	94	40
JRW4ILLC	94	80
JRW4JCLE	8FD	80
JRW4JQSA	94	20
JRW4NOCL	94	2
JRW4SYSN	8FD	20
JRW4XBCH	8FD	40
JRW5AVF	96	4
JRW5CERR	96	8
JRW5E20T	8FE	10
JRW5GRP	96	2
JRW5GRPH	96	1
JRW5JCPR	96	40
JRW5JPPR	96	80
JRW5OFLF	96	10
JRW5UCRS	96	20
JRW6EXEC	8FF	20
JRW6ICSC	97	40
JRW6JBAD	97	20
JRW6JES3	97	4
JRW6JS3A	97	2
JRW6LERR	97	1
JRW6MSGP	97	10
JRW6NET	8FF	80
JRW6OUT1	8FF	40
JRW6SKIP	97	8
JRW6SPAR	97	80
JRW6TRAK	8FF	10
JRW7EMLI	98	40
JRW7ESSM	98	1
JRW7GRPC	98	10
JRW7LOG	98	8
JRW7NET	98	4

Table 270. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRW7NFDT	98	20
JRW7USET	98	80
JRW8CJP1	99	8
JRW8CJP2	99	4
JRW8CNJH	99	10
JRW8DEFR	99	40
JRW8GTWK	99	20
JRW8J3XJ	99	1
JRW8J3XQ	99	2
JRW8NULL	99	80
RCSL	0	
RCSLELEN	13	14
RCSLFLG1	11	
RCSLKEY	0	
RCSLLSIZ	12	
RCSLPOSN	10	
RCSLRTN	C	
RCSL1ALI	11	4
RCSL1ASI	11	80
RCSL1BLK	11	10
RCSL1LST	11	8
RCSL1NAL	11	2
RCSL1NSP	11	40
RCSL1REQ	11	20
RDWXCONT	95F	8
RDWXJCL	95F	1
RDWXJECL	95F	2
RDWXJOBC	95F	4
RDWXJOBP	95F	40
RDWXXSEM	95F	20
RDWXXSNC	95F	10

$JTW information

$JTW programming interface information

$JTW is a programming interface.

$JTW heading information

Common name: JES2 Job Transmitter Work Area

Macro ID: $JTW

DSECT name: JTW

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: See $PCE (JES2 address space)
0 (NETSRV address space)
Key: See $PCE (JES2 address space)
0 (NETSRV address space)
Residency: See $PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See JTWLEN

Created by: See $PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTJTWA field of the $NSST data area
X046AREA field of the $XPL data area
X056AREA field of the $XPL data area
Imbedded in the PCE in the JES2 address space.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. $JTW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$JTW mapping

Table 271. Structure JTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JTW	, JTW mapped as $NJEWORK
0	(0)	CHARACTER	4	JTWEYE	Eyecatcher
4	(4)	CHARACTER	10	JTWDEVN	Device name
14	(E)	BITSTRING	1	JTWDEVTP	Device type
15	(F)	BITSTRING	3	JTWDEVID	Device id
18	(12)	BITSTRING	2	JTWCRSV1	Reserved
20	(14)	ADDRESS	4	JTWWAVE	WAVE address
24	(18)	ADDRESS	4	JTWSQD	SQD address
28	(1C)	ADDRESS	4	JTWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JTWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JTWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JTWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JTWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JTWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JTWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JTWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JTWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	JTWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JTWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JTWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JTWJQA	Address of JQA
72	(48)	X'48'	0	JTWJQE	"JTWJQA" Address of JQE
76	(4C)	ADDRESS	4	JTWJCT	Address of JCT

Table 271. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	ADDRESS	4	JTWIOT	Address of IOT
80	(50)	X'50'	0	JTWIOTBF	"JTWIOT" Address of IOT
84	(54)	ADDRESS	4	JTWNJH	Network job header address
88	(58)	ADDRESS	4	JTWNJT	Network job trailer address
92	(5C)	SIGNED	4	JTWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JTWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JTWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JTWNERRC	Error code
108	(6C)	X'1'	0	JTWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JTWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JTWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JTWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JTWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JTWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JTWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JTWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JTWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JTWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JTWNESJF	"11" SJF error
108	(6C)	X'C'	0	JTWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JTWCRSV2	Reserved
120	(78)	DBL WORD	8	JTWDBL	Doubleword work area
128	(80)	DBL WORD	8	JTWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JTWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JTWWRK16	"JTWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JTWWRK24	"JTWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JTWCLEAR	"JTWCLRST,*-JTWCLRST,C'X'" Area to clear
144	(90)	ADDRESS	4	JTWLOGST	Address of LOGSTR used in NJJTAUTH
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
152	(98)	DBL WORD	8		SNA WORK AREA
160	(A0)	BITSTRING	256	JTWWORK	WORK AREA
416	(1A0)	SIGNED	4	JTWNJTON(2)	PROCESSOR SIGN-ON TIME AND DATE
424	(1A8)	BITSTRING	1	JTWORCFM	Previous RECFM
425	(1A9)	BITSTRING	1	JTWNRCFM	New RECFM
426	(1AA)	SIGNED	2	JTWOLRCL	Previous LRECL
428	(1AC)	SIGNED	2	JTWNLRCL	New LRECL
430	(1AE)	BITSTRING	1	JTWFLAG1	FLAG BYTE
		1...		JTWF1MSG	"B'10000000'" INACTIVE MESSAGE HAS BEEN ISSUED
		.1..		JTWF1DAT	"B'01000000'" INVALID DATA BLOCK MSG REQUIRED
		..1.		JTWF1HLD	"B'00100000'" HOLD JOB AFTER RESTART OF DEVICE

Table 271. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JTWF1PEF	"B'00010000'" PASSWORD ENCRYPTION FAILED
		.... 1...		JTWF1JDM	"B'00001000'" Write JOB deleted message
		.... .1..		JTWF1CUQ	"B'00000100'" Return job to current queue
		.... ..1.		JTWF1NDT	"B'00000010'" No data records have been transmitted yet.
		1		JTWF1SRC	"B'00000001'" Found an SCR; LRECL/RECFM may have changed
431	(1AF)	BITSTRING	1		Reserved for future use
432	(1B0)	BITSTRING	1	JTWFLAG2	More flags
		1...		JTWF2AUT	"B'10000000'" Authorization failed
		.1..		JTWF2TRC	"B'01000000'" Truncate long SYSIN records
434	(1B2)	SIGNED	2	JTWPCEID	Processor Type
434	(1B2)	X'1B4'	0	JTWLEN	"*-JTW" Length of work DSECT
		The following fields exist only in the JTW in the NETSRV address space			
436	(1B4)	ADDRESS	4	JTWACB	ACB address
440	(1B8)	ADDRESS	4	JTWRPL	RPL address
444	(1BC)	ADDRESS	4	JTWSJB	SJB address
448	(1C0)	ADDRESS	4	JTWSDB	SDB address
452	(1C4)	ADDRESS	4	JTWB32K	32K buffer containing record during RCCS send
456	(1C8)	BITSTRING	1	JTWNFLG1	Progress flags
		1...		JTWN1JHI	"B'10000000'" NJH creation in progress
		.1..		JTWN1JHC	"B'01000000'" NJH creation complete
		..1.		JTWN1JHS	"B'00100000'" NJH has been sent
		...1		JTWN1GTI	"B'00010000'" Get is in progress
		.... 1...		JTWN1JTI	"B'00001000'" NJT creation in progress
		.... .1..		JTWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		JTWN1JTS	"B'00000010'" NJT has been sent
		1		JTWN1EOT	"B'00000001'" EOT has been sent
457	(1C9)	BITSTRING	1	JTWNFLG2	Status flags
		1...		JTWN2ERR	"B'10000000'" Error, abort transmission
		.1..		JTWN2WJ2	"B'01000000'" Wait while JES2 down
		..1.		JTWN2XMS	"B'00100000'" Found 1st card to XMIT
464	(1D0)	DBL WORD	8	(0)	End of JTW area
464	(1D0)	X'1D0'	0	JTWCLEN	"*-JTW" Length of JTW in NETSRV address space

Table 272. Cross Reference for $JTW

Name	Offset	Hex Tag
JTW	0	
JTWACB	1B4	

Table 272. Cross Reference for $JTW (continued)

Name	Offset	Hex Tag
JTWAREA	20	
JTWB32K	1C4	
JTWCLEAR	90	48
JTWCLEN	1D0	1D0
JTWCLRST	48	
JTWCRSV1	12	
JTWCRSV2	6D	
JTWCUREC	60	
JTWDBL	78	
JTWDBLE	80	
JTWDBLE1	88	
JTWDEVID	F	
JTWDEVN	4	
JTWDEVTP	E	
JTWECBCC	30	
JTWEYE	0	D1E3E640
JTWFLAG1	1AE	
JTWFLAG2	1B0	
JTWF1CUQ	1AE	4
JTWF1DAT	1AE	40
JTWF1HLD	1AE	20
JTWF1JDM	1AE	8
JTWF1MSG	1AE	80
JTWF1NDT	1AE	2
JTWF1PEF	1AE	10
JTWF1SRC	1AE	1
JTWF2AUT	1B0	80
JTWF2TRC	1B0	40
JTWIOT	50	
JTWIOTBF	50	50
JTWJCT	4C	
JTWJOBID	64	
JTWJQA	48	
JTWJQE	48	48
JTWLEN	1B2	1B4
JTWLOGST	90	
JTWNECBI	6C	7
JTWNECLO	6C	5
JTWNEGG	6C	A
JTWNEIOE	6C	6
JTWNEJOB	6C	1
JTWNEJOE	6C	2
JTWNENJH	6C	8
JTWNEOPE	6C	4
JTWNERRC	6C	
JTWNESAF	6C	C

Table 272. Cross Reference for $JTW (continued)

Name	Offset	Hex Tag
JTWNESEQ	6C	9
JTWNESJF	6C	B
JTWNESUB	6C	3
JTWNFLG1	1C8	
JTWNFLG2	1C9	
JTWNITAD	34	
JTWNITAL	38	
JTWNITBL	3C	
JTWNJH	54	
JTWNJT	58	
JTWNJTON	1A0	
JTWNLRCL	1AC	
JTWNRCFM	1A9	
JTWNSST	24	
JTWN1EOT	1C8	1
JTWN1GTI	1C8	10
JTWN1JHC	1C8	40
JTWN1JHI	1C8	80
JTWN1JHS	1C8	20
JTWN1JTC	1C8	4
JTWN1JTI	1C8	8
JTWN1JTS	1C8	2
JTWN2ERR	1C9	80
JTWN2WJ2	1C9	40
JTWN2XMS	1C9	20
JTWOLRCL	1AA	
JTWORCFM	1A8	
JTWPAREA	1C	
JTWPCEID	1B2	
JTWRCOUN	5C	
JTWRPL	1B8	
JTWSDB	1C0	
JTWSJB	1BC	
JTWSQD	18	
JTWTAREA	2C	
JTWTBUF	28	
JTWWAVE	14	
JTWWORK	A0	
JTWWRK16	88	80
JTWWRK24	88	78
JTWXDATE	44	
JTWXTIME	40	

$KAWA information

$KAWA heading information

Common name:	Checkpoint Allocation Work Area
Macro ID:	$KAWA
DSECT name:	KAW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	KAWA Offset: 0 Length: 4
Storage attributes:	Subpool: 0 Key: 1 Residency: During Allocation, virtual and real storage are below 16M in the JES2 address space. During Unallocation, virtual and real storage are anywhere in the JES2 address space.
Size:	See KAWALEN
Created by:	JES2 Checkpoint Allocation and Unallocation
Pointed to by:	N/A
Serialization:	None required
Function:	The KAWA is used to map out a work area obtained by CKPTALOC and CKPTUNAL. It is also returned to CKPTALOC's caller if the routine detects an error.

$KAWA mapping

Table 273. Structure KAW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	KAW	CHECKPOINT ALOC WORK AREA
0	(0)	CHARACTER	4	KAWID	EYE CATCHER
4	(4)	ADDRESS	1	KAWAVER	VERSION NUMBER
4	(4)	X'2'	0	KAWAVERN	"2" VERSION EQUATE
5	(5)	BITSTRING	1	KAWFLAG1	FLAG BYTE
		1...		KAW1ALOC	"B'10000000'" ALLOCATE WAS DONE
		.1..		KAW1NEW	"B'01000000'" ALLOCATE DISP=NEW WAS USED
		..1.		KAW1OPEN	"B'00100000'" MVS OPEN WAS DONE
		...1		KAW1RALC	"B'00010000'" Reallocate processing
6	(6)	BITSTRING	1	KAWPARM	PARAMETERS PASSED TO CKPTALOC
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4		Reserved for future IBM use
12	(C)	SIGNED	4	KAWALORT	RETURN CODE FROM MVS DYNALLOC
16	(10)	ADDRESS	4	KAWCKIA	Address of the new CKI
20	(14)	CHARACTER	8	KAWDDNAM	DDNAME FOR DATA SET
28	(1C)	ADDRESS	4	KAWTOTA	ADDRESS OF THE TRACK ONE TABLE
32	(20)	ADDRESS	4	KAWCKG	ADDRESS OF THE CKG
36	(24)	ADDRESS	4	KAWUCB	Address of the UCB
40	(28)	ADDRESS	4	KAWUCBPX	Address of the UCB Prefix
44	(2C)	SIGNED	4	KAWBYTRK	Number of Bytes or Tracks needed for DS (HASP295-6)
48	(30)	SIGNED	4	KAWOBFCC	Error Code from OBTAIN
52	(34)	ADDRESS	4	KAWRBPTR	REQUEST BLOCK POINTER

Table 273. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	SIGNED	4	(0)	Ensure alignment
56	(38)	BITSTRING	20	KAWRB	DYNALLOC REQUEST BLOCK
76	(4C)	SIGNED	4	(0)	Ensure alignment
76	(4C)	BITSTRING	36	KAWRBX	Request block extension
112	(70)	ADDRESS	4	KAWMSG1	Address of returned MSG #1 for DYNALLOC failure
116	(74)	ADDRESS	4	KAWMSG2	Address of returned MSG #2 for DYNALLOC failure
120	(78)	BITSTRING	540	KAWSP	The parm list + returned formatted messages area
660	(294)	SIGNED	4	KAWTXTPT(0)	TEXT POINTERS
660	(294)	ADDRESS	4	KAWTXTP1	ADDRESS OF TEXT UNIT 1
664	(298)	ADDRESS	4	KAWTXTP2	ADDRESS OF TEXT UNIT 2
668	(29C)	ADDRESS	4	KAWTXTP3	ADDRESS OF TEXT UNIT 3
672	(2A0)	ADDRESS	4	KAWTXTP4	ADDRESS OF TEXT UNIT 4
676	(2A4)	ADDRESS	4	KAWTXTP5	ADDRESS OF TEXT UNIT 5
680	(2A8)	ADDRESS	4	KAWTXTP6	ADDRESS OF TEXT UNIT 6
684	(2AC)	ADDRESS	4	KAWTXTP7	ADDRESS OF TEXT UNIT 7
688	(2B0)	ADDRESS	4	KAWTXTP8	ADDRESS OF TEXT UNIT 8 -EAS
692	(2B4)	ADDRESS	4	KAWTXTP9	ADDRESS OF TEXT UNIT 9
696	(2B8)	ADDRESS	4	KAWTXP10	ADDRESS OF TEXT UNIT 10
700	(2BC)	ADDRESS	4	KAWTXP11	Address of text unit 11
704	(2C0)	SIGNED	4	KAWTXT(0)	TEXT UNITS
704	(2C0)	BITSTRING	6	KAWTXT1	TEXT UNIT 1
710	(2C6)	BITSTRING	8	KAWTXT1D	TEXT UNIT 1 PARM
718	(2CE)	BITSTRING	6	KAWTXT2	TEXT UNIT 2
724	(2D4)	BITSTRING	8	KAWTXT2D	TEXT UNIT 2 PARM
732	(2DC)	BITSTRING	6	KAWTXT3	TEXT UNIT 3
738	(2E2)	BITSTRING	8	KAWTXT3D	TEXT UNIT 3 PARM
746	(2EA)	BITSTRING	6	KAWTXT4	TEXT UNIT 4
752	(2F0)	BITSTRING	8	KAWTXT4D	TEXT UNIT 4 PARM
760	(2F8)	BITSTRING	6	KAWTXT5	TEXT UNIT 5
766	(2FE)	BITSTRING	8	KAWTXT5D	TEXT UNIT 5 PARM
774	(306)	BITSTRING	6	KAWTXT6	TEXT UNIT 6
780	(30C)	CHARACTER	44	KAWDSN(0)	DATASET NAME
780	(30C)	BITSTRING	44	KAWTXT6D	TEXT UNIT 6 PARM
824	(338)	BITSTRING	6	KAWTXT7	TEXT UNIT 7
830	(33E)	BITSTRING	8	KAWTXT7D	TEXT UNIT 7 PARM
838	(346)	BITSTRING	7	KAWTXT8	TEXT UNIT 8 - EAS
845	(34D)	BITSTRING	6	KAWTXT9	TEXT UNIT 9
851	(353)	BITSTRING	8	KAWTXT9D	TEXT UNIT 9 PARM
859	(35B)	BITSTRING	6	KAWTXT10	TEXT UNIT 10
865	(361)	BITSTRING	8	KAWTX10D	TEXT UNIT 10 PARM
876	(36C)	SIGNED	4	KAWCMLST(0)	ALIGN ON FULL WORD
876	(36C)	ADDRESS	1		THREE BYTES OF FLAGS
877	(36D)	ADDRESS	1		INDICATING THE FUNC-

Table 273. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
878	(36E)	ADDRESS	1		TION TO BE PERFORMED
879	(36F)	ADDRESS	1		NO OPTION THREE
880	(370)	ADDRESS	4		PARAMETER TWO
884	(374)	ADDRESS	4		PARAMETER THREE
888	(378)	ADDRESS	4		PARAMETER FOUR
892	(37C)	SIGNED	4	(0)	Alignment
892	(37C)	CHARACTER	8	KAWEXTNT(0)	Extent start/end absolute addresses
892	(37C)	BITSTRING	4	KAWLOLIM	Lower CCccch of extent
896	(380)	BITSTRING	4	KAWUPLIM	Upper CCccch of extent
904	(388)	DBL WORD	8	(0)	DOUBLE WORD FOR DSCB
904	(388)	BITSTRING	148	KAWDSCB	DSCB FROM OBTAIN
1052	(41C)	SIGNED	4	(0)	Ensure alignment
1052	(41C)	BITSTRING	36	KAWDEVO	DEVTYPE output area
1088	(440)	BITSTRING	64	KAWAMSGW	HASP414 msg work area
1152	(480)	SIGNED	4	(10)	Reserved
	MF=L work areas				
1192	(4A8)	DBL WORD	8	KAWMFORG(0)	MF=L work areas
------- DEVTYPE MF=L DEVTYPE list form					
1192	(4A8)	SIGNED	4	KAWDEVT(0)	LENGTH OF PARAMETER LIST
1193	(4A9)	ADDRESS	1		VERSION OF PARAMETER LIST
1194	(4AA)	BITSTRING	2		Flags & reserved
1196	(4AC)	ADDRESS	4		ADDRESS OF UCB LIST OR DD NAME
1200	(4B0)	ADDRESS	4		NUMBER OF UCBS IN LIST
1204	(4B4)	ADDRESS	4		ADDRESS OF RESULT AREA
1208	(4B8)	ADDRESS	4		SIZE OF RESULT AREA
1212	(4BC)	ADDRESS	4		ADDRESS OF INFO LIST (DEVTYPE INFO=)
1212	(4BC)	X'18'	0	KAWDEVTL	"*-KAWDEVT" Length of list form
------- IOSCAPU MF=(L,KAWCAPU) IOSCAPU PARM LIST MACDATE -01/22/01-<1>					
0	(0)	X'4A8'	0	M00M1337	"KAWCAPU" ++ IOSCAPU NAME
1192	(4A8)	DBL WORD	8	KAWCAPU(0)	++ IOSCAPU PARM LIST
1192	(4A8)	BITSTRING	1	KAWCAPU_XVERSION	++ INPUT XVERSION
1193	(4A9)	BITSTRING	1	KAWCAPU_XFLAGS1	++ FIELD_LABEL
		1...		KAWCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		KAWCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		KAWCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		KAWCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		KAWCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		KAWCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1194	(4AA)	CHARACTER	2	KAWCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1

Table 273. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1196	(4AC)	ADDRESS	4	KAWCAPU_XUCBPTR	++ XUCBPTR
1200	(4B0)	ADDRESS	4	KAWCAPU_XCAPTPTR	++ XCAPTPTR
1204	(4B4)	CHARACTER	1	KAWCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1205	(4B5)	BITSTRING	1	KAWCAPU_XMASK	++ FIELD_LABEL
		1...		KAWCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		KAWCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		KAWCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		KAWCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1206	(4B6)	BITSTRING	2	KAWCAPU_XASID	++ XASID
1208	(4B8)	CHARACTER	16	KAWCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1208	(4B8)	X'20'	0	KAWCAPUL	"*-KAWCAPU" ++ LENGTH OF PLIST

IOSCAPU-1

------- $BLDMSG MF=L List form of $BLDMSG

1192	(4A8)	SIGNED	4	KAWBLMSG(0)	Control block ID
1196	(4AC)	BITSTRING	4		Console ID
1200	(4B0)	ADDRESS	4		Address of the CART
1204	(4B4)	ADDRESS	4		Pointer for JOBID
1208	(4B8)	ADDRESS	4		Control block address
1212	(4BC)	ADDRESS	4		Display routine address
1216	(4C0)	ADDRESS	4	(6)	6 word work area
1240	(4D8)	ADDRESS	4		Caller's R11 value
1244	(4DC)	BITSTRING	2		ROUT code for Message
1246	(4DE)	BITSTRING	2		Not used
1248	(4E0)	CHARACTER	4		Message ID
1252	(4E4)	CHARACTER	1		Separator character
1253	(4E5)	ADDRESS	1		Flag byte 1
1254	(4E6)	ADDRESS	1		'DISPER'
1255	(4E7)	ADDRESS	1		Flag byte 2
1256	(4E8)	ADDRESS	1		Flag byte 3
1257	(4E9)	ADDRESS	1		Severity of message
1258	(4EA)	CHARACTER	8		Symbolic name of dest.
1266	(4F2)	BITSTRING	14		Not used
1280	(500)	ADDRESS	4	(0)	Ensure multiple of 4
1280	(500)	ADDRESS	2	(0)	

------- UCBLOOK MF=(L,KAWUCBLK) UCBLOOK parameter list
MACDATE -03/18/08-<3>

0	(0)	X'4A8'	0	M00M1340	"KAWUCBLK" ++ UCBLOOK NAME
1192	(4A8)	DBL WORD	8	KAWUCBLK(0)	++ UCBLOOK PARM LIST
1192	(4A8)	BITSTRING	1	KAWUCBLK_XVERSION	++ INPUT XVERSION
1193	(4A9)	BITSTRING	1	KAWUCBLK_XSCHSET	++
1194	(4AA)	BITSTRING	2	KAWUCBLK_XDEVN	++
1196	(4AC)	CHARACTER	4	KAWUCBLK_XDEVNCHAR	++

Table 273. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1200	(4B0)	CHARACTER	6	KAWUCBLK_XVOLSER	++
1206	(4B6)	BITSTRING	1	KAWUCBLK_XDEVCLASS	++ XDEVCLASS
1206	(4B6)	X'0'	0	KAWUCBLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1206	(4B6)	X'1'	0	KAWUCBLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1206	(4B6)	X'2'	0	KAWUCBLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1207	(4B7)	BITSTRING	1	KAWUCBLK_XRESERVED2	++ FIELD_LABEL
		1...		KAWUCBLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1208	(4B8)	ADDRESS	4	KAWUCBLK_XUCBPTR	++
1212	(4BC)	CHARACTER	5	KAWUCBLK_XCOMPID	++
1217	(4C1)	BITSTRING	1	KAWUCBLK_XMASK	++ FIELD_LABEL
		1...		KAWUCBLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		KAWUCBLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		KAWUCBLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		KAWUCBLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		KAWUCBLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		KAWUCBLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1218	(4C2)	BITSTRING	1	KAWUCBLK_XFLAGS	++ FIELD_LABEL
		1...		KAWUCBLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		KAWUCBLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		KAWUCBLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		KAWUCBLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		KAWUCBLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		KAWUCBLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		KAWUCBLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		KAWUCBLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1219	(4C3)	BITSTRING	1	KAWUCBLK_XFLAGS2	++ FIELD_LABEL
		1...		KAWUCBLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		KAWUCBLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		KAWUCBLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		KAWUCBLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1220	(4C4)	ADDRESS	4	KAWUCBLK_XTEXT_ADDR	++ ADDR
1224	(4C8)	SIGNED	4	KAWUCBLK_XTEXT_ALET	++ ALET
1228	(4CC)	CHARACTER	8	KAWUCBLK_XPTOKEN	++
1236	(4D4)	CHARACTER	8	KAWUCBLK_XHELP	++
1244	(4DC)	ADDRESS	4	KAWUCBLK_XIOCTOKEN_ADDR	++ ADDR
1248	(4E0)	SIGNED	4	KAWUCBLK_XIOCTOKEN_ALET	++ ALET
1252	(4E4)	ADDRESS	4	KAWUCBLK_XUCBPAREA_ADDR	++ ADDR

Table 273. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1256	(4E8)	SIGNED	4	KAWUCBLK_XUCBPAREA_ALET	++ ALET
1260	(4EC)	ADDRESS	4	KAWUCBLK_XUCBCXPTR	++
1264	(4F0)	ADDRESS	4	KAWUCBLK_XUCBPXPTR	++
1268	(4F4)	CHARACTER	5	KAWUCBLK_XLDEVNCHAR	++
1273	(4F9)	CHARACTER	3	KAWUCBLK_XRESERVED1	++ FIELD_LABEL
1273	(4F9)	X'54'	0	KAWUCBLKL	"*-KAWUCBLK" ++ LENGTH OF PLIST
				UCBLOOK-3	
1192	(4A8)	BITSTRING	16	KAWPURGE	PURGE parameter list
1192	(4A8)	SIGNED	4	KAWOPEN(0)	ALIGN LIST TO WORD
1192	(4A8)	ADDRESS	1		Option byte
1193	(4A9)	ADDRESS	3		Reserved
1196	(4AC)	ADDRESS	4		DCB or ACB address
1192	(4A8)	SIGNED	4	KAWCLOSE(0)	ALIGN LIST TO FULLWORD
1192	(4A8)	ADDRESS	1		OPTION BYTE
1193	(4A9)	ADDRESS	3		RESERVED BYTES
1196	(4AC)	ADDRESS	4		DCB OR ACB ADDRESS
1280	(500)	DBL WORD	8	(0)	Alignment
1280	(500)	X'500'	0	KAWALEN	"*-KAW" LENGTH OF THE KAWA

Table 274. Structure OBTM414

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OBTM414	, HASP414 parms - obtain error
0	(0)	CHARACTER	8	OBTNFNAM	Checkpoint file name exists if OBTNCK is FF
8	(8)	CHARACTER	44	OBTNDNAM	Dataset name
52	(34)	CHARACTER	6	OBTNVSER	VOLSER NAME
58	(3A)	CHARACTER	4	OBTNCC	Condition code returned from obtain
62	(3E)	BITSTRING	1	OBTNCK	FF denotes checkpoint name has been supplied
62	(3E)	X'3F'	0	OBTMLEN	"*-OBTM414" Length of a HASP414 parms

Table 275. Cross Reference for $KAWA

Name	Offset	Hex Tag
KAW	0	
KAWALEN	500	500
KAWALORT	C	
KAWAMSGW	440	
KAWAVER	4	
KAWAVERN	4	2
KAWBLMSG	4A8	C2D3C440
KAWBYTRK	2C	
KAWCAPU	4A8	
KAWCAPU_KEYUSED_ASID	4A9	10
KAWCAPU_KEYUSED_CAPTOACT	4A9	20
KAWCAPU_KEYUSED_CAPTPTR	4A9	4

Table 275. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWCAPU_KEYUSED_CAPTUCB	4A9	80
KAWCAPU_KEYUSED_UCAPTUCB	4A9	40
KAWCAPU_KEYUSED_UCBPTR	4A9	8
KAWCAPU_XASID	4B6	
KAWCAPU_XCAPTCOM_NEVER	4B5	10
KAWCAPU_XCAPTCOM_YES	4B5	20
KAWCAPU_XCAPTPTR	4B0	
KAWCAPU_XFLAGS1	4A9	
KAWCAPU_XLASTING_YES	4B5	40
KAWCAPU_XMASK	4B5	
KAWCAPU_XMSIFREE_YES	4B5	80
KAWCAPU_XRESERVED1	4AA	
KAWCAPU_XRESERVED2	4B4	
KAWCAPU_XRESERVED3	4B8	
KAWCAPU_XUCBPTR	4AC	
KAWCAPU_XVERSION	4A8	
KAWCAPUL	4B8	20
KAWCKG	20	
KAWCKIA	10	
KAWCLOSE	4A8	
KAWCMLST	36C	
KAWDDNAM	14	
KAWDEVO	41C	
KAWDEVT	4A8	18
KAWDEVTL	4BC	18
KAWDSCB	388	
KAWDSN	30C	
KAWEXTNT	37C	
KAWFLAG1	5	
KAWID	0	D2C1E6C1
KAWLOLIM	37C	
KAWMFORG	4A8	
KAWMSG1	70	
KAWMSG2	74	
KAWOBFCC	30	
KAWOPEN	4A8	
KAWPARM	6	
KAWPURGE	4A8	
KAWRB	38	
KAWRBPTR	34	
KAWRBX	4C	
KAWSP	78	
KAWTOTA	1C	
KAWTXP10	2B8	
KAWTXP11	2BC	
KAWTXT	2C0	

Table 275. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWTXTPT	294	
KAWTXTP1	294	
KAWTXTP2	298	
KAWTXTP3	29C	
KAWTXTP4	2A0	
KAWTXTP5	2A4	
KAWTXTP6	2A8	
KAWTXTP7	2AC	
KAWTXTP8	2B0	
KAWTXTP9	2B4	
KAWTXT1	2C0	
KAWTXT1D	2C6	
KAWTXT10	35B	
KAWTXT2	2CE	
KAWTXT2D	2D4	
KAWTXT3	2DC	
KAWTXT3D	2E2	
KAWTXT4	2EA	
KAWTXT4D	2F0	
KAWTXT5	2F8	
KAWTXT5D	2FE	
KAWTXT6	306	
KAWTXT6D	30C	
KAWTXT7	338	
KAWTXT7D	33E	
KAWTXT8	346	
KAWTXT9	34D	
KAWTXT9D	353	
KAWTX10D	361	
KAWUCB	24	
KAWUCBLK	4A8	
KAWUCBLK_KEYUSED_COMPID	4C2	8
KAWUCBLK_KEYUSED_DEVN	4C2	80
KAWUCBLK_KEYUSED_DEVNCHAR	4C2	40
KAWUCBLK_KEYUSED_HELP	4C2	4
KAWUCBLK_KEYUSED_LASTING	4C2	10
KAWUCBLK_KEYUSED_LDEVNCHAR	4C3	20
KAWUCBLK_KEYUSED_PIN	4C2	2
KAWUCBLK_KEYUSED_PINPATHS	4C2	1
KAWUCBLK_KEYUSED_SCHSET	4C3	10
KAWUCBLK_KEYUSED_UCBCXPTR	4C3	80
KAWUCBLK_KEYUSED_UCBPXPTR	4C3	40
KAWUCBLK_KEYUSED_VOLSER	4C2	20
KAWUCBLK_XCOMPID	4BC	
KAWUCBLK_XDEVCLASS	4B6	
KAWUCBLK_XDEVCLASS_DASD	4B6	2

Table 275. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWUCBLK_XDEVCLASS_DASDTAPE	4B6	0
KAWUCBLK_XDEVCLASS_TAPE	4B6	1
KAWUCBLK_XDEVN	4AA	
KAWUCBLK_XDEVNCHAR	4AC	
KAWUCBLK_XDYNAMIC_NO	4C1	40
KAWUCBLK_XFLAGS	4C2	
KAWUCBLK_XFLAGS2	4C3	
KAWUCBLK_XHELP	4D4	
KAWUCBLK_XIOCTOKEN_ADDR	4DC	
KAWUCBLK_XIOCTOKEN_ALET	4E0	
KAWUCBLK_XLDEVNCHAR	4F4	
KAWUCBLK_XLOC_ANY	4C1	10
KAWUCBLK_XMASK	4C1	
KAWUCBLK_XNONBASE_YES	4C1	80
KAWUCBLK_XNOTFIND_YES	4B7	80
KAWUCBLK_XPTOKEN	4CC	
KAWUCBLK_XRANGE_3DIGIT	4C1	20
KAWUCBLK_XRESERVED1	4F9	
KAWUCBLK_XRESERVED2	4B7	
KAWUCBLK_XSCHSET	4A9	
KAWUCBLK_XSPECIAL_YES	4C1	8
KAWUCBLK_XTEXT_ADDR	4C4	
KAWUCBLK_XTEXT_ALET	4C8	
KAWUCBLK_XUCBCXPTR	4EC	
KAWUCBLK_XUCBPAREA_ADDR	4E4	
KAWUCBLK_XUCBPAREA_ALET	4E8	
KAWUCBLK_XUCBPTR	4B8	
KAWUCBLK_XUCBPXPTR	4F0	
KAWUCBLK_XUNBOUND_ALIAS_YES	4C1	1
KAWUCBLK_XVERSION	4A8	
KAWUCBLK_XVOLSER	4B0	
KAWUCBLKL	4F9	54
KAWUCBPX	28	
KAWUPLIM	380	
KAW1ALOC	5	80
KAW1NEW	5	40
KAW1OPEN	5	20
KAW1RALC	5	10
M00M1337	0	4A8
M00M1340	0	4A8
OBTMLEN	3E	3F
OBTM414	0	
OBTNCC	3A	
OBTNCK	3E	
OBTNDNAM	8	
OBTNFNAM	0	

Table 275. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
OBTNVSER	34	

$LMT information

$LMT heading information

Common name: Load Module Table

Macro ID: $LMT

DSECT name: LMT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'LMT '
Offset: LMT-$CSBPRFX+$CSBID
Length: 4

Storage attributes: Subpool: 0 (private chain), 241 (CSA chain)
Key: 1
Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M). There are two chains of LMTs. One is in the private storage of the JES2 address space, the other is in CSA.

Size: LMTLEN plus standard CSA prefix (CSBPRFX equate in the $HASPEQU data area) per entry, whether PVT or CSA

Created by: $MODLOAD

Pointed to by: Private LMT chain pointers:
$LMT1 field of the HCT data area -
Points to head of chain, which connects also to the CSA chain. This is the only anchor that should be used by LMT search routines.
$LMTPBOT field of the HCT data area -
Points to the last private entry, for internal use by $MODLOAD only
---
Common LMT chain pointers:
CCTLMT1 field of the HCCT data area -
Points to head of CSA chain (middle of composite private/CSA chain).
$LMTC field of the HCT data area -
An HCT copy of the CCTLMT1 value, for internal use by $MODLOAD only.

LMTCHAIN field of the $LMT data area

Serialization: Entries cannot be removed from the chains once added, and should be added in a way that allows multi-tasking references.

Function: The LMT contains an entry for each JES2 module loaded via $MODLOAD. $MODLOAD adds the entries. $MODELET invalidates an entry. Invalidation is a 2 step process. First the module is logically deleted (bit LMT2DELT is set). Once it is determined the module can be physically deleted (see MCKDELET for details), then the module is deleted and the LMT invalidated (bit LMT1INVD is set).
There are two LMT chains. One is chained from the HCCT for entries for those modules loaded into common storage. The other has entries for those loaded into private storage and is chained from the HCT. On abnormal termination the common LMTs are not freed. On a hot start the common LMTs are still valid, so only the private LMTs are rebuilt from new LOADMOD initialization parameters.
The LMT chains are built with dynamic storage for each $MODLOAD call. At any given time the last element in the private LMT chain points to the first in the CSA chain, thereby allowing a single LMT chain loop to access all LMT entries (starting from the HCT anchor).

$LMT mapping

Table 276. Structure LMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMT	HASP LOAD MODULE TABLE DSECT
		The following fields are used by internal tools. Do not change the offsets of these fields.			
0	(0)	CHARACTER	8	LMTMODNM	LOAD MODULE NAME
8	(8)	ADDRESS	4	LMTMITAD	POINTER TO MIT
12	(C)	SIGNED	4	LMTESIZE(0)	Module subpool and length
12	(C)	BITSTRING	1	LMTSUBPL	Subpool, only if direct ld
13	(D)	ADDRESS	3	LMTMODLN	Module length in all cases
16	(10)	ADDRESS	4	LMTBASEA	ALT. MODULE BASE FOR REP FACIL.
20	(14)	BITSTRING	1	LMTFLG1	FLAG FOR LMT ENTRY
		1...		LMT1DIRL	"B'10000000'" MODULE DIRECTLY LOADED
		.1..		LMT1CMN	"B'01000000'" MODULE LOADED INTO COMMON STOR
		..1.		LMT1PVT	"B'00100000'" MODULE LOADED INTO PRIVATE
		...1		LMT1INVD	"B'00010000'" INVALID LMT ENTRY
		.... 1...		LMT1LOAD	"B'00001000'" Loaded via LOADMOD parm stmt or operator command
		.... .1..		LMT1IBM	"B'00000100'" THIS IS AN IBM LOAD MODULE
		.... ..1.		LMT1BSPL	"B'00000010'" Bypass SPLEVEL check
		1		LMT1OS	"B'00000001'" Module is an OS module
21	(15)	BITSTRING	1	LMTFLG2	FLAG 2 FOR LMT ENTRY
		1...		LMT2CMNR	"B'10000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN COMMON STOR
		.1..		LMT2PVTR	"B'01000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN PRIVATE STOR
		..1.		LMT2LPAR	"B'00100000'" REQUEST FROM LOADMOD STATEMENT TO USE LPA COPY OF MODULE
		...1		LMT2RM24	"B'00010000'" Load module was loaded below the line
		.... 1...		LMT2RM31	"B'00001000'" Load module was loaded above the line
		.... .1..		LMT2REFR	"B'00000100'" Request from LOADMOD to refresh this module
		.... ..1.		LMT2DELT	"B'00000010'" Module logically deleted (may still be in storage)
		1		LMT2NDYN	"B'00000001'" Module does not support DYNAMIC commands
22	(16)	BITSTRING	1	LMTFLG3	Flag 3 for LMT entry
		1...		LMT3DTBL	"B'10000000'" Module has dynamic tables
		.1..		LMT3NXRT	"B'01000000'" No XRTs for this LMT
		..1.		LMT3FDEL	"B'00100000'" Force delete the LMT
		...1		LMT3FREE	"B'00010000'" Module has been freed
		.... 1...		LMT3MCKD	"B'00001000'" $MODCHK delete succeeded

Table 276. Structure LMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		LMT3DRNN	"B'00000100'" $$$$DEL returned RC=4 (do not delete now)
		.... ..1.		LMT3DRND	"B'00000010'" $$$$DEL returned RC=8 (never delete)
		1		LMT3RFIP	"B'00000001'" Module was refreshed in place (refreshed LPA module with same copy)
23	(17)	BITSTRING	1	LMTFLG4	Flag 4 for LMT entry
		1...		LMT4LWPC	"B'10000000'" $$$$LOAD was called
		.1..		LMT4LFIX	"B'01000000'" LMT has been page fixed
		..1.		LMT4LPA	"B'00100000'" Module found in LPA
24	(18)	ADDRESS	4	LMTCHAIN	CHAIN POINTER TO NEXT LMT
End of fields used by internal tools.					
28	(1C)	ADDRESS	4	LMTENTRY	Entry addr returned by LOAD
32	(20)	ADDRESS	4	LMTADELR	Additional $$$$DEL routine
36	(24)	SIGNED	4		Reserved
40	(28)	DBL WORD	8	LMTTIME	Time LMT was created
48	(30)	DBL WORD	8	LMTTIMDL	Time LMT logically deleted
56	(38)	DBL WORD	8	LMTDRTIM	Time for next $$$$DEL call
64	(40)	DBL WORD	8	(0)	Assure LMTLEN DWORD align
64	(40)	X'40'	0	LMTLEN	"*-LMT" LENGTH
64	(40)	X'1'	0	LMTVERSN	"1" VERSION NUMBER OF LMT

Table 277. Cross Reference for $LMT

Name	Offset	Hex Tag
LMT	0	
LMTADELR	20	
LMTBASEA	10	
LMTCHAIN	18	
LMTDRTIM	38	
LMTENTRY	1C	
LMTESIZE	C	
LMTFLG1	14	
LMTFLG2	15	
LMTFLG3	16	
LMTFLG4	17	
LMTLEN	40	40
LMTMITAD	8	
LMTMODLN	D	
LMTMODNM	0	
LMTSUBPL	C	
LMTTIMDL	30	
LMTTIME	28	
LMTVERSN	40	1
LMT1BSPL	14	2
LMT1CMN	14	40

Table 277. Cross Reference for $LMT (continued)

Name	Offset	Hex Tag
LMT1DIRL	14	80
LMT1IBM	14	4
LMT1INVD	14	10
LMT1LOAD	14	8
LMT1OS	14	1
LMT1PVT	14	20
LMT2CMNR	15	80
LMT2DELT	15	2
LMT2LPAR	15	20
LMT2NDYN	15	1
LMT2PVTR	15	40
LMT2REFR	15	4
LMT2RM24	15	10
LMT2RM31	15	8
LMT3DRND	16	2
LMT3DRNN	16	4
LMT3DTBL	16	80
LMT3FDEL	16	20
LMT3FREE	16	10
LMT3MCKD	16	8
LMT3NXRT	16	40
LMT3RFIP	16	1
LMT4LFIX	17	40
LMT4LPA	17	20
LMT4LWPC	17	80

$MCT information

$MCT programming interface information

ONLY the following fields are part of the programming interface information:

- MCTAPLTU
- MCTBADTU
- MCTBFHTU
- MCTBFXTU
- MCTBRTTU
- MCTBSCTU
- MCTBUFTU
- MCTCATTU
- MCTCKLTU
- MCTCKTTU
- MCTCNDTU
- MCTCOMTU
- MCTCONTU
- MCTDCTTU

- MCTDESTU
- MCTDSTTU
- MCTDTETU
- MCTEBYTU
- MCTEKNTU
- MCTELCTU
- MCTEPGTU
- MCTEPNTU
- MCTERRTU
- MCTETMTU
- MCTFENTU
- MCTFSSTU
- MCTHDRTU
- MCTIAUTU
- MCTINCTU
- MCTINRTU
- MCTJOBTU
- MCTJPYTU
- MCTJQETU
- MCTJRWTU
- MCTJSPTU
- MCTJTWTU
- MCTKPNTU
- MCTLINTU
- MCTLJRTU
- MCTLJTTU
- MCTLJWTU
- MCTLNETU
- MCTLODTU
- MCTLOGTU
- MCTLOTTU
- MCTLSRTU
- MCTLSTTU
- MCTLSWTU
- MCTMASTU
- MCTMEMTU
- MCTMGTU
- MCTMODTU
- MCTMPSTU
- MCTNAUTU
- MCTNDPTU
- MCTNETTU
- MCTNJETU

- MCTNODTU
- MCTOFFTU
- MCTOFLTU
- MCTOJMTU
- MCTOJRTU
- MCTOJTTU
- MCTOPDTU
- MCTOPTTU
- MCTOPYTU
- MCTOSMTU
- MCTOSRTU
- MCTOSTTU
- MCTOTPTU
- MCTOUTTU
- MCTPARTU
- MCTPCCTU
- MCTPCDTU
- MCTPCETU
- MCTPCNTU
- MCTPCRTU
- MCTPDDTU
- MCTPITTU
- MCTPRLTU
- MCTPRTTU
- MCTPRWTU
- MCTPTDTU
- MCTPTHTU
- MCTPUDTU
- MCTPUNTU
- MCTPUWTU
- MCTRAUTU
- MCTRCNTU
- MCTRCVTU
- MCTRDITU
- MCTRDRTU
- MCTRDTTU
- MCTRDVTU
- MCTREDTU
- MCTRMTTU
- MCTRPRTU
- MCTRPUTU
- MCTRQJIU
- MCTRRDTU

- MCTSAWTU
- MCTSBDTU
- MCTSBMTU
- MCTSCTTU
- MCTSEPTU
- MCTSMFTU
- MCTSNATU
- MCTSPDTU
- MCTSPLTU
- MCTSRWTU
- MCTSSITU
- MCTSTATU
- MCTSTCTU
- MCTSTWTU
- MCTSTYTU
- MCTSUBTU
- MCTTGLTU
- MCTTGSTU
- MCTTIDTU
- MCTTLGTU
- MCTTPDTU
- MCTTRCTU
- MCTTRITU
- MCTTSUTU
- MCTVIATU
- MCTVKPTU
- MCTVLTTU
- MCTVUNTU
- MCTXITTU

$MCT heading information

Common name:	HASP Master Control Table
Macro ID:	$MCT
DSECT name:	MCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: Part of the HASJES20 load module Key: 1 Residency: Part of the HASJES20 load module in the JES2 address space.
Size:	See field MCTLEN
Created by:	Load of module HASJES20.
Pointed to by:	$MCT field of the $HCT data area
Serialization:	None required.

Function: The master control table contains pointers to table pairs within JES2.
The naming convention for tables and table pairs is as follows:
Select a unique three character id for the entity (for example ZZZ).
The MCT fields are:
MCTZZZTP - Label for the table pair
MCTZZZTU - Label for the USER table
MCTZZZTH - Label for the JES2 (HASP) table
MCTZZZTD - Label for dynamic table list
The VCONS (and weak externals for user tables) are:
USERZZZT - Label for the USER table and WXTRN
HASPZZZT - Label for the JES2 (HASP) table
User table addresses can be placed in the $MCT either by an exit routine storing the address into field MCTZZZTU or by the user table being named USERZZZT and being link-edited with the HASJES20 load module.
Dynamic tables can be placed in the $MCT via the $PUTABLE service, which is caled automatically when a load module containing dynamic tables is processed by the JES2 LOAD initialization statement.

$MCT mapping

Table 278. Structure MCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCT	HASP MASTER CONSOLE TABLE
		$GETABLE TABLE-PAIRS, AND ASSOCIATED TABLE ACCESS ROUTINES.			
0	(0)	ADDRESS	4	MCTPCETP(0)	$PCETAB table pair
0	(0)	ADDRESS	4	MCTPCETU	"V(USERPCET)" User table
4	(4)	ADDRESS	4	MCTPCETH	"V(HASPPCET)" HASP table
8	(8)	ADDRESS	4	MCTPCETD	Dynamic table array
12	(C)	ADDRESS	4	MCTDCTTP(0)	$DCTTAB table pair
12	(C)	ADDRESS	4	MCTDCTTU	"V(USERDCTT)" User table
16	(10)	ADDRESS	4	MCTDCTTH	"V(HASPDCTT)" HASP table
20	(14)	ADDRESS	4	MCTDCTTD	Dynamic table array
24	(18)	ADDRESS	4	MCTDTETP(0)	$DTETAB table pair
24	(18)	ADDRESS	4	MCTDTETU	"V(USERDTET)" User table
28	(1C)	ADDRESS	4	MCTDTETH	"V(HASPDTET)" HASP table
32	(20)	ADDRESS	4	MCTDTETD	Dynamic table array
36	(24)	ADDRESS	4	MCTRDTTP(0)	$RDIRTAB table pair
36	(24)	ADDRESS	4	MCTRDTTU	"V(USERRDTT)" User table
40	(28)	ADDRESS	4	MCTRDTTH	"V(HASPRDTT)" HASP table
44	(2C)	ADDRESS	4	MCTRDTTD	Dynamic table array
48	(30)	ADDRESS	4	MCTTIDTP(0)	$TIDTAB table pair
48	(30)	ADDRESS	4	MCTTIDTU	"V(USERTIDT)" User table
52	(34)	ADDRESS	4	MCTTIDTH	"V(HASPTIDT)" HASP table
56	(38)	ADDRESS	4	MCTTIDTD	Dynamic table array
60	(3C)	ADDRESS	4	MCTPCRTP(0)	$PCTAB table pair
60	(3C)	ADDRESS	4	MCTPCRTU	"V(USERPCRT)" User table
64	(40)	ADDRESS	4	MCTPCRTH	"V(HASPPCRT)" HASP table
68	(44)	ADDRESS	4	MCTPCRTD	Dynamic table array
72	(48)	ADDRESS	4	MCTBRTTP(0)	$BERTTAB table pair
72	(48)	ADDRESS	4	MCTBRTTU	"V(USERBRTT)" User table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	MCTBRTTH	"V(HASPBRTT)" HASP table
80	(50)	ADDRESS	4	MCTBRTTD	Dynamic table array
		$SCAN FACILITY PRIMARY HASP/USER TABLE PAIRS - TABLE PAIRS FOR THE INITIALIZATION OPTIONS AND FOR PARAMETERS STMTS.			
84	(54)	ADDRESS	4	MCTOPTTP(0)	HASP OPTIONS $SCAN TABLE
84	(54)	ADDRESS	4	MCTOPTTU	"V(USEROPTT)" User table
88	(58)	ADDRESS	4	MCTOPTTH	"V(HASPOPTT)" HASP table
92	(5C)	ADDRESS	4	MCTOPTTD	Dynamic table array
96	(60)	ADDRESS	4	MCTMPSTP(0)	HASP MAIN-PARM-STMT TABLE
96	(60)	ADDRESS	4	MCTMPSTU	"V(USERMPST)" User table
100	(64)	ADDRESS	4	MCTMPSTH	"V(HASPMPST)" HASP table
104	(68)	ADDRESS	4	MCTMPSTD	Dynamic table array
108	(6C)	ADDRESS	4	MCTMGTP(0)	HASP MSG-GEN TABLE PAIR
108	(6C)	ADDRESS	4	MCTMGTU	"V(USERMGST)" User table
112	(70)	ADDRESS	4	MCTMGTH	"V(HASPMGST)" HASP table
116	(74)	ADDRESS	4	MCTMGTD	Dynamic table array
		$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF DEVICE RELATED PARAMETER STATEMENTS.			
120	(78)	ADDRESS	4	MCTINRTP(0)	INTRDR PARM-STMT SUBSCAN
120	(78)	ADDRESS	4	MCTINRTU	"V(USERINRT)" User table
124	(7C)	ADDRESS	4	MCTINRTH	"V(HASPINRT)" HASP table
128	(80)	ADDRESS	4	MCTINRTD	Dynamic table array
132	(84)	ADDRESS	4	MCTLNETP(0)	LINENNNN PARM-STMT SUBSCAN
132	(84)	ADDRESS	4	MCTLNETU	"V(USERLNET)" User table
136	(88)	ADDRESS	4	MCTLNETH	"V(HASPLNET)" HASP table
140	(8C)	ADDRESS	4	MCTLNETD	Dynamic table array
144	(90)	ADDRESS	4	MCTLTRTP(0)	LINEnnnnn TRACE KEYWORD SUBSCAN
144	(90)	ADDRESS	4	MCTLTRTU	"V(USERLTRT)" User table
148	(94)	ADDRESS	4	MCTLTRTH	"V(HASPLTRT)" HASP table
152	(98)	ADDRESS	4	MCTLTRTD	Dynamic table array
156	(9C)	ADDRESS	4	MCTLINTP(0)	Ln.DVn PARM-STMT SUBSCAN
156	(9C)	ADDRESS	4	MCTLINTU	"V(USERLINT)" User table
160	(A0)	ADDRESS	4	MCTLINTH	"V(HASPLINT)" HASP table
164	(A4)	ADDRESS	4	MCTLINTD	Dynamic table array
168	(A8)	ADDRESS	4	MCTLJRTP(0)	Ln.JR PARM-STMT SUBSCAN
168	(A8)	ADDRESS	4	MCTLJRTU	"V(USERLJRT)" User table
172	(AC)	ADDRESS	4	MCTLJRTH	"V(HASPLJRT)" HASP table
176	(B0)	ADDRESS	4	MCTLJRTD	Dynamic table array
180	(B4)	ADDRESS	4	MCTLJTTP(0)	Ln.JT PARM-STMT SUBSCAN
180	(B4)	ADDRESS	4	MCTLJTTU	"V(USERLJTT)" User table
184	(B8)	ADDRESS	4	MCTLJTTH	"V(HASPLJTT)" HASP table
188	(BC)	ADDRESS	4	MCTLJTTD	Dynamic table array
192	(C0)	ADDRESS	4	MCTLSRTP(0)	Ln.SR PARM-STMT SUBSCAN
192	(C0)	ADDRESS	4	MCTLSRTU	"V(USERLSRT)" User table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	ADDRESS	4	MCTLSRTH	"V(HASPLSRT)" HASP table
200	(C8)	ADDRESS	4	MCTLSRTD	Dynamic table array
204	(CC)	ADDRESS	4	MCTLSTTP(0)	Ln.ST PARM-STMT SUBSCAN
204	(CC)	ADDRESS	4	MCTLSTTU	"V(USERLSTT)" User table
208	(D0)	ADDRESS	4	MCTLSTTH	"V(HASPLSTT)" HASP table
212	(D4)	ADDRESS	4	MCTLSTTD	Dynamic table array
216	(D8)	ADDRESS	4	MCTLOGTP(0)	LOGONN PARM-STMT SUBSCAN
216	(D8)	ADDRESS	4	MCTLOGTU	"V(USERLOGT)" User table
220	(DC)	ADDRESS	4	MCTLOGTH	"V(HASPLOGT)" HASP table
224	(E0)	ADDRESS	4	MCTLOGTD	Dynamic table array
228	(E4)	ADDRESS	4	MCTOFLTP(0)	OFFLOADN PARM-STMT SUBSCAN PAIR
228	(E4)	ADDRESS	4	MCTOFLTU	"V(USEROFLT)" User table
232	(E8)	ADDRESS	4	MCTOFLTH	"V(HASPOFLT)" HASP table
236	(EC)	ADDRESS	4	MCTOFLTD	Dynamic table array
240	(F0)	ADDRESS	4	MCTOFFTP(0)	OFFN.DV PARM-STMT SUBSCAN PAIR
240	(F0)	ADDRESS	4	MCTOFFTU	"V(USEROFFT)" User table
244	(F4)	ADDRESS	4	MCTOFFTH	"V(HASPOFFT)" HASP table
248	(F8)	ADDRESS	4	MCTOFFTD	Dynamic table array
252	(FC)	ADDRESS	4	MCTOJRTP(0)	OFFN.JR PARM-STMT SUBSCAN PAIR
252	(FC)	ADDRESS	4	MCTOJRTU	"V(USEROJRT)" User table
256	(100)	ADDRESS	4	MCTOJRTH	"V(HASPOJRT)" HASP table
260	(104)	ADDRESS	4	MCTOJRTD	Dynamic table array
264	(108)	ADDRESS	4	MCTOJTTP(0)	OFFN.JT PARM-STMT SUBSCAN PAIR
264	(108)	ADDRESS	4	MCTOJTTU	"V(USEROJTT)" User table
268	(10C)	ADDRESS	4	MCTOJTTH	"V(HASPOJTT)" HASP table
272	(110)	ADDRESS	4	MCTOJTTD	Dynamic table array
276	(114)	ADDRESS	4	MCTOSRTP(0)	OFFN.SR PARM-STMT SUBSCAN PAIR
276	(114)	ADDRESS	4	MCTOSRTU	"V(USEROSRT)" User table
280	(118)	ADDRESS	4	MCTOSRTH	"V(HASPOSRT)" HASP table
284	(11C)	ADDRESS	4	MCTOSRTD	Dynamic table array
288	(120)	ADDRESS	4	MCTOSTTP(0)	OFFN.ST PARM-STMT SUBSCAN PAIR
288	(120)	ADDRESS	4	MCTOSTTU	"V(USEROSTT)" User table
292	(124)	ADDRESS	4	MCTOSTTH	"V(HASPOSTT)" HASP table
296	(128)	ADDRESS	4	MCTOSTTD	Dynamic table array
300	(12C)	ADDRESS	4	MCTPYITP(0)	POLICY IMPORT PARM-STMT SUBSCAN PAIR
300	(12C)	ADDRESS	4	MCTPYITU	"V(USERPYIT)" User table
304	(130)	ADDRESS	4	MCTPYITH	"V(HASPPYIT)" HASP table
308	(134)	ADDRESS	4	MCTPYITD	Dynamic table array
312	(138)	ADDRESS	4	MCTPYDTP(0)	POLICY DELETE PARM-STMT SUBSCAN PAIR
312	(138)	ADDRESS	4	MCTPYDTU	"V(USERPYDT)" User table
316	(13C)	ADDRESS	4	MCTPYDTH	"V(HASPPYDT)" HASP table
320	(140)	ADDRESS	4	MCTPYDTD	Dynamic table array
324	(144)	ADDRESS	4	MCTPYETP(0)	POLICY ENABLE PARM-STMT SUBSCAN PAIR
324	(144)	ADDRESS	4	MCTPYETU	"V(USERPYET)" User table
328	(148)	ADDRESS	4	MCTPYETH	"V(HASPPYET)" HASP table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	ADDRESS	4	MCTPYETD	Dynamic table array
336	(150)	ADDRESS	4	MCTPYSTP(0)	POLICY DISABLE PARM-STMT SUBSCAN PAIR
336	(150)	ADDRESS	4	MCTPYSTU	"V(USERPYST)" User table
340	(154)	ADDRESS	4	MCTPYSTH	"V(HASPPYST)" HASP table
344	(158)	ADDRESS	4	MCTPYSTD	Dynamic table array
348	(15C)	ADDRESS	4	MCTDPYTP(0)	POLICY DISPLAY PARM-STMT SUBSCAN PAIR
348	(15C)	ADDRESS	4	MCTDPYTU	"V(USERDPYT)" User table
352	(160)	ADDRESS	4	MCTDPYTH	"V(HASPDPYT)" HASP table
356	(164)	ADDRESS	4	MCTDPYTD	Dynamic table array
360	(168)	ADDRESS	4	MCTPRTTP(0)	PRINTERNN PARM-STMT SUBSCAN
360	(168)	ADDRESS	4	MCTPRTTU	"V(USERPRTT)" User table
364	(16C)	ADDRESS	4	MCTPRTTH	"V(HASPPRTT)" HASP table
368	(170)	ADDRESS	4	MCTPRTTD	Dynamic table array
372	(174)	ADDRESS	4	MCTPRLTP(0)	PROCLIB(nnnnnnnn) PARM-STMT SUBSCAN
372	(174)	ADDRESS	4	MCTPRLTU	"V(USERPRLT)" User table
376	(178)	ADDRESS	4	MCTPRLTH	"V(HASPPRLT)" HASP table
380	(17C)	ADDRESS	4	MCTPRLTD	Dynamic table array
384	(180)	ADDRESS	4	MCTPUNTP(0)	PUNCHNN PARM-STMT SUBSCAN
384	(180)	ADDRESS	4	MCTPUNTU	"V(USERPUNT)" User table
388	(184)	ADDRESS	4	MCTPUNTH	"V(HASPPUNT)" HASP table
392	(188)	ADDRESS	4	MCTPUNTD	Dynamic table array
396	(18C)	ADDRESS	4	MCTRDITP(0)	RDI PARM-STMT SUBSCAN PAIR
396	(18C)	ADDRESS	4	MCTRDITU	"V(USERRDIT)" User table
400	(190)	ADDRESS	4	MCTRDITH	"V(HASPRDIT)" HASP table
404	(194)	ADDRESS	4	MCTRDITD	Dynamic table array
408	(198)	ADDRESS	4	MCTRDRTP(0)	READERNN PARM-STMT SUBSCAN
408	(198)	ADDRESS	4	MCTRDRTU	"V(USERRDRT)" User table
412	(19C)	ADDRESS	4	MCTRDRTH	"V(HASPRDRT)" HASP table
416	(1A0)	ADDRESS	4	MCTRDRTD	Dynamic table array
420	(1A4)	ADDRESS	4	MCTRQJTP(0)	REQJOBID PARM-STMT SUBSCAN
420	(1A4)	ADDRESS	4	MCTRQJTU	"V(USERRQJT)" User table
424	(1A8)	ADDRESS	4	MCTRQJTH	"V(HASPRQJT)" HASP table
428	(1AC)	ADDRESS	4	MCTRQJTD	Dynamic table array
432	(1B0)	ADDRESS	4	MCTRDVTP(0)	RNNNNDVX PARM-STMT SUBSCAN PAIR
432	(1B0)	ADDRESS	4	MCTRDVTU	"V(USERRDVT)" User table
436	(1B4)	ADDRESS	4	MCTRDVTH	"V(HASPRDVT)" HASP table
440	(1B8)	ADDRESS	4	MCTRDVTD	Dynamic table array
444	(1BC)	ADDRESS	4	MCTRPRTP(0)	RNNNNPRX PARM-STMT SUBSCAN
444	(1BC)	ADDRESS	4	MCTRPRTU	"V(USERRPRT)" User table
448	(1C0)	ADDRESS	4	MCTRPRTH	"V(HASPRPRT)" HASP table
452	(1C4)	ADDRESS	4	MCTRPRTD	Dynamic table array
456	(1C8)	ADDRESS	4	MCTRPUTP(0)	RNNNNPUX PARM-STMT SUBSCAN
456	(1C8)	ADDRESS	4	MCTRPUTU	"V(USERRPUT)" User table
460	(1CC)	ADDRESS	4	MCTRPUTH	"V(HASPRPUT)" HASP table
464	(1D0)	ADDRESS	4	MCTRPUTD	Dynamic table array

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
468	(1D4)	ADDRESS	4	MCTRRDTP(0)	RNNNNRDX PARM-STMT SUBSCAN
468	(1D4)	ADDRESS	4	MCTRRDTU	"V(USERRRDT)" User table
472	(1D8)	ADDRESS	4	MCTRRDTH	"V(HASPRRDT)" HASP table
476	(1DC)	ADDRESS	4	MCTRRDTD	Dynamic table array
480	(1E0)	ADDRESS	4	MCTRCNTP(0)	RNNNNCN PARM-STMT SUBSCAN
480	(1E0)	ADDRESS	4	MCTRCNTU	"V(USERRCNT)" User table
484	(1E4)	ADDRESS	4	MCTRCNTH	"V(HASPRCNT)" HASP table
488	(1E8)	ADDRESS	4	MCTRCNTD	Dynamic table array
492	(1EC)	ADDRESS	4	MCTSUBTP(0)	SUBNET PARM-STMT SUBSCAN
492	(1EC)	ADDRESS	4	MCTSUBTU	"V(USERSUBT)" User table
496	(1F0)	ADDRESS	4	MCTSUBTH	"V(HASPSUBT)" HASP table
500	(1F4)	ADDRESS	4	MCTSUBTD	Dynamic table array
504	(1F8)	ADDRESS	4	MCTNSVTP(0)	NETSRV PARM-STMT SUBSCAN
504	(1F8)	ADDRESS	4	MCTNSVTU	"V(USERNSVT)" User table
508	(1FC)	ADDRESS	4	MCTNSVTH	"V(HASPNSVT)" HASP table
512	(200)	ADDRESS	4	MCTNSVTD	Dynamic table array
516	(204)	ADDRESS	4	MCTNTRTP(0)	NETSRVnnn TRACE KEYWORD SUBSCAN
516	(204)	ADDRESS	4	MCTNTRTU	"V(USERNTRT)" User table
520	(208)	ADDRESS	4	MCTNTRTH	"V(HASPNTRT)" HASP table
524	(20C)	ADDRESS	4	MCTNTRTD	Dynamic table array
528	(210)	ADDRESS	4	MCTSOKTP(0)	SOCKET PARM-STMT SUBSCAN
528	(210)	ADDRESS	4	MCTSOKTU	"V(USERSOKT)" User table
532	(214)	ADDRESS	4	MCTSOKTH	"V(HASPSOKT)" HASP table
536	(218)	ADDRESS	4	MCTSOKTD	Dynamic table array
540	(21C)	ADDRESS	4	MCTSBMTP(0)	SUBMITRDR PARM-STMT SUBSCAN
540	(21C)	ADDRESS	4	MCTSBMTU	"V(USERSBMT)" User table
544	(220)	ADDRESS	4	MCTSBMTH	"V(HASPSBMT)" HASP table
548	(224)	ADDRESS	4	MCTSBMTD	Dynamic table array
552	(228)	ADDRESS	4	(3)	Reserved for future use
				$SCAN FACILITY HASP TABLE FOR SUBSCANNING OF VECTOR TYPE PARAMETER STATEMENTS.	
564	(234)	ADDRESS	4	MCTADRTP(0)	BAD TRACK ADDRESS OPERAND VECTR
564	(234)	ADDRESS	4	MCTADRTH	"V(HASPVADR)" HASP VECTOR table
568	(238)	ADDRESS	4	MCTVTMTP(0)	TIME OPERAND VECTOR
568	(238)	ADDRESS	4	MCTVTMTH	"V(HASPVTIM)" HASP VECTOR table
572	(23C)	ADDRESS	4	MCTAUTTP(0)	AUTHORITY OPERAND VECTOR
572	(23C)	ADDRESS	4	MCTAUTTH	"V(HASPVAUT)" HASP VECTOR table
576	(240)	ADDRESS	4	MCTMSGTP(0)	MESSAGE OPERAND VECTOR
576	(240)	ADDRESS	4	MCTMSGTH	"V(HASPVMSG)" HASP VECTOR table
580	(244)	ADDRESS	4	MCTCHRTP(0)	CHARACTER OPERAND VECTOR
580	(244)	ADDRESS	4	MCTCHRTH	"V(HASPVCHR)" HASP VECTOR table
584	(248)	ADDRESS	4	MCTXRTTP(0)	ROUTINE OPERAND VECTOR
584	(248)	ADDRESS	4	MCTXRTTH	"V(HASPVXRT)" HASP VECTOR table
588	(24C)	ADDRESS	4	MCTJRNTP(0)	JOB RANGE OPERAND VECTOR (INIT)
588	(24C)	ADDRESS	4	MCTJRNTH	"V(HASPVJRN)" HASP VECTOR table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
592	(250)	ADDRESS	4	MCTRANTP(0)	JOB RANGE OPERAND VECTOR($T/$D)
592	(250)	ADDRESS	4	MCTRANTH	"V(HASPVJBR)" HASP VECTOR table
596	(254)	ADDRESS	4	MCTDRMTP(0)	DORMANCY OPERAND VECTOR
596	(254)	ADDRESS	4	MCTDRMTH	"V(HASPVDRM)" HASP VECTOR table
600	(258)	ADDRESS	4	MCTRNGTP(0)	RANGE OPERAND VECTOR
600	(258)	ADDRESS	4	MCTRNGTH	"V(HASPVRNG)" HASP VECTOR table
604	(25C)	ADDRESS	4	MCTRN2TP(0)	RANGE OPERAND VECTOR 2
604	(25C)	ADDRESS	4	MCTRN2TH	"V(HASPVRN2)" HASP VECTOR table
608	(260)	ADDRESS	4	MCTPRCTP(0)	ROUTE CODE OPERAND VECTOR
608	(260)	ADDRESS	4	MCTPRCTH	"V(HASPVPRC)" HASP VECTOR table
612	(264)	ADDRESS	4	MCTSAFTP(0)	SYSTEM AFFINITY OPERAND VECTOR
612	(264)	ADDRESS	4	MCTSAFTH	"V(HASPVSAF)" HASP VECTOR table
616	(268)	ADDRESS	4	MCTVOLTP(0)	VOLUME OPERAND VECTOR
616	(268)	ADDRESS	4	MCTVOLTH	"V(HASPVVOL)" HASP VECTOR table
620	(26C)	ADDRESS	4	MCTFRMTP(0)	FORMS OPERAND VECTOR
620	(26C)	ADDRESS	4	MCTFRMTH	"V(HASPVFRM)" HASP VECTOR table
624	(270)	ADDRESS	4	MCTPPRTP(0)	PRMODE OPERAND VECTOR
624	(270)	ADDRESS	4	MCTPPRTH	"V(HASPVPPR)" HASP VECTOR table
628	(274)	ADDRESS	4	MCTLIMTP(0)	LIMIT OPERAND VECTOR
628	(274)	ADDRESS	4	MCTLIMTH	"V(HASPVLIM)" HASP VECTOR table
632	(278)	ADDRESS	4	MCTMSMTP(0)	MODULE ASSEMBLE= VECTOR
632	(278)	ADDRESS	4	MCTMSMTH	"V(HASPMSMT)" HASP VECTOR table
636	(27C)	ADDRESS	4	MCTPLMTP(0)	PLIM OPERAND VECTOR
636	(27C)	ADDRESS	4	MCTPLMTH	"V(HASPVPLM)" HASP VECTOR table
640	(280)	ADDRESS	4	MCTOUNTP(0)	OFFLOAD UNIT= OPERAND
640	(280)	ADDRESS	4	MCTOUNTH	"V(HASPOUNT)" HASP VECTOR table
644	(284)	ADDRESS	4	MCTVWSTP(0)	WS OPERAND VECTOR
644	(284)	ADDRESS	4	MCTVWSTH	"V(HASPVWST)" HASP VECTOR table
648	(288)	ADDRESS	4	MCTVOSTP(0)	OUTDISP OPERAND VECTOR
648	(288)	ADDRESS	4	MCTVOSTH	"V(HASPVODS)" HASP VECTOR table
652	(28C)	ADDRESS	4	MCTVOJTP(0)	OUTDISP OPERAND
652	(28C)	ADDRESS	4	MCTVOJTH	"V(HASPVODJ)" HASP VECTOR table
656	(290)	ADDRESS	4	MCTVSRTP(0)	OUTDISP OPERAND VECTOR
656	(290)	ADDRESS	4	MCTVSRTH	"V(HASPVOSR)" HASP VECTOR table
660	(294)	ADDRESS	4	MCTVSTTP(0)	OUTDISP OPERAND VECTOR
660	(294)	ADDRESS	4	MCTVSTTH	"V(HASPVOST)" HASP VECTOR table
664	(298)	ADDRESS	4	MCTVSFTP(0)	RDRnn SYSAFF=OPERAND VECTOR
664	(298)	ADDRESS	4	MCTVSFTH	"V(HASPRSFT)" HASP VECTOR table
668	(29C)	ADDRESS	4	MCTVWSAP(0)	SRVCLASS ACTIVE= OPERAND VECTOR
668	(29C)	ADDRESS	4	MCTVWSAH	"V(HASPWSAP)" HASP VECTOR table
672	(2A0)	ADDRESS	4	MCTVCATP(0)	JOBCLASS ACTIVE= operand vector
672	(2A0)	ADDRESS	4	MCTVCATH	"V(HASPCATP)" HASP VECTOR table
676	(2A4)	ADDRESS	4	MCTVSSTP(0)	SPOOL SYSAFF=OPERAND VECTOR
676	(2A4)	ADDRESS	4	MCTVSSTH	"V(HASPRSST)" HASP VECTOR table
680	(2A8)	ADDRESS	4	MCTVISTP(0)	SPOOL INIT SYSAFF=operand Vector

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
680	(2A8)	ADDRESS	4	MCTVISTH	"V(HASPISAF)" HASP VECTOR table
684	(2AC)	ADDRESS	4	MCTVJCTP(0)	JOBnn CMDAUTH= VECTOR
684	(2AC)	ADDRESS	4	MCTVJCTH	"V(HASPJCMT)" HASP VECTOR table
688	(2B0)	ADDRESS	4	MCTVJSTP(0)	JOBnn SYSAFF=OPERAND VECTOR
688	(2B0)	ADDRESS	4	MCTVJSTH	"V(HASPJSFT)" HASP VECTOR table
692	(2B4)	ADDRESS	4	MCTVJOFP(0)	JOBnn OFFS= OPERAND VECTOR
692	(2B4)	ADDRESS	4	MCTVJOFH	"V(HASPJOFT)" HASP VECTOR table
696	(2B8)	ADDRESS	4	MCTVSOFP(0)	OUTPUT OFFS= OPERAND VECTOR
696	(2B8)	ADDRESS	4	MCTVSOFH	"V(HASPSOFT)" HASP VECTOR table
700	(2BC)	ADDRESS	4	MCTVVUDP(0)	SPOOL UNITDATA TRKRANGE
700	(2BC)	ADDRESS	4	MCTVVUDH	"V(HASPVUDT)" HASP VECTOR table
704	(2C0)	ADDRESS	4	MCTVJVLP(0)	JOBnnn VOLUMES= vector
704	(2C0)	ADDRESS	4	MCTVJVLH	"V(HASPVJVT)" HASP VECTOR table
708	(2C4)	ADDRESS	4	MCTVJABP(0)	JOBnnn ABEND= vector
708	(2C4)	ADDRESS	4	MCTVJABH	"V(HASPVABT)" HASP VECTOR table
712	(2C8)	ADDRESS	4	MCTVOJLP(0)	JESLOG OPERAND
712	(2C8)	ADDRESS	4	MCTVOJLH	"V(HASPVJL)" HASP VECTOR table
716	(2CC)	ADDRESS	4	MCTDVRTP(0)	LINEn/LOGONn/NETSRVn RESTART KEYWORD SUBSCAN
716	(2CC)	ADDRESS	4	MCTDVRTH	"V(HASPVDVR)" HASP VECTOR table
720	(2D0)	ADDRESS	4	MCTLNCTP(0)	LINEnnnnn CONNECT KEYWORD SUBSCAN
720	(2D0)	ADDRESS	4	MCTLNCTH	"V(HASPVLNC)" HASP VECTOR table
724	(2D4)	ADDRESS	4	MCTSKCTP(0)	SOCKET CONNECT KEYWORD SUBSCAN
724	(2D4)	ADDRESS	4	MCTSKCTH	"V(HASPVSKC)" HASP VECTOR table
728	(2D8)	ADDRESS	4	MCTSPSTP(0)	SPOOL SPACE= subparm
728	(2D8)	ADDRESS	4	MCTSPSTH	"V(HASPVSPS)" HASP VECTOR table
732	(2DC)	ADDRESS	4	MCTAPCTP(0)	APPL CONNECT KEYWORD SUBSCAN
732	(2DC)	ADDRESS	4	MCTAPCTH	"V(HASPVAPC)" HASP VECTOR table
736	(2E0)	ADDRESS	4	MCTNJCTP(0)	NJEDEF CONNECT KEYWORD SUBSCAN
736	(2E0)	ADDRESS	4	MCTNJCTH	"V(HASPVNJC)" HASP VECTOR table
740	(2E4)	ADDRESS	4	MCTNOCTP(0)	NODEnnnn CONNECT KEYWORD SUBSCAN
740	(2E4)	ADDRESS	4	MCTNOCTH	"V(HASPVNOC)" HASP VECTOR table
744	(2E8)	ADDRESS	4	MCTPTCTP(0)	INIT(xxx) CLASS KEYWORD SUBSCAN
744	(2E8)	ADDRESS	4	MCTPTCTH	"V(HASPVPTC)" HASP VECTOR table
748	(2EC)	ADDRESS	4	MCTOFCTP(0)	OFFx.Jx CLASS KEYWORD SUBSCAN
748	(2EC)	ADDRESS	4	MCTOFCTH	"V(HASPVOFC)" HASP VECTOR table
752	(2F0)	ADDRESS	4	MCTCKSTP(0)	CKPTn SPACE= subparm
752	(2F0)	ADDRESS	4	MCTCKSTH	"V(HASPVCKS)" HASP VECTOR table
756	(2F4)	ADDRESS	4	MCTCFSTP(0)	CKPTSPACE CKPTn SIZE= vector
756	(2F4)	ADDRESS	4	MCTCFSTH	"V(HASPVCFS)" HASP VECTOR table
760	(2F8)	ADDRESS	4	MCTP1CTP(0)	INIT(xxx) 1-CHAR CLASS KEYWRD SUBSCAN
760	(2F8)	ADDRESS	4	MCTP1CTH	"V(HASPVP1C)" HASP VECTOR table
764	(2FC)	ADDRESS	4		Reserved for future use
768	(300)	ADDRESS	4		Reserved for future use
772	(304)	ADDRESS	4		Reserved for future use
776	(308)	ADDRESS	4		Reserved for future use

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF MISCELLANEOUS PARAMETER STATEMENTS.			
780	(30C)	ADDRESS	4	MCTACTTP(0)	ACTRMT statement table pair
780	(30C)	ADDRESS	4	MCTACTTU	"V(USERACTT)" User table
784	(310)	ADDRESS	4	MCTACTTH	"V(HASPACTT)" HASP table
788	(314)	ADDRESS	4	MCTACTTD	Dynamic table array
792	(318)	ADDRESS	4	MCTAPLTP(0)	APPL PARM-STMT SUBSCAN
792	(318)	ADDRESS	4	MCTAPLTU	"V(USERAPLT)" User table
796	(31C)	ADDRESS	4	MCTAPLTH	"V(HASPAPLT)" HASP table
800	(320)	ADDRESS	4	MCTAPLTD	Dynamic table array
804	(324)	ADDRESS	4	MCTBADTP(0)	BADTRACK PARM-STMT SUBSCAN
804	(324)	ADDRESS	4	MCTBADTU	"V(USERBADT)" User table
808	(328)	ADDRESS	4	MCTBADTH	"V(HASPBADT)" HASP table
812	(32C)	ADDRESS	4	MCTBADTD	Dynamic table array
816	(330)	ADDRESS	4	MCTBUFTP(0)	BUFDEF PARM-STMT SUBSCAN PAIR
816	(330)	ADDRESS	4	MCTBUFTU	"V(USERBUFT)" User table
820	(334)	ADDRESS	4	MCTBUFTH	"V(HASPBUFT)" HASP table
824	(338)	ADDRESS	4	MCTBUFTD	Dynamic table array
828	(33C)	ADDRESS	4	MCTBFHTP(0)	BUFDEF BELOWBUF SUBSCAN PR
828	(33C)	ADDRESS	4	MCTBFHTU	"V(USERBFHT)" User table
832	(340)	ADDRESS	4	MCTBFHTH	"V(HASPBFHT)" HASP table
836	(344)	ADDRESS	4	MCTBFHTD	Dynamic table array
840	(348)	ADDRESS	4	MCTBFXTP(0)	BUFDEF ABOVEBUF SUBSCAN PR
840	(348)	ADDRESS	4	MCTBFXTU	"V(USERBFXT)" User table
844	(34C)	ADDRESS	4	MCTBFXTH	"V(HASPBFXT)" HASP table
848	(350)	ADDRESS	4	MCTBFXTD	Dynamic table array
852	(354)	ADDRESS	4	MCTBSCTP(0)	TPDEF BSC SUBSCAN PAIR
852	(354)	ADDRESS	4	MCTBSCTU	"V(USERBSCT)" User table
856	(358)	ADDRESS	4	MCTBSCTH	"V(HASPBSCT)" HASP table
860	(35C)	ADDRESS	4	MCTBSCTD	Dynamic table array
864	(360)	ADDRESS	4	MCTSNATP(0)	TPDEF SNA SUBSCAN PAIR
864	(360)	ADDRESS	4	MCTSNATU	"V(USERSNAT)" User table
868	(364)	ADDRESS	4	MCTSNATH	"V(HASPSNAT)" HASP table
872	(368)	ADDRESS	4	MCTSNATD	Dynamic table array
876	(36C)	ADDRESS	4	MCTSESTP(0)	TPDEF SESSIONS= subscan
876	(36C)	ADDRESS	4	MCTSESTU	"V(USERSEST)" User table
880	(370)	ADDRESS	4	MCTSESTH	"V(HASPSEST)" HASP table
884	(374)	ADDRESS	4	MCTSESTD	Dynamic table array
888	(378)	ADDRESS	4	MCTJCXTP(0)	JOBCLASS XEQCOUNT= subscan
888	(378)	ADDRESS	4	MCTJCXTU	"V(USERJCXT)" User table
892	(37C)	ADDRESS	4	MCTJCXTH	"V(HASPJCXT)" HASP table
896	(380)	ADDRESS	4	MCTJCXTD	Dynamic table array
900	(384)	ADDRESS	4	MCTJCCTP(0)	JOB CC (completion code)
900	(384)	ADDRESS	4	MCTJCCTU	"V(USERJCCT)" User table
904	(388)	ADDRESS	4	MCTJCCTH	"V(HASPJCCT)" HASP table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
908	(38C)	ADDRESS	4	MCTJCCTD	Dynamic table array
912	(390)	ADDRESS	4	MCTCATTP(0)	JOB CLASS PARM-STMTS SUBSCAN
912	(390)	ADDRESS	4	MCTCATTU	"V(USERCATT)" User table
916	(394)	ADDRESS	4	MCTCATTH	"V(HASPCATT)" HASP table
920	(398)	ADDRESS	4	MCTCATTD	Dynamic table array
924	(39C)	ADDRESS	4	MCTVXMTP(0)	JOBCLASS XEQMEMBER= SUBSCAN
924	(39C)	ADDRESS	4	MCTVXMTU	"V(USERVXMT)" User table
928	(3A0)	ADDRESS	4	MCTVXMTH	"V(HASPXMTP)" HASP table
932	(3A4)	ADDRESS	4	MCTVXMTD	Dynamic table array
936	(3A8)	ADDRESS	4	MCTCKTTP(0)	CKPTDEF PARM-STMT SUBSCAN PAIR
936	(3A8)	ADDRESS	4	MCTCKTTU	"V(USERCKTT)" User table
940	(3AC)	ADDRESS	4	MCTCKTTH	"V(HASPCKTT)" HASP table
944	(3B0)	ADDRESS	4	MCTCKTTD	Dynamic table array
948	(3B4)	ADDRESS	4	MCTCKLTP(0)	CKPTLOCK PARM-STMT TABLE PR
948	(3B4)	ADDRESS	4	MCTCKLTU	"V(USERCKLT)" User table
952	(3B8)	ADDRESS	4	MCTCKLTH	"V(HASPCKLT)" HASP table
956	(3BC)	ADDRESS	4	MCTCKLTD	Dynamic table array
960	(3C0)	ADDRESS	4	MCTSPCTP(0)	CKPTSPACE Parm-stmt tbl pr
960	(3C0)	ADDRESS	4	MCTSPCTU	"V(USERSPCT)" User table
964	(3C4)	ADDRESS	4	MCTSPCTH	"V(HASPSPCT)" HASP table
968	(3C8)	ADDRESS	4	MCTSPCTD	Dynamic table array
972	(3CC)	ADDRESS	4	MCTKPNTP(0)	CKPTDEF CKPTN= SUBSCAN PAIR
972	(3CC)	ADDRESS	4	MCTKPNTU	"V(USERKPNT)" User table
976	(3D0)	ADDRESS	4	MCTKPNTH	"V(HASPKPNT)" HASP table
980	(3D4)	ADDRESS	4	MCTKPNTD	Dynamic table array
984	(3D8)	ADDRESS	4	MCTEKNTP(0)	CKPTDEF NEWCKPTN= SUBSCAN
984	(3D8)	ADDRESS	4	MCTEKNTU	"V(USEREKNT)" User table
988	(3DC)	ADDRESS	4	MCTEKNTH	"V(HASPEKNT)" HASP table
992	(3E0)	ADDRESS	4	MCTEKNTD	Dynamic table array
996	(3E4)	ADDRESS	4	MCTVLTTP(0)	CKPTDEF VOLATILE= subscan
996	(3E4)	ADDRESS	4	MCTVLTTU	"V(USERVLTT)" User table
1000	(3E8)	ADDRESS	4	MCTVLTTH	"V(HASPVLTT)" HASP table
1004	(3EC)	ADDRESS	4	MCTVLTTD	Dynamic table array
1008	(3F0)	ADDRESS	4	MCTVKPTP(0)	CKPTDEF VERSIONS= SUBSCAN
1008	(3F0)	ADDRESS	4	MCTVKPTU	"V(USERVKPT)" User table
1012	(3F4)	ADDRESS	4	MCTVKPTH	"V(HASPVKPT)" HASP table
1016	(3F8)	ADDRESS	4	MCTVKPTD	Dynamic table array
1020	(3FC)	ADDRESS	4	MCTCLGTP(0)	CLASSGRP PARM-STMT SUBSCAN
1020	(3FC)	ADDRESS	4	MCTCLGTU	"V(USERCLGT)" User table
1024	(400)	ADDRESS	4	MCTCLGTH	"V(HASPCLGT)" HASP table
1028	(404)	ADDRESS	4	MCTCLGTD	Dynamic table array
1032	(408)	ADDRESS	4	MCTCNDTP(0)	CONDEF PARM-STMT SUBSCAN PAIR
1032	(408)	ADDRESS	4	MCTCNDTU	"V(USERCNDT)" User table
1036	(40C)	ADDRESS	4	MCTCNDTH	"V(HASPCNDT)" HASP table
1040	(410)	ADDRESS	4	MCTCNDTD	Dynamic table array

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	ADDRESS	4	MCTCOMTP(0)	COMPACT PARM-STMT SUBSCAN
1044	(414)	ADDRESS	4	MCTCOMTU	"V(USERCOMT)" User table
1048	(418)	ADDRESS	4	MCTCOMTH	"V(HASPCOMT)" HASP table
1052	(41C)	ADDRESS	4	MCTCOMTD	Dynamic table array
1056	(420)	ADDRESS	4	MCTCONTP(0)	CONNECT PARM-STMT SUBSCAN
1056	(420)	ADDRESS	4	MCTCONTU	"V(USERCONT)" User table
1060	(424)	ADDRESS	4	MCTCONTH	"V(HASPCONT)" HASP table
1064	(428)	ADDRESS	4	MCTCONTD	Dynamic table array
1068	(42C)	ADDRESS	4	MCTDBGTP(0)	DEBUG stmt table pair
1068	(42C)	ADDRESS	4	MCTDBGTU	"V(USERDBGT)" User table
1072	(430)	ADDRESS	4	MCTDBGTH	"V(HASPDBGT)" HASP table
1076	(434)	ADDRESS	4	MCTDBGTD	Dynamic table array
1080	(438)	ADDRESS	4	MCTDESTP(0)	DESTID PARM-STMT SUBSCAN
1080	(438)	ADDRESS	4	MCTDESTU	"V(USERDEST)" User table
1084	(43C)	ADDRESS	4	MCTDESTH	"V(HASPDEST)" HASP table
1088	(440)	ADDRESS	4	MCTDESTD	Dynamic table array
1092	(444)	ADDRESS	4	MCTDSTTP(0)	DESTDEF stmt table pair
1092	(444)	ADDRESS	4	MCTDSTTU	"V(USERDSTT)" User table
1096	(448)	ADDRESS	4	MCTDSTTH	"V(HASPDSTT)" HASP table
1100	(44C)	ADDRESS	4	MCTDSTTD	Dynamic table array
1104	(450)	ADDRESS	4	MCTDUPTP(0)	DUPJOB stmt table pair
1104	(450)	ADDRESS	4	MCTDUPTU	"V(USERDUPT)" User table
1108	(454)	ADDRESS	4	MCTDUPTH	"V(HASPDUPT)" HASP table
1112	(458)	ADDRESS	4	MCTDUPTD	Dynamic table array
1116	(45C)	ADDRESS	4	MCTELCTP(0)	ESTLNCT PARM-STMT SUBSCAN
1116	(45C)	ADDRESS	4	MCTELCTU	"V(USERELCT)" User table
1120	(460)	ADDRESS	4	MCTELCTH	"V(HASPELCT)" HASP table
1124	(464)	ADDRESS	4	MCTELCTD	Dynamic table array
1128	(468)	ADDRESS	4	MCTEBYTP(0)	ESTBYTE SUBSCAN PAIR
1128	(468)	ADDRESS	4	MCTEBYTU	"V(USEREBYT)" User table
1132	(46C)	ADDRESS	4	MCTEBYTH	"V(HASPEBYT)" HASP table
1136	(470)	ADDRESS	4	MCTEBYTD	Dynamic table array
1140	(474)	ADDRESS	4	MCTEPGTP(0)	ESTPAGE PARM-STMT SUBSCAN
1140	(474)	ADDRESS	4	MCTEPGTU	"V(USEREPGT)" User table
1144	(478)	ADDRESS	4	MCTEPGTH	"V(HASPEPGT)" HASP table
1148	(47C)	ADDRESS	4	MCTEPGTD	Dynamic table array
1152	(480)	ADDRESS	4	MCTEPNTP(0)	ESTPUN PARM-STMT SUBSCAN
1152	(480)	ADDRESS	4	MCTEPNTU	"V(USEREPNT)" User table
1156	(484)	ADDRESS	4	MCTEPNTH	"V(HASPEPNT)" HASP table
1160	(488)	ADDRESS	4	MCTEPNTD	Dynamic table array
1164	(48C)	ADDRESS	4	MCTETMTP(0)	ESTIME PARM-STMT SUBSCAN
1164	(48C)	ADDRESS	4	MCTETMTU	"V(USERETMT)" User table
1168	(490)	ADDRESS	4	MCTETMTH	"V(HASPETMT)" HASP table
1172	(494)	ADDRESS	4	MCTETMTD	Dynamic table array
1176	(498)	ADDRESS	4	MCTXITTP(0)	EXITNNN PARM-STMT SUBSCAN

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1176	(498)	ADDRESS	4	MCTXITTU	"V(USERXITT)" User table
1180	(49C)	ADDRESS	4	MCTXITTH	"V(HASPXITT)" HASP table
1184	(4A0)	ADDRESS	4	MCTXITTD	Dynamic table array
1188	(4A4)	ADDRESS	4	MCTXRLTP(0)	EXITnnn ROUTINE= parm subscan
1188	(4A4)	ADDRESS	4	MCTXRLTU	"V(USERXRLT)" User table
1192	(4A8)	ADDRESS	4	MCTXRLTH	"V(HASPXRLT)" HASP table
1196	(4AC)	ADDRESS	4	MCTXRLTD	Dynamic table array
1200	(4B0)	ADDRESS	4	MCTFSSTP(0)	FSS parm-stmt subscan pair
1200	(4B0)	ADDRESS	4	MCTFSSTU	"V(USERFSST)" User table
1204	(4B4)	ADDRESS	4	MCTFSSTH	"V(HASPFSST)" HASP table
1208	(4B8)	ADDRESS	4	MCTFSSTD	Dynamic table array
1212	(4BC)	ADDRESS	4	MCTINCTP(0)	INCLUDE init-stmt subscan pair
1212	(4BC)	ADDRESS	4	MCTINCTU	"V(USERINCT)" User table
1216	(4C0)	ADDRESS	4	MCTINCTH	"V(HASPINCT)" HASP table
1220	(4C4)	ADDRESS	4	MCTINCTD	Dynamic table array
1224	(4C8)	ADDRESS	4	MCTHDRTP(0)	NJEDEF HDRBUF subscan pair
1224	(4C8)	ADDRESS	4	MCTHDRTU	"V(USERHDRT)" User table
1228	(4CC)	ADDRESS	4	MCTHDRTH	"V(HASPHDRT)" HASP table
1232	(4D0)	ADDRESS	4	MCTHDRTD	Dynamic table array
1236	(4D4)	ADDRESS	4	MCTPARTP(0)	INITDEF PARM-STMT SUBSCAN PAIR
1236	(4D4)	ADDRESS	4	MCTPARTU	"V(USERPART)" User table
1240	(4D8)	ADDRESS	4	MCTPARTH	"V(HASPPART)" HASP table
1244	(4DC)	ADDRESS	4	MCTPARTD	Dynamic table array
1248	(4E0)	ADDRESS	4	MCTIINTP(0)	INITINFO PARM-STMT SUBSCAN PAIR
1248	(4E0)	ADDRESS	4	MCTIINTU	"V(USERIINT)" User table
1252	(4E4)	ADDRESS	4	MCTIINTH	"V(HASPIINT)" HASP table
1256	(4E8)	ADDRESS	4	MCTIINTD	Dynamic table array
1260	(4EC)	ADDRESS	4	MCTPITTP(0)	INNNN PARM-STMT SUBSCAN
1260	(4EC)	ADDRESS	4	MCTPITTU	"V(USERPITT)" User table
1264	(4F0)	ADDRESS	4	MCTPITTH	"V(HASPPITT)" HASP table
1268	(4F4)	ADDRESS	4	MCTPITTD	Dynamic table array
1272	(4F8)	ADDRESS	4	MCTGRPTP(0)	GRPDEF PARM-STMT SUBSCAN PAIR
1272	(4F8)	ADDRESS	4	MCTGRPTU	"V(USERGRPT)" User table
1276	(4FC)	ADDRESS	4	MCTGRPTH	"V(HASPGRPT)" HASP table
1280	(500)	ADDRESS	4	MCTGRPTD	Dynamic table array
1284	(504)	ADDRESS	4	MCTINPTP(0)	INPUTDEF PARM-STMT SUBSCAN PAIR
1284	(504)	ADDRESS	4	MCTINPTU	"V(USERINPT)" User table
1288	(508)	ADDRESS	4	MCTINPTH	"V(HASPINPT)" HASP table
1292	(50C)	ADDRESS	4	MCTINPTD	Dynamic table array
1296	(510)	ADDRESS	4	MCTJECTP(0)	JECLDEF PARM-STMT SUBSCAN PAIR
1296	(510)	ADDRESS	4	MCTJECTU	"V(USERJECT)" User table
1300	(514)	ADDRESS	4	MCTJECTH	"V(HASPJECT)" HASP table
1304	(518)	ADDRESS	4	MCTJECTD	Dynamic table array
1308	(51C)	ADDRESS	4	MCTJ2CTP(0)	JECLDEF JES2= KEYWORD SUBSCAN PAIR
1308	(51C)	ADDRESS	4	MCTJ2CTU	"V(USERJ2CT)" User table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1312	(520)	ADDRESS	4	MCTJ2CTH	"V(HASPJ2CT)" HASP table
1316	(524)	ADDRESS	4	MCTJ2CTD	Dynamic table array
1320	(528)	ADDRESS	4	MCTJ3CTP(0)	JECLDEF JES3= KEYWORD SUBSCAN PAIR
1320	(528)	ADDRESS	4	MCTJ3CTU	"V(USERJ3CT)" User table
1324	(52C)	ADDRESS	4	MCTJ3CTH	"V(HASPJ3CT)" HASP table
1328	(530)	ADDRESS	4	MCTJ3CTD	Dynamic table array
1332	(534)	ADDRESS	4	MCTJOBTP(0)	JOBDEF PARM-STMT SUBSCAN PAIR
1332	(534)	ADDRESS	4	MCTJOBTU	"V(USERJOBT)" User table
1336	(538)	ADDRESS	4	MCTJOBTH	"V(HASPJOBT)" HASP table
1340	(53C)	ADDRESS	4	MCTJOBTD	Dynamic table array
1344	(540)	ADDRESS	4	MCTJQETP(0)	JOBnnn PARM-STMT SUBSCAN PAIR
1344	(540)	ADDRESS	4	MCTJQETU	"V(USERJQET)" User table
1348	(544)	ADDRESS	4	MCTJQETH	"V(HASPJQET)" HASP table
1352	(548)	ADDRESS	4	MCTJQETD	Dynamic table array
1356	(54C)	ADDRESS	4	MCTJSPTP(0)	JOBnnn SPOOL= SUBSCAN PAIR
1356	(54C)	ADDRESS	4	MCTJSPTU	"V(USERJSPT)" User table
1360	(550)	ADDRESS	4	MCTJSPTH	"V(HASPJSPT)" HASP table
1364	(554)	ADDRESS	4	MCTJSPTD	Dynamic table array
1368	(558)	ADDRESS	4	MCTJOFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1368	(558)	ADDRESS	4	MCTJOFTU	"V(USERGJOF)" User table
1372	(55C)	ADDRESS	4	MCTJOFTH	"V(HASPGJOF)" HASP table
1376	(560)	ADDRESS	4	MCTJOFTD	Dynamic table array
1380	(564)	ADDRESS	4	MCTMJFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1380	(564)	ADDRESS	4	MCTMJFTU	"V(USERMJOF)" User table
1384	(568)	ADDRESS	4	MCTMJFTH	"V(HASPMJOF)" HASP table
1388	(56C)	ADDRESS	4	MCTMJFTD	Dynamic table array
1392	(570)	ADDRESS	4	MCTJFLTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1392	(570)	ADDRESS	4	MCTJFLTU	"V(USERJOFL)" User table
1396	(574)	ADDRESS	4	MCTJFLTH	"V(HASPJOFL)" HASP table
1400	(578)	ADDRESS	4	MCTJFLTD	Dynamic table array
1404	(57C)	ADDRESS	4	MCTJFETP(0)	Gnnn JOBFULL SUBSCAN PAIR
1404	(57C)	ADDRESS	4	MCTJFETU	"V(USERJOFE)" User table
1408	(580)	ADDRESS	4	MCTJFETH	"V(HASPJOFE)" HASP table
1412	(584)	ADDRESS	4	MCTJFETD	Dynamic table array
1416	(588)	ADDRESS	4	MCTJPYTP(0)	JOBPRTY PARM-STMT SUBSCAN PAIR
1416	(588)	ADDRESS	4	MCTJPYTU	"V(USERJPYT)" User table
1420	(58C)	ADDRESS	4	MCTJPYTH	"V(HASPJPYT)" HASP table
1424	(590)	ADDRESS	4	MCTJPYTD	Dynamic table array
1428	(594)	ADDRESS	4	MCTLMTTP(0)	LIMITS PARM-STMT SUBSCAN PAIR
1428	(594)	ADDRESS	4	MCTLMTTU	"V(USERLMTT)" User table
1432	(598)	ADDRESS	4	MCTLMTTH	"V(HASPLMTT)" HASP table
1436	(59C)	ADDRESS	4	MCTLMTTD	Dynamic table array
1440	(5A0)	ADDRESS	4	MCTLODTP(0)	LOADMOD PARM-STMT SUBSCAN PAIR
1440	(5A0)	ADDRESS	4	MCTLODTU	"V(USERLODT)" User table
1444	(5A4)	ADDRESS	4	MCTLODTH	"V(HASPLODT)" HASP table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1448	(5A8)	ADDRESS	4	MCTLODTD	Dynamic table array
1452	(5AC)	ADDRESS	4	MCTMASTP(0)	MASDEF PARM-STMT SUBSCAN PAIR
1452	(5AC)	ADDRESS	4	MCTMASTU	"V(USERMAST)" User table
1456	(5B0)	ADDRESS	4	MCTMASTH	"V(HASPMAST)" HASP table
1460	(5B4)	ADDRESS	4	MCTMASTD	Dynamic table array
1464	(5B8)	ADDRESS	4	MCTMEMTP(0)	MEMBER parm-stmt subscan
1464	(5B8)	ADDRESS	4	MCTMEMTU	"V(USERMEMT)" User table
1468	(5BC)	ADDRESS	4	MCTMEMTH	"V(HASPMEMT)" HASP table
1472	(5C0)	ADDRESS	4	MCTMEMTD	Dynamic table array
1476	(5C4)	ADDRESS	4	MCTSTYTP(0)	MEMBER LASTART= subscan
1476	(5C4)	ADDRESS	4	MCTSTYTU	"V(USERSTYT)" User table
1480	(5C8)	ADDRESS	4	MCTSTYTH	"V(HASPSTYT)" HASP table
1484	(5CC)	ADDRESS	4	MCTSTYTD	Dynamic table array
1488	(5D0)	ADDRESS	4	MCTMIGTP(0)	SPOOL MIGDATA= subparm
1488	(5D0)	ADDRESS	4	MCTMIGTU	"V(USERMIGT)" User table
1492	(5D4)	ADDRESS	4	MCTMIGTH	"V(HASPMIGT)" HASP table
1496	(5D8)	ADDRESS	4	MCTMIGTD	Dynamic table array
1500	(5DC)	ADDRESS	4	MCTMODTP(0)	MODULE PARM-STMT SUBSCAN
1500	(5DC)	ADDRESS	4		User table
1504	(5E0)	ADDRESS	4	MCTMODTH	"V(HASPMODT)" HASP table
1508	(5E4)	ADDRESS	4		Dynamic table array
1512	(5E8)	ADDRESS	4	MCTNJETP(0)	NJEDEF PARM-STMT SUBSCAN PAIR
1512	(5E8)	ADDRESS	4	MCTNJETU	"V(USERNJET)" User table
1516	(5EC)	ADDRESS	4	MCTNJETH	"V(HASPNJET)" HASP table
1520	(5F0)	ADDRESS	4	MCTNJETD	Dynamic table array
1524	(5F4)	ADDRESS	4	MCTNWKTP(0)	NETWORK PARM-STMT SUBSCAN PAIR
1524	(5F4)	ADDRESS	4	MCTNWKTU	"V(USERNWKT)" User table
1528	(5F8)	ADDRESS	4	MCTNWKTH	"V(HASPNWKT)" HASP table
1532	(5FC)	ADDRESS	4	MCTNWKTD	Dynamic table array
1536	(600)	ADDRESS	4	MCTNODTP(0)	NNNNN PARM-STMT SUBSCAN
1536	(600)	ADDRESS	4	MCTNODTU	"V(USERNODT)" User table
1540	(604)	ADDRESS	4	MCTNODTH	"V(HASPNODT)" HASP table
1544	(608)	ADDRESS	4	MCTNODTD	Dynamic table array
1548	(60C)	ADDRESS	4	MCTNDPTP(0)	NODEnnnn PASSWORD subscan
1548	(60C)	ADDRESS	4	MCTNDPTU	"V(USERNDPT)" User table
1552	(610)	ADDRESS	4	MCTNDPTH	"V(HASPNDPT)" HASP table
1556	(614)	ADDRESS	4	MCTNDPTD	Dynamic table array
1560	(618)	ADDRESS	4	MCTNAUTP(0)	NODENNNN AUTH SUBSCAN PAIR
1560	(618)	ADDRESS	4	MCTNAUTU	"V(USERNAUT)" User table
1564	(61C)	ADDRESS	4	MCTNAUTH	"V(HASPNAUT)" HASP table
1568	(620)	ADDRESS	4	MCTNAUTD	Dynamic table array
1572	(624)	ADDRESS	4	MCTNETTP(0)	NETACCT PARM-STMT SUBSCAN
1572	(624)	ADDRESS	4	MCTNETTU	"V(USERNETT)" User table
1576	(628)	ADDRESS	4	MCTNETTH	"V(HASPNETT)" HASP table
1580	(62C)	ADDRESS	4	MCTNETTD	Dynamic table array

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1584	(630)	ADDRESS	4	MCTOJMTP(0)	OFFN.JR MOD= PARM SUBSCAN PAIR
1584	(630)	ADDRESS	4	MCTOJMTU	"V(USEROJMT)" User table
1588	(634)	ADDRESS	4	MCTOJMTH	"V(HASPOJMT)" HASP table
1592	(638)	ADDRESS	4	MCTOJMTD	Dynamic table array
1596	(63C)	ADDRESS	4	MCTOSMTP(0)	OFFN.SR MOD= PARM SUBSCAN PAIR
1596	(63C)	ADDRESS	4	MCTOSMTU	"V(USEROSMT)" User table
1600	(640)	ADDRESS	4	MCTOSMTH	"V(HASPOSMT)" HASP table
1604	(644)	ADDRESS	4	MCTOSMTD	Dynamic table array
1608	(648)	ADDRESS	4	MCTOPDTP(0)	OPTSDEF PARM-STMT SUBSCAN PAIR
1608	(648)	ADDRESS	4	MCTOPDTU	"V(USEROPDT)" User table
1612	(64C)	ADDRESS	4	MCTOPDTH	"V(HASPOPDT)" HASP table
1616	(650)	ADDRESS	4	MCTOPDTD	Dynamic table array
1620	(654)	ADDRESS	4	MCTOUTTP(0)	OUTDEF PARM-STMT SUBSCAN PAIR
1620	(654)	ADDRESS	4	MCTOUTTU	"V(USEROUTT)" User table
1624	(658)	ADDRESS	4	MCTOUTTH	"V(HASPOUTT)" HASP table
1628	(65C)	ADDRESS	4	MCTOUTTD	Dynamic table array
1632	(660)	ADDRESS	4	MCTOPYTP(0)	OUTPRTY PARM-STMT SUBSCAN PAIR
1632	(660)	ADDRESS	4	MCTOPYTU	"V(USEROPYT)" User table
1636	(664)	ADDRESS	4	MCTOPYTH	"V(HASPOPYT)" HASP table
1640	(668)	ADDRESS	4	MCTOPYTD	Dynamic table array
1644	(66C)	ADDRESS	4	MCTOTPTP(0)	OUTPUT display subscan pair
1644	(66C)	ADDRESS	4	MCTOTPTU	"V(USEROTPT)" User table
1648	(670)	ADDRESS	4	MCTOTPTH	"V(HASPOTPT)" HASP table
1652	(674)	ADDRESS	4	MCTOTPTD	Dynamic table array
1656	(678)	ADDRESS	4	MCTLOTTP(0)	OUTPUT PARM-STMT PAIR ($LJ)
1656	(678)	ADDRESS	4	MCTLOTTU	"V(USERLOTT)" User table
1660	(67C)	ADDRESS	4	MCTLOTTH	"V(HASPLOTT)" HASP table
1664	(680)	ADDRESS	4	MCTLOTTD	Dynamic table array
1668	(684)	ADDRESS	4	MCTPTHTP(0)	Path parm-stmt subscan pair
1668	(684)	ADDRESS	4	MCTPTHTU	"V(USERPTHT)" User table
1672	(688)	ADDRESS	4	MCTPTHTH	"V(HASPPTHT)" HASP table
1676	(68C)	ADDRESS	4	MCTPTHTD	Dynamic table array
1680	(690)	ADDRESS	4	MCTPCCTP(0)	PCE parm-stmt subscan pair
1680	(690)	ADDRESS	4	MCTPCCTU	"V(USERPCCT)" User table
1684	(694)	ADDRESS	4	MCTPCCTH	"V(HASPPCCT)" HASP table
1688	(698)	ADDRESS	4	MCTPCCTD	Dynamic table array
1692	(69C)	ADDRESS	4	MCTPCNTP(0)	PCE COUNT parm subscan pair
1692	(69C)	ADDRESS	4	MCTPCNTU	"V(USERPCNT)" User table
1696	(6A0)	ADDRESS	4	MCTPCNTH	"V(HASPPCNT)" HASP table
1700	(6A4)	ADDRESS	4	MCTPCNTD	Dynamic table array
1704	(6A8)	ADDRESS	4	MCTPDTTP(0)	PCE DETAILS parm subscan pair
1704	(6A8)	ADDRESS	4	MCTPDTTU	"V(USERPDTT)" User table
1708	(6AC)	ADDRESS	4	MCTPDTTH	"V(HASPPDTT)" HASP table
1712	(6B0)	ADDRESS	4	MCTPDTTD	Dynamic table array
1716	(6B4)	ADDRESS	4	MCTPCDTP(0)	PCEDEF PARM-STMT SUBSCAN PAIR

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1716	(6B4)	ADDRESS	4	MCTPCDTU	"V(USERPCDT)" User table
1720	(6B8)	ADDRESS	4	MCTPCDTH	"V(HASPPCDT)" HASP table
1724	(6BC)	ADDRESS	4	MCTPCDTD	Dynamic table array
1728	(6C0)	ADDRESS	4	MCTPTDTP(0)	PRINTDEF PARM-STMT SUBSCAN PAIR
1728	(6C0)	ADDRESS	4	MCTPTDTU	"V(USERPTDT)" User table
1732	(6C4)	ADDRESS	4	MCTPTDTH	"V(HASPPTDT)" HASP table
1736	(6C8)	ADDRESS	4	MCTPTDTD	Dynamic table array
1740	(6CC)	ADDRESS	4	MCTPDDTP(0)	PROCLIB DD Parm-stmt subscan pair
1740	(6CC)	ADDRESS	4	MCTPDDTU	"V(USERPDDT)" User table
1744	(6D0)	ADDRESS	4	MCTPDDTH	"V(HASPPDDT)" HASP table
1748	(6D4)	ADDRESS	4	MCTPDDTD	Dynamic table array
1752	(6D8)	ADDRESS	4	MCTPUDTP(0)	PUNCHDEF PARM-STMT SUBSCAN PAIR
1752	(6D8)	ADDRESS	4	MCTPUDTU	"V(USERPUDT)" User table
1756	(6DC)	ADDRESS	4	MCTPUDTH	"V(HASPPUDT)" HASP table
1760	(6E0)	ADDRESS	4	MCTPUDTD	Dynamic table array
1764	(6E4)	ADDRESS	4	MCTIAUTP(0)	RDInn AUTH SUBSCAN PAIR
1764	(6E4)	ADDRESS	4	MCTIAUTU	"V(USERIAUT)" User table
1768	(6E8)	ADDRESS	4	MCTIAUTH	"V(HASPIAUT)" HASP table
1772	(6EC)	ADDRESS	4	MCTIAUTD	Dynamic table array
1776	(6F0)	ADDRESS	4	MCTIJBTP(0)	RDInn JOB SCANTAB PAIR
1776	(6F0)	ADDRESS	4	MCTIJBTU	"V(USERIJBT)" User table
1780	(6F4)	ADDRESS	4	MCTIJBTH	"V(HASPIJBT)" HASP table
1784	(6F8)	ADDRESS	4	MCTIJBTD	Dynamic table array
1788	(6FC)	ADDRESS	4	MCTIJSTP(0)	RDInn JOBSTAT SUBSCAN PAIR
1788	(6FC)	ADDRESS	4	MCTIJSTU	"V(USERIJST)" User table
1792	(700)	ADDRESS	4	MCTIJSTH	"V(HASPIJST)" HASP table
1796	(704)	ADDRESS	4	MCTIJSTD	Dynamic table array
1800	(708)	ADDRESS	4	MCTIOWTP(0)	RDInn OWNER SCANTAB PAIR
1800	(708)	ADDRESS	4	MCTIOWTU	"V(USERIOWT)" User table
1804	(70C)	ADDRESS	4	MCTIOWTH	"V(HASPIOWT)" HASP table
1808	(710)	ADDRESS	4	MCTIOWTD	Dynamic table array
1812	(714)	ADDRESS	4	MCTRAUTP(0)	RDRnn AUTH SUBSCAN PAIR
1812	(714)	ADDRESS	4	MCTRAUTU	"V(USERRAUT)" User table
1816	(718)	ADDRESS	4	MCTRAUTH	"V(HASPRAUT)" HASP table
1820	(71C)	ADDRESS	4	MCTRAUTD	Dynamic table array
1824	(720)	ADDRESS	4	MCTREDTP(0)	REDIR PARM-STMT SUBSCAN PR
1824	(720)	ADDRESS	4	MCTREDTU	"V(USERREDT)" User table
1828	(724)	ADDRESS	4	MCTREDTH	"V(HASPREDT)" HASP table
1832	(728)	ADDRESS	4	MCTREDTD	Dynamic table array
1836	(72C)	ADDRESS	4	MCTRCVTP(0)	RECVOPTS PARM-STMT SUBSCAN
1836	(72C)	ADDRESS	4	MCTRCVTU	"V(USERRCVT)" User table
1840	(730)	ADDRESS	4	MCTRCVTH	"V(HASPRCVT)" HASP table
1844	(734)	ADDRESS	4	MCTRCVTD	Dynamic table array
1848	(738)	ADDRESS	4	MCTRMTTP(0)	RMTNNNN PARM-STMT SUBSCAN
1848	(738)	ADDRESS	4	MCTRMTTU	"V(USERRMTT)" User table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1852	(73C)	ADDRESS	4	MCTRMTTH	"V(HASPRMTT)" HASP table
1856	(740)	ADDRESS	4	MCTRMTTD	Dynamic table array
1860	(744)	ADDRESS	4	MCTSCTTP(0)	OUTCLASS PARM-STMT SUBSCAN PAIR
1860	(744)	ADDRESS	4	MCTSCTTU	"V(USERSCTT)" User table
1864	(748)	ADDRESS	4	MCTSCTTH	"V(HASPSCTT)" HASP table
1868	(74C)	ADDRESS	4	MCTSCTTD	Dynamic table array
1872	(750)	ADDRESS	4	MCTSMFTP(0)	SMFDEF PARM-STMT SUBSCAN PAIR
1872	(750)	ADDRESS	4	MCTSMFTU	"V(USERSMFT)" User table
1876	(754)	ADDRESS	4	MCTSMFTH	"V(HASPSMFT)" HASP table
1880	(758)	ADDRESS	4	MCTSMFTD	Dynamic table array
1884	(75C)	ADDRESS	4	MCTSPLTP(0)	SPOOL PARM-STMT PAIR
1884	(75C)	ADDRESS	4	MCTSPLTU	"V(USERSPLT)" User table
1888	(760)	ADDRESS	4	MCTSPLTH	"V(HASPSPLT)" HASP table
1892	(764)	ADDRESS	4	MCTSPLTD	Dynamic table array
1896	(768)	ADDRESS	4	MCTSPDTP(0)	SPOOLDEF PARM-STMT SUBSCAN PAIR
1896	(768)	ADDRESS	4	MCTSPDTU	"V(USERSPDT)" User table
1900	(76C)	ADDRESS	4	MCTSPDTH	"V(HASPSPDT)" HASP table
1904	(770)	ADDRESS	4	MCTSPDTD	Dynamic table array
1908	(774)	ADDRESS	4	MCTFENTP(0)	SPOOLDEF FENCE=subscan
1908	(774)	ADDRESS	4	MCTFENTU	"V(USERFENT)" User table
1912	(778)	ADDRESS	4	MCTFENTH	"V(HASPFENT)" HASP table
1916	(77C)	ADDRESS	4	MCTFENTD	Dynamic table array
1920	(780)	ADDRESS	4	MCTTGSTP(0)	SPOOLDEF TGSPACE=subscan
1920	(780)	ADDRESS	4	MCTTGSTU	"V(USERTGST)" User table
1924	(784)	ADDRESS	4	MCTTGSTH	"V(HASPTGST)" HASP table
1928	(788)	ADDRESS	4	MCTTGSTD	Dynamic table array
1932	(78C)	ADDRESS	4	MCTWSCTP(0)	SERVICE Class Parms-statements subscan
1932	(78C)	ADDRESS	4	MCTWSCTU	"V(USERWSCT)" User table
1936	(790)	ADDRESS	4	MCTWSCTH	"V(HASPWSCT)" HASP table
1940	(794)	ADDRESS	4	MCTWSCTD	Dynamic table array
1944	(798)	ADDRESS	4	MCTWCTTP(0)	SERVICE class COUNT= SUBSCAN
1944	(798)	ADDRESS	4	MCTWCTTU	"V(USERWCTT)" User table
1948	(79C)	ADDRESS	4	MCTWCTTH	"V(HASPWCTT)" HASP table
1952	(7A0)	ADDRESS	4	MCTWCTTD	Dynamic table array
1956	(7A4)	ADDRESS	4	MCTWMCTP(0)	SERVICE class MASCOUNT= SUBSCAN
1956	(7A4)	ADDRESS	4	MCTWMCTU	"V(USERWMCT)" User table
1960	(7A8)	ADDRESS	4	MCTWMCTH	"V(HASPWMCT)" HASP table
1964	(7AC)	ADDRESS	4	MCTWMCTD	Dynamic table array
1968	(7B0)	ADDRESS	4	MCTSBDTP(0)	SUBTDEF STMT SUBSCAN PAIR
1968	(7B0)	ADDRESS	4	MCTSBDTU	"V(USERSBDT)" User table
1972	(7B4)	ADDRESS	4	MCTSBDTH	"V(HASPSBDT)" HASP table
1976	(7B8)	ADDRESS	4	MCTSBDTD	Dynamic table array
1980	(7BC)	ADDRESS	4	MCTTPDTP(0)	TPDEF PARM-STMT SUBSCAN PAIR
1980	(7BC)	ADDRESS	4	MCTTPDTU	"V(USERTPDT)" User table
1984	(7C0)	ADDRESS	4	MCTTPDTH	"V(HASPTPDT)" HASP table

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1988	(7C4)	ADDRESS	4	MCTTPDTD	Dynamic table array
1992	(7C8)	ADDRESS	4	MCTTRCTP(0)	TRACEDEF PARM-STMT SUBSCAN PAIR
1992	(7C8)	ADDRESS	4	MCTTRCTU	"V(USERTRCT)" User table
1996	(7CC)	ADDRESS	4	MCTTRCTH	"V(HASPTRCT)" HASP table
2000	(7D0)	ADDRESS	4	MCTTRCTD	Dynamic table array
2004	(7D4)	ADDRESS	4	MCTTRITP(0)	TRACE(N) PARM-STMT SUBSCAN PR
2004	(7D4)	ADDRESS	4	MCTTRITU	"V(USERTRIT)" User table
2008	(7D8)	ADDRESS	4	MCTTRITH	"V(HASPTRIT)" HASP table
2012	(7DC)	ADDRESS	4	MCTTRITD	Dynamic table array
2016	(7E0)	ADDRESS	4	MCTSTATP(0)	TRACE STAT PARM-STMT SUBSCAN PR
2016	(7E0)	ADDRESS	4	MCTSTATU	"V(USERSTAT)" User table
2020	(7E4)	ADDRESS	4	MCTSTATH	"V(HASPSTAT)" HASP table
2024	(7E8)	ADDRESS	4	MCTSTATD	Dynamic table array
2028	(7EC)	ADDRESS	4	MCTTLGTP(0)	TRC LOG PARM-STMT SUBSCAN PAIR
2028	(7EC)	ADDRESS	4	MCTTLGTU	"V(USERTLGT)" User table
2032	(7F0)	ADDRESS	4	MCTTLGTH	"V(HASPTLGT)" HASP table
2036	(7F4)	ADDRESS	4	MCTTLGTD	Dynamic table array
2040	(7F8)	ADDRESS	4	MCTSSITP(0)	SSI PARM-STMT SUBSCAN PAIR
2040	(7F8)	ADDRESS	4	MCTSSITU	"V(USERSSIT)" User table
2044	(7FC)	ADDRESS	4	MCTSSITH	"V(HASPSSIT)" HASP table
2048	(800)	ADDRESS	4	MCTSSITD	Dynamic table array
2052	(804)	ADDRESS	4	MCTSEPTP(0)	SEPPAGE PARM-STMT SUBSCN PR
2052	(804)	ADDRESS	4	MCTSEPTU	"V(USERSEPT)" User table
2056	(808)	ADDRESS	4	MCTSEPTH	"V(HASPSEPT)" HASP table
2060	(80C)	ADDRESS	4	MCTSEPTD	Dynamic table array
2064	(810)	ADDRESS	4	MCTVIATP(0)	Path parm-stmt VIA subparm
2064	(810)	ADDRESS	4	MCTVIATU	"V(USERVIAT)" User table
2068	(814)	ADDRESS	4	MCTVIATH	"V(HASPVIAT)" HASP table
2072	(818)	ADDRESS	4	MCTVIATD	Dynamic table array
2076	(81C)	ADDRESS	4	MCTVUNTP(0)	SPOOL UNITDATA= subparm
2076	(81C)	ADDRESS	4	MCTVUNTU	"V(USERVUNT)" User table
2080	(820)	ADDRESS	4	MCTVUNTH	"V(HASPVUNT)" HASP table
2084	(824)	ADDRESS	4	MCTVUNTD	Dynamic table array
2088	(828)	ADDRESS	4	MCTZJBTP(0)	ZAPJOB SUBSCAN pair
2088	(828)	ADDRESS	4	MCTZJBTU	"V(USERZJBT)" User table
2092	(82C)	ADDRESS	4	MCTZJBTH	"V(HASPZJBT)" HASP table
2096	(830)	ADDRESS	4	MCTZJBTD	Dynamic table array
2100	(834)	ADDRESS	4	MCT4KPTP(0)	CKPTSPACE 4K_RECS subparm
2100	(834)	ADDRESS	4	MCT4KPTU	"V(USER4KPT)" User table
2104	(838)	ADDRESS	4	MCT4KPTH	"V(HASP4KPT)" HASP table
2108	(83C)	ADDRESS	4	MCT4KPTD	Dynamic table array
2112	(840)	ADDRESS	4	MCTPRFTP(0)	PRTnn FSSINFO subparm
2112	(840)	ADDRESS	4	MCTPRFTU	"V(USERPRFT)" User table
2116	(844)	ADDRESS	4	MCTPRFTH	"V(HASPPRFT)" HASP table
2120	(848)	ADDRESS	4	MCTPRFTD	Dynamic table array

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2124	(84C)	ADDRESS	4	MCTLRPTP(0)	$L JOBQ RECORDS/PAGES subparms
2124	(84C)	ADDRESS	4	MCTLRPTU	"V(USERLRPT)" User table
2128	(850)	ADDRESS	4	MCTLRPTH	"V(HASPLRPT)" HASP table
2132	(854)	ADDRESS	4	MCTLRPTD	Dynamic table array
2136	(858)	ADDRESS	4	MCTGSUTP(0)	Gnnn SUMMARY SUBSCAN PAIR
2136	(858)	ADDRESS	4	MCTGSUTU	"V(USERGSUT)" User table
2140	(85C)	ADDRESS	4	MCTGSUTH	"V(HASPGSUT)" HASP table
2144	(860)	ADDRESS	4	MCTGSUTD	Dynamic table array
2148	(864)	ADDRESS	4	(3)	Reserved for future use
2160	(870)	ADDRESS	4	(3)	Reserved for future use
	WORK SELECTION USER AND HASP TABLES				
2172	(87C)	ADDRESS	4	MCTPRWTP(0)	PRINTER WS TABLE ADDR PAIR
2172	(87C)	ADDRESS	4	MCTPRWTU	"V(USERPRWT)" User table
2176	(880)	ADDRESS	4	MCTPRWTH	"V(HASPPRWT)" HASP table
2180	(884)	ADDRESS	4	MCTPRWTD	Dynamic table array
2184	(888)	ADDRESS	4	MCTPUWTP(0)	PUNCH WS TABLE ADDR PAIR
2184	(888)	ADDRESS	4	MCTPUWTU	"V(USERPUWT)" User table
2188	(88C)	ADDRESS	4	MCTPUWTH	"V(HASPPUWT)" HASP table
2192	(890)	ADDRESS	4	MCTPUWTD	Dynamic table array
2196	(894)	ADDRESS	4	MCTJTWTP(0)	OFFJT WS TABLE ADDR PAIR
2196	(894)	ADDRESS	4	MCTJTWTU	"V(USERJTWT)" User table
2200	(898)	ADDRESS	4	MCTJTWTH	"V(HASPJTWT)" HASP table
2204	(89C)	ADDRESS	4	MCTJTWTD	Dynamic table array
2208	(8A0)	ADDRESS	4	MCTJRWTP(0)	OFFJR WS TABLE ADDR PAIR
2208	(8A0)	ADDRESS	4	MCTJRWTU	"V(USERJRWT)" User table
2212	(8A4)	ADDRESS	4	MCTJRWTH	"V(HASPJRWT)" HASP table
2216	(8A8)	ADDRESS	4	MCTJRWTD	Dynamic table array
2220	(8AC)	ADDRESS	4	MCTSTWTP(0)	OFFST WS TABLE ADDR PAIR
2220	(8AC)	ADDRESS	4	MCTSTWTU	"V(USERSTWT)" User table
2224	(8B0)	ADDRESS	4	MCTSTWTH	"V(HASPSTWT)" HASP table
2228	(8B4)	ADDRESS	4	MCTSTWTD	Dynamic table array
2232	(8B8)	ADDRESS	4	MCTSRWTP(0)	OFFSR WS TABLE ADDR PAIR
2232	(8B8)	ADDRESS	4	MCTSRWTU	"V(USERSRWT)" User table
2236	(8BC)	ADDRESS	4	MCTSRWTH	"V(HASPSRWT)" HASP table
2240	(8C0)	ADDRESS	4	MCTSRWTD	Dynamic table array
2244	(8C4)	ADDRESS	4	MCTLJWTP(0)	Lx.JT WS table ADDR PAIR
2244	(8C4)	ADDRESS	4	MCTLJWTU	"V(USERLJWT)" User table
2248	(8C8)	ADDRESS	4	MCTLJWTH	"V(HASPLJWT)" HASP table
2252	(8CC)	ADDRESS	4	MCTLJWTD	Dynamic table array
2256	(8D0)	ADDRESS	4	MCTLSWTP(0)	Lx.ST WS table ADDR PAIR
2256	(8D0)	ADDRESS	4	MCTLSWTU	"V(USERLSWT)" User table
2260	(8D4)	ADDRESS	4	MCTLSWTH	"V(HASPLSWT)" HASP table
2264	(8D8)	ADDRESS	4	MCTLSWTD	Dynamic table array
2268	(8DC)	ADDRESS	4	MCTSAWTP(0)	Sysout API table Addr Pair

Table 278. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2268	(8DC)	ADDRESS	4	MCTSAWTU	"V(USERSAWT)" User table
2272	(8E0)	ADDRESS	4	MCTSAWTH	"V(HASPSAWT)" HASP table
2276	(8E4)	ADDRESS	4	MCTSAWTD	Dynamic table array
2280	(8E8)	ADDRESS	4	(3)	Reserved for future use
2292	(8F4)	ADDRESS	4	MCTSWCTP(0)	SAPI cache attributes table
2292	(8F4)	ADDRESS	4	MCTSWCTU	"V(USERSWCT)" User table
2296	(8F8)	ADDRESS	4	MCTSWCTH	"V(HASPSWCT)" HASP table
2300	(8FC)	ADDRESS	4	MCTSWCTD	Dynamic table array
2304	(900)	ADDRESS	4	MCTLWCTP(0)	Local cache attributes table
2304	(900)	ADDRESS	4	MCTLWCTU	"V(USERLWCT)" User table
2308	(904)	ADDRESS	4	MCTLWCTH	"V(HASPLWCT)" HASP table
2312	(908)	ADDRESS	4	MCTLWCTD	Dynamic table array
2316	(90C)	ADDRESS	4	MCTJFATP(0)	JOE field access table
2316	(90C)	ADDRESS	4	MCTJFATU	"V(USERJFAT)" User table
2320	(910)	ADDRESS	4	MCTJFATH	"V(HASPJFAT)" HASP table
2324	(914)	ADDRESS	4	MCTJFATD	Dynamic table array
2328	(918)	ADDRESS	4	MCTJVDTP(0)	JOE view definition table
2328	(918)	ADDRESS	4	MCTJVDTU	"V(USERJVDT)" User table
2332	(91C)	ADDRESS	4	MCTJVDTH	"V(HASPJVDT)" HASP table
2336	(920)	ADDRESS	4	MCTJVDTD	Dynamic table array
MISCELLANEOUS SECTION FOR USER TABLE POINTERS					
2340	(924)	ADDRESS	4	MCTERRTP(0)	USER ERROR TEXT TABLE
2340	(924)	ADDRESS	4	MCTERRTU	"V(USERERRT)" User table
2344	(928)	ADDRESS	4		HASP table
2348	(92C)	ADDRESS	4	MCTERRTD	Dynamic table array
2348	(92C)	X'930'	0	MCTLEN	"*-MCT" LENGTH OF THE MCT

Table 279. Cross Reference for $MCT

Name	Offset	Hex Tag
MCT	0	
MCTACTTD	314	
MCTACTTH	310	
MCTACTTP	30C	
MCTACTTU	30C	
MCTADRTH	234	
MCTADRTP	234	
MCTAPCTH	2DC	
MCTAPCTP	2DC	
MCTAPLTD	320	
MCTAPLTH	31C	
MCTAPLTP	318	
MCTAPLTU	318	
MCTAUTTH	23C	
MCTAUTTP	23C	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTBADTD	32C	
MCTBADTH	328	
MCTBADTP	324	
MCTBADTU	324	
MCTBFHTD	344	
MCTBFHTH	340	
MCTBFHTP	33C	
MCTBFHTU	33C	
MCTBFXTD	350	
MCTBFXTH	34C	
MCTBFXTP	348	
MCTBFXTU	348	
MCTBRTTD	50	
MCTBRTTH	4C	
MCTBRTTP	48	
MCTBRTTU	48	
MCTBSCTD	35C	
MCTBSCTH	358	
MCTBSCTP	354	
MCTBSCTU	354	
MCTBUFTD	338	
MCTBUFTH	334	
MCTBUFTP	330	
MCTBUFTU	330	
MCTCATTD	398	
MCTCATTH	394	
MCTCATTP	390	
MCTCATTU	390	
MCTCFSTH	2F4	
MCTCFSTP	2F4	
MCTCHRTH	244	
MCTCHRTP	244	
MCTCKLTD	3BC	
MCTCKLTH	3B8	
MCTCKLTP	3B4	
MCTCKLTU	3B4	
MCTCKSTH	2F0	
MCTCKSTP	2F0	
MCTCKTTD	3B0	
MCTCKTTH	3AC	
MCTCKTTP	3A8	
MCTCKTTU	3A8	
MCTCLGTD	404	
MCTCLGTH	400	
MCTCLGTP	3FC	
MCTCLGTU	3FC	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTCNDTD	410	
MCTCNDTH	40C	
MCTCNDTP	408	
MCTCNDTU	408	
MCTCOMTD	41C	
MCTCOMTH	418	
MCTCOMTP	414	
MCTCOMTU	414	
MCTCONTD	428	
MCTCONTH	424	
MCTCONTP	420	
MCTCONTU	420	
MCTDBGTD	434	
MCTDBGTH	430	
MCTDBGTP	42C	
MCTDBGTU	42C	
MCTDCTTD	14	
MCTDCTTH	10	
MCTDCTTP	C	
MCTDCTTU	C	
MCTDESTD	440	
MCTDESTH	43C	
MCTDESTP	438	
MCTDESTU	438	
MCTDPYTD	164	
MCTDPYTH	160	
MCTDPYTP	15C	
MCTDPYTU	15C	
MCTDRMTH	254	
MCTDRMTP	254	
MCTDSTTD	44C	
MCTDSTTH	448	
MCTDSTTP	444	
MCTDSTTU	444	
MCTDTETD	20	
MCTDTETH	1C	
MCTDTETP	18	
MCTDTETU	18	
MCTDUPTD	458	
MCTDUPTH	454	
MCTDUPTP	450	
MCTDUPTU	450	
MCTDVRTH	2CC	
MCTDVRTP	2CC	
MCTEBYTD	470	
MCTEBYTH	46C	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTEBYTP	468	
MCTEBYTU	468	
MCTEKNTD	3E0	
MCTEKNTH	3DC	
MCTEKNTP	3D8	
MCTEKNTU	3D8	
MCTELCTD	464	
MCTELCTH	460	
MCTELCTP	45C	
MCTELCTU	45C	
MCTEPGTD	47C	
MCTEPGTH	478	
MCTEPGTP	474	
MCTEPGTU	474	
MCTEPNTD	488	
MCTEPNTH	484	
MCTEPNTP	480	
MCTEPNTU	480	
MCTERRTD	92C	
MCTERRTP	924	
MCTERRTU	924	
MCTETMTD	494	
MCTETMTH	490	
MCTETMTP	48C	
MCTETMTU	48C	
MCTFENTD	77C	
MCTFENTH	778	
MCTFENTP	774	
MCTFENTU	774	
MCTFRMTH	26C	
MCTFRMTP	26C	
MCTFSSTD	4B8	
MCTFSSTH	4B4	
MCTFSSTP	4B0	
MCTFSSTU	4B0	
MCTGRPTD	500	
MCTGRPTH	4FC	
MCTGRPTP	4F8	
MCTGRPTU	4F8	
MCTGSUTD	860	
MCTGSUTH	85C	
MCTGSUTP	858	
MCTGSUTU	858	
MCTHDRTD	4D0	
MCTHDRTH	4CC	
MCTHDRTP	4C8	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTHDRTU	4C8	
MCTIAUTD	6EC	
MCTIAUTH	6E8	
MCTIAUTP	6E4	
MCTIAUTU	6E4	
MCTIINTD	4E8	
MCTIINTH	4E4	
MCTIINTP	4E0	
MCTIINTU	4E0	
MCTIJBTD	6F8	
MCTIJBTH	6F4	
MCTIJBTP	6F0	
MCTIJBTU	6F0	
MCTIJSTD	704	
MCTIJSTH	700	
MCTIJSTP	6FC	
MCTIJSTU	6FC	
MCTINCTD	4C4	
MCTINCTH	4C0	
MCTINCTP	4BC	
MCTINCTU	4BC	
MCTINPTD	50C	
MCTINPTH	508	
MCTINPTP	504	
MCTINPTU	504	
MCTINRTD	80	
MCTINRTH	7C	
MCTINRTP	78	
MCTINRTU	78	
MCTIOWTD	710	
MCTIOWTH	70C	
MCTIOWTP	708	
MCTIOWTU	708	
MCTJCCTD	38C	
MCTJCCTH	388	
MCTJCCTP	384	
MCTJCCTU	384	
MCTJCXTD	380	
MCTJCXTH	37C	
MCTJCXTP	378	
MCTJCXTU	378	
MCTJECTD	518	
MCTJECTH	514	
MCTJECTP	510	
MCTJECTU	510	
MCTJFATD	914	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTJFATH	910	
MCTJFATP	90C	
MCTJFATU	90C	
MCTJFETD	584	
MCTJFETH	580	
MCTJFETP	57C	
MCTJFETU	57C	
MCTJFLTD	578	
MCTJFLTH	574	
MCTJFLTP	570	
MCTJFLTU	570	
MCTJOBTD	53C	
MCTJOBTH	538	
MCTJOBTP	534	
MCTJOBTU	534	
MCTJOFTD	560	
MCTJOFTH	55C	
MCTJOFTP	558	
MCTJOFTU	558	
MCTJPYTD	590	
MCTJPYTH	58C	
MCTJPYTP	588	
MCTJPYTU	588	
MCTJQETD	548	
MCTJQETH	544	
MCTJQETP	540	
MCTJQETU	540	
MCTJRNTH	24C	
MCTJRNTP	24C	
MCTJRWTD	8A8	
MCTJRWTH	8A4	
MCTJRWTP	8A0	
MCTJRWTU	8A0	
MCTJSPTD	554	
MCTJSPTH	550	
MCTJSPTP	54C	
MCTJSPTU	54C	
MCTJTWTD	89C	
MCTJTWTH	898	
MCTJTWTP	894	
MCTJTWTU	894	
MCTJVDTD	920	
MCTJVDTH	91C	
MCTJVDTP	918	
MCTJVDTU	918	
MCTJ2CTD	524	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTJ2CTH	520	
MCTJ2CTP	51C	
MCTJ2CTU	51C	
MCTJ3CTD	530	
MCTJ3CTH	52C	
MCTJ3CTP	528	
MCTJ3CTU	528	
MCTKPNTD	3D4	
MCTKPNTH	3D0	
MCTKPNTP	3CC	
MCTKPNTU	3CC	
MCTLEN	92C	930
MCTLIMTH	274	
MCTLIMTP	274	
MCTLINTD	A4	
MCTLINTH	A0	
MCTLINTP	9C	
MCTLINTU	9C	
MCTLJRTD	B0	
MCTLJRTH	AC	
MCTLJRTP	A8	
MCTLJRTU	A8	
MCTLJTTD	BC	
MCTLJTTH	B8	
MCTLJTTP	B4	
MCTLJTTU	B4	
MCTLJWTD	8CC	
MCTLJWTH	8C8	
MCTLJWTP	8C4	
MCTLJWTU	8C4	
MCTLMTTD	59C	
MCTLMTTH	598	
MCTLMTTP	594	
MCTLMTTU	594	
MCTLNCTH	2D0	
MCTLNCTP	2D0	
MCTLNETD	8C	
MCTLNETH	88	
MCTLNETP	84	
MCTLNETU	84	
MCTLODTD	5A8	
MCTLODTH	5A4	
MCTLODTP	5A0	
MCTLODTU	5A0	
MCTLOGTD	E0	
MCTLOGTH	DC	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTLOGTP	D8	
MCTLOGTU	D8	
MCTLOTTD	680	
MCTLOTTH	67C	
MCTLOTTP	678	
MCTLOTTU	678	
MCTLRPTD	854	
MCTLRPTH	850	
MCTLRPTP	84C	
MCTLRPTU	84C	
MCTLSRTD	C8	
MCTLSRTH	C4	
MCTLSRTP	C0	
MCTLSRTU	C0	
MCTLSTTD	D4	
MCTLSTTH	D0	
MCTLSTTP	CC	
MCTLSTTU	CC	
MCTLSWTD	8D8	
MCTLSWTH	8D4	
MCTLSWTP	8D0	
MCTLSWTU	8D0	
MCTLTRTD	98	
MCTLTRTH	94	
MCTLTRTP	90	
MCTLTRTU	90	
MCTLWCTD	908	
MCTLWCTH	904	
MCTLWCTP	900	
MCTLWCTU	900	
MCTMASTD	5B4	
MCTMASTH	5B0	
MCTMASTP	5AC	
MCTMASTU	5AC	
MCTMEMTD	5C0	
MCTMEMTH	5BC	
MCTMEMTP	5B8	
MCTMEMTU	5B8	
MCTMGTD	74	
MCTMGTH	70	
MCTMGTP	6C	
MCTMGTU	6C	
MCTMIGTD	5D8	
MCTMIGTH	5D4	
MCTMIGTP	5D0	
MCTMIGTU	5D0	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTMJFTD	56C	
MCTMJFTH	568	
MCTMJFTP	564	
MCTMJFTU	564	
MCTMODTH	5E0	
MCTMODTP	5DC	
MCTMPSTD	68	
MCTMPSTH	64	
MCTMPSTP	60	
MCTMPSTU	60	
MCTMSGTH	240	
MCTMSGTP	240	
MCTMSMTH	278	
MCTMSMTP	278	
MCTNAUTD	620	
MCTNAUTH	61C	
MCTNAUTP	618	
MCTNAUTU	618	
MCTNDPTD	614	
MCTNDPTH	610	
MCTNDPTP	60C	
MCTNDPTU	60C	
MCTNETTD	62C	
MCTNETTH	628	
MCTNETTP	624	
MCTNETTU	624	
MCTNJCTH	2E0	
MCTNJCTP	2E0	
MCTNJETD	5F0	
MCTNJETH	5EC	
MCTNJETP	5E8	
MCTNJETU	5E8	
MCTNOCTH	2E4	
MCTNOCTP	2E4	
MCTNODTD	608	
MCTNODTH	604	
MCTNODTP	600	
MCTNODTU	600	
MCTNSVTD	200	
MCTNSVTH	1FC	
MCTNSVTP	1F8	
MCTNSVTU	1F8	
MCTNTRTD	20C	
MCTNTRTH	208	
MCTNTRTP	204	
MCTNTRTU	204	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTNWKTD	5FC	
MCTNWKTH	5F8	
MCTNWKTP	5F4	
MCTNWKTU	5F4	
MCTOFCTH	2EC	
MCTOFCTP	2EC	
MCTOFFTD	F8	
MCTOFFTH	F4	
MCTOFFTP	F0	
MCTOFFTU	F0	
MCTOFLTD	EC	
MCTOFLTH	E8	
MCTOFLTP	E4	
MCTOFLTU	E4	
MCTOJMTD	638	
MCTOJMTH	634	
MCTOJMTP	630	
MCTOJMTU	630	
MCTOJRTD	104	
MCTOJRTH	100	
MCTOJRTP	FC	
MCTOJRTU	FC	
MCTOJTTD	110	
MCTOJTTH	10C	
MCTOJTTP	108	
MCTOJTTU	108	
MCTOPDTD	650	
MCTOPDTH	64C	
MCTOPDTP	648	
MCTOPDTU	648	
MCTOPTTD	5C	
MCTOPTTH	58	
MCTOPTTP	54	
MCTOPTTU	54	
MCTOPYTD	668	
MCTOPYTH	664	
MCTOPYTP	660	
MCTOPYTU	660	
MCTOSMTD	644	
MCTOSMTH	640	
MCTOSMTP	63C	
MCTOSMTU	63C	
MCTOSRTD	11C	
MCTOSRTH	118	
MCTOSRTP	114	
MCTOSRTU	114	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTOSTTD	128	
MCTOSTTH	124	
MCTOSTTP	120	
MCTOSTTU	120	
MCTOTPTD	674	
MCTOTPTH	670	
MCTOTPTP	66C	
MCTOTPTU	66C	
MCTOUNTH	280	
MCTOUNTP	280	
MCTOUTTD	65C	
MCTOUTTH	658	
MCTOUTTP	654	
MCTOUTTU	654	
MCTPARTD	4DC	
MCTPARTH	4D8	
MCTPARTP	4D4	
MCTPARTU	4D4	
MCTPCCTD	698	
MCTPCCTH	694	
MCTPCCTP	690	
MCTPCCTU	690	
MCTPCDTD	6BC	
MCTPCDTH	6B8	
MCTPCDTP	6B4	
MCTPCDTU	6B4	
MCTPCETD	8	
MCTPCETH	4	
MCTPCETP	0	
MCTPCETU	0	
MCTPCNTD	6A4	
MCTPCNTH	6A0	
MCTPCNTP	69C	
MCTPCNTU	69C	
MCTPCRTD	44	
MCTPCRTH	40	
MCTPCRTP	3C	
MCTPCRTU	3C	
MCTPDDTD	6D4	
MCTPDDTH	6D0	
MCTPDDTP	6CC	
MCTPDDTU	6CC	
MCTPDTTD	6B0	
MCTPDTTH	6AC	
MCTPDTTP	6A8	
MCTPDTTU	6A8	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTPITTD	4F4	
MCTPITTH	4F0	
MCTPITTP	4EC	
MCTPITTU	4EC	
MCTPLMTH	27C	
MCTPLMTP	27C	
MCTPPRTH	270	
MCTPPRTP	270	
MCTPRCTH	260	
MCTPRCTP	260	
MCTPRFTD	848	
MCTPRFTH	844	
MCTPRFTP	840	
MCTPRFTU	840	
MCTPRLTD	17C	
MCTPRLTH	178	
MCTPRLTP	174	
MCTPRLTU	174	
MCTPRTTD	170	
MCTPRTTH	16C	
MCTPRTTP	168	
MCTPRTTU	168	
MCTPRWTD	884	
MCTPRWTH	880	
MCTPRWTP	87C	
MCTPRWTU	87C	
MCTPTCTH	2E8	
MCTPTCTP	2E8	
MCTPTDTD	6C8	
MCTPTDTH	6C4	
MCTPTDTP	6C0	
MCTPTDTU	6C0	
MCTPTHTD	68C	
MCTPTHTH	688	
MCTPTHTP	684	
MCTPTHTU	684	
MCTPUDTD	6E0	
MCTPUDTH	6DC	
MCTPUDTP	6D8	
MCTPUDTU	6D8	
MCTPUNTD	188	
MCTPUNTH	184	
MCTPUNTP	180	
MCTPUNTU	180	
MCTPUWTD	890	
MCTPUWTH	88C	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTPUWTP	888	
MCTPUWTU	888	
MCTPYDTD	140	
MCTPYDTH	13C	
MCTPYDTP	138	
MCTPYDTU	138	
MCTPYETD	14C	
MCTPYETH	148	
MCTPYETP	144	
MCTPYETU	144	
MCTPYITD	134	
MCTPYITH	130	
MCTPYITP	12C	
MCTPYITU	12C	
MCTPYSTD	158	
MCTPYSTH	154	
MCTPYSTP	150	
MCTPYSTU	150	
MCTP1CTH	2F8	
MCTP1CTP	2F8	
MCTRANTH	250	
MCTRANTP	250	
MCTRAUTD	71C	
MCTRAUTH	718	
MCTRAUTP	714	
MCTRAUTU	714	
MCTRCNTD	1E8	
MCTRCNTH	1E4	
MCTRCNTP	1E0	
MCTRCNTU	1E0	
MCTRCVTD	734	
MCTRCVTH	730	
MCTRCVTP	72C	
MCTRCVTU	72C	
MCTRDITD	194	
MCTRDITH	190	
MCTRDITP	18C	
MCTRDITU	18C	
MCTRDRTD	1A0	
MCTRDRTH	19C	
MCTRDRTP	198	
MCTRDRTU	198	
MCTRDTTD	2C	
MCTRDTTH	28	
MCTRDTTP	24	
MCTRDTTU	24	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTRDVTD	1B8	
MCTRDVTH	1B4	
MCTRDVTP	1B0	
MCTRDVTU	1B0	
MCTREDTD	728	
MCTREDTH	724	
MCTREDTP	720	
MCTREDTU	720	
MCTRMTTD	740	
MCTRMTTH	73C	
MCTRMTTP	738	
MCTRMTTU	738	
MCTRNGTH	258	
MCTRNGTP	258	
MCTRN2TH	25C	
MCTRN2TP	25C	
MCTRPRTD	1C4	
MCTRPRTH	1C0	
MCTRPRTP	1BC	
MCTRPRTU	1BC	
MCTRPUTD	1D0	
MCTRPUTH	1CC	
MCTRPUTP	1C8	
MCTRPUTU	1C8	
MCTRQJTD	1AC	
MCTRQJTH	1A8	
MCTRQJTP	1A4	
MCTRQJTU	1A4	
MCTRRDTD	1DC	
MCTRRDTH	1D8	
MCTRRDTP	1D4	
MCTRRDTU	1D4	
MCTSAFTH	264	
MCTSAFTP	264	
MCTSAWTD	8E4	
MCTSAWTH	8E0	
MCTSAWTP	8DC	
MCTSAWTU	8DC	
MCTSBDTD	7B8	
MCTSBDTH	7B4	
MCTSBDTP	7B0	
MCTSBDTU	7B0	
MCTSBMTD	224	
MCTSBMTH	220	
MCTSBMTP	21C	
MCTSBMTU	21C	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTSCTTD	74C	
MCTSCTTH	748	
MCTSCTTP	744	
MCTSCTTU	744	
MCTSEPTD	80C	
MCTSEPTH	808	
MCTSEPTP	804	
MCTSEPTU	804	
MCTSESTD	374	
MCTSESTH	370	
MCTSESTP	36C	
MCTSESTU	36C	
MCTSKCTH	2D4	
MCTSKCTP	2D4	
MCTSMFTD	758	
MCTSMFTH	754	
MCTSMFTP	750	
MCTSMFTU	750	
MCTSNATD	368	
MCTSNATH	364	
MCTSNATP	360	
MCTSNATU	360	
MCTSOKTD	218	
MCTSOKTH	214	
MCTSOKTP	210	
MCTSOKTU	210	
MCTSPCTD	3C8	
MCTSPCTH	3C4	
MCTSPCTP	3C0	
MCTSPCTU	3C0	
MCTSPDTD	770	
MCTSPDTH	76C	
MCTSPDTP	768	
MCTSPDTU	768	
MCTSPLTD	764	
MCTSPLTH	760	
MCTSPLTP	75C	
MCTSPLTU	75C	
MCTSPSTH	2D8	
MCTSPSTP	2D8	
MCTSRWTD	8C0	
MCTSRWTH	8BC	
MCTSRWTP	8B8	
MCTSRWTU	8B8	
MCTSSITD	800	
MCTSSITH	7FC	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTSSITP	7F8	
MCTSSITU	7F8	
MCTSTATD	7E8	
MCTSTATH	7E4	
MCTSTATP	7E0	
MCTSTATU	7E0	
MCTSTWTD	8B4	
MCTSTWTH	8B0	
MCTSTWTP	8AC	
MCTSTWTU	8AC	
MCTSTYTD	5CC	
MCTSTYTH	5C8	
MCTSTYTP	5C4	
MCTSTYTU	5C4	
MCTSUBTD	1F4	
MCTSUBTH	1F0	
MCTSUBTP	1EC	
MCTSUBTU	1EC	
MCTSWCTD	8FC	
MCTSWCTH	8F8	
MCTSWCTP	8F4	
MCTSWCTU	8F4	
MCTTGSTD	788	
MCTTGSTH	784	
MCTTGSTP	780	
MCTTGSTU	780	
MCTTIDTD	38	
MCTTIDTH	34	
MCTTIDTP	30	
MCTTIDTU	30	
MCTTLGTD	7F4	
MCTTLGTH	7F0	
MCTTLGTP	7EC	
MCTTLGTU	7EC	
MCTTPDTD	7C4	
MCTTPDTH	7C0	
MCTTPDTP	7BC	
MCTTPDTU	7BC	
MCTTRCTD	7D0	
MCTTRCTH	7CC	
MCTTRCTP	7C8	
MCTTRCTU	7C8	
MCTTRITD	7DC	
MCTTRITH	7D8	
MCTTRITP	7D4	
MCTTRITU	7D4	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTVCATH	2A0	
MCTVCATP	2A0	
MCTVIATD	818	
MCTVIATH	814	
MCTVIATP	810	
MCTVIATU	810	
MCTVISTH	2A8	
MCTVISTP	2A8	
MCTVJABH	2C4	
MCTVJABP	2C4	
MCTVJCTH	2AC	
MCTVJCTP	2AC	
MCTVJOFH	2B4	
MCTVJOFP	2B4	
MCTVJSTH	2B0	
MCTVJSTP	2B0	
MCTVJVLH	2C0	
MCTVJVLP	2C0	
MCTVKPTD	3F8	
MCTVKPTH	3F4	
MCTVKPTP	3F0	
MCTVKPTU	3F0	
MCTVLTTD	3EC	
MCTVLTTH	3E8	
MCTVLTTP	3E4	
MCTVLTTU	3E4	
MCTVOJLH	2C8	
MCTVOJLP	2C8	
MCTVOJTH	28C	
MCTVOJTP	28C	
MCTVOLTH	268	
MCTVOLTP	268	
MCTVOSTH	288	
MCTVOSTP	288	
MCTVSFTH	298	
MCTVSFTP	298	
MCTVSOFH	2B8	
MCTVSOFP	2B8	
MCTVSRTH	290	
MCTVSRTP	290	
MCTVSSTH	2A4	
MCTVSSTP	2A4	
MCTVSTTH	294	
MCTVSTTP	294	
MCTVTMTH	238	
MCTVTMTP	238	

Table 279. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTVUNTD	824	
MCTVUNTH	820	
MCTVUNTP	81C	
MCTVUNTU	81C	
MCTVVUDH	2BC	
MCTVVUDP	2BC	
MCTVWSAH	29C	
MCTVWSAP	29C	
MCTVWSTH	284	
MCTVWSTP	284	
MCTVXMTD	3A4	
MCTVXMTH	3A0	
MCTVXMTP	39C	
MCTVXMTU	39C	
MCTWCTTD	7A0	
MCTWCTTH	79C	
MCTWCTTP	798	
MCTWCTTU	798	
MCTWMCTD	7AC	
MCTWMCTH	7A8	
MCTWMCTP	7A4	
MCTWMCTU	7A4	
MCTWSCTD	794	
MCTWSCTH	790	
MCTWSCTP	78C	
MCTWSCTU	78C	
MCTXITTD	4A0	
MCTXITTH	49C	
MCTXITTP	498	
MCTXITTU	498	
MCTXRLTD	4AC	
MCTXRLTH	4A8	
MCTXRLTP	4A4	
MCTXRLTU	4A4	
MCTXRTTH	248	
MCTXRTTP	248	
MCTZJBTD	830	
MCTZJBTH	82C	
MCTZJBTP	828	
MCTZJBTU	828	
MCT4KPTD	83C	
MCT4KPTH	838	
MCT4KPTP	834	
MCT4KPTU	834	

$MIGROBJ information

$MIGROBJ heading information

Common name: Migration object

Macro ID: $MIGROBJ

DSECT name: MIGROBJ

Owning component: JES2 (SC1BH)

Eye-catcher ID: Volume serial
Offset: MIGKEY-MIGROBJ
Length: L'MIGKEY

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See MIGSIZ

Created by: $DOGDAS - create migration recovery object

Pointed to by: Pointer retuned by $DOGMIG service

Serialization: Update access is serialized by the BERT lock

Function: The $MIGROBJ is stored in BERTs in the JES2 checkpoint structure. The object is accessed via the source volume serial of the migrating SPOOL volume.
This macro maps a migration object. The scope of a recovery object is one migration being either a move or merge. Each and every migration has one.
A migration recovery object serves two purposes.
First it will house a target DAS for a move migration.
Secondly it contains recovery fields to restart or cancel a migration should the migrator -- member go away. The layout is as follows:

```
-------------------------------------------
| BERT backed target DAS - support of MOVE
-------------------------------------------
| Source VOLID
-------------------------------------------
| Recovery data (For move and merge)
-------------------------------------------
```

This object is BERT backed. Keyed BERT - keyed on source VOLID.

$MIGROBJ mapping

Table 280. Structure MIGROBJ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIGROBJ	
0	(0)	BITSTRING	212	MIGDAS	BERT backed DAS in support of move migration
212	(D4)	CHARACTER	6	MIGKEY	Migration source DAS VOLID - key BERT access for merge and move.
		Information used to drive migration recovery These fields are memory only (not in BERTs)			
220	(DC)	SIGNED	4	(0)	Alignment
220	(DC)	BITSTRING	1	RCGENINF	General recovery info
		Following 3 fields define migration recovery types which DADMSET1 will perform. Rotuine MIGRRECV (migration recovery) sets the recovery type and are interpreted by DADMSET1 (Recovery setup).			

Table 280. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		RCFULL	"B'10000000'" FULL-RECOVERY. Given source DAS our member becomes migrator and our migration assistant is also initialized.
		.1..		RCMIGRAT	"B'01000000'" MIGRATOR-TAKEOVER. Given source DAS our member becomes migrator. Our migration assistant is OK.
		..1.		RCASSIST	"B'00100000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
221	(DD)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	RCMIGDTE	MIGR DTE address
		Source DAS recovery information (BERT backed)			
232	(E8)	DBL WORD	8	RCSRCSTR(0)	Start of source info
232	(E8)	BITSTRING	1	RCRSRINF	Source dataset info
233	(E9)	BITSTRING	1	RCRSRSTS	Source migration status
		1...		RCRGMDN	"B'10000000'" DADMCLU1 - TARGTGM - This migration has run TARGTGM once either in normal or recovery mode and must must never run again. If we crash during TARGTGM the sniffer will recover target TGM in time.
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4	RCRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing
240	(F0)	SIGNED	4	RCRHITG	SRC DAS TG associated with highwater mark.
244	(F4)	SIGNED	4	RCRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
248	(F8)	SIGNED	4	RCRSBITR	Number of records needed to store the TLBM (track levelbitmap)
252	(FC)	SIGNED	4	RCRNUMRQ	Total number of tracks which must be migrated for this migration.
256	(100)	SIGNED	4	RCRSRECT	Number of records per track
260	(104)	SIGNED	4	RCRSRTRC	Tracks per cylinder
264	(108)	BITSTRING	1	RCRSRFIX	One to ensure max BERT
272	(110)	DBL WORD	8	(0)	Align section
272	(110)	X'E8'	0	RCSRCINF	"RCSRCSTR,*-RCSRCSTR" Source info segment in BERTs
		End source DAS Target DAS recovery information (BERT backed)			
272	(110)	DBL WORD	8	RCTRGSTR(0)	Start of target info
272	(110)	CHARACTER	6	RCVOLID	EBCDIC VOLSER ID of target.
278	(116)	BITSTRING	2		Reserved
280	(118)	SIGNED	4	RCRMIGRC	Number of tracks required on target dataset to house TLBM.
284	(11C)	SIGNED	4	RCRTGTG	Number of TGs in target

Table 280. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
288	(120)	SIGNED	4	RCRTGSTT	Start TG reserved in target DAS TGM for pending migration - is one based. Valid for merge only.
292	(124)	SIGNED	4	RCRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
296	(128)	SIGNED	4	RCRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
300	(12C)	SIGNED	4	RCATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
304	(130)	SIGNED	4	RCRSBTAS	Relative track at which the track level bitmap starts on target volume
308	(134)	SIGNED	4	RCRTDAST	Target DASSTRK value
312	(138)	BITSTRING	1	RCRTGINF	Target dataset info
313	(139)	BITSTRING	2		Reserved
316	(13C)	SIGNED	4	RCRTGTRC	Tracks per cylinder
320	(140)	SIGNED	4	RCRTRECT	Records per track for target
324	(144)	BITSTRING	1	RCRTGFIX	One to ensure max BERT
328	(148)	DBL WORD	8	(0)	Align section
328	(148)	X'110'	0	RCTRGINF	"RCTRGSTR,*-RCTRGSTR" Target info segment in BERTs
End target DAS					
328	(148)	X'148'	0	MIGSIZ	"*-MIGROBJ" Size of migration object

Table 281. Cross Reference for $MIGROBJ

Name	Offset	Hex Tag
MIGDAS	0	
MIGKEY	D4	
MIGROBJ	0	
MIGSIZ	148	148
RCASSIST	DC	20
RCATGWRT	12C	
RCFULL	DC	80
RCGENINF	DC	
RCMIGDTE	E0	
RCMIGRAT	DC	40
RCRGMDN	E9	80
RCRHITG	F0	
RCRMIGRC	118	
RCRNUMRQ	FC	
RCRSBITR	F8	
RCRSBTAS	130	
RCRSRCST	EC	
RCRSRECT	100	
RCRSRFIX	108	
RCRSRINF	E8	

Table 281. Cross Reference for $MIGROBJ (continued)

Name	Offset	Hex Tag
RCRSRSTS	E9	
RCRSRTRC	104	
RCRSRTRK	F4	
RCRTDAST	134	
RCRTGENT	124	
RCRTGFIX	144	
RCRTGINF	138	
RCRTGSTT	120	
RCRTGTG	11C	
RCRTGTRC	13C	
RCRTGWRT	128	
RCRTRECT	140	
RCSRCINF	110	E8
RCSRCSTR	E8	
RCTRGINF	148	110
RCTRGSTR	110	
RCVOLID	110	40404040

$MIT information

$MIT heading information

Common name: Module Information Table

Macro ID: $MIT

DSECT name: MIT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'MIT '
Offset: MITID-MIT
Length: 4

Storage attributes: Subpool: The subpool of the load module involved
Key: The key of the load module involved
Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MITLNGTH equate and the MITLEN field.

Created by: A MIT is created by the assembly of a JES2 base, sample, or installation exit module, using the $MODULE macro to define the module setup.

Pointed to by: The MIT for a module is at the start of its CSECT. MITs for modules in JES2 multi-csect load modules are pointed to by the $MODMAP entries. MITs for modules in single-csect load modules, such as exits, are pointed to by the load module's $LMT control block.

Serialization: MITs should be considered read-only control blocks.

Function: The MITs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.
All JES2 modules must have a MIT at their front, and MTEs at the end.

$MIT mapping

Table 282. Structure MIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIT	HASP MODULE INFO TABLE DSECT
0	(0)	CHARACTER	4	MITID	MIT IDENTIFIER FIELD
4	(4)	CHARACTER	8	MITNAME	NAME OF MODULE
12	(C)	CHARACTER	8	MITVRSN	VERSION OF THIS JES2 RELEASE
20	(14)	CHARACTER	8	MITUVRSN	USER VERSION OF THIS JES2 REL
28	(1C)	CHARACTER	8	MITUSER	RESERVED FOR USER
36	(24)	ADDRESS	1	MITCBV	Control block version
36	(24)	X'1'	0	MITCBVE	"1" Control block version equ
37	(25)	CHARACTER	1	MITENVIR	Module assembly environment
37	(25)	X'D1'	0	MITENVJ	"C'J'" JES2 main task environment
37	(25)	X'E2'	0	MITENVS	"C'S'" JES2 subtask environment
37	(25)	X'E4'	0	MITENVU	"C'U'" all-addrspc USER environ
37	(25)	X'C6'	0	MITENVF	"C'F'" FSS addrspc environment
37	(25)	X'C9'	0	MITENVI	"C'I'" IPCS environment
37	(25)	X'D4'	0	MITENVM	"C'M'" JES2 monitor environment
37	(25)	X'E5'	0	MITENVV	"C'V'" Various environs in module
37	(25)	X'C4'	0	MITENVD	"C'D'" Documentation
38	(26)	ADDRESS	2	MITLEN	Length of this MIT
40	(28)	CHARACTER	1	MITMVRSN	VERSION OF THE MACLIBS USED TO ASSEMBLE THIS MODULE, FROM THE SPLEVEL MACRO
41	(29)	ADDRESS	1	MITFLAG1	MIT FLAG 1
		1...		MIT1OCO	"B'10000000'" O C O module
		.1..		MIT1BSPL	"B'01000000'" Bypass MVS SPLEVEL check during module load
		..1.		MIT1IBMB	"B'00100000'" Base module in the IBM JES2 product
		...1		MIT1IBMS	"B'00010000'" Sample module (e.g. exit) in the IBM JES2 product
		.... 1...		MIT1PTF	"B'00001000'" PTFNUM field exists
		.... .1..		MIT1NDYN	"B'00000100'" Module does not support dynamic operations
42	(2A)	ADDRESS	2		Reserved for future use
44	(2C)	CHARACTER	8	MITFMID	JES2 SMP product FMID
52	(34)	CHARACTER	8	MITDATE	DATE OF ASSEMBLY
60	(3C)	CHARACTER	5	MITTIME	TIME OF ASSEMBLY
65	(41)	ADDRESS	3	MITMODSZ	Length of assembly module (up through $MODEND)
68	(44)	ADDRESS	4	MITENTAD	ADDRESS OF MIT ENTRY TABLE
72	(48)	ADDRESS	4	MITXMAPA	Addr of 32 byte (256 bit) bit mask for exit points in this module
76	(4C)	ADDRESS	4	MITAPARN	Pointer to 8 byte APARNUM if it exists, else to this MIT's MITUVRSN field
80	(50)	DBL WORD	8	(0)	ENSURE MIT ENDS ON DOUBLEWORD
80	(50)	X'50'	0	MITLNGTH	"*-MIT" Length of a MIT

Table 283. Cross Reference for $MIT

Name	Offset	Hex Tag
MIT	0	
MITAPARN	4C	
MITCBV	24	
MITCBVE	24	1
MITDATE	34	
MITENTAD	44	
MITENVD	25	C4
MITENVF	25	C6
MITENVI	25	C9
MITENVIR	25	
MITENVJ	25	D1
MITENVM	25	D4
MITENVS	25	E2
MITENVU	25	E4
MITENVV	25	E5
MITFLAG1	29	
MITFMID	2C	
MITID	0	
MITLEN	26	
MITLNGTH	50	50
MITMODSZ	41	
MITMVRSN	28	
MITNAME	4	
MITTIME	3C	
MITUSER	1C	
MITUVRSN	14	
MITVRSN	C	
MITXMAPA	48	
MIT1BSPL	29	40
MIT1IBMB	29	20
MIT1IBMS	29	10
MIT1NDYN	29	4
MIT1OCO	29	80
MIT1PTF	29	8

$MITETBL information

$MITETBL heading information

Common name: Module Information Table Entries

Macro ID: $MITETBL

DSECT name: MTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$$$$MTES' (as the first MTE's MTENAME)
Offset: MTENAME of the first MTE - MTE
Length: 8

Storage attributes: Subpool: The subpool of the load module involved
Key: The key of the load module involved
Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MTELEN equate.

Created by: The MTEs for a module are created by the assembly of a JES2 base, sample, or installation exit module, using the $MODULE macro to define the module setup, the $ENTRY macro to define the entry points (MTEs), and $MODEND to perform the module epilog.

Pointed to by: The MTEs for a module are at the end of its CSECT. The MITENDAD field in the module's MIT at the front of module points to the first MTE.

Serialization: MTEs should be considered read-only control blocks.

Function: The MTEs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.
All JES2 modules must have a MIT at their front, and MTEs at the end.

$MITETBL mapping

Table 284. Structure MTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTE	HASP MIT ENTRY TABLE DSECT
0	(0)	CHARACTER	8	MTENAME	NAME FROM $ENTRY
8	(8)	ADDRESS	4	MTEADDR	Address of the entry point
12	(C)	BITSTRING	1	MTEFLAG1	Type of entry pt, multiple flags may be set, or none
		1...		MTEF1CAD	"B'10000000'" MTEADLOF is CADDR offset
		.1..		MTEF1COF	"B'01000000'" MTEADLOF is an OCOOFFST offset, and that field contains a CADDR offset
		..1.		MTEF1PAD	"B'00100000'" MTEADLOF is PADDR offset
		...1		MTEF1POF	"B'00010000'" MTEADLOF is an OCOOFFST offset, and that field contains a PADDR offset
		.... .1..		MTEF1CCT	"B'00000100'" MTEADLOF is CCT table pair offset
		.... ..1.		MTEF1MCT	"B'00000010'" MTEADLOF is MCT table pair offset
		1		MTEF1UCT	"B'00000001'" MTEADLOF is UCT table pair offset
13	(D)	CHARACTER	1	MTEENVIR	Assembly environment (see the MITENVIR equates)
14	(E)	BITSTRING	1	MTEFLAG2	More flags
		1...		MTEF2TAB	"B'10000000'" MTE represents a table
		.1..		MTEF2DUP	"B'01000000'" MTE is a duplicate entry
		..1.		MTEF2SSI	"B'00100000'" SSI entry point
		...1		MTEF2$EX	"B'00010000'" $EXIT pt #, not callable
15	(F)	BITSTRING	1		Reserved for future use

Table 284. Structure MTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	BITSTRING	2	MTEADLOF	Offset in CADDR, PADDR, or OCOOFFST, if any
18	(12)	BITSTRING	1	MTESSI$E	SSI # minus 1 if MTEF1SSI, or $EXIT pt # if MTEF1$EX
19	(13)	BITSTRING	1	MTETBTYP	Table type if MTEF1TAB is set - the type is also used by the $GETABLE and $PUTABLE services
19	(13)	X'0'	0	MTETPCE	"0" Table is $PCETAB
19	(13)	X'1'	0	MTETDCT	"1" Table is $DCTTAB
19	(13)	X'2'	0	MTETDTE	"2" Table is $DTETAB
19	(13)	X'3'	0	MTETTID	"3" Table is $TIDTAB
19	(13)	X'4'	0	MTETPCR	"4" Table is $PCTAB
19	(13)	X'5'	0	MTETBERT	"5" Table is $BERTTAB
19	(13)	X'6'	0	MTETWST	"6" Table is $WSTAB
19	(13)	X'7'	0	MTETSCAN	"7" Table is $SCANTAB
19	(13)	X'8'	0	MTETXCA	"8" Table is $XCATAB
19	(13)	X'9'	0	MTETJFA	"9" Table is $JFATAB
19	(13)	X'A'	0	MTETJVD	"10" Table is $JVDTAB
19	(13)	X'B'	0	MTETXOP	"11" Table is $XOPTAB
19	(13)	X'C'	0	MTETXVC	"12" Table is $XVCTAB
19	(13)	X'D'	0	MTETXFA	"13" Table is $XFATAB
19	(13)	X'E'	0	MTETXAT	"14" Table is $XACTTAB
19	(13)	X'E'	0	MTETMAX	"14" Highest defined tbl type
19	(13)	X'14'	0	MTELEN	"*-MTE" LENGTH OF ENTRY

Table 285. Cross Reference for $MITETBL

Name	Offset	Hex Tag
MTE	0	
MTEADDR	8	
MTEADLOF	10	
MTEENVIR	D	
MTEFLAG1	C	
MTEFLAG2	E	
MTEF1CAD	C	80
MTEF1CCT	C	4
MTEF1COF	C	40
MTEF1MCT	C	2
MTEF1PAD	C	20
MTEF1POF	C	10
MTEF1UCT	C	1
MTEF2$EX	E	10
MTEF2DUP	E	40
MTEF2SSI	E	20
MTEF2TAB	E	80
MTELEN	13	14
MTENAME	0	
MTESSI$E	12	

Table 285. Cross Reference for $MITETBL (continued)

Name	Offset	Hex Tag
MTETBERT	13	5
MTETBTYP	13	
MTETDCT	13	1
MTETDTE	13	2
MTETJFA	13	9
MTETJVD	13	A
MTETMAX	13	E
MTETPCE	13	0
MTETPCR	13	4
MTETSCAN	13	7
MTETTID	13	3
MTETWST	13	6
MTETXAT	13	E
MTETXCA	13	8
MTETXFA	13	D
MTETXOP	13	B
MTETXVC	13	C

$MLMWORK information

$MLMWORK programming interface information

$MLMWORK is a programming interface.

$MLMWORK heading information

Common name: Line manager PCE work area

Macro ID: $MLMWORK

DSECT name: PCE

Owning component: JES2 (SC1BH)

Eye-catcher ID: PCE
Offset: PCEEYE
Length: L'PCEEYE

Storage attributes: Subpool: 25
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.

Size: See MLMLEN

Created by: $PCEDYN service during JES2 initialization

Pointed to by: $MLLMPCE field of the $HCT data area

Serialization: JES2 main task

Function: The fields in this work area are used by the JES2 line manager processor. $MLMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $MLMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMLMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$MLMWORK mapping

Table 286. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP MULTI-LEAVING LINE MANAGER
328	(148)	DBL WORD	8	MLMCLOCK	LINE MANAGER LAST DISPATCH TIME
336	(150)	BITSTRING	12	MLMTQE	LINE MANAGER TIMER QUE ELEMENT
348	(15C)	ADDRESS	4	MLMDTIME	LINE MANAGER NEXT DISC LOOK TIME
352	(160)	ADDRESS	4	MLMATIME	LINE MANAGER NEXT AUTOLOGON SCAN TIME
356	(164)	ADDRESS	4	MLMQUES(0)	Start of MLM queues
356	(164)	ADDRESS	4	MLMBSCAL	LINE MANAGER ACTIVE BSC LINES PTR
360	(168)	ADDRESS	4	MLMSNALG	LINE MANAGER ACTIVE LOGON DCT PTR
364	(16C)	ADDRESS	4	MLMSNAAL	LINE MANAGER ACTIVE LINE DCT PTR
368	(170)	ADDRESS	4	MLMSNAIL	LINE MANAGER IDLE SNA LINES PTR
372	(174)	ADDRESS	4	MLMTCPAL	LINE MANAGER ACTIVE TCP LINES PTR
376	(178)	ADDRESS	4	MLMTCPIL	LINE MANAGER IDLE TCP LINES PTR
380	(17C)	ADDRESS	4	MLMTCPSV	LINE MANAGER ACTIVE SERVER DCT
384	(180)	ADDRESS	4	MLMTCPST	LINE MANAGER STARTING SERVER
388	(184)	ADDRESS	4	MLMLOGQ	LINE MANAGER LOGON DCT QUEUE
392	(188)	ADDRESS	4	MLMICEQ	LINE MANAGER SCHED ICE QUEUE
396	(18C)	ADDRESS	4	MLMRPLQ	Line mgr SNA/RPL buffer q
400	(190)	ADDRESS	4	MLMBSCQ	Line mgr BSC buffer queue
404	(194)	ADDRESS	4	MLMWORKQ	LINE MANAGER ACTIVE WORK QUEUE
408	(198)	ADDRESS	4	MLMASWLQ	Line mgr active SWEL queue
		Posted SWEL queues. These queues must be kept together.			
412	(19C)	ADDRESS	4	MLMPSWLQ(0)	Line mgr Posted SWEL Queues
412	(19C)	ADDRESS	4	MLMPSWLB	Line mgr BSC Posted SWEL Q
416	(1A0)	ADDRESS	4	MLMPSWLS	Line mgr SNA Posted SWEL Q
		MLMSCNI1, MLMSCNI2, and and MLMEVNTI represent actions to be performed on the NEXT scan of the line manager and must be kept together.			
420	(1A4)	BITSTRING	1	MLMSCNI1	LINE MANAGER DCT SCAN INDICATOR
		1...		MLMSBUNT	"B'10000000'" SCAN INACTIVE BSC LINE DCT
		.1..		MLMSBACT	"B'01000000'" SCAN ACTIVE BSC LINE DCTS
		..1.		MLMSSIDL	"B'00100000'" SCAN IDLE SNA LINE DCTS
		...1		MLMSSLOG	"B'00010000'" SCAN ACTIVE SNA LOGON DCTS
		.... 1...		MLMSSLNE	"B'00001000'" SCAN ACTIVE SNA LINE DCTS
		...1 1...		MLMSSALL	"B'00011000'" SCAN ACTIVE SNA LOGON/ LINE
		.... .1..		MLMSRAT	"B'00000100'" SCAN RAT
		.... ..1.		MLMSSUNT	"B'00000010'" SCAN INACTIVE SNA LINE/ LOGON DCTS
		1		MLMSSVFY	"B'00000001'" DO QUEUE VALIDATION
421	(1A5)	BITSTRING	1	MLMSCNI2	LINE MANAGER DCT SCAN INDICATOR

Table 286. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		MLMSTUNT	"B'10000000'" SCAN INACTIVE TCP LINE DCTS
		.1..		MLMSTIDL	"B'01000000'" SCAN IDLE TCP LINE DCTS
		..1.		MLMSTACT	"B'00100000'" SCAN ACTIVE TCP LINE DCTS
		...1		MLMSTSRV	"B'00010000'" SCAN ACTIVE TCP SERVER DCTS
422	(1A6)	BITSTRING	1	MLMEVNTI	LINE MANAGER GEN EVENT INDICATOR
		1...		MLMEPJOB	"B'10000000'" EVENT $JOT POST OCCURED
		.1..		MLMETIME	"B'01000000'" EVENT TIMER INTERRUPT OCCURED
		..1.		MLMEDISC	"B'00100000'" EVENT DISCON INTERVAL OCCURED
		...1		MLMEALM	"B'00010000'" A REMOTE IS IN AUTOLOGON MODE
		.... 1...		MLMEMXSS	"B'00001000'" MAXSESS HAS BEEN EXCEEDED
		.... .1..		MLMECKPT	"B'00000100'" CHECKPOINT POST OCCURED
MLMSCNR1, MLMSCNR2, and MLMEVNTR represent actions to be performed on the CURRENT scan of the line manager and must be kept together. The flag definitions are the same as for MLMSCNI1, MLMSCNI2, and MLMEVNTI.					
423	(1A7)	BITSTRING	1	MLMSCNR1	LINE MANAGER REQ SCAN INDICATOR
424	(1A8)	BITSTRING	1	MLMSCNR2	LINE MANAGER REQ SCAN INDICATOR
425	(1A9)	BITSTRING	1	MLMEVNTR	LINE MANAGER REQ EVENT INDICATOR
428	(1AC)	ADDRESS	4	MLMSCANA	LINE MANAGER SCAN TABLE ADDRESS
432	(1B0)	ADDRESS	4	MLMICEQ2	LINE MANAGER RE-SCHED ICE Q
436	(1B4)	ADDRESS	2	MLMSEQWK	BSC CPU SEQUENCE CHECK WORK AREA
438	(1B6)	ADDRESS	2	MLMFCSWL	FUNCTION CNTL SEQUENCE WORK AREA
440	(1B8)	ADDRESS	1	MLMCMDTP	BSC RJE CCW COMMAND TYPE
441	(1B9)	ADDRESS	1	MLMFLAG1	LINE MANAGER FLAGS
		1...		MLM1LOGI	"B'10000000'" RPL DIAGNOSTIC LOGGING INDICATOR
		.1..		MLM1WRK1	"B'01000000'" MULTI-PURPOSE WORK FLAG
		..1.		MLM1TIST	"B'00100000'" ONE SECOND INTERVAL TIMER SET
		...1		MLM1TIRQ	"B'00010000'" ONE SECOND TIMER REQUESTED
		.... 1...		MLM1PWIG	"B'00001000'" New password ignored msg
		.... .1..		MLM1LOJS	"B'00000100'" Logon decision by JES2
		.... ..1.		MLM1PNPM	"B'00000010'" MLLM should post NPM
		1		MLM1DERR	"B'00000001'" MLLM has checked for double-queued buffer
442	(1BA)	SIGNED	2	MLMICESQ	Current ICE trace seq numb
444	(1BC)	SIGNED	4	MLMWCNT1	MLM scan rtn work counter 1
448	(1C0)	SIGNED	4	MLMWCNT2	MLM scan rtn work counter 2
452	(1C4)	SIGNED	4	MLMXPARM(0)	EXIT POINT PARAMETER LIST
452	(1C4)	SIGNED	4	MLMXRAT	ADDRESS OF RAT TABLE OR ENTRY
456	(1C8)	SIGNED	4	MLMXLDCT	ADDRESS OF LINE DCT

Table 286. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
460	(1CC)	SIGNED	4	MLMXICE	ADDRESS OF ICE FOR SNA
464	(1D0)	SIGNED	4	MLMXCRDA	ADDRESS OF CARD IMAGE
468	(1D4)	SIGNED	4	MLMXCRDL	LENGTH OF CARD IMAGE
472	(1D8)	CHARACTER	80	MLMSONCD	SIGN-ON CARD INPUT AREA
552	(228)	CHARACTER	1	MLMLGWRK	Logon/Signon work space
552	(228)	X'234'	0	MLMLGNAM	"CAPENAM-CAPE+MLMLGWRK" Remote terminal name
552	(228)	X'23C'	0	MLMLGLPW	"CAPELPW-CAPE+MLMLGWRK" Line group password
552	(228)	X'244'	0	MLMLGRPW	"CAPERPW-CAPE+MLMLGWRK" Terminal Remote Pswd
552	(228)	X'24C'	0	MLMLGNPW	"CAPENPW-CAPE+MLMLGWRK" Terminal New Password
552	(228)	X'254'	0	MLMLGRMT	"CAPEUID-CAPE+MLMLGWRK" Short form rmt name
616	(268)	SIGNED	4	(0)	ALIGN TO FULLWORD
616	(268)	CHARACTER	136	MLMSODCT	BASIC DUMMY RMT DCT
752	(2F0)	ADDRESS	4	MLMWRKIQ	Line Mgr SNA/ICE work queue
756	(2F4)	SIGNED	4	MLMQTTIM	Time of buffer q truncation
760	(2F8)	BITSTRING	54	MLMTWORK	Work area for ICE trace
814	(32E)	BITSTRING	1	MLMRFP	Recovery footprint
815	(32F)	BITSTRING	1	MLMRFPX	Prior recovery footprint
816	(330)	BITSTRING	1	MLMRFPCT	Recovery retry count
817	(331)	BITSTRING	1	MLMRFFG1	Flag for MLLM scan rtn with its own recovery
		1...		MLMRF1AB	"B'10000000'" Recursion flag
	Save areas for use by line manager				
824	(338)	SIGNED	8	MLMSAVE1	Save area 1
832	(340)	SIGNED	8	MLMSAVE2	Save area 2
840	(348)	SIGNED	8	MLMSAVE3	Save area 3
848	(350)	SIGNED	8	MLMSAVE4	Save area 4
856	(358)	SIGNED	8	MLMSAVE5	Save area 5
856	(358)	X'218'	0	MLMLEN	"*-PCEWORK" LENGTH OF PCE WORK SPACE

Table 287. Cross Reference for $MLMWORK

Name	Offset	Hex Tag
MLMASWLQ	198	
MLMATIME	160	
MLMBSCAL	164	
MLMBSCQ	190	
MLMCLOCK	148	
MLMCMDTP	1B8	
MLMDTIME	15C	
MLMEALM	1A6	10
MLMECKPT	1A6	4
MLMEDISC	1A6	20
MLMEMXSS	1A6	8

Table 287. Cross Reference for $MLMWORK (continued)

Name	Offset	Hex Tag
MLMEPJOB	1A6	80
MLMETIME	1A6	40
MLMEVNTI	1A6	
MLMEVNTR	1A9	
MLMFCSWL	1B6	
MLMFLAG1	1B9	
MLMICEQ	188	
MLMICEQ2	1B0	
MLMICESQ	1BA	
MLMLEN	358	218
MLMLGLPW	228	23C
MLMLGNAM	228	234
MLMLGNPW	228	24C
MLMLGRMT	228	254
MLMLGRPW	228	244
MLMLGWRK	228	
MLMLOGQ	184	
MLMPSWLB	19C	
MLMPSWLQ	19C	
MLMPSWLS	1A0	
MLMQTTIM	2F4	
MLMQUES	164	
MLMRFFG1	331	
MLMRFP	32E	
MLMRFPCT	330	
MLMRFPX	32F	
MLMRF1AB	331	80
MLMRPLQ	18C	
MLMSAVE1	338	
MLMSAVE2	340	
MLMSAVE3	348	
MLMSAVE4	350	
MLMSAVE5	358	
MLMSBACT	1A4	40
MLMSBUNT	1A4	80
MLMSCANA	1AC	
MLMSCNI1	1A4	
MLMSCNI2	1A5	
MLMSCNR1	1A7	
MLMSCNR2	1A8	
MLMSEQWK	1B4	
MLMSNAAL	16C	
MLMSNAIL	170	
MLMSNALG	168	
MLMSODCT	268	
MLMSONCD	1D8	

Table 287. Cross Reference for $MLMWORK (continued)

Name	Offset	Hex Tag
MLMSRAT	1A4	4
MLMSSALL	1A4	18
MLMSSIDL	1A4	20
MLMSSLNE	1A4	8
MLMSSLOG	1A4	10
MLMSSUNT	1A4	2
MLMSSVFY	1A4	1
MLMSTACT	1A5	20
MLMSTIDL	1A5	40
MLMSTSRV	1A5	10
MLMSTUNT	1A5	80
MLMTCPAL	174	
MLMTCPIL	178	
MLMTCPST	180	
MLMTCPSV	17C	
MLMTQE	150	
MLMTWORK	2F8	
MLMWCNT1	1BC	
MLMWCNT2	1C0	
MLMWORKQ	194	
MLMWRKIQ	2F0	
MLMXCRDA	1D0	
MLMXCRDL	1D4	
MLMXICE	1CC	
MLMXLDCT	1C8	
MLMXPARM	1C4	
MLMXRAT	1C4	
MLM1DERR	1B9	1
MLM1LOGI	1B9	80
MLM1LOJS	1B9	4
MLM1PNPM	1B9	2
MLM1PWIG	1B9	8
MLM1TIRQ	1B9	10
MLM1TIST	1B9	20
MLM1WRK1	1B9	40
PCE	0	

$MODMAP information

$MODMAP heading information

Common name: Module map for HASJES20 and HASPINIT

Macro ID: $MODMAP

DSECT name: MAP

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: The subpool of the HASJES20 load module
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.

Size: See the MAPLEN equate.

Created by: The MODMAP is created by assembly of the HASPTABS module in the HASJES20 load module.

Pointed to by: The $HASPMAP field in the $HCT data area points to the MODMAP.

Serialization: The MODMAP should usually be considered as read-only. Exceptions to this are the times when the HASPINIT load module is loaded and deleted, and when the REP facility establishes a REP BASE.

Function: The MODMAP is used to provide a csect-granular map of the JES2 multi-csect load modules. The multi-csect load modules are HASJES20 and HASPINIT. All other JES2 modules, both for the IBM base JES2 product and for installation exits, are represented by LMT control blocks instead.
The MODMAP also contains entry point addresses for main-task processors and subtasks in the JES2 address space.

$MODMAP mapping

Table 288. Structure MAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MAP	HASP MODULE DIRECTORY DSECT
0	(0)	X'0'	0	MAPMOD1	"*" START OF MODMAP ENTRIES
0	(0)	CHARACTER	8	MAPABS	(not code, for REPs only)
16	(10)	CHARACTER	8	MAPARM	
32	(20)	CHARACTER	8	MAPARMO	
48	(30)	CHARACTER	8	MAPBSC	
64	(40)	CHARACTER	8	MAPCDYN	
80	(50)	CHARACTER	8	MAPCFAL	
96	(60)	CHARACTER	8	MAPCFBF	
112	(70)	CHARACTER	8	MAPCFDE	
128	(80)	CHARACTER	8	MAPCFE	
144	(90)	CHARACTER	8	MAPCFFC	
160	(A0)	CHARACTER	8	MAPCFLE	
176	(B0)	CHARACTER	8	MAPCFMT	
192	(C0)	CHARACTER	8	MAPCFQL	
208	(D0)	CHARACTER	8	MAPCFQU	
224	(E0)	CHARACTER	8	MAPCFRD	
240	(F0)	CHARACTER	8	MAPCFRE	
256	(100)	CHARACTER	8	MAPCFRL	
272	(110)	CHARACTER	8	MAPCFRS	
288	(120)	CHARACTER	8	MAPCFR2	
304	(130)	CHARACTER	8	MAPCFSI	
320	(140)	CHARACTER	8	MAPCFT1	
336	(150)	CHARACTER	8	MAPCFUN	
352	(160)	CHARACTER	8	MAPCFWP	
368	(170)	CHARACTER	8	MAPCFWR	
384	(180)	CHARACTER	8	MAPCKCF	

Table 288. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	CHARACTER	8	MAPCKDA	
416	(1A0)	CHARACTER	8	MAPCKDS	
432	(1B0)	CHARACTER	8	MAPCKPT	
448	(1C0)	CHARACTER	8	MAPCKRR	
464	(1D0)	CHARACTER	8	MAPCKVR	
480	(1E0)	CHARACTER	8	MAPCNVT	
496	(1F0)	CHARACTER	8	MAPCOMM	
512	(200)	CHARACTER	8	MAPCON	
528	(210)	CHARACTER	8	MAPCSV	
544	(220)	CHARACTER	8	MAPDYN	
560	(230)	CHARACTER	8	MAPEVTL	
576	(240)	CHARACTER	8	MAPEXTA	
592	(250)	CHARACTER	8	MAPFSSP	
608	(260)	CHARACTER	8	MAPHCCT	(not code, for REPs only)
624	(270)	CHARACTER	8	MAPHOPE	
640	(280)	CHARACTER	8	MAPIRA	
640	(280)	X'280'	0	MAPINIT	"MAPIRA,8,C'C'"
656	(290)	CHARACTER	8	MAPIRDA	
672	(2A0)	CHARACTER	8	MAPIRMA	
688	(2B0)	CHARACTER	8	MAPIRPL	
704	(2C0)	CHARACTER	8	MAPIRRE	
720	(2D0)	CHARACTER	8	MAPIRSI	
736	(2E0)	CHARACTER	8	MAPJOS	
752	(2F0)	CHARACTER	8	MAPJQS	
768	(300)	CHARACTER	8	MAPMISC	
784	(310)	CHARACTER	8	MAPMSG	
800	(320)	CHARACTER	8	MAPNATS	
816	(330)	CHARACTER	8	MAPNET	
832	(340)	CHARACTER	8	MAPNJT	
848	(350)	CHARACTER	8	MAPNPM	
864	(360)	CHARACTER	8	MAPNRM	
880	(370)	CHARACTER	8	MAPNSR	
896	(380)	CHARACTER	8	MAPNST	
912	(390)	CHARACTER	8	MAPNUC	
928	(3A0)	CHARACTER	8	MAPODSM	
944	(3B0)	CHARACTER	8	MAPPCY	
960	(3C0)	CHARACTER	8	MAPPRPU	
976	(3D0)	CHARACTER	8	MAPPSO	
992	(3E0)	CHARACTER	8	MAPRAS	
1008	(3F0)	CHARACTER	8	MAPRDR	
1024	(400)	CHARACTER	8	MAPRTAM	
1040	(410)	CHARACTER	8	MAPSASR	
1056	(420)	CHARACTER	8	MAPSERV	
1072	(430)	CHARACTER	8	MAPSIR	
1088	(440)	CHARACTER	8	MAPSJFR	

Table 288. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1104	(450)	CHARACTER	8	MAPSNA	
1120	(460)	CHARACTER	8	MAPSPIN	
1136	(470)	CHARACTER	8	MAPSPOL	
1152	(480)	CHARACTER	8	MAPSSRV	
1168	(490)	CHARACTER	8	MAPSTAB	
1184	(4A0)	CHARACTER	8	MAPSTAC	
1200	(4B0)	CHARACTER	8	MAPSTAM	
1216	(4C0)	CHARACTER	8	MAPSTUB	
1232	(4D0)	CHARACTER	8	MAPSUBS	
1248	(4E0)	CHARACTER	8	MAPSXDV	
1264	(4F0)	CHARACTER	8	MAPSXIT	
1280	(500)	CHARACTER	8	MAPSXJB	
1296	(510)	CHARACTER	8	MAPSXNJ	
1312	(520)	CHARACTER	8	MAPSXOT	
1328	(530)	CHARACTER	8	MAPTABS	
1344	(540)	CHARACTER	8	MAPTCP	
1360	(550)	CHARACTER	8	MAPTERM	
1376	(560)	CHARACTER	8	MAPTRAK	
1392	(570)	CHARACTER	8	MAPWARM	
1408	(580)	CHARACTER	8	MAPXCF	
1424	(590)	CHARACTER	8	MAPXEQ	
1424	(590)	X'5A'	0	MAP#J2M	"(*-MAPMOD1)/MAPENTL" NUMBER OF JES2 MODULES

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TABLE OF USER EXIT MODULES LINKED WITH HASJES20.
THESE ARE DEFINED AS WEAK EXTERNAL SYMBOLS BELOW.
THE TABLE INCLUDES THE SPECIAL ENTRY FOR HASPXIT0, WHICH
MAY BE LINKEDITED IN THE HASPINIT LOAD MODULE INSTEAD - IF
SO, HASPINIT UPDATES THIS MODMAP ENTRY AND THE REP FACILITY
WILL FUNCTION FOR THAT MODULE. THE HASPXIT0 STORAGE WILL
BE DELETED WITH HASPINIT IF LINKEDITED WITH HASPINIT, AND
WILL REMAIN IN STORAGE IF LINKEDITED WITH HASJES20 OR IF
LOADED IN ITS OWN LOAD MODULE BY HASPINIT.
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1440	(5A0)	CHARACTER	8	MAPJXMOD	
1456	(5B0)	CHARACTER	8		
1472	(5C0)	CHARACTER	8		
1488	(5D0)	CHARACTER	8		
1504	(5E0)	CHARACTER	8		
1520	(5F0)	CHARACTER	8		
1536	(600)	CHARACTER	8		
1552	(610)	CHARACTER	8		
1568	(620)	CHARACTER	8		
1584	(630)	CHARACTER	8		
1600	(640)	CHARACTER	8		
1616	(650)	CHARACTER	8		
1632	(660)	CHARACTER	8		
1648	(670)	CHARACTER	8		
1664	(680)	CHARACTER	8		
1680	(690)	CHARACTER	8		

Table 288. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1696	(6A0)	CHARACTER	8		
1712	(6B0)	CHARACTER	8		
1728	(6C0)	CHARACTER	8		
1744	(6D0)	CHARACTER	8		
1760	(6E0)	CHARACTER	8		
1776	(6F0)	CHARACTER	8		
1792	(700)	CHARACTER	8		
1808	(710)	CHARACTER	8		
1824	(720)	CHARACTER	8		
1840	(730)	CHARACTER	8		
1856	(740)	CHARACTER	8		
1872	(750)	CHARACTER	8		
1888	(760)	CHARACTER	8		
1904	(770)	CHARACTER	8		
1920	(780)	CHARACTER	8		
1936	(790)	CHARACTER	8		
1952	(7A0)	CHARACTER	8	MAPEXIT0	
1952	(7A0)	X'210'	0	MAPJXLEN	"*-MAPJXMOD" LENGTH OF LINKED MODULE TABLE
1952	(7A0)	X'21'	0	MAPJXCNT	"MAPJXLEN/MAPENTL" NUMBER OF INSTALLATION ENTRIES
1952	(7A0)	X'7B'	0	MAPMODS	"(*-MAPMOD1)/MAPENTL" NUMBER OF REP TABLE ENTRIES
1968	(7B0)	BITSTRING	8		ZERO ENTRY FOR $SCANTAB
	MISCELLANEOUS ENTRY POINT ADDRESSES FOR SUBTASKS, IOS ROUTINES, ETC.				
1984	(7C0)	ADDRESS	4	MAPACCTA	"V(HASPACCT)" ADDR OF HASPACCT SUBTASK
1988	(7C4)	ADDRESS	4	MAPSPLA	"V(HOSPOOL)" ADDR OF SPOOL ALLOCATION SUBTASK
1992	(7C8)	ADDRESS	4	MAPSPMG	"V(HOSPMIGR)" Addr of spool migration subtask rtn
1996	(7CC)	ADDRESS	4	MAPSPAST	"V(HOSPASST)" Addr of spool migration assist rtn
2000	(7D0)	ADDRESS	4	MAPWTOA	"V($HASPWTO)" ADDR OF HASP WTO SUBTASK
2004	(7D4)	ADDRESS	4	MAPIMAGA	"V(HASPIMAG)" ADDR OF IMAGE LOADER SUBTASK
2008	(7D8)	ADDRESS	4	MAPVTAMA	"V(HASPVTAM)" ADDR OF HASP VTAM INTERFACE
2012	(7DC)	ADDRESS	4	MAPALOCA	"V(HOSALLOC)" ADDR OF ALLOCATION TASK
2016	(7E0)	ADDRESS	4	MAPCNVA	"V(HOSCNVT)" ADDR OF CONVERT SUBTASK
2020	(7E4)	ADDRESS	4	MAPOFFA	"V(HASPOFF)" ADDR OF OFFLOAD SUBTASK
2024	(7E8)	ADDRESS	4	MAPCKCFA	"V(HA$PCKCF)" Addr of CKPT on CF subtask
2028	(7EC)	ADDRESS	4	MAPCKDAA	"V(HA$PCKDA)" Addr of CKPT on DASD subtsk
2032	(7F0)	ADDRESS	4	MAPCKVRA	"V(HA$PCKVR)" ADDR OF CKPT VERSN SUBTSK
2036	(7F4)	ADDRESS	4	MAPSUBSA	"V(HA$PSUBS)" ADDR OF GENL SUBTASK

Table 288. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2040	(7F8)	ADDRESS	4	MAPODSMX	"V(ODSMEXC)" ADDR OF SWBMOD PC ROUTINE
2044	(7FC)	ADDRESS	4	MAPODSMR	"V(ODSMEST)" ADDR OF SWBMOD PC ARR
2048	(800)	ADDRESS	4	MAPATTNA	"V(HASPATTN)" ADDR OF HASP ATTENTION ROUTINE
2052	(804)	ADDRESS	4	MAPPXITA	"V(HASPPXIT)" ADDR OF HASP POST EXIT ROUTINE
2056	(808)	ADDRESS	4	MAPIOAPG	"V($IOAPPEN)" ADDR OF I/O APPENDAGE TABLE
2060	(80C)	ADDRESS	4	MAPEMS	"V(HASPEOM)" Addr of EOM subtask
2064	(810)	ADDRESS	4	MAPLIMA	"V(HASPLIM)" Addr of LIMITS subtask
		TABLE OF HASP PROCESSOR ENTRY POINT ADDRESSES. THESE FIELDS ARE POINTED TO BY $PCETAB ENTRIES IN HASPTABS.			
2068	(814)	ADDRESS	4	MAPRDRA	"V(HA$PRDR)" READERNN PROCESSOR
2072	(818)	ADDRESS	4	MAPASYNA	"V($ASYNC)" ASYNCH I/O PROCESSOR
2076	(81C)	ADDRESS	4	MAPCNVTA	"V(HA$PCNVT)" JCL CONVERSION PROCESSOR
2080	(820)	ADDRESS	4	MAPEXECA	"V(HASPEXEC)" EXECUTION PROCESSOR
2084	(824)	ADDRESS	4	MAPSTACA	"V(HA$PSTAC)" STATUS/CANCEL PROCESSOR
2088	(828)	ADDRESS	4	MAPPSOA	"V(HA$PPSO)" PSO PROCESSOR
2092	(82C)	ADDRESS	4	MAPHOPEA	"V(HA$PHOPE)" OUTPUT PROCESSOR
2096	(830)	ADDRESS	4	MAPPRPUA	"V(HASPPPI1)" PRINT/PUNCH PROCESSOR
2100	(834)	ADDRESS	4	MAPPURGA	"V(HASPVPRG)" PURGE PROCESSOR
2104	(838)	ADDRESS	4	MAPCOMMA	"V(HA$PCOMM)" COMMAND PROCESSOR
2108	(83C)	ADDRESS	4	MAPMLLMA	"V(HASPMLLM)" LINE MANAGER PROCESSOR
2112	(840)	ADDRESS	4	MAPTIMEA	"V($TIMER)" STIMER PROCESSOR
2116	(844)	ADDRESS	4	MAPCKPTA	"V(HA$PCKPT)" CHECKPOINT PROCESSOR
2120	(848)	ADDRESS	4	MAPSPINA	"V(HA$PSPIN)" SPIN PROCESSOR
2124	(84C)	ADDRESS	4	MAPPRTYA	"V(HASPGPRC)" PRIORITY AGING PROCESSOR
2128	(850)	ADDRESS	4	MAPPRIOA	"V(HASPGOPR)" OUTPUT PRIO AGING PROCESSOR
2132	(854)	ADDRESS	4	MAPWARMA	"V(HA$PWARM)" WARM START PROCESSOR
2136	(858)	ADDRESS	4	MAPNJTA	"V(HA$PNJT)" JOB TRANSMITTER PROCESSOR
2140	(85C)	ADDRESS	4	MAPNJRA	"V(HA$PRDR)" JOB RECEIVER PROCESSOR
2144	(860)	ADDRESS	4	MAPNSTA	"V(HA$PNST)" SYSOUT TRANSMITTR PROCESSOR
2148	(864)	ADDRESS	4	MAPNSRA	"V(HA$PNSR)" SYSOUT RECEIVER PROCESSOR
2152	(868)	ADDRESS	4	MAPNPMA	"V(HASPNPMP)" NETWORK PATH MGR PROCESSOR
2156	(86C)	ADDRESS	4	MAPNRMA	"V(HA$PNRM)" Network Resource Monitor
2160	(870)	ADDRESS	4	MAPMCONA	"V(HASPMCON)" REMOTE CONSOLE PROCESSOR
2164	(874)	ADDRESS	4	MAPXTIMA	"V(HASPTIME)" TIME EXCESSION PROCESSOR
2168	(878)	ADDRESS	4	MAPEVTLA	"V(HA$PEVTL)" EVENT TRACE LOG PROCESSOR
2172	(87C)	ADDRESS	4	MAPXFRMA	"V(HASPXFRM)" XFR I/O MANAGER PROCESSOR

Table 288. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2176	(880)	ADDRESS	4	MAPSPOLA	"V(HA$PSPOL)" SPOOL MANAGER PROCESSOR
2180	(884)	ADDRESS	4	MAPNRRA	"V(HA$PRDR)" ROUTE RECEIVER PROCESSOR
2184	(888)	ADDRESS	4	MAPNRTA	"V(HA$PNJT)" ROUTE TRANSMITTER PROCESSOR
2188	(88C)	ADDRESS	4	MAPRESMA	"V(HASPRESM)" RESOURCE MANAGER PROCESSOR
2192	(890)	ADDRESS	4	MAPSFSRA	"V(HA$PSJFR)" SCHEDULER SERVICES PROCSR
2196	(894)	ADDRESS	4	MAPFSSPA	"V(HA$PFSSP)" FSS SERVICE PROCESSOR
2200	(898)	ADDRESS	4	MAPFCL	"V(FCLEANUP)" FSS CLEANUP ON EOM
2204	(89C)	ADDRESS	4	MAPJCMD	"V(COMJCMD)" Job command processor
2208	(8A0)	ADDRESS	4	MAPXCFA	"V(HA$PXCF)" XCF COUPLING PROCESSOR
2212	(8A4)	ADDRESS	4	MAPXCMA	"V(XCMMAIN)" XCF Command Processor
2216	(8A8)	ADDRESS	4	MAPARMSA	"V(HA$PARM)" ARM SUPPORT PROCESSOR
2220	(8AC)	ADDRESS	4	MAPSNF	"V(HA$PSNF)" SPOOL Management Processor
2224	(8B0)	ADDRESS	4	MAPSPI	"V(HA$PSASR)" Sysout API Processor
2228	(8B4)	ADDRESS	4	MAPDILSA	"V(HA$PDILB)" BERT lock POST Processor
2232	(8B8)	ADDRESS	4	MAPENFA	"V(HA$PENF)" ENF LISTEN Processor
2236	(8BC)	ADDRESS	4	MAPMISCA	"V(HA$PMISC)" Miscellaneous processor
2240	(8C0)	ADDRESS	4	MAPALIA	"V(HA$PALI)" Acquire Lock & Initiate Cleanup Executor
2244	(8C4)	ADDRESS	4	MAPEOM	"V(HA$PEOM)" EOM processor
2248	(8C8)	ADDRESS	4	MAPJQR	"V(HA$PJQR)" JQE request processor
2252	(8CC)	ADDRESS	4	MAPIRC	"V(HA$PIRC)" INTRDR cleanup processor
2256	(8D0)	ADDRESS	4	MAPDAWN	"V(HA$PDAWN)" DAWN processor
2260	(8D4)	ADDRESS	4	MAPCDCA	"V(HA$PCDC)" Cross-sys Device Communication
2264	(8D8)	ADDRESS	4	MAPDLSA	"V(HA$PDLS)" Deadline scheduling
2268	(8DC)	ADDRESS	4	MAPJOEI	"V(HA$PJOEI)" JOEINDEX processor
2272	(8E0)	ADDRESS	4	MAPEDSA	"V(HA$PEDS)" Email Delivery Services
2276	(8E4)	ADDRESS	4	MAPPCYA	"V(HA$PPCY)" Policy services
2276	(8E4)	X'8E8'	0	MAPLEN	"*-MAP" MODMAP LENGTH

Table 289. Cross Reference for $MODMAP

Name	Offset	Hex Tag
MAP	0	
MAP#J2M	590	5A
MAPABS	0	C8C1E25B
MAPACCTA	7C0	
MAPALIA	8C0	
MAPALOCA	7DC	
MAPARM	10	C8C1E2D7
MAPARMO	20	C8C1E2D7
MAPARMSA	8A8	
MAPASYNA	818	
MAPATTNA	800	

Table 289. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPBSC	30	C8C1E2D7
MAPCDCA	8D4	
MAPCDYN	40	C8C1E2D7
MAPCFAL	50	C8C1E2D7
MAPCFBF	60	C8C1E2D7
MAPCFDE	70	C8C1E2D7
MAPCFE	80	C8C1E2D7
MAPCFFC	90	C8C1E2D7
MAPCFLE	A0	C8C1E2D7
MAPCFMT	B0	C8C1E2D7
MAPCFQL	C0	C8C1E2D7
MAPCFQU	D0	C8C1E2D7
MAPCFRD	E0	C8C1E2D7
MAPCFRE	F0	C8C1E2D7
MAPCFRL	100	C8C1E2D7
MAPCFRS	110	C8C1E2D7
MAPCFR2	120	C8C1E2D7
MAPCFSI	130	C8C1E2D7
MAPCFT1	140	C8C1E2D7
MAPCFUN	150	C8C1E2D7
MAPCFWP	160	C8C1E2D7
MAPCFWR	170	C8C1E2D7
MAPCKCF	180	C8C1E2D7
MAPCKCFA	7E8	
MAPCKDA	190	C8C1E2D7
MAPCKDAA	7EC	
MAPCKDS	1A0	C8C1E2D7
MAPCKPT	1B0	C8C1E2D7
MAPCKPTA	844	
MAPCKRR	1C0	C8C1E2D7
MAPCKVR	1D0	C8C1E2D7
MAPCKVRA	7F0	
MAPCNVA	7E0	
MAPCNVT	1E0	C8C1E2D7
MAPCNVTA	81C	
MAPCOMM	1F0	C8C1E2D7
MAPCOMMA	838	
MAPCON	200	C8C1E2D7
MAPCSV	210	C8C1E2D7
MAPDAWN	8D0	
MAPDILSA	8B4	
MAPDLSA	8D8	
MAPDYN	220	C8C1E2D7
MAPEDSA	8E0	
MAPEMS	80C	
MAPENFA	8B8	

Table 289. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPEOM	8C4	
MAPEVTL	230	C8C1E2D7
MAPEVTLA	878	
MAPEXECA	820	
MAPEXIT0	7A0	C8C1E2D7
MAPEXTA	240	C8C1E2D7
MAPFCL	898	
MAPFSSP	250	C8C1E2D7
MAPFSSPA	894	
MAPHCCT	260	C8C1E25B
MAPHOPE	270	C8C1E2D7
MAPHOPEA	82C	
MAPIMAGA	7D4	
MAPINIT	280	280
MAPIOAPG	808	
MAPIRA	280	C8C1E2D7
MAPIRC	8CC	
MAPIRDA	290	C8C1E2D7
MAPIRMA	2A0	C8C1E2D7
MAPIRPL	2B0	C8C1E2D7
MAPIRRE	2C0	C8C1E2D7
MAPIRSI	2D0	C8C1E2D7
MAPJCMD	89C	
MAPJOEI	8DC	
MAPJOS	2E0	C8C1E2D7
MAPJQR	8C8	
MAPJQS	2F0	C8C1E2D7
MAPJXCNT	7A0	21
MAPJXLEN	7A0	210
MAPJXMOD	5A0	C8C1E2D7
MAPLEN	8E4	8E8
MAPLIMA	810	
MAPMCONA	870	
MAPMISC	300	C8C1E2D7
MAPMISCA	8BC	
MAPMLLMA	83C	
MAPMODS	7A0	7B
MAPMOD1	0	0
MAPMSG	310	C8C1E2D7
MAPNATS	320	C8C1E2D7
MAPNET	330	C8C1E2D7
MAPNJRA	85C	
MAPNJT	340	C8C1E2D7
MAPNJTA	858	
MAPNPM	350	C8C1E2D7
MAPNPMA	868	

Table 289. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPNRM	360	C8C1E2D7
MAPNRMA	86C	
MAPNRRA	884	
MAPNRTA	888	
MAPNSR	370	C8C1E2D7
MAPNSRA	864	
MAPNST	380	C8C1E2D7
MAPNSTA	860	
MAPNUC	390	C8C1E2D7
MAPODSM	3A0	C8C1E2D7
MAPODSMR	7FC	
MAPODSMX	7F8	
MAPOFFA	7E4	
MAPPCY	3B0	C8C1E2D7
MAPPCYA	8E4	
MAPPRIOA	850	
MAPPRPU	3C0	C8C1E2D7
MAPPRPUA	830	
MAPPRTYA	84C	
MAPPSO	3D0	C8C1E2D7
MAPPSOA	828	
MAPPURGA	834	
MAPPXITA	804	
MAPRAS	3E0	C8C1E2D7
MAPRDR	3F0	C8C1E2D7
MAPRDRA	814	
MAPRESMA	88C	
MAPRTAM	400	C8C1E2D7
MAPSASR	410	C8C1E2D7
MAPSERV	420	C8C1E2D7
MAPSFSRA	890	
MAPSIR	430	C8C1E2D7
MAPSJFR	440	C8C1E2D7
MAPSNA	450	C8C1E2D7
MAPSNF	8AC	
MAPSPAST	7CC	
MAPSPI	8B0	
MAPSPIN	460	C8C1E2D7
MAPSPINA	848	
MAPSPLA	7C4	
MAPSPMG	7C8	
MAPSPOL	470	C8C1E2D7
MAPSPOLA	880	
MAPSSRV	480	C8C1E2D7
MAPSTAB	490	C8C1E2D7
MAPSTAC	4A0	C8C1E2D7

Table 289. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPSTACA	824	
MAPSTAM	4B0	C8C1E2D7
MAPSTUB	4C0	C8C1E2D7
MAPSUBS	4D0	C8C1E2D7
MAPSUBSA	7F4	
MAPSXDV	4E0	C8C1E2D7
MAPSXIT	4F0	C8C1E2D7
MAPSXJB	500	C8C1E2D7
MAPSXNJ	510	C8C1E2D7
MAPSXOT	520	C8C1E2D7
MAPTABS	530	C8C1E2D7
MAPTCP	540	C8C1E2D7
MAPTERM	550	C8C1E2D7
MAPTIMEA	840	
MAPTRAK	560	C8C1E2D7
MAPVTAMA	7D8	
MAPWARM	570	C8C1E2D7
MAPWARMA	854	
MAPWTOA	7D0	
MAPXCF	580	C8C1E2D7
MAPXCFA	8A0	
MAPXCMA	8A4	
MAPXEQ	590	C8C1E2D7
MAPXFRMA	87C	
MAPXTIMA	874	

$MONCB information

$MONCB heading information

Common name: Monitor address space control block

Macro ID: $MONCB

DSECT name: MONCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: MONB
Offset: MNBID
Length: L'MNBID

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $MONCB resides in common storage.

Size: See MNBLEN

Created by: HASCSRJM

Pointed to by: CCTMONCB field of the HCCT data area
JMTMONCB field of the HJCT data area

Serialization: Only updated by HASCSRJM while running under the JES2 main task.

Function: This DSECT maps the CSA data associated with the JES2 monitor address address space. It is used during JES2 initialization and termination processing to create and later delete the monitor address space.

$MONCB mapping

Table 290. Structure MONCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MONCB	, Define DSECT
0	(0)	CHARACTER	4	MNBID	Eyecatcher
4	(4)	ADDRESS	1	MNBVER	Version
4	(4)	X'1'	0	MNBVERN	"1" Current version
5	(5)	BITSTRING	1	MNBFLAG1	Communication flag byte
		1...		MNB1NWLM	"B'10000000'" Create new LMD now
6	(6)	BITSTRING	1		Reserved for future use
7	(7)	CHARACTER	1	MNBCOMCH	CONCHAR for termination messages
8	(8)	CHARACTER	8	MNBNAME	Address space name
16	(10)	CHARACTER	8	MNBPROG	PROG= to run the address space
24	(18)	BITSTRING	8	MNBPRTKN	Token for CSVDYLPA DELETE request
32	(20)	BITSTRING	24	MNBODA	ASCRE output area (IHAASEO)
56	(38)	SIGNED	4	MNBECB	Main task wait ECB
60	(3C)	SIGNED	4	MNBWECB	Monitor work ECB
60	(3C)	X'4'	0	MNBWTERM	"4" Monitor TERM post code
60	(3C)	X'8'	0	MNBWJDWN	"8" JES2 address space went down
60	(3C)	X'C'	0	MNBWJUP	"12" JES2 address space came up
MACDATE 12/25/13					
64	(40)	ADDRESS	4	MNBPOST	. 1ST WORD - ECB ADDRESS
68	(44)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
72	(48)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
76	(4C)	SIGNED	4	MNBJES2A	Alet for JES2 address space
80	(50)	ADDRESS	4	MNBMLMAD	Address of monitor load module
84	(54)	SIGNED	4	MNBMLMLN	Length of monitor load module
88	(58)	ADDRESS	4	MNBMONEP	Entry addr for the monitor code
92	(5C)	ADDRESS	4	MNBHJCT	Address of HJCT in monitor A.S.
96	(60)	ADDRESS	4	MNBCMBQ	Queue of commands from SSI
100	(64)	SIGNED	4	MNBCECB	Command ECB address
104	(68)	ADDRESS	4	MNBMITS	MIT information for monitor
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	MNBLEN	"*-MONCB" Length of MONCB

Table 291. Structure MNMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MNMT	, Monitor MIT DSECT
0	(0)	CHARACTER	8	MNMTNAME	Module name
8	(8)	ADDRESS	4	MNMTADDR	Module address
12	(C)	ADDRESS	4	MNMTSIZE	Module length
16	(10)	CHARACTER	8	MNMTDATE	Date of assembly

Table 291. Structure MNMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	5	MNMTTIME	Time of assembly
29	(1D)	BITSTRING	3		Reserved
32	(20)	CHARACTER	8	MNMTAPAR	APAR number from module
40	(28)	CHARACTER	8	MNMTPTF	PTF number from module
40	(28)	X'30'	0	MNMTLEN	"*-MNMT" Length of area
40	(28)	X'A'	0	MNMTCNT	"10" Number of MNMTs to get

Table 292. Cross Reference for $MONCB

Name	Offset	Hex Tag
MNBCECB	64	
MNBCMBQ	60	
MNBCOMCH	7	
MNBECB	38	
MNBFLAG1	5	
MNBHJCT	5C	
MNBID	0	D4D6D5C2
MNBJES2A	4C	
MNBLEN	70	70
MNBMITS	68	
MNBMLMAD	50	
MNBMLMLN	54	
MNBMONEP	58	
MNBNAME	8	D1C5E2F2
MNBODA	20	
MNBPOST	40	
MNBPROG	10	C8C1E291
MNBPRTKN	18	
MNBVER	4	
MNBVERN	4	1
MNBWECB	3C	
MNBWJDWN	3C	8
MNBWJUP	3C	C
MNBWTERM	3C	4
MNB1NWLM	5	80
MNMT	0	
MNMTADDR	8	
MNMTAPAR	20	
MNMTCNT	28	A
MNMTDATE	10	
MNMTLEN	28	30
MNMTNAME	0	
MNMTPTF	28	
MNMTSIZE	C	
MNMTTIME	18	
MONCB	0	

$MSCWORK information

$MSCWORK heading information

Common name: JES2 Miscellaneous PCE Work Area

Macro ID: $MSCWORK

DSECT name: PCE ($MSCWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol MSCPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $MISCPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 miscellaneous Processor. $MSCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $MSCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMSCID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$MSCWORK mapping

Table 293. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	12	MSCTQE	Timer queue element
340	(154)	BITSTRING	1	MSCFLAG	Misc PCE work flags
		1...		MSCWANTQ	"B'10000000'" PCE needs access to the CKPT
		..1.		MSCBSEQE	"B'00100000'" Dynamic BERT queue sequence error $DISTERR issued
		...1		MSCJGLOG	"B'00010000'" Jobgroup log takeover already processed
341	(155)	BITSTRING	3		Reserved for future use
344	(158)	DBL WORD	8	MSCPADTM	Time stamp for PAD and Master JQE processing
352	(160)	DBL WORD	8	MSCMONTM	Time stamp monitor restart
360	(168)	DBL WORD	8	MSCCPLTM	Time stamp $CPOOL contract
	MACRO-DATE = 03/16/15				
368	(170)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
368	(170)	X'170'	0	MSCENQ	"*" X02113
368	(170)	ADDRESS	1		PELLAST flag byte. X02113
369	(171)	ADDRESS	1		PELMILEN - RNAME length.
370	(172)	BITSTRING	1		

Table 293. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
			PELFLAG - flag byte 2.		
371	(173)	ADDRESS	1		PELRET - return code byte.
372	(174)	ADDRESS	4		QNAME ADDRESS
376	(178)	ADDRESS	4		RNAME ADDRESS
376	(178)	X'170'	0	MSCENQL	"MSCENQ,*-MSCENQ" Field to reference ENQ MF=L
	MACDATE 12/25/13				
380	(17C)	ADDRESS	4	MSCPOST	. 1ST WORD - ECB ADDRESS
384	(180)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
388	(184)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
392	(188)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
400	(190)	DBL WORD	8	(0)	Alignment
400	(190)	X'48'	0	MSCPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 294. Cross Reference for $MSCWORK

Name	Offset	Hex Tag
MSCBSEQE	154	20
MSCCPLTM	168	
MSCENQ	170	170
MSCENQL	178	170
MSCFLAG	154	
MSCJGLOG	154	10
MSCMONTM	160	
MSCPADTM	158	
MSCPCEWL	190	48
MSCPOST	17C	
MSCTQE	148	
MSCWANTQ	154	80
PCE	0	

$MSD information

$MSD heading information

Common name: Monitor Sampling data

Macro ID: $MSD

DSECT name: MSD

Owning component: JES2 (SC1BH)

Eye-catcher ID: MSD
Offset: MSDID-MSD
Length: L'MSDID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual is in 31 bit storage, real can be in 64 bit storage.

Size: See MSDLEN

Created by:	HASJSPLR
Pointed to by:	JMTMSD field of the HJCT data area
Serialization:	None
Function:	The MSD maps the sampling data collected by the JES2 monitor subtask.

$MSD mapping

Table 295. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Monitor Sampling Data DSECT
0	(0)	CHARACTER	4	MSDID	Eyecatcher
4	(4)	ADDRESS	1	MSDVRSN	Version of data area
4	(4)	X'1'	0	MSDVERSN	"1" Current version number
5	(5)	BITSTRING	3		Reserved
	Limit monitoring data				
8	(8)		1	MSDLTIME	Time of next sample (STCKE)
24	(18)	DBL WORD	8	MSDLINT	Interval to sample (STCK)
32	(20)	ADDRESS	8	MSDLMDP	Address of most recent LMD
40	(28)	ADDRESS	8	MSDLMDLS	Address of oldest LMD
48	(30)	SIGNED	4	MSDLMDCT	Count of LMDs
	Main task sampling data				
56	(38)		1	MSDCTIME	Time of last sample (STCKE)
72	(48)	DBL WORD	8	MSDCINT	Interval to sample (STCKE)
72	(48)	X'14'	0	MSDCSPSC	"20" 20 samples per second
72	(48)	X'C350'	0	MSDCSPMC	"1000000/MSDCSPSC" Micro seconds per sample
	"Sampling time" is the time relative to the sampling process. This is maintained using 2 fields. MSDCSCNT is incremented every sample. When MSDCSCNT reaches the number of samples per second, MSDCSTIM is incremented.				
80	(50)	SIGNED	4	MSDCSTIM	"Sampling" time - seconds
84	(54)	SIGNED	4	MSDCSCNT	"Sampling" time - samples
88	(58)	ADDRESS	4	MSDCBUFS	Address of CPU sample buffer start
92	(5C)	ADDRESS	4	MSDCBUFE	Address of CPU sample buffer end(+1)
96	(60)	ADDRESS	4	MSDCBUFC	Current (last used) CPU sample rec
100	(64)	ADDRESS	4	MSDCBUFA	Alternate sampling buffer

Table 296. Structure MSDCSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDCSD	, Limit monitoring data
0	(0)	BITSTRING	16	MSDCSD_TIME	Time sample taken
16	(10)	SIGNED	4	MSDCSD_ADDR	PSW addr (Main task PRB)
20	(14)	SIGNED	4	MSDCSD_CRB_ADR	PSW addr (Current RB)
24	(18)	CHARACTER	8	MSDCSD_MOD	Module name and offset
32	(20)	SIGNED	4	MSDCSD_OFFSET	(calculated at report time)

Table 296. Structure MSDCSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	MSDCSD_PCE	Current PCE address
40	(28)	CHARACTER	8	MSDCSD_JOB	JOBID or JQE index
48	(30)	BITSTRING	1	MSDCSD_EXIT	Current exit number
49	(31)	BITSTRING	1	MSDCSD_TYPE	Sample type
49	(31)	X'1'	0	MSDCSD_TY_WAIT	"1" At main task WAIT
49	(31)	X'2'	0	MSDCSD_TY_WTOT	"2" Other MVS WAIT
49	(31)	X'3'	0	MSDCSD_TY_WLOK	"3" Waiting for local lock
49	(31)	X'4'	0	MSDCSD_TY_WNDS	"4" Not dispatchable
49	(31)	X'5'	0	MSDCSD_TY_WPGE	"5" Paging wait
49	(31)	X'6'	0	MSDCSD_TY_DMVS	"6" MVS dispatch
50	(32)	BITSTRING	2	MSDCSD_SVC	JES2 PRB interrupt code
52	(34)	ADDRESS	4	MSDCSD_TRAN	RBRTRAN of current RB
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	MSDCSD_LEN	"*-MSDCSD" Length of entry
56	(38)	BITSTRING	0	MSDCSD_COUNT	"X'5000'" Number of CPU samples to collect

Table 297. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD
		Loop detection fields. The longer we are in a potential loop, the higher MSDCLCNT will get.			
104	(68)	DBL WORD	8	MSDCLTOT	Average sum
112	(70)	SIGNED	4	MSDCLCNT	Address count
116	(74)	ADDRESS	4	MSDCLAVG	Average CPU address
120	(78)		1	MSDCLTIM	Loop start time (STCKE)
120	(78)	X'68'	0	MSDCLOPD	"MSDCLTOT,*-MSDCLTOT" Aggregate loop det fields
		Pointer to copy of JES2 error counts. Copied from JES2 each time a new LMD is obtained.			
136	(88)	ADDRESS	4	MSDECOPA	Address of error counts
140	(8C)	BITSTRING	4		Reserved

Table 298. Structure MSDERELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDERELE	, Mapping of an error element
0	(0)	SIGNED	4	MSDERCNT	Count of errors
0	(0)	X'4'	0	MSDER_LN	"*-MSDERELE" Length of entry

Table 299. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD

Table 299. Structure MSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Wait timing fields. The longer we are at a wait the higher MSDWSMPL will get. The type of wait is in MSDETYPE.			
144	(90)		1	MSDWSTCK	Time event started (STCKE)
160	(A0)	ADDRESS	4	MSDWADDR	Address of wait (from RB)
164	(A4)	SIGNED	4	MSDWSMPL	Samples at current wait
164	(A4)	X'90'	0	MSDWDETD	"MSDWSTCK,*-MSDWSTCK" Aggregate wait det fields
168	(A8)		1	MSDLPCED	Last PCE dispatch time
184	(B8)	BITSTRING	8	MSDLPNAM	Last PCE dispatch name
192	(C0)	BITSTRING	1	MSDLPCID	Last PCE dispatch ID
		Most recent sample type. See MSDCSD_TYPE for values			
193	(C1)	BITSTRING	1	MSDETYPE	Sample type
194	(C2)	BITSTRING	6		Reserved
		CPU starvation fields. If the main task is not being dispatched, these fields will indicate it.			
200	(C8)	DBL WORD	8	MSDCSTTM	Last updated TCBTTIME
208	(D0)	BITSTRING	16	MSDCSCLK	STCK time when MSDCSTTM set
224	(E0)	DBL WORD	8	(0)	
224	(E0)	X'E0'	0	MSDLEN	"*-MSD" Length of MSD

Table 300. Structure LMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMD	, Limit control block
0	(0)	CHARACTER	4	LMDID	Eyecatcher
4	(4)	SIGNED	4	LMDCNT	Count of samples included
8	(8)	ADDRESS	8	LMDNEXT	Address of next LMD
16	(10)	ADDRESS	8	LMDPREV	Address of previous LMD
24	(18)		1	LMDSTCK	Time LMD was created
40	(28)		1	LMDSTCKE	and stopped being updated
56	(38)		1	LMDSTIME	Local time LMD created
72	(48)		1	LMDETIME	and stopped being updated
88	(58)	SIGNED	4		Reserved
		Timer exit overhead data			
92	(5C)	SIGNED	4	LMDXCMT	Exit sample count
96	(60)	DBL WORD	8	LMDXCPUL	Low exit CPU time
104	(68)	DBL WORD	8	LMDXCPUH	High exit CPU time
112	(70)	DBL WORD	8	LMDXCPUT	Total exit CPU time
120	(78)	DBL WORD	8	LMDXTIML	Low exit clock time
128	(80)	DBL WORD	8	LMDXTIMH	High exit clock time
136	(88)	DBL WORD	8	LMDXTIMT	Total exit clock time

Table 300. Structure LMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	Resource usage data				
144	(90)	DBL WORD	8	LMD_1ST(0)	Start of limit data
144	(90)	BITSTRING	120	LMD_BERT	Limit data for BERT
264	(108)	BITSTRING	120	LMD_BSCB	Limit data for BSCB
384	(180)	BITSTRING	120	LMD_BUFX	Limit data for BUFX
504	(1F8)	BITSTRING	120	LMD_CKVR	Limit data for CKVR
624	(270)	BITSTRING	120	LMD_CMBS	Limit data for CMBS
744	(2E8)	BITSTRING	120	LMD_CMDS	Limit data for CMDS
864	(360)	BITSTRING	120	LMD_ICES	Limit data for ICES
984	(3D8)	BITSTRING	120	LMD_JNUM	Limit data for JNUM
1104	(450)	BITSTRING	120	LMD_JOES	Limit data for JOES
1224	(4C8)	BITSTRING	120	LMD_JQES	Limit data for JQES
1344	(540)	BITSTRING	120	LMD_LBUF	Limit data for LBUF
1464	(5B8)	BITSTRING	120	LMD_NHBS	Limit data for NHBS
1584	(630)	BITSTRING	120	LMD_SMFB	Limit data for SMFB
1704	(6A8)	BITSTRING	120	LMD_TBUF	Limit data for TBUF
1824	(720)	BITSTRING	120	LMD_TGS	Limit data for TGS
1944	(798)	BITSTRING	120	LMD_TTAB	Limit data for TTAB
2064	(810)	BITSTRING	120	LMD_VTMB	Limit data for VTMB
2184	(888)	BITSTRING	1	LMD_ZJC	Limit data for ZJC
2184	(888)	X'12'	0	LMD_NUM	"(*-LMD_1ST)/LMDELE_LEN" Number of elements
	LMD_NUM is hard coded is $SMF to be 18				
2304	(900)	ADDRESS	2	(0)	Ensure that $SMF
2304	(900)	ADDRESS	2	(0)	matches value here
	CPU sampling information				
2304	(900)	SIGNED	4	LMDCSAMP	Count of CPU samples
2308	(904)	SIGNED	4	LMDCS_ACT	Active sample count
2312	(908)	SIGNED	4	LMDCS_DMVS	Waiting to be dispatched
2316	(90C)	SIGNED	4	LMDCS_IDLE	Idle sample count
2320	(910)	SIGNED	4	LMDCS_WAIT	Wait sample count
2324	(914)	SIGNED	4	LMDCS_LLOK	Local lock sample count
2328	(918)	SIGNED	4	LMDCS_NDSP	Non-dispatchable count
2332	(91C)	SIGNED	4	LMDCS_PAGE	Page wait sample count
	Storage monitoring information				
2336	(920)	SIGNED	4	LMDSSAMP	Count of storage samples
2344	(928)	DBL WORD	8	LMDSRGN	<16M region size
2352	(930)	DBL WORD	8	LMDSERGN	>16M region size
2360	(938)	DBL WORD	8	LMDSMEML	>2G Mem limit
2368	(940)	DBL WORD	8	LMDSS_1ST(0)	Start of memory list
2368	(940)	BITSTRING	72	LMDSS_URGN	<16M user region info
2440	(988)	BITSTRING	72	LMDSS_SRGN	<16M system region info

Table 300. Structure LMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2512	(9D0)	BITSTRING	72	LMDSS_EURGN	>16M user region info
2584	(A18)	BITSTRING	72	LMDSS_ESRGN	>16M system region info
2656	(A60)	BITSTRING	1	LMDSS_HIRGN	>2G region
2656	(A60)	X'5'	0	LMDSSNUM	"(*-LMDSS_URGN)/LMDSSE_LEN" Number of entries
	LMDSSNUM is hard coded is $SMF to be 5				
2728	(AA8)	ADDRESS	2	(0)	Ensure that $SMF
2728	(AA8)	ADDRESS	2	(0)	matches value here
	Error count information				
2728	(AA8)	SIGNED	4	LMDES_ENT	Number of entries
2732	(AAC)	SIGNED	4	LMDES_FST(0)	Start of error data
2732	(AAC)	X'AAC'	0	LMD_SIZE	"*-LMD" Size of fixed portion LMD
2732	(AAC)	X'C3C'	0	LMD_AREA	"LMD_SIZE+($RSVNUM*LMDESELE_LEN)" W error data

Table 301. Structure LMDESELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDESELE	, Error information element
0	(0)	CHARACTER	8	LMDESELE_NAME	Error name
8	(8)	SIGNED	4	LMDESELE_COUNT	Current error count
12	(C)	ADDRESS	1	LMDESELE_CATGR	Error category
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	(0)	Align
16	(10)	X'10'	0	LMDESELE_LEN	"*-LMDESELE" Length of one entry

Table 302. Structure LMDELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDELE	, Limit monitoring data
0	(0)	CHARACTER	8	LMDELE_NAME	Resource name
8	(8)	CHARACTER	20	LMDELE_DESC	Descriptive resource name
28	(1C)	CHARACTER	16	LMDELE_STMT	Resource limit statement
44	(2C)	CHARACTER	20	LMDELE_KEYW	and keyword
64	(40)	SIGNED	4	LMDELE_LIMIT	Current upper limit
68	(44)	SIGNED	4	LMDELE_INUSE	Current number in use
72	(48)	SIGNED	4	LMDELE_LOW	Low usage value
76	(4C)	SIGNED	4	LMDELE_HIGH	High usage value
80	(50)	SIGNED	2	LMDELE_WARN	WARN= value for resource (zero if none)
82	(52)	BITSTRING	1	LMDELE_FLG1	Flag bytes
		1...		LMDELE_F1OVER	"B'10000000'" Usage over warn level
		.1..		LMDELE_F1JPLX	"B'01000000'" JESPlex wide resource
83	(53)	SIGNED	1		Reserved
84	(54)	SIGNED	4	LMDELE_OVER	Count of samples over warn level (HASP050 needed)

Table 302. Structure LMDELE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	SIGNED	4	LMDELE_AVERAGE	Average in use value
96	(60)	DBL WORD	8	LMDELE_TOTAL	Total count (for average)
104	(68)		1	LMDELE_OVRTIME	Time LMDELE was 1st over
120	(78)	DBL WORD	8	(0)	Align
120	(78)	X'78'	0	LMDELE_LEN	"*-LMDELE" Length of monitor data

Table 303. Structure LMDSSE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDSSE	, Memory usage data entry
0	(0)	CHARACTER	12	LMDSSE_NAME	Area name
16	(10)	DBL WORD	8	LMDSSE_REGION	Region size
24	(18)	DBL WORD	8	LMDSSE_USE	Current area usage
32	(20)	DBL WORD	8	LMDSSE_LOW	Low usage value
40	(28)	DBL WORD	8	LMDSSE_HIGH	High usage value
48	(30)	DBL WORD	8	LMDSSE_AVERAGE	Average in use value
56	(38)		1	LMDSSE_TOTAL	Total count (for average)
72	(48)	DBL WORD	8	(0)	Align
72	(48)	X'48'	0	LMDSSE_LEN	"*-LMDSSE" Length of memory data

Table 304. Structure MWT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWT	, MVS wait records
0	(0)	BITSTRING	16	MWTSTCK	Time of most recent sample
16	(10)	ADDRESS	4	MWTADDR	Address of wait (from RB)
20	(14)	SIGNED	4	MWTWCNT	Count of waits detected
24	(18)	CHARACTER	8	MWTNAME	Module name from wait
32	(20)	SIGNED	4	MWTOFFS	Offset of wait in module
36	(24)	SIGNED	4	MWTSCNT	Count of matching samples
		MWTEXIT is exit number in control at the time of the wait if MWTFXITC is set. If multiple exits, then MWTEXIT is zero. MWTPCEID is PCE ID that was in control. MWTPCEID is zero if multiple.			
40	(28)	BITSTRING	1	MWTEXIT	Exit for wait (if MWTFXITC on)
41	(29)	BITSTRING	1	MWTPCEID	PCE ID for wait
42	(2A)	BITSTRING	1	MWTFLAGS	General flag byte
		1...		MWTFXITC	"B'10000000'" Wait while exit in control
		.1..		MWTFJESC	"B'01000000'" Wait while JES2 in control
		..1.		MWTFINIT	"B'00100000'" Wait during intialization
		...1		MWTFTERM	"B'00010000'" Wait during ABEND/TERM
43	(2B)	BITSTRING	1		Reserved
44	(2C)	CHARACTER	8	MWTPCENM	Name of PCE (or MULTIPLE)
52	(34)	SIGNED	4	(3)	Reserved
52	(34)	X'40'	0	MWTLEN	"*-MWT" Length of wait mapping

Table 304. Structure MWT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	MWTSIZE	"X'3000'" Size of wait mapping area

Table 305. Structure MWTHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWTHDR	, MVS wait record header
0	(0)	CHARACTER	4	MWTHID	Eyecatcher
4	(4)	ADDRESS	4	MWTHCUR	Current MWT
8	(8)	BITSTRING	16	MWTHLTIM	Candidate reuse time
24	(18)	ADDRESS	4	MWTHLADR	and address
28	(1C)	SIGNED	4	(3)	Reserved
28	(1C)	X'28'	0	MWTHLEN	"*-MWTHDR" Header length

Table 306. Structure PRBM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRBM	, Probe message work area
0	(0)	CHARACTER	4	PRBMID	Eyecatcher
4	(4)	ADDRESS	4	PRBMNEXT	Next PRBM for this type
8	(8)	BITSTRING	16	PRBMSTRT	Time condition started
24	(18)	BITSTRING	16	PRBMSTCK	Last time message issued
40	(28)	SIGNED	4	PRBMSPLC	Sampler "time" of track
44	(2C)	SIGNED	4	PRBMDATA	Probe related data
48	(30)	BITSTRING	1	PRBMFLAG	Flags used by Probes
		1...		PRBMFVAL	"B'10000000'" PRBM has been validated
		.1..		PRBMUDUR	"B'01000000'" Update duration in line 2
		..1.		PRBMUSTA	"B'00100000'" Update PCE/EXIT/JOB
		...1		PRBMUCMD	"B'00010000'" Update current command
		.... 1...		PRBMNAGR	"B'00001000'" Normal interval for alert
		.... .1..		PRBMNAGO	"B'00000100'" Slow interval for alerts
		.... ..1.		PRBMFPCE	"B'00000010'" Fixed PCE address
52	(34)	SIGNED	4	PRBMDOM	DOM id for message (0 if pending)
56	(38)	ADDRESS	2	PRBMTXL1	Line 1 message length
58	(3A)	CHARACTER	71	PRBMTXT1	and message text
58	(3A)	X'3F'	0	PRBMMID	"PRBMTXT1+5,4,C'C'" Message id from text
130	(82)	ADDRESS	2	PRBMTXL2	Line 2 message length
132	(84)	CHARACTER	71	PRBMTXT2	and message text
204	(CC)	ADDRESS	2	PRBMTXL3	Line 3 message length
206	(CE)	CHARACTER	71	PRBMTXT3	and message text
278	(116)	ADDRESS	2	PRBMTXL4	Line 4 message length
280	(118)	CHARACTER	71	PRBMTXT4	and message text
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'160'	0	PRBMLEN	"*-PRBM" Length of message area

Table 307. Cross Reference for $MSD

Name	Offset	Hex Tag
LMD	0	
LMD_AREA	AAC	C3C
LMD_BERT	90	
LMD_BSCB	108	
LMD_BUFX	180	
LMD_CKVR	1F8	
LMD_CMBS	270	
LMD_CMDS	2E8	
LMD_ICES	360	
LMD_JNUM	3D8	
LMD_JOES	450	
LMD_JQES	4C8	
LMD_LBUF	540	
LMD_NHBS	5B8	
LMD_NUM	888	12
LMD_SIZE	AAC	AAC
LMD_SMFB	630	
LMD_TBUF	6A8	
LMD_TGS	720	
LMD_TTAB	798	
LMD_VTMB	810	
LMD_ZJC	888	
LMD_1ST	90	
LMDCNT	4	
LMDCS_ACT	904	
LMDCS_DMVS	908	
LMDCS_IDLE	90C	
LMDCS_LLOK	914	
LMDCS_NDSP	918	
LMDCS_PAGE	91C	
LMDCS_WAIT	910	
LMDCSAMP	900	
LMDELE	0	
LMDELE_AVERAGE	58	
LMDELE_DESC	8	
LMDELE_FLG1	52	
LMDELE_F1JPLX	52	40
LMDELE_F1OVER	52	80
LMDELE_HIGH	4C	
LMDELE_INUSE	44	
LMDELE_KEYW	2C	
LMDELE_LEN	78	78
LMDELE_LIMIT	40	
LMDELE_LOW	48	
LMDELE_NAME	0	
LMDELE_OVER	54	

Table 307. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
LMDELE_OVRTIME	68	
LMDELE_STMT	1C	
LMDELE_TOTAL	60	
LMDELE_WARN	50	
LMDES_ENT	AA8	
LMDES_FST	AAC	
LMDESELE	0	
LMDESELE_CATGR	C	
LMDESELE_COUNT	8	
LMDESELE_LEN	10	10
LMDESELE_NAME	0	
LMDETIME	48	
LMDID	0	D3D4C440
LMDNEXT	8	
LMDPREV	10	
LMDSERGN	930	
LMDSMEML	938	
LMDSRGN	928	
LMDSS_ESRGN	A18	
LMDSS_EURGN	9D0	
LMDSS_HIRGN	A60	
LMDSS_SRGN	988	
LMDSS_URGN	940	
LMDSS_1ST	940	
LMDSSAMP	920	
LMDSSE	0	
LMDSSE_AVERAGE	30	
LMDSSE_HIGH	28	
LMDSSE_LEN	48	48
LMDSSE_LOW	20	
LMDSSE_NAME	0	
LMDSSE_REGION	10	
LMDSSE_TOTAL	38	
LMDSSE_USE	18	
LMDSSNUM	A60	5
LMDSTCK	18	
LMDSTCKE	28	
LMDSTIME	38	
LMDXCMT	5C	
LMDXCPUH	68	
LMDXCPUL	60	
LMDXCPUT	70	
LMDXTIMH	80	
LMDXTIML	78	
LMDXTIMT	88	
MSD	0	

Table 307. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
MSD	0	
MSD	0	
MSDCBUFA	64	
MSDCBUFC	60	
MSDCBUFE	5C	
MSDCBUFS	58	
MSDCINT	48	
MSDCLAVG	74	
MSDCLCNT	70	
MSDCLOPD	78	68
MSDCLTIM	78	
MSDCLTOT	68	
MSDCSCLK	D0	
MSDCSCNT	54	
MSDCSD	0	
MSDCSD_ADDR	10	
MSDCSD_COUNT	38	5000
MSDCSD_CRB_ADR	14	
MSDCSD_EXIT	30	
MSDCSD_JOB	28	
MSDCSD_LEN	38	38
MSDCSD_MOD	18	
MSDCSD_OFFSET	20	
MSDCSD_PCE	24	
MSDCSD_SVC	32	
MSDCSD_TIME	0	
MSDCSD_TRAN	34	
MSDCSD_TY_DMVS	31	6
MSDCSD_TY_WAIT	31	1
MSDCSD_TY_WLOK	31	3
MSDCSD_TY_WNDS	31	4
MSDCSD_TY_WPGE	31	5
MSDCSD_TY_WTOT	31	2
MSDCSD_TYPE	31	
MSDCSPMC	48	C350
MSDCSPSC	48	14
MSDCSTIM	50	
MSDCSTTM	C8	
MSDCTIME	38	
MSDECOPA	88	
MSDER_LN	0	4
MSDERCNT	0	
MSDERELE	0	
MSDETYPE	C1	
MSDID	0	D4E2C440
MSDLEN	E0	E0

Table 307. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
MSDLINT	18	
MSDLMDCT	30	
MSDLMDLS	28	
MSDLMDP	20	
MSDLPCED	A8	
MSDLPCID	C0	
MSDLPNAM	B8	
MSDLTIME	8	
MSDVERSN	4	1
MSDVRSN	4	
MSDWADDR	A0	
MSDWDETD	A4	90
MSDWSMPL	A4	
MSDWSTCK	90	
MWT	0	
MWTADDR	10	
MWTEXIT	28	
MWTFINIT	2A	20
MWTFJESC	2A	40
MWTFLAGS	2A	
MWTFTERM	2A	10
MWTFXITC	2A	80
MWTHCUR	4	
MWTHDR	0	
MWTHID	0	D4E6E340
MWTHLADR	18	
MWTHLEN	1C	28
MWTHLTIM	8	
MWTLEN	34	40
MWTNAME	18	
MWTOFFS	20	
MWTPCEID	29	
MWTPCENM	2C	
MWTSCNT	24	
MWTSIZE	34	3000
MWTSTCK	0	
MWTWCNT	14	
PRBM	0	
PRBMDATA	2C	
PRBMDOM	34	
PRBMFLAG	30	
PRBMFPCE	30	2
PRBMFVAL	30	80
PRBMID	0	
PRBMLEN	160	160
PRBMMID	3A	3F

Table 307. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
PRBMNAGO	30	4
PRBMNAGR	30	8
PRBMNEXT	4	
PRBMSPLC	28	
PRBMSTCK	18	
PRBMSTRT	8	
PRBMTXL1	38	
PRBMTXL2	82	
PRBMTXL3	CC	
PRBMTXL4	116	
PRBMTXT1	3A	
PRBMTXT2	84	
PRBMTXT3	CE	
PRBMTXT4	118	
PRBMUCMD	30	10
PRBMUDUR	30	40
PRBMUSTA	30	20

$MTQH information

$MTQH heading information

Common name: Main Task Queue Header

Macro ID: $MTQH

DSECT name: MTQH

Owning component: JES2 (SC1BH)

Eye-catcher ID: MTQH
Offset: MTQHID-MTQH
Length: L'MTQHID

Storage attributes: Subpool: 241 (CSA, not fetch protected)
Key: 1
Residency: anywhere

Size: See MTQHSIZE

Created by: Users of $RQUE services

Pointed to by: CCTPJCLQ field of the $HCCT data area
CCTSAPIQ field of the $HCCT data area
CCTPSOQ field of the $HCCT data area

Serialization: Serialization is controlled through the $RQUE service. Refer to the line comments for details about specific fields.

Function: Represents a queue of requests for a main task service. Used in conjunction with the $RQUE services.

$MTQH mapping

Table 308. Structure MTQH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTQH	

Table 308. Structure MTQH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following fields are set by the creator of the MTQH. They cannot be altered after the MTQH is created.			
0	(0)	CHARACTER	4	MTQHID	Data area identifier
4	(4)	SIGNED	2	MTQHLEN	Length of MTQH
6	(6)	BITSTRING	1	MTQHVER	Version number
6	(6)	X'1'	0	MTQHCVER	"1" Current version number
7	(7)	BITSTRING	1	MTQHRSC	JES2 resource to post to have a request processed ($DRxxxx value)
		Number of MTRBs in various stages of processing on FIFO and active chains			
8	(8)	SIGNED	4	MTQHREQN	Nr of MTRBs to process SERIALIZATION: none, main task only
		The following fields are internal to the $RQUE services.			
12	(C)	BITSTRING	8	MTQHPEND(0)	Pending work queues
12	(C)	ADDRESS	4	MTQHLIFO	Address of first LIFO MTRB SERIALIZATION: compare and swap
16	(10)	ADDRESS	4	MTQHFIFO	Address of first FIFO MTRB SERIALIZATION: none, changed by main task only
20	(14)	ADDRESS	4	MTQHACT	Address of first active MTRB SERIALIZATION: none, changed by main task only
20	(14)	X'18'	0	MTQHSIZE	"*-MTQH" Length of MTQH

Table 309. Cross Reference for $MTQH

Name	Offset	Hex Tag
MTQH	0	
MTQHACT	14	
MTQHCVER	6	1
MTQHFIFO	10	
MTQHID	0	D4E3D8C8
MTQHLEN	4	
MTQHLIFO	C	
MTQHPEND	C	
MTQHREQN	8	
MTQHRSC	7	
MTQHSIZE	14	18
MTQHVER	6	

$MTRB information

$MTRB heading information

Common name: Main Task Request Block

Macro ID: $MTRB

DSECT name: MTRB

Owning component: JES2 (SC1BH)

Eye-catcher ID: MTRB
Offset: MTRBID-MTRB
Length: L'MTRBID

Storage attributes: Subpool: 231 (subpool used by $GETCEL)
Key: 1
Residency: anywhere

Size: See MTRBSIZE

Created by: Users of $RQUE services

Pointed to by: the MTRBNEXT field of the MTRB data area
the MTQHLIFO, MTQHFIFO, and MTQHACT fields of the MTQH data area
the SAPMTRB field of the $SAPID data area
the PSOMTRB field of the $PSO data area

Serialization: Serialization is controlled through the $RQUE service. SSI and main task callers have the following access to an MTRB:
SSI caller: The caller has exclusive control of the MTRB before and after the call to the EXE function. If the caller is abended while within the EXE function, the caller's recovery routine is obligated to call the CMP function to wait for the request to complete before using or freeing the MTRB.
Main task caller: The caller has exclusive control of the MTRB that is returned by the GET function. The caller gives up control of the MTRB when invoking the RET function.

Function: Represents a request for a main task service. Used in conjunction with the $RQUE services.

$MTRB mapping

Table 310. Structure MTRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTRB	
The following fields can be used by callers of the $RQUE services.					
0	(0)	SIGNED	4	MTRBCCE	Address of cell control element if storage for MTRB was obtained using $GETCEL service, else 0
4	(4)	CHARACTER	4	MTRBID	Data area identifier
8	(8)	SIGNED	2	MTRBLEN	Length of MTRB
10	(A)	BITSTRING	1	MTRBVER	Version number
10	(A)	X'2'	0	MTRBCVER	"2" Current version number
11	(B)	BITSTRING	1	MTRBRSV1	Reserved for future use
12	(C)	ADDRESS	4	MTRBPARM	Address of request-specific control block
16	(10)	CHARACTER	4	MTRBPID	Identifier of request-specific control block
20	(14)	SIGNED	4	MTRBRC	Return code
24	(18)	CHARACTER	4	MTRBRSV2	Reserved for future use
The following fields are internal to the $RQUE services.					
28	(1C)	ADDRESS	4	MTRBQUE	Address of queue header (helps locating queue in a dump)
32	(20)	ADDRESS	4	MTRBNEXT	Address of next MTRB on queue
36	(24)	SIGNED	4	MTRBECB	ECB for $XMPOST

Table 310. Structure MTRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	BITSTRING	1	MTRBFLG1	Flags SERIALIZATION: None.
40	(28)	X'1'	0	MTRB1WFC	"1" SSI must wait for completion
41	(29)	BITSTRING	7	MTRBRSV3	Reserved for future use
48	(30)	BITSTRING	8	MTRBASCT	Address space token
56	(38)	DBL WORD	8	MTRBSTCK	Time MTRB was queued
56	(38)	X'40'	0	MTRBSIZE	"*-MTRB" Length of MTRB

Table 311. Cross Reference for $MTRB

Name	Offset	Hex Tag
MTRB	0	
MTRBASCT	30	
MTRBCCE	0	
MTRBCVER	A	2
MTRBECB	24	
MTRBFLG1	28	
MTRBID	4	D4E3D9C2
MTRBLEN	8	
MTRBNEXT	20	
MTRBPARM	C	
MTRBPID	10	
MTRBQUE	1C	
MTRBRC	14	
MTRBRSV1	B	
MTRBRSV2	18	
MTRBRSV3	29	
MTRBSIZE	38	40
MTRBSTCK	38	
MTRBVER	A	
MTRB1WFC	28	1

$MWE information

$MWE heading information

Common name: HASP Monitor Work Element

Macro ID: $MWE

DSECT name: MWE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'MWE '
Offset: MWEID-MWE
Length: 4

Storage attributes: Subpool: 129
Key: 1
Residency: Virtual is in 31 bit storage and real can be in 64 bit storage. The $MWEs reside in the JES2 monitor address space.

Size: Each MWE is 16K bytes long.

Created by: Monitor initialization processing.

Pointed to by: - The TCBBDT field of the MVS TCB control block for the associated monitor address space subtask.
- The MWENEXT pointer in the MWE data area
- The JMTMWE pointer in the HJCT data area
- General register 13 when executing code in the 'MONITOR' execution environment.

Serialization: None required

Function: The MWE contains data specific to a JES2 monitor subtask. It is also used to communicate data between the monitor main task and the subtasks.

$MWE mapping

Table 312. Structure MWE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWE	, Monitor Work Element DSECT
0	(0)	CHARACTER	4	MWEID(0)	MWE control block identifier
0	(0)	BITSTRING	1	(0)	Available save area
176	(B0)	ADDRESS	4	MWENEXT	Address of next MWE on chain
180	(B4)	CHARACTER	8	MWENAME	Name of the monitor task
188	(BC)	CHARACTER	8	MWEEPNM	Entry point name
196	(C4)	ADDRESS	4	MWECODE	Address of the support code
		Status information for this elements			
200	(C8)	CHARACTER	12	MWESTAT	Current status of task
212	(D4)	CHARACTER	24	MWEALERT	Any error alerts for this task
236	(EC)	BITSTRING	1	MWECFLAG	Common status flags
		1...		MWECFJ2D	"B'10000000'" Task knows JES2 is down
237	(ED)	BITSTRING	3		Reserved
		MWETECB is the ECB passed to ATTACHX that is posted when the task terminates MWEECB is the ECB the task waits on when it is not processing work			
240	(F0)	SIGNED	4	MWETECB	Termination ECB address
244	(F4)	SIGNED	4	MWEWECB	Communication ECB address
248	(F8)	ADDRESS	4	MWETCB	TCB address
252	(FC)	ADDRESS	4	MWEHJCT	HCJT address
256	(100)	DBL WORD	8	MWEDWORK	Work area (used by subroutines)
264	(108)	DBL WORD	8	MWEDWRK2	Work area (used by subroutines)
272	(110)	BITSTRING	16	MWEWRK16	Work area (used by subroutines)
288	(120)	BITSTRING	16	MWEQWORD	Quad word work area
304	(130)	CHARACTER	128	MWEWTOW	WTO work area (used by subroutines)
432	(1B0)	DBL WORD	8	MWEMFLS(0)	MF=L work areas
		MACDATE 05/30/98			
432	(1B0)	SIGNED	4	(0)	
432	(1B0)	BITSTRING	28		
432	(1B0)	SIGNED	4	(0)	
432	(1B0)	ADDRESS	1		FLAGS FOR ESTAEX
433	(1B1)	ADDRESS	1		SECOND FLAG BYTE
434	(1B2)	ADDRESS	1		THIRD FLAG BYTE

Table 312. Structure MWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
435	(1B3)	ADDRESS	1		VERSION NUMBER
436	(1B4)	ADDRESS	4		TOKEN VALUE AREA
440	(1B8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
444	(1BC)	ADDRESS	4		ALET FOR PARM LIST
448	(1C0)	ADDRESS	4		FOUR BYTE EXIT ADDR
	MACDATE 02/15/04				
432	(1B0)	SIGNED	4	(0)	
432	(1B0)	BITSTRING	28		
460	(1CC)	SIGNED	4	(20)	Reserved
544	(220)	DBL WORD	8	MWEDATA(0)	Local data area origin
544	(220)	X'4000'	0	MWESIZE	"16384" Length of an MWE

Table 313. Cross Reference for $MWE

Name	Offset	Hex Tag
MWE	0	
MWEALERT	D4	
MWECFJ2D	EC	80
MWECFLAG	EC	
MWECODE	C4	
MWEDATA	220	
MWEDWORK	100	
MWEDWRK2	108	
MWEEPNM	BC	
MWEHJCT	FC	
MWEID	0	
MWEMFLS	1B0	
MWENAME	B4	
MWENEXT	B0	
MWEQWORD	120	
MWESIZE	220	4000
MWESTAT	C8	
MWETCB	F8	
MWETECB	F0	
MWEWECB	F4	
MWEWRK16	110	
MWEWTOW	130	

$NAT information

$NAT programming interface information

The following field is **NOT** programming interface information:

- NATNTQ

$NAT heading information

Common name: Nodes Attached Table Element

Macro ID: $NAT

DSECT name: NAT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes:
Subpool: n/a
Key: 1
Residency: In the jesxNAT data space in cpool SAPID

Size:
See NATNATL for NAT
NATNTQL for NTQ
NATNATPL for NATP

Created by:
$NATADD (NATs)
HASPCOMM (NTQs)
HASPNPM (NATPs)

Pointed to by:
MDCTNATP field of the DCT data area
MDCTNPCH field of the DCT data area
NATNEXT field of the NAT data area
NATPREV field of the NAT data area
NATPCHAN field of the NAT data area
NATPNEXT field of the NAT data area
NATPDNXT field of the NAT data area
NATSCHAN field of the NAT data area
NATNATP field of the NAT data area
NATNTQ field of the NAT data area
NITNAT field of the NIT data area
NTKNAT field of the NTK data area
PCTNATAT field of the PCT data area
PCTNATAH field of the PCT data area
PCTNATUT field of the PCT data area
PCTNATUH field of the PCT data area
PCTNATHT field of the PCT data area
PCTNATHH field of the PCT data area
PCTNATNH field of the PCT data area
PCTNATNH field of the PCT data area

Serialization:
NTQs and NATPs are serialized by normal JES2 PCE serialization. When a NAT that was created by $NATADD is updated, then PCT1NTUP must be set.

Function:
The NAT describes the connections that currently exist or have once existed between nodes in a network.
It also maps the NTQ and the NATP which are special purpose NATs.

$NAT mapping

Table 314. Structure NAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NAT	
0	(0)	X'1'	0	NATVERN	"1" Version number of the NAT
0	(0)	BITSTRING	8	NATID(0)	UNIQUE NAT IDENTIFICATION
0	(0)	ADDRESS	3	NATPRI(0)	PRIMARY NODE ID
0	(0)	SIGNED	2	NATPRIN	PRIMARY NODE NUMBER
2	(2)	BITSTRING	1	NATPRIQ	PRIMARY NODE QUALIFIER
3	(3)	BITSTRING	1		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	3	NATSEC(0)	SECONDARY NODE ID
4	(4)	SIGNED	2	NATSECN	SECONDARY NODE NUMBER
6	(6)	BITSTRING	1	NATSECQ	SECONDARY NODE QUALIFIER
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	BITSTRING	1	NATNTYPE	TYPE OF NAT
		1...		NATNTNAT	"B'10000000'" REAL NAT ELEMENT

Table 314. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		NATNTNTQ	"B'01000000'" TEMPORARY NAT (NTQ)
		..1.		NATNTNPT	"B'00100000'" Temporary MAS connection NATP (used during signon validation)
		...1		NATNTNTP	"B'00010000'" Permanent MAS connection NATP(used after signon)
9	(9)	BITSTRING	1	NATTYPE	Type of NAT element
		1...		NATTSTAT	"B'10000000'" NAT is a static connect
		.1..		NATTPM	"B'01000000'" NAT is specifically defined as a PATHMGR=YES connect
		..1.		NATTPMNO	"B'00100000'" NAT is specifically defined as a PATHMGR=NO connect
		...1		NATTPMDE	"B'00010000'" NTQ is specifically defined as a PATHMGR=RESET connect
		.... 1...		NATTPRIV	"B'00001000'" NAT is a private connect
		.... .1..		NATTUNRE	"B'00000100'" NAT is a unreachable
		.... ..1.		NATTADJ	"B'00000010'" NAT is adjacent to this node and member
10	(A)	ADDRESS	2	NATREST	RESISTANCE OF CONNECTION
12	(C)	ADDRESS	4	NATEVNT	EVENT SEQUENCE
16	(10)	SIGNED	4		Reserved for future use
20	(14)	SIGNED	4	NATECOM(0)	End of common section
Node Attached Table unique Fields					
20	(14)	BITSTRING	1	NATSTATE	Current state of active NAT
		1...		NATSUMAX	"B'10000000'" NAT is unreachable due to $MAXREST
		.1..		NATSINUS	"B'01000000'" NAT is currently in use in some path
		..1.		NATSURCH	"B'00100000'" Static NAT with both nodes not connected
		...1		NATSPEND	"B'00010000'" Adjacent static NAT has no active line
		.... 1...		NATSXTRA	"B'00001000'" NAT is not currently used in any path
21	(15)	BITSTRING	1	NATNSTAT	New state of the NAT (set by full path processing)
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	ADDRESS	4	NATNEXT	Addr of next NAT on cur que
28	(1C)	ADDRESS	4	NATPREV	Addr of prev NAT on cur que
32	(20)	ADDRESS	4	NATPCHAN	Prim chain of NATs from NIT
36	(24)	ADDRESS	4	NATSCHAN	Sec chain of NATs from NIT
40	(28)	ADDRESS	4	NATPNIT	Addr of NIT for primary
44	(2C)	ADDRESS	4	NATSNIT	Addr of NIT for secondary
48	(30)	ADDRESS	4	NATANATP	Chain field for temp active queue (Used by NPMFPATH)
52	(34)	ADDRESS	4	NATNMPTR	Pointer to notify bit map

Table 314. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The field NATALINE contains a DCT address that is considered to own this NAT. If neither NATPRI nor NATSEC is the local node, then NATALINE is DCT over which this status was first received. If either NATPRI or NATSEC is the local node, then NATALINE contains the LINE DCT address that has the least resistance to the other node on this member. It is not necessarily the primary trunk. NATNATP is a chain of NATPs (at most one per MAS member) which represent the best line from each member of a MAS. NATALINE will be zero if there is no line to the other node on this member. The fields defined by NATAUXCP must be copied between real NATs and AUX NATs whenever a AUX NAT is created.			
56	(38)	SIGNED	4	NATAUXCS(0)	Start of fields copied to/from AUX NATs
56	(38)	ADDRESS	4	NATALINE	Address of owning DCT or zero.
60	(3C)	SIGNED	2	NATALNUM	Line number associated with NATALINE
62	(3E)	BITSTRING	2		Reserved
64	(40)	ADDRESS	4	NATNATP	Chain of NATPs representing connections from other MAS members
68	(44)	BITSTRING	1	NATMEMBP	For adjacent NATs, member with primary line
68	(44)	X'38'	0	NATAUXCP	"NATAUXCS,*-NATAUXCS" End of fields to copy
69	(45)	BITSTRING	1	NATCSTAT	Current status of NAT
		1...		NATCACT	"B'10000000'" NAT on active queue
		.1..		NATCUNC	"B'01000000'" NAT unconnected
		..1.		NATCHLD	"B'00100000'" NAT on held queue
70	(46)	BITSTRING	1	NATNRANK	Order on NIT to NAT queue
70	(46)	X'0'	0	NATNRNUL	"0" NAT has yet to be ranked
70	(46)	X'4'	0	NATNRNMS	"4" ACTIVE, non-MAS connect
70	(46)	X'8'	0	NATNRMAS	"8" ACTIVE, MAS connection
70	(46)	X'C'	0	NATNRSTA	"12" Static/Private connect
70	(46)	X'10'	0	NATNRHLD	"16" HELD connection
70	(46)	X'14'	0	NATNRINA	"20" INACTIVE connection
71	(47)	BITSTRING	1	NATVFYQ	Flags used by NPMVFY to verify the NAT is on all queues
		1...		NATVFSTA	"B'10000000'" NAT is on a status queue
		.1..		NATVFPRI	"B'01000000'" NAT is on the queue from the primary node's NIT
		..1.		NATVFSEC	"B'00100000'" NAT is on the queue from the secondary node's NIT
72	(48)	ADDRESS	4	NATNTIME	Time record was recieved or status last modified
76	(4C)	ADDRESS	4	NATAUX	Address of auxiliary NAT (PM defined NAT chained off identical static NAT)
80	(50)	ADDRESS	4	NATRTKN	TOKEN used during NAT verification
80	(50)	X'54'	0	NATNATL	"*-NAT" Length of NAT DSECT
		Prototype NAT used for FULLPATH determination The following fields are ony used during full path processing.			
20	(14)	BITSTRING	1	NATNPMF	Flag byte work area

Table 314. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	SIGNED	2	NATNPLEN	Path length work area
22	(16)	X'18'	0	NATFPTL	"*-NAT" Length of full path NAT
		Nodes attached table queue element for use during initialization for the CONNECT statement. Also used for the $ADD, $DEL, $D, and $T connect commands.			
20	(14)	ADDRESS	4	NATNTQ	NTQ Chain field
24	(18)	CHARACTER	8	NATNTQNA	Primary node name (EBCDIC)
32	(20)	CHARACTER	8	NATNTQNB	2ndary node name (EBCDIC)
40	(28)	CHARACTER	8	NATNTQCN	Console id of console issuing command
48	(30)	BITSTRING	1	NATNTQF1	NTQ type field
		1...		NATNTQ1A	"B'10000000'" Add CONNECT
		.1..		NATNTQ1T	"B'01000000'" Change ($T) CONNECT
		..1.		NATNTQ1R	"B'00100000'" Delete CONNECT
		...1		NATNTQ1P	"B'00010000'" PATHMGR= value was explicitly specified
49	(31)	BITSTRING	1	NATNTQF2	General NTQ flags
		1...		NATNTQ2P	"B'10000000'" Processed NTQ
		1		NATNTQ2C	"B'00000001'" NPMSIM Flag
50	(32)	BITSTRING	2		Reserved for future use
50	(32)	X'34'	0	NATNTQL	"*-NAT" Length of NTQ control block
		Nodes attached table element for NJE connections out of other MAS members (NATP).			
20	(14)	ADDRESS	4	NATPNEXT	Next chained NATP (NAT chn)
24	(18)	ADDRESS	4	NATPDNXT	Next chained NATP (DCT chn)
28	(1C)	ADDRESS	4	NATPNAT	NAT associated with NATP
32	(20)	ADDRESS	4	NATPDCT	DCT associated with NATP
36	(24)	ADDRESS	3	NATPAFTK	Owning memb affinity token
39	(27)	BITSTRING	1	NATPMEMB	Owning member's ID
40	(28)	BITSTRING	1	NATPFLG1	NATP flag byte
		1...		NATP1WAT	"B'10000000'" Don't send it yet
		.1..		NATP1CMP	"B'01000000'" Signon done (got M recrd)
		..1.		NATP1PRS	"B'00100000'" Persistent connection
41	(29)	BITSTRING	3		Reserved
44	(2C)	CHARACTER	8	NATPNNAM	Node name from I record
52	(34)	SIGNED	4	(0)	Ensure fullword boundry
52	(34)	X'34'	0	NATNATPL	"*-NAT" Length of NATP control

Table 315. Cross Reference for $NAT

Name	Offset	Hex Tag
NAT	0	
NATALINE	38	
NATALNUM	3C	
NATANATP	30	
NATAUX	4C	

Table 315. Cross Reference for $NAT (continued)

Name	Offset	Hex Tag
NATAUXCP	44	38
NATAUXCS	38	
NATCACT	45	80
NATCHLD	45	20
NATCSTAT	45	
NATCUNC	45	40
NATECOM	14	
NATEVNT	C	
NATFPTL	16	18
NATID	0	
NATMEMBP	44	
NATNATL	50	54
NATNATP	40	
NATNATPL	34	34
NATNEXT	18	
NATNMPTR	34	
NATNPLEN	16	
NATNPMF	14	
NATNRANK	46	
NATNRHLD	46	10
NATNRINA	46	14
NATNRMAS	46	8
NATNRNMS	46	4
NATNRNUL	46	0
NATNRSTA	46	C
NATNSTAT	15	
NATNTIME	48	
NATNTNAT	8	80
NATNTNPT	8	20
NATNTNTP	8	10
NATNTNTQ	8	40
NATNTQ	14	
NATNTQCN	28	
NATNTQF1	30	
NATNTQF2	31	
NATNTQL	32	34
NATNTQNA	18	
NATNTQNB	20	
NATNTQ1A	30	80
NATNTQ1P	30	10
NATNTQ1R	30	20
NATNTQ1T	30	40
NATNTQ2C	31	1
NATNTQ2P	31	80
NATNTYPE	8	
NATPAFTK	24	

Table 315. Cross Reference for $NAT (continued)

Name	Offset	Hex Tag
NATPCHAN	20	
NATPDCT	20	
NATPDNXT	18	
NATPFLG1	28	
NATPMEMB	27	
NATPNAT	1C	
NATPNEXT	14	
NATPNIT	28	
NATPNNAM	2C	
NATPREV	1C	
NATPRI	0	
NATPRIN	0	0
NATPRIQ	2	0
NATP1CMP	28	40
NATP1PRS	28	20
NATP1WAT	28	80
NATREST	A	0
NATRTKN	50	
NATSCHAN	24	
NATSEC	4	
NATSECN	4	0
NATSECQ	6	0
NATSINUS	14	40
NATSNIT	2C	
NATSPEND	14	10
NATSTATE	14	
NATSUMAX	14	80
NATSURCH	14	20
NATSXTRA	14	8
NATTADJ	9	2
NATTPM	9	40
NATTPMDE	9	10
NATTPMNO	9	20
NATTPRIV	9	8
NATTSTAT	9	80
NATTUNRE	9	4
NATTYPE	9	
NATVERN	0	1
NATVFPRI	47	40
NATVFSEC	47	20
NATVFSTA	47	80
NATVFYQ	47	

$NCPE information

$NCPE heading information

Common name:	NJE Server Subtask Table
Macro ID:	$NCPE
DSECT name:	NCPE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'NCPE' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 230 Key: 1 Residency: Common storage, Virtual storage below 2GB, real storage anywhere
Size:	See NCPLEN
Created by:	HASCNJAS during NETSRV address space initialization
Pointed to by:	NSCNCPE field of the $NSCT data area PCLNCPE field of the $PCL data area
Serialization:	
Function:	Used to cross-memory post the request manager subtask in an NJE server address space

$NCPE mapping

Table 316. Structure NCPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NCPE	NCPE DSECT mapping
		$XMPOST parameter list for server request subtask			
0	(0)	SIGNED	4	NCPEXMPE(0)	XMPOST parameter list
0	(0)	ADDRESS	4	NCPERRET	WORD 1 = ERRET address (CCTBR14)
4	(4)	ADDRESS	4	NCPECBAD	WORD 2 = ECB address (NCPEECB)
8	(8)	ADDRESS	4	NCPEASCB	WORD 3 = ASCB address
12	(C)	SIGNED	4	NCPEECB	Request manager ECB
12	(C)	X'10'	0	NCPELEN	"*-NCPE" Length of NCPE

$NHD information

$NHD programming interface information

$NHD is a programming interface.

$NHD heading information

Common name:	Network Job Header, Dataset Header, and Job Trailer DSECTs.
Macro ID:	$NHD
DSECT name:	NJH NJH2 NJHE NJHT NJHU NJHO NJHA NJHOX NJT NJTS NJTU NJTO NDH NDHA NDHS NDHC NDHT NDHU NDHO NDHOX
Owning component:	JES2 (SCB1H)
Eye-catcher ID:	None

Storage attributes: Subpool: 10
Key: 1
Residency: JES2 spool resident control block.
Virtual and real storage may be anywhere when resident in memory.

Size: Variable, with a maximum size of NJHMAXLN for job headers, NDHMAXLN for dataset headers, or NJTMAXLN for job trailers. These control blocks will always reside in a 32K block of storage.

Created by: Network job receiver for jobs received from network;
Offload job receiver for reloaded jobs;
Route receiver for network jobs rerouted locally;
Network, offload, or route job/SYSOUT transmitters for locally submitted jobs (at transmission time).
In-storage versions of the control block are created by $NHDREAD or $NHDRCV.

Pointed to by: JCTNJHTR field of the $JCT data area (spool pointer)
JCTNJTTR field of the $JCT data area (spool pointer)
PDBNDHTR field of the $JCT data area (spool pointer)
Storage pointers in various PCE work areas and $NHDxxx service parameter lists.

Serialization: Serialized under the JES2 TCB

Function: This DSECT represents the JES2 mappings of Job and Data set Headers/Trailers described in "Network Job Entry Formats and Protocols" (SC23-0070). These control blocks are part of the networking protocol used to communicate between nodes in a network.

$NHD mapping

Table 317. Structure NJH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJH	NETWORK JOB HEADER RECORD
		BLOCK CONTROL INFORMATION			
0	(0)	ADDRESS	2	NJHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJHFLAGS	FLAGS
3	(3)	BITSTRING	0	NJHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJHLBCI	"*-NJH" LENGTH OF BLOCK CONTROL INFORMATION
		GENERAL SECTION			
4	(4)	SIGNED	4	NJHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJHGMOD	MODIFIER
		....		NJHG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	ADDRESS	2	NJHGJID	JOB IDENTIFIER
10	(A)	CHARACTER	1	NJHGJCLS	JOB CLASS
11	(B)	CHARACTER	1	NJHGMCLS	MESSAGE CLASS
12	(C)	BITSTRING	1	NJHGFLG1	FLAGS
		1...		NJHGF1PR	"B'10000000'" DO NOT RECOMPUTE PRIORITY
		.1..		NJHGF1JN	"B'01000000'" Extended job number exists
		...1		NJHGF1DU	"B'00010000'" Origin node path dubious

Table 317. Structure NJH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		NJHGF1CF	"B'00001000'" Store-and-forward msg flag
		.... .1..		NJHGF1CA	"B'00000100'" Destination node msg flag
		.... ..1.		NJHGF1PE	"B'00000010'" NJHGPASS is encrypted
		1		NJHGF1NE	"B'00000001'" NJHGNPAS is encrypted
13	(D)	ADDRESS	1	NJHGPRIO	SELECTION PRIORITY
14	(E)	ADDRESS	1	NJHGORGQ	ORIGIN NODE SYSTEM QUALIFIER
15	(F)	ADDRESS	1	NJHGJCPY	JOB COPY COUNT
16	(10)	ADDRESS	1	NJHGLNCT	JOB LINE COUNT
17	(11)	BITSTRING	1		RESERVED
18	(12)	SIGNED	2	NJHGHOPS	NJE HOP COUNT
20	(14)	CHARACTER	8	NJHGACCT	NETWORKING ACCOUNT NUMBER
28	(1C)	CHARACTER	8	NJHGJNAM	JOB NAME
36	(24)	CHARACTER	8	NJHGUSID	USERID (TSO, VM) to NOTIFY
44	(2C)	CHARACTER	8	NJHGPASS	PASSWORD
52	(34)	CHARACTER	8	NJHGNPAS	NEW PASSWORD
60	(3C)	SIGNED	8	NJHGETS	ENTRY TIME/DATE STAMP
68	(44)	CHARACTER	8	NJHGORGN	ORIGIN NODE NAME
76	(4C)	CHARACTER	8	NJHGORGR	ORIGIN REMOTE NAME
84	(54)	CHARACTER	8	NJHGXEQN	EXECUTION NODE NAME
92	(5C)	CHARACTER	8	NJHGXEQU	EXECUTION USER ID(VM/370)
100	(64)	CHARACTER	8	NJHGPRTN	DEFAULT PRINT NODE NAME
108	(6C)	CHARACTER	8	NJHGPRTR	DEFAULT PRINT REMOTE NAME
116	(74)	CHARACTER	8	NJHGPUNN	DEFAULT PUNCH NODE NAME
124	(7C)	CHARACTER	8	NJHGPUNR	DEFAULT PUNCH REMOTE NAME
132	(84)	CHARACTER	8	NJHGFORM	JOB FORMS
140	(8C)	SIGNED	4	NJHGICRD	INPUT CARD COUNT
144	(90)	SIGNED	4	NJHGETIM	ESTIMATED EXECUTION TIME
148	(94)	SIGNED	4	NJHGELIN	ESTIMATED OUTPUT LINES
152	(98)	SIGNED	4	NJHGECRD	ESTIMATED OUTPUT CARDS
156	(9C)	CHARACTER	20	NJHGPRGN	PROGRAMMER'S NAME
176	(B0)	CHARACTER	8	NJHGROOM	PROGRAMMER'S ROOM NUMBER
184	(B8)	CHARACTER	8	NJHGDEPT	PROGRAMMER'S DEPARTMENT
192	(C0)	CHARACTER	8	NJHGBLDG	PROGRAMMER'S BUILDING NUMBER
200	(C8)	SIGNED	4	NJHGNREC	RECORD COUNT ON OUTPUT XMISSION
204	(CC)	SIGNED	4	NJHGJNO	Extended job number
208	(D0)	CHARACTER	8	NJHGNTYN	Node to send NOTIFY message
216	(D8)	SIGNED	4	NJHGEND(0)	END OF GENERAL SECTION
216	(D8)	X'24'	0	NJHGORGU	"NJHGUSID" ORGIN USER ID
216	(D8)	X'D4'	0	NJHGLLEN	"*-NJHG" LENGTH OF GENERAL SECTION

Table 318. Structure NJH2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJH2	START OF JES2 SECTION
0	(0)	ADDRESS	2	NJH2LEN	LENGTH OF JES2 SECTION

Table 318. Structure NJH2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	2	NJH2FLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJH2TYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJH2MOD	MODIFIER
		....		NJH2$MOD	"B'00000000'" VALUE OF MODIFIER
		The following modifier is reserved and may not be used in conjunction with NTYPJES2 in the job header as it is used internally in JES2 SP4.3.0.			
		1		NJH2$RSV	"B'00000001'" **RESERVED Modifier** Was NJHA$J2M previously
4	(4)	BITSTRING	1	NJH2FLG1	FLAGS
5	(5)	BITSTRING	1	NJH2FLG2	Flag byte 2
6	(6)	BITSTRING	2		RESERVED
8	(8)	CHARACTER	4	NJH2ACCT	ORIGINATOR'S JES2 ACCOUNT NUMBER
12	(C)	CHARACTER	8	NJH2USID	JMR installation data field
20	(14)	CHARACTER	8	NJH2USR(0)	JCL USER ID (BEFORE SAF CALL) VERIFIED USER ID (AFTER)
28	(1C)	CHARACTER	8	NJH2GRP(0)	JCL GROUP ID (BEFORE SAF CALL) VERIFIED GROUP ID (AFTER)
36	(24)	CHARACTER	8	NJH2SUSR(0)	SUBMITTER'S USER ID
44	(2C)	CHARACTER	8	NJH2SGRP(0)	SUBMITTER'S GROUP ID
44	(2C)	X'34'	0	NJH2ACML	"*-NJH2" MINIMUM LENGTH FOR FIELDS REQUIRED FOR AUTH CHECKS IN JES2
52	(34)	CHARACTER	8	NJH2LNAM(0)	Associated JOBGROUP logging job name. If not set then no association.
60	(3C)	SIGNED	4	NJH2END(0)	END OF JES2 SECTION
60	(3C)	X'3C'	0	NJH2LLEN	"*-NJH2" LENGTH OF JES2 SECTION
		NJH2FLG1 BIT DEFINITIONS			
		11		NJH2FJOB	"B'00000011'" JOB IS A BATCH JOB WHEN ZERO
		1		NJH2FSTC	"B'00000001'" JOB IS A STARTED TASK
		.... ..1.		NJH2FTSU	"B'00000010'" JOB IS TIME-SHARING USER
		.... .1..		NJH2USE	"B'00000100'" JCTUSEID PRESENT IN HEADER
		.... 1...		NJH2TPO	"B'00001000'" Output originated from a transaction program
		..1.		NJH2DFJG	"B'00100000'" JOB is a JOBGROUP logging job
		NJH2FLG2 BIT DEFINITIONS			
		1...		NJH2ESMF	"B'10000000'" Suppress EVENTLOG SMF recs
		..1.		NJH2ERST	"B'00100000'" Suppress EVENTLOG RESTAT rc
		...1		NJH2ETRC	"B'00010000'" Suppress EVENTLOG TRACE rec
		.... 1...		NJH2EUSR	"B'00001000'" Suppress EVENTLOG USER recs

Table 319. Structure NJHE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHE	START OF JOB SCHED SECTION
0	(0)	ADDRESS	2	NJHELEN	LEN OF JOB SCHEDULING SECTION
2	(2)	BITSTRING	2	NJHEFLGS(0)	JOB SCHEDULING FLAGS
2	(2)	ADDRESS	1	NJHETYPE	ID FOR JOB SCHEDULING SECTION
3	(3)	ADDRESS	1	NJHEMOD	MODIFIER FOR JOB SCHEDULING
		....		NJHE$JS	"B'00000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJHEPAGE	ESTIMATED BEGIN PAGE COUNT
8	(8)	BITSTRING	4	NJHEBYTE	ESTIMATED BYTE COUNT
12	(C)	CHARACTER	8	NJHECLS8	Eight Character Job class
20	(14)	CHARACTER	64	NJHEOCOR	Original job correlator
84	(54)	CHARACTER	8	NJHEXSYS	Name of system where job executed
92	(5C)	SIGNED	4	NJHEEND(0)	END OF JOB SCHEDULING SECTION
92	(5C)	X'5C'	0	NJHELLEN	"*-NJHE" LEN OF JOB SCHEDULING SECTION

Table 320. Structure NJHT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHT	Start of Security Section
0	(0)	ADDRESS	2	NJHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NJHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NJHTMOD	Modifier
		....		NJHT$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NJHTLENP	Length of prefix sectn
6	(6)	BITSTRING	1	NJHTFLG0	Security section flags
		1...		NJHTF0JB	"B'10000000'" Token represents job
7	(7)	ADDRESS	1		Reserved
8	(8)	CHARACTER	80	NJHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NJHTEND(0)	End of Security Section
88	(58)	X'58'	0	NJHTLLEN	"*-NJHT" Length of Security Section

Table 321. Structure NJHA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHA	START of Accounting Section
0	(0)	SIGNED	2	NJHALEN	Length of Acctg Section
2	(2)	BITSTRING	2	NJHAFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHATYPE	ID for Accounting Section
3	(3)	ADDRESS	1	NJHAMOD	Modifier
		....		NJHA$MOD	"B'00000000'" Value of Modifier
4	(4)	BITSTRING	1	NJHAFLG1	Flags
		1...		NJHAF1OV	"B'10000000'" Accounting string can be overlaid by other than originating node
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	NJHAOFFS	Offset to beginning of accounting information

Table 321. Structure NJHA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'8'	0	NJHAFLEN	"*-NJHA" Length of fixed portion

```
Accounting strings from the JOB statement
The string is in the form:
AL1(number-of-substrings)
   AL1(length-1st-string),C'1st-string'
   AL1(length-2nd-string),C'2nd-string'
   etc.
Note: The maximum length supported by JES2/JES3
       is 143 bytes.
```

8	(8)	SIGNED	2	NJHAJLEN	Length of job accounting string (does not include the length of this half word)
10	(A)	SIGNED	1	NJHAJNR	Number of sub-strings
11	(B)	SIGNED	1	NJHAJAC1(0)	First sub-string

Table 322. Structure NJHU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHU	START OF USER SECTION
0	(0)	ADDRESS	2	NJHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJHUMOD	MODIFIER --
		....		NJHU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJHUCODE' & 'NJHUEND'
8	(8)	SIGNED	4	NJHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJHULLEN	"*-NJHU" LENGTH OF USER SECTION

Table 323. Structure NJHOX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHOX	Start of JES2 SYSAFF sect.
0	(0)	ADDRESS	2	NJHOXLN	Length of JES2 SYSAFF sect.
2	(2)	BITSTRING	2	NJHOXFGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHOXTYP	ID for JES2 section
3	(3)	ADDRESS	1	NJHOXMOD	MODIFIER for SYSAFF sect.
		11..		NJHO$AFF	"B'11000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOXFG1	FLAGS
		1...		NJHOX1IM	"B'10000000'" Job is independent mode
		.1..		NJHOX1NY	"B'01000000'" SYSAFF=ANYependent mode
5	(5)	BITSTRING	1		RESERVED
6	(6)	ADDRESS	2	NJHOXOFF	Offset to extended affinity

```
Extended system affinity... pointed to by
NJHOXOFF.
The bits in NJHOXSAF reflect affinity for the
system numbers from left to right: 12345678....
```

8	(8)	ADDRESS	2	NJHOXSAL	Length of extended sys aff
10	(A)	BITSTRING	1	NJHOXSAF	Extended system affinity

Table 323. Structure NJHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	X'E'	0	NJHOXLLN	"*-NJHOX" Length of affinity sect.

Table 324. Structure NJHO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJHOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJHOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJHOMOD	MODIFIER
		1...		NJHO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOFLG1	FLAGS
5	(5)	BITSTRING	1	NJHOFLG2	MORE FLAGS
6	(6)	BITSTRING	1	NJHOPRIO	CURRENT EXECUTING PRIORITY
7	(7)	BITSTRING	1	NJHOCLAS	CURRENT EXECUTING CLASS
8	(8)	SIGNED	4	NJHOTIME	OFFLOAD VERIFICATION TIME
12	(C)	SIGNED	4	NJHODATE	OFFLOAD VERIFICATION DATE
16	(10)	CHARACTER	8	NJHOPRTU	PRINT SPECIAL LOCAL ROUTING
24	(18)	CHARACTER	8	NJHOPUNU	PUNCH SPECIAL LOCAL ROUTING
32	(20)	SIGNED	2	NJHOOJNO	OFFLOADED JOB NUMBER
		The bits in NJHOSAF reflect affinity for the system numbers from right to left, with the topmost bit indicating independent mode: I7654321			
34	(22)	BITSTRING	1	NJHOSAF	System affinity; used by systems SP430 and below
35	(23)	BITSTRING	1		Reserved
36	(24)	CHARACTER	8	NJHOPRTN	Job print command authority node name, will be blanks for special local
44	(2C)	BITSTRING	2	NJHOPRRM	Job print command authority remote number
46	(2E)	CHARACTER	8	NJHOPUNN	Job punch command authority node name, will be blanks for special local
54	(36)	BITSTRING	2	NJHOPURM	Job punch command authority remote number
56	(38)	SIGNED	4	NJHOOJBN	Offloaded job number
60	(3C)	CHARACTER	8	NJHOSRVC	$T'ed Service Class
68	(44)	CHARACTER	16	NJHOSCHE	$T'ed SCHENV
84	(54)	SIGNED	4	NJHOCRTM	JQE creation time
88	(58)	CHARACTER	8	HJHOSLGS	For SYSLOG job, MVS system name that created log
96	(60)	CHARACTER	4	NJHORDSD	Input processor JES name
100	(64)	CHARACTER	4	NJHOCVSD	Conversion processor JES nm
104	(68)	CHARACTER	4	NJHOEXSD	Execution processor JES nm
108	(6C)	CHARACTER	4	HJHOOTSD	Output processor JES name
112	(70)	CHARACTER	8	NJHOCLS8	Current executing job class 8 char version of NJHOCLAS
120	(78)	SIGNED	4	NJHOEND(0)	END OF JES2 OFFLOAD SECTION

Table 324. Structure NJHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	X'78'	0	NJHOLLEN	"*-NJHO" LENGTH OF JES2 OFFLOAD SECTION
120	(78)	X'1E8'	0	NJHLLEN	"NJHLBCI+NJHGLLEN+NJH2LLEN+NJHELLEN+NJHOLLEN" LENGTH OF DEFAULT JOB HEADER RECORD
ADD NJHULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION					
		NJHOFLG1 BIT DEFINITIONS			
		1...		NJHOF1HD	"B'10000000'" JOB HELD PRIOR TO TRANSMIT
		.1..		NJHOF1HO	"B'01000000'" ALL JOBS HELD BY OPERATOR PRIOR TO TRANSMIT
		..1.		NJHOF1MC	"B'00100000'" JOB CLASS MODIFIED
		...1		NJHOF1MS	"B'00010000'" JOB AFFINITY MODIFIED
		.... 1...		NJHOF1MH	"B'00001000'" JOB HOLD STATUS MODIFIED
		.... .1..		NJHOF1CV	"B'00000100'" JOB HOLD FOR CONVERSION BEFORE SPOOL OFFLOAD
		NJHOFLG2 BIT DEFINITIONS			
		1...		NJHOF2PR	"B'10000000'" 'PROTECTED' attribute
		.1..		NJHOF2SD	"B'01000000'" Service class $T'ed
		..1.		NJHOF2ED	"B'00100000'" SCHENV $T'ed
		SECTION TYPE FLAGS			
		....		NTYPGEN	"B'00000000'" GENERAL SECTION
		1...		NTYPSUB	"B'10000000'" SUBSYSTEM SECTION
		1... 1..1		NTYPGDS	"B'10001001'" DATA STREAM/ACCOUNTING SECTION
		1... 1.1.		NTYPGJS	"B'10001010'" JOB SCHEDULING SECTION
		1... 11..		NTYPSAF	"B'10001100'" Security Token Section
		1... 11.1		NTYPACCT	"B'10001101'" Job Accounting Section
		1... ...1		NTYPASP	"B'10000001'" ASP SUBSYSTEM SECTION
		1... ..1.		NTYPHASP	"B'10000010'" HASP SUBSYSTEM SECTION
		1... ..11		NTYPJES1	"B'10000011'" JES/RES SUBSYSTEM SECTION
		1... .1..		NTYPJES2	"B'10000100'" JES2 SUBSYSTEM SECTION
		1... .1.1		NTYPJES3	"B'10000101'" JES3 SUBSYSTEM SECTION
		1... .11.		NTYPPOWR	"B'10000110'" POWER/VS SUBSYSTEM SECTION
		1... .111		NTYPVNET	"B'10000111'" VM/370 SUBSYSTEM SECTION
		11..		NTYPUSER	"B'11000000'" USER SECTION
120	(78)	X'7B8B'	0	NJHMAXLN	"(253-4)*127+4" Maximum size of job header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 325. Structure NJT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJT	
	BLOCK CONTROL INFORMATION				
0	(0)	ADDRESS	2	NJTLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJTFLAGS	FLAGS
3	(3)	BITSTRING	0	NJTSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJTLBCI	"*-NJT" LENGTH OF BLOCK CONTROL INFORMATION
	GENERAL SECTION				
4	(4)	SIGNED	4	NJTG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJTGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJTGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJTGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJTGMOD	MODIFIER
		....		NJTG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	BITSTRING	1	NJTGFLG1	FLAGS
9	(9)	CHARACTER	1	NJTGXCLS	ACTUAL EXECUTION CLASS
10	(A)	BITSTRING	2		RESERVED
12	(C)	SIGNED	8	NJTGSTRT	EXECUTION START TIME/DATE
20	(14)	SIGNED	8	NJTGSTOP	EXECUTION STOP TIME/DATE
28	(1C)	SIGNED	4	NJTGACPU	ACTUAL CPU TIME
32	(20)	SIGNED	4	NJTGALIN	ACTUAL OUTPUT LINES
36	(24)	SIGNED	4	NJTGACRD	ACTUAL OUTPUT CARDS
40	(28)	SIGNED	4	NJTGEXCP	EXCP COUNT
44	(2C)	ADDRESS	1	NJTGIXPR	INITIAL XEQ SELECTION PRIORITY
45	(2D)	ADDRESS	1	NJTGAXPR	ACTUAL XEQ SELECTION PRIORITY
46	(2E)	ADDRESS	1	NJTGIOPR	INITIAL OUTPUT SELECTION PRIORITY
47	(2F)	ADDRESS	1	NJTGAOPR	ACTUAL OUTPUT SELECTION PRIORITY
48	(30)	BITSTRING	4	NJTGCC(0)	Job completion codes
48	(30)	BITSTRING	1	NJTGCOMP	Job completion indicator
		1...		NJTGCAB	"X'80'" ABEND CODE
		.1..		NJTGCCC	"X'40'" Completion code
48	(30)	X'0'	0	NJTGCUNK	"0" No completion info
48	(30)	X'1'	0	NJTGCNRM	"1" Job ended normally
48	(30)	X'2'	0	NJTGCECC	"2" Job ended by cc
48	(30)	X'3'	0	NJTGCJCL	"3" Job had a JCL error
48	(30)	X'4'	0	NJTGCCAN	"4" Job was canceled
48	(30)	X'5'	0	NJTGCABN	"5" Job ABENDed
48	(30)	X'6'	0	NJTGCCAB	"6" Converter ABENDed
48	(30)	X'7'	0	NJTGCSEC	"7" Security error
48	(30)	X'8'	0	NJTGCEOM	"8" Job ABENDed in end of memory processing
48	(30)	X'9'	0	NJTGCCNV	"9" Converter error
48	(30)	X'A'	0	NJTGCSYS	"10" System failure
48	(30)	X'B'	0	NJTGCFLU	"11" Job has been flushed

Table 325. Structure NJT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
49	(31)	BITSTRING	3	NJTGCODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
52	(34)	SIGNED	4	NJTGEND(0)	END OF GENERAL SECTION
52	(34)	X'30'	0	NJTGLLEN	"*-NJTG" LENGTH OF GENERAL SECTION

Table 326. Structure NJTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTS	START OF ACCOUNTING SECTION
0	(0)	ADDRESS	2	NJTSLEN	LENGTH OF ACCOUNTING SECTION
2	(2)	BITSTRING	2	NJTSFLGS(0)	ACCOUNTING SECTION FLAGS
2	(2)	ADDRESS	1	NJTSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NJTSMOD	MODIFIER
		....		NJT$ACCT	"B'00000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJTSAPAG	NUMBER OF 'BEGIN PAGE' FIELDS
8	(8)	BITSTRING	4	NJTSABYT	NUMBER OF DATA BYTES
12	(C)	SIGNED	4	NJTSEND(0)	END OF ACCOUNTING SECTION
12	(C)	X'C'	0	NJTSLLEN	"*-NJTS" LENGTH OF ACCOUNTING SECTION

Table 327. Structure NJTU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTU	START OF USER SECTION
0	(0)	ADDRESS	2	NJTULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJTUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJTUMOD	MODIFIER --
		....		NJTU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJTUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJTUCODE' & 'NJTUEND'
8	(8)	SIGNED	4	NJTUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJTULLEN	"*-NJTU" LENGTH OF USER SECTION

Table 328. Structure NJTO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJTOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJTOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJTOMOD	MODIFIER
		1...		NJTO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	SIGNED	4	NJTOTIME	OFFLOAD VERIFICATION TIME
8	(8)	SIGNED	4	NJTODATE	OFFLOAD VERIFICATION DATE
12	(C)	SIGNED	4	NJTOEND(0)	END OF JES2 OFFLOAD SECTION

Table 328. Structure NJTO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	X'C'	0	NJTOLLEN	"*-NJTO" LENGTH OF JES2 OFFLOAD SECTION
12	(C)	X'4C'	0	NJTLLEN	"NJTLBCI+NJTGLLEN+NJTSLLEN+NJTOLLEN" LENGTH OF DEFAULT JOB TRAILER RECORD
ADD NJTULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION					
12	(C)	X'7B8B'	0	NJTMAXLN	"(253-4)*127+4" Maximum size of job trailer: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 329. Structure NDH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDH	NETWORK DATA SET HEADER RECORD
BLOCK CONTROL INFORMATION					
0	(0)	ADDRESS	2	NDHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NDHFLAGS	FLAGS
3	(3)	BITSTRING	0	NDHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NDHLBCI	"*-NDH" LENGTH OF BLOCK CONTROL INFORMATION
GENERAL SECTION					
4	(4)	SIGNED	4	NDHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NDHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NDHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NDHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NDHGMOD	MODIFIER
		....		NDHG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	CHARACTER	8	NDHGNODE	DESTINATION NODE NAME
16	(10)	CHARACTER	8	NDHGRMT	DESTINATION REMOTE NAME
24	(18)	CHARACTER	8	NDHGPROC	PROC INVOCATION NAME
32	(20)	CHARACTER	8	NDHGSTEP	STEP NAME
40	(28)	CHARACTER	8	NDHGDD	DD NAME
48	(30)	SIGNED	2	NDHGDSNO	DATA SET NUMBER
50	(32)	ADDRESS	1	NDHGSEC	SECURITY LEVEL
51	(33)	CHARACTER	1	NDHGCLAS	OUTPUT CLASS
52	(34)	SIGNED	4	NDHGNREC	RECORD COUNT
56	(38)	BITSTRING	1	NDHGFLG1	FLAGS
57	(39)	BITSTRING	1	NDHGRCFM	RECFM
58	(3A)	SIGNED	2	NDHGLREC	MAX LOGICAL RECORD LENGTH
60	(3C)	ADDRESS	1	NDHGDSCT	DATA SET COPY COUNT
61	(3D)	ADDRESS	1	NDHGFCBI	3211 FCB INDEX
62	(3E)	BITSTRING	1	NDHGLNCT	DATA SET LINCT (PAGE SIZE)
63	(3F)	BITSTRING	1		RESERVED FOR FUTURE USE
64	(40)	CHARACTER	8	NDHGFORM	FORMS ID

Table 329. Structure NDH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	CHARACTER	8	NDHGFCB	FCB ID
80	(50)	CHARACTER	8	NDHGUCS	UCS ID
88	(58)	CHARACTER	8	NDHGXWTR	EXTERNAL WRITER ID
96	(60)	CHARACTER	8	NDHGNAME	Sysout DS name (DSNAME=)
104	(68)	BITSTRING	1	NDHGFLG2	SECOND FLAG BYTE
105	(69)	BITSTRING	1	NDHGUCSO	UCS OPTION BYTE
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	CHARACTER	8	NDHGPMDE	PROCESS MODE
116	(74)	SIGNED	4	NDHGSEGN	Segment ID
120	(78)	SIGNED	4	NDHGEND(0)	END OF GENERAL SECTION
120	(78)	X'74'	0	NDHGLLEN	"*-NDHG" LENGTH OF GENERAL SECTION
120	(78)	X'78'	0	NDHLLEN	"*-NDH" LENGTH OF ENTIRE BLOCK

Table 330. Structure NDHA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHA	START OF 3800 CHAR SECTION
0	(0)	ADDRESS	2	NDHALEN	LENGTH OF 3800 CHAR SECTION
2	(2)	BITSTRING	2	NDHAFLGS(0)	FLAGS AND MODIFIER
2	(2)	ADDRESS	1	NDHATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHAMOD	MODIFIER
		1...		NDHA$MOD	"B'10000000'" VALUE OF MODIFIER (3800 CHAR)
4	(4)	BITSTRING	1	NDHAFLG1	FLAGS
5	(5)	ADDRESS	1	NDHAFLCT	FLASH COUNT
6	(6)	BITSTRING	1	NDHATREF	TABLE REFERENCE CHARACTER
7	(7)	BITSTRING	1		RESERVED
8	(8)	CHARACTER	8	NDHATAB1	TRANSLATE TABLE 1
16	(10)	CHARACTER	8	NDHATAB2	TRANSLATE TABLE 2
24	(18)	CHARACTER	8	NDHATAB3	TRANSLATE TABLE 3
32	(20)	CHARACTER	8	NDHATAB4	TRANSLATE TABLE 4
40	(28)	CHARACTER	8	NDHAFLSH	FLASH CARTRIDGE ID
48	(30)	CHARACTER	8	NDHAMODF	COPY MODIFICATION ID
56	(38)	BITSTRING	8	NDHACPYG	COPY GROUPS
64	(40)	SIGNED	4	NDHAEND(0)	END OF 3800 CHAR SECTION
64	(40)	X'40'	0	NDHALLEN	"*-NDHA" LENGTH OF 3800 CHAR SECTION

Table 331. Structure NDHS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHS	START OF DATASTREAM SECT
0	(0)	ADDRESS	2	NDHSLEN	LEN OF DATA STREAM SECTION
2	(2)	BITSTRING	2	NDHSFLGS(0)	FLAGS AND MODIFIERS
2	(2)	ADDRESS	1	NDHSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHSMOD	MODIFIER
		....		NDHS$OUT	"B'00000000'" VALUE OF MODIFIER (OUTPUT)

Table 331. Structure NDHS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	2	NDHSFLEN	SUBSECTION FIXED LENGTH
6	(6)	BITSTRING	1	NDHSFLG1	DATA STREAM FLAG
		1...		NDHS1CPD	"B'10000000'" DATA SET HAS CPDS CHARA.
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	8	NDHSJDVT	JDVT NAME
16	(10)	BITSTRING	4	NDHSNSTR	PAGE DATA PAGE COUNT
20	(14)	BITSTRING	8	NDHSGPID	OUTPUT NAME FOR DATA SET
20	(14)	X'1C'	0	NDHSLEN2	"*-NDHS" LENGTH OF DATA STREAM SECTION
28	(1C)	SIGNED	2	NDHSSDAT(0)	START OF VARIABLE DATA FOR SWBS

Table 332. Structure NDHC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHC	START OF CHAR CHANGE SECT
0	(0)	ADDRESS	2	NDHCLEN	LENGTH OF CHAR CHANGE GENERAL SECT
2	(2)	BITSTRING	2	NDHCFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHCTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHCMOD	MODIFIER
		.1..		NDHC$MOD	"B'01000000'" VALUE OF MODIFIER (CHAR CHANGE)
4	(4)	BITSTRING	1	NDHCFLG1	FLAGS
5	(5)	BITSTRING	1	NDHCRCFM	RECFM
6	(6)	ADDRESS	2	NDHCLREC	MAXIMUM LRECL
8	(8)	SIGNED	4	NDHCEND(0)	END OF CHAR CHANGE GENERAL SECTION
8	(8)	X'8'	0	NDHCLLEN	"*-NDHC" LENGTH OF CHAR CHANGE GENERAL SECT

Table 333. Structure NDHT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHT	Start of Security Section
0	(0)	ADDRESS	2	NDHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NDHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NDHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NDHTMOD	Modifier
		....		NDHT$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NDHTLENP	Length of prefix sectn
6	(6)	ADDRESS	2		Reserved
8	(8)	CHARACTER	80	NDHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NDHTEND(0)	End of Security Section
88	(58)	X'58'	0	NDHTLLEN	"*-NDHT" Length of Security Section

Table 334. Structure NDHU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHU	START OF USER SECTION
0	(0)	ADDRESS	2	NDHULEN	LENGTH OF USER SECTION

Table 334. Structure NDHU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	2	NDHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NDHUMOD	MODIFIER --
		....		NDHU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NDHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NDHUCODE' & 'NDHUEND'
8	(8)	SIGNED	4	NDHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NDHULLEN	"*-NDHU" LENGTH OF USER SECTION

Table 335. Structure NDHO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHO	START OF SPOOL OFFLOAD SECT
0	(0)	ADDRESS	2	NDHOLEN	LENGTH OF SPOF SECTION
2	(2)	BITSTRING	2	NDHOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NDHOMOD	MODIFIER
		1...		NDHO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	CHARACTER	8	NDHOUSER	OWNING USERID
12	(C)	SIGNED	4	NDHOTIME	JOE CREATION TIME
16	(10)	SIGNED	4	NDHODSNO	FULLWORD DATA SET NUMBER
20	(14)	SIGNED	2	NDHOPRIO	PRIORITY OF DATA SET
22	(16)	BITSTRING	1	NDHOFLG1	Flags
		1...		NDHOF1SF	"B'10000000'" DS had store-and-forward token at time of offload
		.1..		NDHOF1NF	"B'01000000'" DS had local token at time of offload
23	(17)	BITSTRING	1		RESERVED FOR FUTURE USE
24	(18)	SIGNED	4	NDHOEND(0)	END OF JES2 SPOF SECTION
24	(18)	X'18'	0	NDHOLLEN	"*-NDHO" LENGTH OF SPOF SECTION

Table 336. Structure NDHOX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHOX	Start of TP offload section
0	(0)	ADDRESS	2	NDHOXLEN	Length of TP section
2	(2)	BITSTRING	2	NDHOXFGX(0)	Section type flags
2	(2)	ADDRESS	1	NDHOXTYP	Id for JES2 section
3	(3)	ADDRESS	1	NDHOXMOD	Modifier
		11..		NDHO$MTP	"B'11000000'" Value of modifier
4	(4)	BITSTRING	1	NDHOXFG1	DSCT flag byte 1
		1...		NDHOX1UN	"B'10000000'" Userid is undefined
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NDHOXJBN	Job name
16	(10)	CHARACTER	8	NDHOXWKD	Work unit identifier
24	(18)	BITSTRING	8	NDHOXEST	Entry start clock time

Table 336. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	8	NDHOXXST	Execution start clock time
40	(28)	SIGNED	4	NDHOXETS	Entry time in 1/100's sec
44	(2C)	SIGNED	4	NDHOXEDT	Entry date 00yydddf
48	(30)	CHARACTER	8	NDHOXUID	User identification field
56	(38)	CHARACTER	8	NDHOXTUD	Transaction Program Userid
64	(40)	CHARACTER	4	NDHOXACT	Account number
68	(44)	SIGNED	4	NDHOXEND(0)	END OF JES2 TP SPOF SECTION
68	(44)	X'44'	0	NDHOXLLN	"*-NDHOX" LENGTH OF TP SPOF SECTION
GENERAL SECTION, NDHGFLG1					
		1...		NDHGF1SP	"B'10000000'" SPIN DATA SET
		.1..		NDHGF1HD	"B'01000000'" HOLD DATA SET AT DESTINATION
		..1.		NDHGF1LG	"B'00100000'" JOB LOG INDICATOR
		...1		NDHGF1OV	"B'00010000'" PAGE OVERFLOW INDICATOR
		.... 1...		NDHGF1IN	"B'00001000'" PUNCH INTERPRET INDICATOR
		.... .1..		NDHGF1LC	"B'00000100'" NDHLINCT SET INDICATOR
		.... ..1.		NDHGF1ST	"B'00000010'" JOB STATISTICS IN JOB LOG
GENERAL SECTION,NDHGFLG2					
		1...		NDHGF2PR	"B'10000000'" DATASET IS BEING PRINTED
		.1..		NDHGF2PU	"B'01000000'" DATASET IS BEING PUNCHED
		..1.		NDHGF2RM	"B'00100000'" FIELD NDHGRMT CONTAINS TRUE REMOTE (NOT USERID)
		...1		NDHGF2HB	"B'00010000'" HOLD DATASET BEFORE PRINT OR PUNCH OPERATION
		.... 1...		NDHGF2HA	"B'00001000'" HOLD DATASET AFTER PRINT OR PUNCH OPERATION
		.... .1..		NDHGF2HX	"B'00000100'" Data set should be held at JES3 nodes for external writer. JES3 only.
		.... ..1.		NDHGF2TR	"B'00000010'" Truncate trailing blanks. JES3 only.
		1		NDHGF2NO	"B'00000001'" Non-printable SYSOUT data set. Contains internal control information.

Table 336. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
---------+----------+----------+----------+-------------------------
         | NDHGFLG1 | NDHGFLG2 | NDHGFLG2 | NOTE #1 -
 OUTDISP | NDHGF1HD | NDHGF2HB | NDHGF2HA | These bit
---------+----------+----------+----------| combinations only
 WRITE | 0 | 0 | 0 | occur when SYSOUT
---------+----------+----------+----------| created by a
 KEEP | #1 0 | 0 | 1 | version 4 system
---------+----------+----------+----------| is released by a
 WRITE | #1 0 | 1 | 0 | down level (pre
---------+----------+----------+----------| SP410) system.
 KEEP | #1 0 | 1 | 1 |
---------+----------+----------+----------|
 HOLD | #2 1 | 0 | 0 |
---------+----------+----------+----------| NOTE #2 -
 KEEP | 1 | 0 | 1 | This combination will
---------+----------+----------+----------| be considered as
 HOLD | 1 | 1 | 0 | OUTDISP = HOLD when
---------|----------+----------+----------| received from a down
 LEAVE | 1 | 1 | 1 | level node.
---------+----------+----------+----------+-------------------------
        GENERAL SECTION,NDHGUCSO
```

		1...		NDHGUCSD	"B'10000000'" BLOCK DATA CHECK OPTION
		.1..		NDHGUCSF	"B'01000000'" FOLD OPTION

```
        3800 CHARACTERISTICS GENERAL SECTION, NDHAFLG1
```

		1...		NDHAF1J	"B'10000000'" 'OPTCD=J' SPECIFIED
		.1..		NDHAF1BR	"B'01000000'" 'BURST=YES' SPECIFIED
		..1.		NDHAF1BN	"B'00100000'" 'BURST=NO' SPECIFIED
		.11.		NDHAF1BD	"B'01100000'" TEST 'BURST DEFAULT' BYTE REAL DEFAULT IS '.00.....'
68	(44)	X'7B8B'	0	NDHMAXLN	"(253-4)*127+4" Maximum size of dataset header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 337. Cross Reference for $NHD

Name	Offset	Hex Tag
HJHOOTSD	6C	40404040
HJHOSLGS	58	40404040
NDH	0	
NDHA	0	
NDHA$MOD	3	80
NDHACPYG	38	0
NDHAEND	40	
NDHAFLCT	5	
NDHAFLGS	2	
NDHAFLG1	4	0
NDHAFLSH	28	40404040
NDHAF1BD	44	60
NDHAF1BN	44	20
NDHAF1BR	44	40
NDHAF1J	44	80
NDHALEN	0	40
NDHALLEN	40	40

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHAMOD	3	
NDHAMODF	30	40404040
NDHATAB1	8	40404040
NDHATAB2	10	40404040
NDHATAB3	18	40404040
NDHATAB4	20	40404040
NDHATREF	6	0
NDHATYPE	2	
NDHC	0	
NDHC$MOD	3	40
NDHCEND	8	
NDHCFLGS	2	
NDHCFLG1	4	0
NDHCLEN	0	
NDHCLLEN	8	8
NDHCLREC	6	
NDHCMOD	3	
NDHCRCFM	5	0
NDHCTYPE	2	
NDHFLAGS	2	0
NDHG	4	
NDHG$MOD	7	0
NDHGCLAS	33	C1
NDHGDD	28	40404040
NDHGDSCT	3C	
NDHGDSNO	30	0
NDHGEND	78	
NDHGFCB	48	40404040
NDHGFCBI	3D	
NDHGFLGS	6	
NDHGFLG1	38	0
NDHGFLG2	68	0
NDHGFORM	40	40404040
NDHGF1HD	44	40
NDHGF1IN	44	8
NDHGF1LC	44	4
NDHGF1LG	44	20
NDHGF1OV	44	10
NDHGF1SP	44	80
NDHGF1ST	44	2
NDHGF2HA	44	8
NDHGF2HB	44	10
NDHGF2HX	44	4
NDHGF2NO	44	1
NDHGF2PR	44	80
NDHGF2PU	44	40

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHGF2RM	44	20
NDHGF2TR	44	2
NDHGLEN	4	
NDHGLLEN	78	74
NDHGLNCT	3E	
NDHGLREC	3A	0
NDHGMOD	7	
NDHGNAME	60	40404040
NDHGNODE	8	40404040
NDHGNREC	34	0
NDHGPMDE	6C	40404040
NDHGPROC	18	40404040
NDHGRCFM	39	0
NDHGRMT	10	40404040
NDHGSEC	32	
NDHGSEGN	74	0
NDHGSTEP	20	40404040
NDHGTYPE	6	
NDHGUCS	50	40404040
NDHGUCSD	44	80
NDHGUCSF	44	40
NDHGUCSO	69	0
NDHGXWTR	58	40404040
NDHLBCI	3	4
NDHLEN	0	
NDHLLEN	78	78
NDHMAXLN	44	7B8B
NDHO	0	
NDHO$MOD	3	80
NDHO$MTP	3	C0
NDHODSNO	10	0
NDHOEND	18	
NDHOFLGS	2	
NDHOFLG1	16	
NDHOF1NF	16	40
NDHOF1SF	16	80
NDHOLEN	0	
NDHOLLEN	18	18
NDHOMOD	3	
NDHOPRIO	14	0
NDHOTIME	C	0
NDHOTYPE	2	
NDHOUSER	4	40404040
NDHOX	0	
NDHOXACT	40	
NDHOXEDT	2C	

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHOXEND	44	
NDHOXEST	18	
NDHOXETS	28	
NDHOXFGX	2	
NDHOXFG1	4	
NDHOXJBN	8	
NDHOXLEN	0	
NDHOXLLN	44	44
NDHOXMOD	3	
NDHOXTUD	38	
NDHOXTYP	2	
NDHOXUID	30	
NDHOXWKD	10	
NDHOXXST	20	
NDHOX1UN	4	80
NDHS	0	
NDHS$OUT	3	0
NDHSEQ	3	0
NDHSFLEN	4	1C
NDHSFLGS	2	
NDHSFLG1	6	0
NDHSGPID	14	0
NDHSJDVT	8	0
NDHSLEN	0	
NDHSLEN2	14	1C
NDHSMOD	3	
NDHSNSTR	10	0
NDHSSDAT	1C	
NDHSTYPE	2	
NDHS1CPD	6	80
NDHT	0	
NDHT$MOD	3	0
NDHTEND	58	
NDHTFLGS	2	
NDHTLEN	0	
NDHTLENP	4	
NDHTLLEN	58	58
NDHTMOD	3	
NDHTTOKN	8	40404040
NDHTTYPE	2	
NDHU	0	
NDHU$MOD	3	0
NDHUCODE	4	40404040
NDHUEND	8	
NDHUFLGS	2	
NDHULEN	0	

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHULLEN	8	8
NDHUMOD	3	
NDHUTYPE	2	
NJH	0	
NJHA	0	
NJHA$MOD	3	0
NJHAFLEN	6	8
NJHAFLGS	2	
NJHAFLG1	4	
NJHAF1OV	4	80
NJHAJAC1	B	
NJHAJLEN	8	
NJHAJNR	A	
NJHALEN	0	
NJHAMOD	3	
NJHAOFFS	6	
NJHATYPE	2	
NJHE	0	
NJHE$JS	3	0
NJHEBYTE	8	0
NJHECLS8	C	40404040
NJHEEND	5C	
NJHEFLGS	2	
NJHELEN	0	
NJHELLEN	5C	5C
NJHEMOD	3	
NJHEOCOR	14	40404040
NJHEPAGE	4	0
NJHETYPE	2	
NJHEXSYS	54	
NJHFLAGS	2	0
NJHG	4	
NJHG$MOD	7	0
NJHGACCT	14	40404040
NJHGBLDG	C0	40404040
NJHGDEPT	B8	40404040
NJHGECRD	98	0
NJHGELIN	94	0
NJHGEND	D8	
NJHGETIM	90	0
NJHGETS	3C	0
NJHGFLGS	6	
NJHGFLG1	C	0
NJHGFORM	84	40404040
NJHGF1CA	C	4
NJHGF1CF	C	8

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHGF1DU	C	10
NJHGF1JN	C	40
NJHGF1NE	C	1
NJHGF1PE	C	2
NJHGF1PR	C	80
NJHGHOPS	12	0
NJHGICRD	8C	0
NJHGJCLS	A	C1
NJHGJCPY	F	
NJHGJID	8	0
NJHGJNAM	1C	40404040
NJHGJNO	CC	0
NJHGLEN	4	
NJHGLLEN	D8	D4
NJHGLNCT	10	
NJHGMCLS	B	C1
NJHGMOD	7	
NJHGNPAS	34	
NJHGNREC	C8	0
NJHGNTYN	D0	40404040
NJHGORGN	44	40404040
NJHGORGQ	E	
NJHGORGR	4C	40404040
NJHGORGU	D8	24
NJHGPASS	2C	
NJHGPRGN	9C	40404040
NJHGPRIO	D	
NJHGPRTN	64	40404040
NJHGPRTR	6C	40404040
NJHGPUNN	74	40404040
NJHGPUNR	7C	40404040
NJHGROOM	B0	40404040
NJHGTYPE	6	
NJHGUSID	24	40404040
NJHGXEQN	54	40404040
NJHGXEQU	5C	40404040
NJHLBCI	3	4
NJHLEN	0	
NJHLLEN	78	1E8
NJHMAXLN	78	7B8B
NJHO	0	
NJHO$AFF	3	C0
NJHO$MOD	3	80
NJHOCLAS	7	0
NJHOCLS8	70	40404040
NJHOCRTM	54	0

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHOCVSD	64	40404040
NJHODATE	C	0
NJHOEND	78	
NJHOEXSD	68	40404040
NJHOFLGS	2	
NJHOFLG1	4	0
NJHOFLG2	5	0
NJHOF1CV	78	4
NJHOF1HD	78	80
NJHOF1HO	78	40
NJHOF1MC	78	20
NJHOF1MH	78	8
NJHOF1MS	78	10
NJHOF2ED	78	20
NJHOF2PR	78	80
NJHOF2SD	78	40
NJHOLEN	0	
NJHOLLEN	78	78
NJHOMOD	3	
NJHOOJBN	38	
NJHOOJNO	20	0
NJHOPRIO	6	0
NJHOPRRM	2C	0
NJHOPRTN	24	40404040
NJHOPRTU	10	40404040
NJHOPUNN	2E	40404040
NJHOPUNU	18	40404040
NJHOPURM	36	0
NJHORDSD	60	40404040
NJHOSAF	22	0
NJHOSCHE	44	
NJHOSRVC	3C	
NJHOTIME	8	0
NJHOTYPE	2	
NJHOX	0	
NJHOXFGS	2	
NJHOXFG1	4	0
NJHOXLLN	A	E
NJHOXLN	0	
NJHOXMOD	3	
NJHOXOFF	6	
NJHOXSAF	A	0
NJHOXSAL	8	
NJHOXTYP	2	
NJHOX1IM	4	80
NJHOX1NY	4	40

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHSEQ	3	0
NJHT	0	
NJHT$MOD	3	0
NJHTEND	58	
NJHTFLGS	2	
NJHTFLG0	6	0
NJHTF0JB	6	80
NJHTLEN	0	
NJHTLENP	4	
NJHTLLEN	58	58
NJHTMOD	3	
NJHTTOKN	8	40404040
NJHTTYPE	2	
NJHU	0	
NJHU$MOD	3	0
NJHUCODE	4	40404040
NJHUEND	8	
NJHUFLGS	2	
NJHULEN	0	
NJHULLEN	8	8
NJHUMOD	3	
NJHUTYPE	2	
NJH2	0	
NJH2$MOD	3	0
NJH2$RSV	3	1
NJH2ACCT	8	40404040
NJH2ACML	2C	34
NJH2DFJG	3C	20
NJH2END	3C	
NJH2ERST	3C	20
NJH2ESMF	3C	80
NJH2ETRC	3C	10
NJH2EUSR	3C	8
NJH2FJOB	3C	3
NJH2FLGS	2	
NJH2FLG1	4	0
NJH2FLG2	5	0
NJH2FSTC	3C	1
NJH2FTSU	3C	2
NJH2GRP	1C	0
NJH2LEN	0	
NJH2LLEN	3C	3C
NJH2LNAM	34	0
NJH2MOD	3	
NJH2SGRP	2C	0
NJH2SUSR	24	0

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJH2TPO	3C	8
NJH2TYPE	2	
NJH2USE	3C	4
NJH2USID	C	40404040
NJH2USR	14	0
NJT	0	
NJT$ACCT	3	0
NJTFLAGS	2	0
NJTG	4	
NJTG$MOD	7	0
NJTGACPU	1C	0
NJTGACRD	24	0
NJTGALIN	20	0
NJTGAOPR	2F	
NJTGAXPR	2D	
NJTGCAB	30	80
NJTGCABN	30	5
NJTGCC	30	
NJTGCCAB	30	6
NJTGCCAN	30	4
NJTGCCC	30	40
NJTGCCNV	30	9
NJTGCECC	30	2
NJTGCEOM	30	8
NJTGCFLU	30	B
NJTGCJCL	30	3
NJTGCNRM	30	1
NJTGCODE	31	
NJTGCOMP	30	
NJTGCSEC	30	7
NJTGCSYS	30	A
NJTGCUNK	30	0
NJTGEND	34	
NJTGEXCP	28	0
NJTGFLGS	6	
NJTGFLG1	8	0
NJTGIOPR	2E	
NJTGIXPR	2C	
NJTGLEN	4	
NJTGLLEN	34	30
NJTGMOD	7	
NJTGSTOP	14	0
NJTGSTRT	C	0
NJTGTYPE	6	
NJTGXCLS	9	C1
NJTLBCI	3	4

Table 337. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJTLEN	0	
NJTLLEN	C	4C
NJTMAXLN	C	7B8B
NJTO	0	
NJTO$MOD	3	80
NJTODATE	8	0
NJTOEND	C	
NJTOFLGS	2	
NJTOLEN	0	
NJTOLLEN	C	C
NJTOMOD	3	
NJTOTIME	4	0
NJTOTYPE	2	
NJTS	0	
NJTSABYT	8	0
NJTSAPAG	4	0
NJTSEND	C	
NJTSEQ	3	0
NJTSFLGS	2	
NJTSLEN	0	
NJTSLLEN	C	C
NJTSMOD	3	
NJTSTYPE	2	
NJTU	0	
NJTU$MOD	3	0
NJTUCODE	4	40404040
NJTUEND	8	
NJTUFLGS	2	
NJTULEN	0	
NJTULLEN	8	8
NJTUMOD	3	
NJTUTYPE	2	
NTYPACCT	78	8D
NTYPASP	78	81
NTYPGDS	78	89
NTYPGEN	78	0
NTYPGJS	78	8A
NTYPHASP	78	82
NTYPJES1	78	83
NTYPJES2	78	84
NTYPJES3	78	85
NTYPPOWR	78	86
NTYPSAF	78	8C
NTYPSUB	78	80
NTYPUSER	78	C0
NTYPVNET	78	87

$NIT information

$NIT programming interface information

The following fields are **NOT** programming interface information:

- NITNSACT
- NITPASS
- NITSPASS

$NIT heading information

Common name:	Node Information Table
Macro ID:	$NIT
DSECT name:	NIT NITPSECT NITC NITC0
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	The pool of NITs is preceded by an eyecatcher '**$NIT POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage anywhere in the private storage of the JES2 address space.
Size:	NITMINL during JES2 initialization NITMINL plus NITPL*$NUMPATH (later) NITCSIZ for checkpointed NITs (NITCs)
Created by:	JES2 initialization
Pointed to by:	$NITABLE field of the $HCT data area $NITCPTR field of the $HCT data area $OWNNIT field of the $HCT data area NSANIT field of the $NSACT data area NITNXTSB field of the $NIT data area NITPLINE field of the $NIT data area NITPPNOD field of the $NIT data area NATPNIT field of the $NAT data area NATSNIT field of the $NAT data area
Serialization:	JES2 main task serialization for most fields. There are some fields that can only be used under the subtask in "full path" processing. $QSUSE is required to access the NITCs.
Function:	To define the nodes in the network this JES2 system is a part of, as well as the paths to those nodes. The NIT is a contiguous piece of virtual storage, with one element for each node ($MAXNODE during initialization, (NJEDEF NODENUM) after initialization). The correct length at any one time is in the $NITESIZ HCT field.

$NIT mapping

Table 338. Structure NIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NIT	
0	(0)	X'5'	0	NITVERS	"5" Current NIT version
0	(0)	CHARACTER	8	NITNODE	NODE IDENTIFICATION
8	(8)	SIGNED	2	NITNUM	INTERNAL NODE NUMBER (BINARY)
10	(A)	BITSTRING	1	NITPRINC	JOB RECEIVER PRIORITY INCREMENT
11	(B)	BITSTRING	1	NITPRLIM	JOB RECEIVER PRIORITY LIMIT
12	(C)	SIGNED	2	NITLOGN	LOGON DCT NUMBER

Table 338. Structure NIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	1	NITFLAG	FLAGS
		1...		NITFLAGE	"B'10000000'" SECURE signon required
		.1..		NITFLAGA	"B'01000000'" AUTO DIAL BSC LINE
		..1.		NITFLAGX	"B'00100000'" EXCLUSIVE CONNECTION
		.... 1...		NITFLAGR	"B'00001000'" NODE RESTRICTED FROM LOCAL COMMANDS
		.... .1..		NITFLAGJ	"B'00000100'" NODE RESTRICTED FROM JOB COMMANDS
		.... ..1.		NITFLAGD	"B'00000010'" NODE RESTRICTED FROM DEVICE COMMANDS
		1		NITFLAGS	"B'00000001'" NODE RESTRICTED FROM SYSTEM COMMANDS
15	(F)	BITSTRING	1	NITFLG2	Flag byte
		1...		NIT2NOPM	"B'10000000'" Nonpath manager indicator
		.1..		NIT2PRIV	"B'01000000'" Private node indicator
		..1.		NIT2TRAC	"B'00100000'" $TRACE this node
		...1		NIT2OWN	"B'00010000'" Local node indicator
		.... 1...		NIT2ADJ	"B'00001000'" Adjacent node indicator
		.... .1..		NIT2IRST	"B'00000100'" Ignore resistance from node if non-PM signon
		.... ..1.		NIT2ENDN	"B'00000010'" End node only indicator
		1		NIT2DIR	"B'00000001'" Only allow direct connection to node
16	(10)	BITSTRING	1	NITFLG3	Flag byte 3
		1...		NIT3HRDT	"B'10000000'" Node has STATUS=NODE RDT
		.1..		NIT3ANJE	"B'01000000'" Automatically start NJE
		..1.		NIT3NVRP	"B'00100000'" Dont verify path for jobs
		...1		NIT3J3LC	"B'00010000'" JES3 ROUTE XEQ local chk
17	(11)	BITSTRING	1	NITSF	SYSTEM CONDITION FLAGS
		1...		NITSFPJT	"B'10000000'" JOB TRANSMITTERS ARE DRAINED
		.1..		NITSFPJR	"B'01000000'" JOB RECEIVERS ARE DRAINED
		..1.		NITSFPST	"B'00100000'" SYSOUT TRANSMITTERS ARE DRAINED
		...1		NITSFPSR	"B'00010000'" SYSOUT RECEIVERS ARE DRAINED
		.... 1...		NITSFHJR	"B'00001000'" JOB RECEIVERS ARE TO HOLD JOBS
		.... .1..		NITSFHSR	"B'00000100'" SYSOUT RECEIVERS ARE TO HOLD JOBS
		.... ..1.		NITSFPEN	"B'00000010'" Use Password encryption
		1		NITSFREA	"B'00000001'" Node is currently reachable
18	(12)	SIGNED	2	NITANINT	Restart interval (minutes)
20	(14)	SIGNED	4	NITANTIM	Disconnect time (STCK)
24	(18)	CHARACTER	8	NITPASS	Password expected from node
32	(20)	CHARACTER	8	NITSPASS	Password sent to node

Table 338. Structure NIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	BITSTRING	1	NITCMPCT	COMPACTION TABLE ID
41	(29)	BITSTRING	1		Reserved
42	(2A)	SIGNED	2	NITREST	DEFAULT APPL RESISTANCE
44	(2C)	SIGNED	4	(0)	
44	(2C)	ADDRESS	4	NITNSACT	Ptr to related NSACT entry
48	(30)	ADDRESS	4	NITNXTSB	Ptr to next NIT in subnet
52	(34)	CHARACTER	8	NITSUBST	Subnet name
60	(3C)	CHARACTER	8	NITLMODE	Default VTAM logmode
68	(44)	SIGNED	2	NITLINE	Dedicated line number
70	(46)	SIGNED	2	NITNSRV	NJE Server number
70	(46)	X'48'	0	NITMINL	"*-NIT" Minimum (INIT) NIT elmt len
72	(48)	ADDRESS	4	NITNAT	Chain of related NATs
76	(4C)	CHARACTER	8	NITSECLB	SECLABEL of node (SDSF use)
The following 3 fields are used by full path.					
84	(54)	ADDRESS	4	NITNITPN	Next NIT in full path chain
88	(58)	ADDRESS	4	NITNITPP	Prev NIT in full path chain
92	(5C)	ADDRESS	4	NITBNITP	Addr of best unexplored NPMNITP
96	(60)	ADDRESS	4	NITRESV3	Reserved for future use
96	(60)	X'64'	0	NITBLEN	"*-NIT" Length of the base NIT
100	(64)	BITSTRING	1	NITPATH1	First path information

Table 339. Structure NITPSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITPSECT	INDIVIDUAL PATH FIELDS
0	(0)	ADDRESS	4	NITPLINE	Associated DCT or NIT
0	(0)	X'0'	0	NITL	"NITPLINE-NITPSECT,4" Offset for line
4	(4)	ADDRESS	4	NITPREST	PATH RESISTANCE
4	(4)	X'4'	0	NITR	"NITPREST-NITPSECT,4" Offset for resistance
4	(4)	BITSTRING	0	NITPMT	"X'7FFFFFFF'" Indicate empty path
8	(8)	ADDRESS	4	NITPPNOD	Addr of prev NIT in path
12	(C)	BITSTRING	1	NITPFLAG	Flag byte
		1...		NITPFSTA	"B'10000000'" Path is via static connect
		.1..		NITPFNIT	"B'01000000'" NITPLINE points to a NIT
		..1.		NITPFSUB	"B'00100000'" Path is through a subnet
13	(D)	BITSTRING	1	NITPMEMB	Member number if NITPFSTA is set
13	(D)	X'D'	0	NITM	"NITPMEMB-NITPSECT,1" Offset for member
14	(E)	BITSTRING	1	NITPMEMP	Member with primary line
14	(E)	X'E'	0	NITMP	"NITPMEMP-NITPSECT,1" Offset for primary member
15	(F)	BITSTRING	1		Reserved for future use

Table 339. Structure NITPSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Line and node IDs (indexes) shadowed from DCT or NIT pointed to by NITPLINE.			
16	(10)	SIGNED	2	NITPLNID	DCT or NIT id
18	(12)	SIGNED	2	NITPNDID	Intermediate node id (MDCTNODE from DCT)
20	(14)	SIGNED	4	(0)	Ensure fullword allignment
20	(14)	X'14'	0	NITPL	"*-NITPSECT"
20	(14)	X'0'	0	NITP	"NITPSECT,NITPL" Path element
20	(14)	X'14'	0	NITPNEXT	"*"

Table 340. Structure NITC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITC	Checkpointed NIT
0	(0)	X'1'	0	NITCVRSN	"1" Current NITC version
0	(0)	CHARACTER	8	NITCNAME	Node name
8	(8)	CHARACTER	8	NITCSUB	SUBNET name
16	(10)	BITSTRING	4	NITCACAF	Mask of systems that have a path to this node
20	(14)	BITSTRING	1	NITCFLG1	Flags
		1...		NITCF1NP	"B'10000000'" PATHMGR=NO
		.1..		NITCF1EN	"B'01000000'" ENDNODE=YES
		..1.		NITCF1PV	"B'00100000'" PRIVATE=YES
		...1		NITCF1DI	"B'00010000'" DIRECT=YES
		.... 1...		NITCF1VP	"B'00001000'" VFYPATH=NO
		.... .1..		NITCF1PE	"B'00000100'" PENCRYPT=YES
		.... ..1.		NITCF1LC	"B'00000010'" JES3_LOCAL_CHK=YES
21	(15)	BITSTRING	3		Reserved
24	(18)	ADDRESS	4	(2)	Reserved
32	(20)	DBL WORD	8	(0)	Doubleword align
32	(20)	X'20'	0	NITCSIZ	"*-NITC" Length of a NITC

Table 341. Structure NITC0

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITC0	Checkpointed NIT 0
0	(0)	SIGNED	4	NITC0SEQ	Changes sequence

Table 342. Cross Reference for $NIT

Name	Offset	Hex Tag
NIT	0	
NITANINT	12	
NITANTIM	14	
NITBLEN	60	64
NITBNITP	5C	
NITC	0	
NITCACAF	10	

Table 342. Cross Reference for $NIT (continued)

Name	Offset	Hex Tag
NITCFLG1	14	
NITCF1DI	14	10
NITCF1EN	14	40
NITCF1LC	14	2
NITCF1NP	14	80
NITCF1PE	14	4
NITCF1PV	14	20
NITCF1VP	14	8
NITCMPCT	28	0
NITCNAME	0	
NITCSIZ	20	20
NITCSUB	8	
NITCVRSN	0	1
NITC0	0	
NITC0SEQ	0	
NITFLAG	E	
NITFLAGA	E	40
NITFLAGD	E	2
NITFLAGE	E	80
NITFLAGJ	E	4
NITFLAGR	E	8
NITFLAGS	E	1
NITFLAGX	E	20
NITFLG2	F	
NITFLG3	10	
NITL	0	0
NITLINE	44	
NITLMODE	3C	
NITLOGN	C	
NITM	D	D
NITMINL	46	48
NITMP	E	E
NITNAT	48	
NITNITPN	54	
NITNITPP	58	
NITNODE	0	40404040
NITNSACT	2C	
NITNSRV	46	
NITNUM	8	0
NITNXTSB	30	
NITP	14	0
NITPASS	18	40404040
NITPATH1	64	
NITPFLAG	C	0
NITPFNIT	C	40
NITPFSTA	C	80

Table 342. Cross Reference for $NIT (continued)

Name	Offset	Hex Tag
NITPFSUB	C	20
NITPL	14	14
NITPLINE	0	
NITPLNID	10	
NITPMEMB	D	
NITPMEMP	E	
NITPMT	4	FFFFFF
NITPNDID	12	
NITPNEXT	14	14
NITPPNOD	8	
NITPREST	4	
NITPRINC	A	0
NITPRLIM	B	F
NITPSECT	0	
NITR	4	4
NITREST	2A	
NITRESV3	60	
NITSECLB	4C	
NITSF	11	
NITSFHJR	11	8
NITSFHSR	11	4
NITSFPEN	11	2
NITSFPJR	11	40
NITSFPJT	11	80
NITSFPSR	11	10
NITSFPST	11	20
NITSFREA	11	1
NITSPASS	20	40404040
NITSUBST	34	
NITVERS	0	5
NIT2ADJ	F	8
NIT2DIR	F	1
NIT2ENDN	F	2
NIT2IRST	F	4
NIT2NOPM	F	80
NIT2OWN	F	10
NIT2PRIV	F	40
NIT2TRAC	F	20
NIT3ANJE	10	40
NIT3HRDT	10	80
NIT3J3LC	10	10
NIT3NVRP	10	20

$NJTWORK information

$NJTWORK programming interface information

$NJTWORK is a programming interface.

$NJTWORK heading information

Common name: JES2 Job Transmitter PCE Work Area

Macro ID: $NJTWORK

DSECT name: PCE ($NJTWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol JTWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $NJTPCE field of the $HCT data area
$OJTPCE field of the $HCT data area
$NRTPCE field of the $HCT data area
DCTPCE field of the $DCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. $NJTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NJTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENJTID or PCENRTID in the second byte of field PCEID.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NJTWORK mapping

Table 343. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	8	JTWKEY(0)	JOB AND DATA SET KEYS
328	(148)	BITSTRING	4	JTWJBKEY	JOB IDENTIFIER KEY
332	(14C)	BITSTRING	4	JTWDSKEY	DATA SET KEY
336	(150)	DBL WORD	8	JTWEXTPL	$EXTP PARAMETER LIST AREA
344	(158)	BITSTRING	1	JTWRSRCB	SRCB SAVED FOR ROUTE RECEIVER
345	(159)	BITSTRING	1	JTWRECTP	Saved spanned record type
346	(15A)	SIGNED	2	JTWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
348	(15C)	SIGNED	4	JTWCOUNT	COUNT OF RECORDS TRANSMITTED
352	(160)	ADDRESS	4	JTWSBUF	SMF BUFFER POINTER
356	(164)	ADDRESS	4	JTWDSBUF	JCL/SYSIN data buffer
360	(168)	DBL WORD	8	JTWCWKAR(0)	Common Work area

Table 343. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
JTWRECCT and JTWCURRC are for SDSF's use					
360	(168)	X'1C4'	0	JTWRECCT	"(JTWRCOUN-JTW)+JTWCWKAR" Total record count
360	(168)	X'1C8'	0	JTWCURRC	"(JTWCUREC-JTW)+JTWCWKAR" Current record count
824	(338)	DBL WORD	8		Reserved
832	(340)	ADDRESS	4	JTWPARM	NODE TABLE ADDRESS
836	(344)	ADDRESS	4		CONTROL BLOCK ADDRESS
840	(348)	ADDRESS	4		ADDRESS OF JQE
844	(34C)	ADDRESS	1		QUEUE TYPE SPECIFIED
845	(34D)	ADDRESS	1		WORK SELECTION TYPE FLAG
846	(34E)	ADDRESS	1		Response byte flags
847	(34F)	ADDRESS	1		Reserved
847	(34F)	X'340'	0	JTWLST	"JTWPARM,*-JTWPARM" QGET PARAMETER LIST STORAGE
847	(34F)	X'208'	0	JTWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 344. Cross Reference for $NJTWORK

Name	Offset	Hex Tag
JTWCOUNT	15C	
JTWCURRC	168	1C8
JTWCWKAR	168	
JTWDSBUF	164	
JTWDSKEY	14C	
JTWEXTPL	150	
JTWHDRLN	15A	
JTWJBKEY	148	
JTWKEY	148	
JTWLST	34F	340
JTWPARM	340	
JTWPCEWS	34F	208
JTWRECCT	168	1C4
JTWRECTP	159	
JTWRSRCB	158	
JTWSBUF	160	
PCE	0	

$NPIPARM information

$NPIPARM heading information

Common name: HASPNSNR Parameter list

Macro ID: $NPIPARM

DSECT name: NPISPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: any
Key: 1
Residency: Private storage, Virtual storage below 2GB, real storage antwhere

Size: See NPIPARML

Created by: Callers of HASPNDCN service

Pointed to by:

Serialization: JES2 Main Task

Function: Parameter list for HASPNDCN service in HASPNPM

$NPIPARM mapping

Table 345. Structure NPISPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NPISPARM	
0	(0)	CHARACTER	8	NPIPLPAS	LINE PASSWORD
8	(8)	CHARACTER	8	NPIPNPAS	NODE PASSWORD
16	(10)	ADDRESS	4	NPINITA	Other node's NIT address
16	(10)	X'14'	0	NPIPARML	"*-NPISPARM"

$NRMWORK information

$NRMWORK heading information

Common name: Network Resource Monitor Work Area

Macro ID: $NRMWORK

DSECT name: PCE ($NRMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol NRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $NRMPCE field of the $HCT data area points to Network Resource Monitor PCE.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Network Resource Monitor Processor and by its support routines and exits. $NRMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NRMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENRMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$NRMWORK mapping

Table 346. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	
328	(148)	DBL WORD	8	NRMCTIME	Current time
336	(150)	DBL WORD	8	NRMWTIME	Next wakeup time
344	(158)	BITSTRING	1	NRMFLAG1	Flags
		1...		NRM1CONN	"B'10000000'" Attempting auto-connect
		.1..		NRM1PAWS	"B'01000000'" Pause to let current request complete
		..1.		NRM1DBYP	"B'00100000'" Device start scan bypassed
345	(159)	BITSTRING	1	NRMBMDSP	$BLDMSG DISPER value
346	(15A)	SIGNED	2	NRMANINT	Temporary interval value
348	(15C)	BITSTRING	12	NRMTQE	NRM TQE
360	(168)	DBL WORD	8	NRMDWORK	Work area
	Current control blocks				
368	(170)	ADDRESS	4	NRMNIT	Current NIT address
372	(174)	ADDRESS	4	NRMSCK	Current SCK address
376	(178)	ADDRESS	4	NRMAPT	Current APT address
380	(17C)	ADDRESS	4	NRMLNDCT	Current Line DCT address
384	(180)	ADDRESS	4	NRMLGDCT	Current Logon DCT address
388	(184)	ADDRESS	4	NRMNSDCT	Current NETSRV DCT address
388	(184)	X'170'	0	NRMCBS	"NRMNIT,*-NRMNIT" All control blocks
	SNASNET parms				
392	(188)	SIGNED	4	NRMSSNET(0)	
392	(188)	SIGNED	4	NRMSSNLN	Line address
396	(18C)	SIGNED	4	NRMSSNNM	APPL id address
400	(190)	SIGNED	4	NRMSSNMG	Returned message address
	TCPSNET parms				
404	(194)	SIGNED	4	NRMTSNET(0)	
404	(194)	SIGNED	4	NRMTSNLN	Line address
408	(198)	SIGNED	4	NRMTSNNM	SOCKET name address
412	(19C)	SIGNED	4	NRMTSNMG	Returned message address
	HASPNSNR parms				
416	(1A0)	BITSTRING	20	NRMNSNRP	HASPNSNR pams
436	(1B4)	SIGNED	4	NRMBLDM(0)	Control block ID
440	(1B8)	BITSTRING	4		Console ID
444	(1BC)	ADDRESS	4		Address of the CART
448	(1C0)	ADDRESS	4		Pointer for JOBID
452	(1C4)	ADDRESS	4		Control block address
456	(1C8)	ADDRESS	4		Display routine address
460	(1CC)	ADDRESS	4	(6)	6 word work area

Table 346. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
484	(1E4)	ADDRESS	4		Caller's R11 value
488	(1E8)	BITSTRING	2		ROUT code for Message
490	(1EA)	BITSTRING	2		Not used
492	(1EC)	CHARACTER	4		Message ID
496	(1F0)	CHARACTER	1		Separator character
497	(1F1)	ADDRESS	1		Flag byte 1
498	(1F2)	ADDRESS	1		'DISPER'
499	(1F3)	ADDRESS	1		Flag byte 2
500	(1F4)	ADDRESS	1		Flag byte 3
501	(1F5)	ADDRESS	1		Severity of message
502	(1F6)	CHARACTER	8		Symbolic name of dest.
510	(1FE)	BITSTRING	14		Not used
524	(20C)	ADDRESS	4	(0)	Ensure multiple of 4
524	(20C)	ADDRESS	2	(0)	
524	(20C)	CHARACTER	132	NRMMSG	Returned message area
656	(290)	DBL WORD	8	(0)	Ensure alignment
656	(290)	X'148'	0	NRMPCEWS	"*-PCEWORK"

Table 347. Cross Reference for $NRMWORK

Name	Offset	Hex Tag
NRMANINT	15A	
NRMAPT	178	
NRMBLDM	1B4	C2D3C440
NRMBMDSP	159	
NRMCBS	184	170
NRMCTIME	148	
NRMDWORK	168	
NRMFLAG1	158	
NRMLGDCT	180	
NRMLNDCT	17C	
NRMMSG	20C	
NRMNIT	170	
NRMNSDCT	184	
NRMNSNRP	1A0	
NRMPCEWS	290	148
NRMSCK	174	
NRMSSNET	188	
NRMSSNLN	188	
NRMSSNMG	190	
NRMSSNNM	18C	
NRMTQE	15C	
NRMTSNET	194	
NRMTSNLN	194	
NRMTSNMG	19C	
NRMTSNNM	198	

Table 347. Cross Reference for $NRMWORK (continued)

Name	Offset	Hex Tag
NRMWTIME	150	
NRM1CONN	158	80
NRM1DBYP	158	20
NRM1PAWS	158	40
PCE	0	

$NSACT information

$NSACT programming interface information

$NSACT is a programming interface.

$NSACT heading information

Common name: Network Subnet AnChor Table entry

Macro ID: $NSACT

DSECT name: NSACT

Owning component: JES2 (SC1BH)

Eye-catcher ID: NSA
Offset: NSAID-NSACT
Length: L'NSAID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual storage can be anywhere in 31 bit storage.
Real storage can be anywhere in 64 bit storage.

Size: See NSALEN

Created by: NSETSUBS routine in HASPNPM

Pointed to by: PCTNSAAQ fields of the PCT data area
NSANEXT fields of the NSACT data area

Serialization: Normal PCE dispatch serialization

Function: The NSACT is a linked list of the subnets currently defined to the system and a pointer to a list of NITs describing the members of that subnet.

$NSACT mapping

Table 348. Structure NSACT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1'	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18'	0	NSALEN	"*-NSACT" Length of an NSACT

$NSCT information

$NSCT heading information

Common name:	NJE Server Control Table
Macro ID:	$NSCT
DSECT name:	NSCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'NSCT' Offset: NSCID-NSC Length: 4
Storage attributes:	Subpool: n/a Key: 1 Residency: In a JES2 NJE Server address space
Size:	See NSCTLEN
Created by:	HASCNJAS
Pointed to by:	NSSNSCT field of the $NSST data area NSWNSCT field of the $NSWE data area TCTJSDTA field of the IAZYTCT data area
Serialization:	
Function:	Anchors the main parameters in a JES2 NJE Server address space

$NSCT mapping

Table 349. Structure NSCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSCT	
0	(0)	CHARACTER	4	NSCID	NSCT eyecatcher
4	(4)	ADDRESS	1	NSCVER	NSCT version number
4	(4)	X'1'	0	NSCVERN	"1" NSCT version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSCSPCL	PCL address of server PCL
12	(C)	ADDRESS	4	NSCHCCT	HCCT address
16	(10)	ADDRESS	4	NSCTCT	IAZYTCT address
20	(14)	ADDRESS	4	NSCPALET	ALET for PCL data space
24	(18)	ADDRESS	4	NSCTALET	ALET for TBUF data space
28	(1C)	ADDRESS	4	NSCNALET	ALET for NIT data space
32	(20)	SIGNED	4	NSCTECB	ECB
36	(24)	BITSTRING	3	NSCDEVID	Device id of server
39	(27)	BITSTRING	1		Reserved
40	(28)	BITSTRING	4		Reserved
44	(2C)	ADDRESS	4	NSCNSSTH	Head of NSST chain
48	(30)	ADDRESS	4	NSCNSSTT	Tail of NSST chain
52	(34)	ADDRESS	4	NSCNSWEH	Head of subtask chain
56	(38)	ADDRESS	4	NSCNSWET	Tail of subtask chain
60	(3C)	ADDRESS	4	NSCGPWEH	Head of GP subtask chain
64	(40)	ADDRESS	4	NSCGPWET	Tail of GP subtask chain
68	(44)	ADDRESS	4	NSCGPQEH	Head of GP subtask work q
72	(48)	ADDRESS	4	NSCGPQET	Tail of GP subtask work q
76	(4C)	ADDRESS	4	NSCNCPE	Address of POST element

Table 349. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	ADDRESS	2	NSCGPCNT(2)	Initial/current subtask counts for GP subtasks
84	(54)	ADDRESS	2	NSCRQCNT(2)	Initial/current subtask counts for request subtask
88	(58)	ADDRESS	4	NSCBUFQ	Buffers queued for garbage collection
92	(5C)	SIGNED	4	NSCGPECB	GP subtask restart ECB
96	(60)	ADDRESS	4	(6)	Reserved
120	(78)	DBL WORD	8	NSCDWORK	Doubleword work area
128	(80)	SIGNED	4	NSCTSAVE(18)	Save area for init routine and server main task
200	(C8)	BITSTRING	600	NSCTTRCA	TRCA
800	(320)	DBL WORD	8	NSCTWORK(0)	Working storage
	Parameter list for ESTAEX macro				
800	(320)	SIGNED	4	(0)	
800	(320)	ADDRESS	1	NSCESTAE	FLAGS FOR ESTAEX
801	(321)	ADDRESS	1		SECOND FLAG BYTE
802	(322)	ADDRESS	1		THIRD FLAG BYTE
803	(323)	ADDRESS	1		VERSION NUMBER
804	(324)	ADDRESS	4		TOKEN VALUE AREA
808	(328)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
812	(32C)	ADDRESS	4		ALET FOR PARM LIST
816	(330)	ADDRESS	4		EXIT ADDR NOT SPECD
816	(330)	X'14'	0	NSCESTLN	"*-NSCESTAE" Length of list form
	Parameter list for IDENTIFY macro				
800	(320)	SIGNED	4	NSCIDENT(0)	IDENTIFY parm list (see IEAVID00 for details)
800	(320)	ADDRESS	4	NSCID_ADDR	Entry address
804	(324)	CHARACTER	8	NSCID_NAME	Entry name
812	(32C)	BITSTRING	1	NSCID_AMODE	AMODE indicator (X'02' --> 31 bit)
813	(32D)	BITSTRING	3		Reserved
816	(330)	SIGNED	4	NSCID_XTLNG	Length of the extent list
820	(334)	SIGNED	4	NSCID_XTCNT	Number of extents
824	(338)	SIGNED	4	NSCID_XTLEN	Length of extent
828	(33C)	ADDRESS	4	NSCID_XTADR	Start of 1st extent
828	(33C)	X'10'	0	NSCID_XTSIZ	"*-NSCID_XTLNG" Length of extent list area
	Parameter list for STIMERM macro				
800	(320)	ADDRESS	4	NSCDECBL(2)	ECB list
808	(328)	SIGNED	4	NSCDSTID	STIMERM ID=id-area
812	(32C)	SIGNED	4	NSCDTECB	STIMER ECB
	MACDATE = 08/19/88				
816	(330)	BITSTRING	24	NSCDSTMS	REMOTE STIMERM SET PARM LIST

Table 349. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	MACDATE = 08/19/88				
840	(348)	BITSTRING	16	NSCDSTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
	Parameter list for ENFREQ macro				
800	(320)	ADDRESS	4	NSCEECBL(2)	ECB list
808	(328)	SIGNED	4	NSCETOKN	Token for ENFREQ DELETE
812	(32C)	SIGNED	4	NSCENFPT	ENFPTR equated to this
816	(330)	SIGNED	4	NSCENFRQ(0)	START OF ENF PARAMETER LIST
816	(330)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
818	(332)	ADDRESS	2		REQUESTED ENF ACTION
820	(334)	ADDRESS	4		EVENT CODE
824	(338)	ADDRESS	1		FLAG FIELD
825	(339)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
826	(33A)	ADDRESS	1		KEY FOR FREEPRM
827	(33B)	ADDRESS	1		SUBPOOL FOR FREEPRM
828	(33C)	ADDRESS	4		QUALIFIER
832	(340)	ADDRESS	4		EXIT ROUTINE ADDRESS
836	(344)	ADDRESS	4		Address of caller's parameters
840	(348)	ADDRESS	4		TOKEN
844	(34C)	ADDRESS	4		Length of caller's parameters
848	(350)	ADDRESS	2		VERSION OF PARM LIST
850	(352)	ADDRESS	2		RESERVED FIELD
852	(354)	ADDRESS	4		RETURN ADDRESS
856	(358)	CHARACTER	8		ESTABLISHER NAME
864	(360)	CHARACTER	8		LISTEN EXIT NAME
872	(368)	ADDRESS	4		LISTENER NUMBER (RETURNED)
876	(36C)	CHARACTER	4		SPECIAL EXIT RETURN CODE
880	(370)	BITSTRING	32		Bit-mapped qualifier
912	(390)	ADDRESS	1		Flag byte
913	(391)	BITSTRING	3		Reserved
916	(394)	ADDRESS	4		Reserved
916	(394)	X'68'	0	NSCENFLN	"*-NSCENFRQ"
	WTO parameter list				
1056	(420)	SIGNED	4	NSCWTOPL(0)	
1056	(420)	ADDRESS	2		TEXT LENGTH
1058	(422)	BITSTRING	2		MCSFLAGS
1060	(424)	CHARACTER	53		
1185	(4A1)	ADDRESS	1		VERSION LEVEL
1186	(4A2)	BITSTRING	1		MISCELLANEOUS FLAGS
1187	(4A3)	ADDRESS	1		REPLY LENGTH
1188	(4A4)	ADDRESS	1		LENGTH OF WPX
1189	(4A5)	BITSTRING	2		EXTENDED MCS FLAGS
1191	(4A7)	ADDRESS	2		RESERVED

Table 349. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1193	(4A9)	ADDRESS	4		REPLY BUFFER ADDRESS
1197	(4AD)	ADDRESS	4		REPLY ECB ADDRESS
1201	(4B1)	ADDRESS	4		CONNECT ID
1205	(4B5)	BITSTRING	2		DESCRIPTOR CODES
1207	(4B7)	ADDRESS	2		RESERVED
1209	(4B9)	BITSTRING	16		
1225	(4C9)	BITSTRING	2		MESSAGE TYPE
1227	(4CB)	ADDRESS	2		MESSAGE'S PRIORITY
1229	(4CD)	CHARACTER	8		JOB ID
1237	(4D5)	CHARACTER	8		JOB NAME
1245	(4DD)	CHARACTER	8		RETRIEVAL KEY
1253	(4E5)	ADDRESS	4		TOKEN FOR DOM
1257	(4E9)	ADDRESS	4		CONSOLE ID
1261	(4ED)	CHARACTER	8		SYSTEM NAME
1269	(4F5)	CHARACTER	8		CONSOLE NAME
1277	(4FD)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1281	(501)	ADDRESS	4		CART ADDRESS
1285	(505)	ADDRESS	4		WSPARM ADDRESS
1285	(505)	X'509'	0	NSCTLEN	"*-NSCT" Length of NSCT

Table 350. Cross Reference for $NSCT

Name	Offset	Hex Tag
NSCBUFQ	58	
NSCDECBL	320	
NSCDEVID	24	
NSCDSTID	328	
NSCDSTMC	348	0
NSCDSTMS	330	0
NSCDTECB	32C	
NSCDWORK	78	
NSCEECBL	320	
NSCENFLN	394	68
NSCENFPT	32C	
NSCENFRQ	330	
NSCESTAE	320	
NSCESTLN	330	14
NSCETOKN	328	
NSCGPCNT	50	0
NSCGPECB	5C	
NSCGPQEH	44	
NSCGPQET	48	
NSCGPWEH	3C	
NSCGPWET	40	
NSCHCCT	C	
NSCID	0	D5E2C3E3

Table 350. Cross Reference for $NSCT (continued)

Name	Offset	Hex Tag
NSCID_ADDR	320	
NSCID_AMODE	32C	
NSCID_NAME	324	
NSCID_XTADR	33C	
NSCID_XTCNT	334	
NSCID_XTLEN	338	
NSCID_XTLNG	330	
NSCID_XTSIZ	33C	10
NSCIDENT	320	
NSCNALET	1C	
NSCNCPE	4C	
NSCNSSTH	2C	
NSCNSSTT	30	
NSCNSWEH	34	
NSCNSWET	38	
NSCPALET	14	
NSCRQCNT	54	0
NSCSPCL	8	
NSCT	0	
NSCTALET	18	
NSCTCT	10	
NSCTECB	20	
NSCTLEN	505	509
NSCTSAVE	80	
NSCTTRCA	C8	
NSCTWORK	320	
NSCVER	4	
NSCVERN	4	1
NSCWTOPL	420	

$NSRWORK information

$NSRWORK programming interface information

$NSRWORK is a programming interface.

$NSRWORK heading information

Common name: JES2 SYSOUT Receiver PCE Work Area

Macro ID: $NSRWORK

DSECT name: PCE ($NSRWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SRWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $NSRPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Network SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
The $OSRPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Offload SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
The DCTPCE field of the $DCT data area (see "Function" below)

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Network SYSOUT Receiver or by an Offload SYSOUT Receiver Processor and by its support routines and exits. $NSRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NSRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSRID in the second byte of field PCEID.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NSRWORK mapping

Table 351. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	X'148'	0	SRWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
328	(148)	BITSTRING	1	SRWSRCB	SRCB OF RECIEVED RECORD
329	(149)	SIGNED	1	SRWRETRY	IDENTIFIES RETRY POINT TO SET IF AN ABEND OCCURS
329	(149)	X'0'	0	SRWRSUSP	"0" RETRY TO SUSPEND RECEIVER
329	(149)	X'1'	0	SRWRCANC	"1" RETRY TO CANCEL CURRENT JOB
330	(14A)	SIGNED	1	SRWRETSV	PLACE TO SAVE CURRENT RETRY POINT INDICATOR
331	(14B)	BITSTRING	10		RESERVED
344	(158)	ADDRESS	4	SRWIOT1	1ST (ALLOCATION) IOT POINTER
348	(15C)	ADDRESS	4	SRWIOTC	CURRENT IOT POINTER
352	(160)	ADDRESS	4	SRWENIOT	END-OF-CURRENT-IOT POINTER
356	(164)	ADDRESS	4	SRWIOTCN	LAST NORMAL IOT ADDRESS
360	(168)	ADDRESS	4	SRWIOTSH	LAST SPIN IOT ADDRESS
364	(16C)	ADDRESS	4	SRWHMTTR	MTTR OF BUFFER 1
368	(170)	ADDRESS	4	SRWHDSAV	SAVE AREA FOR BUFFER DISPL
372	(174)	ADDRESS	4	SRWSCRPT	SCR ENTRY POINTER
376	(178)	ADDRESS	4	SRWSCRST	SCR START ADDRESS
380	(17C)	ADDRESS	4	SRWENBUF	END-OF-BUFFER POINTER
384	(180)	ADDRESS	4	SRWENREC	END-OF-INPUT-RECORD POINTER
388	(184)	ADDRESS	4	SRWNXTRC	POINTER TO NEXT REC IN BUFFER

Table 351. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	ADDRESS	4	SRWPREVR	POINTER TO RECORD HEADER OF CURRENT SPANNED RECORD SEGMENT
396	(18C)	ADDRESS	4	SRWGGST	ADDRESS OF GROUPING STRINGS OBJECT
400	(190)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
400	(190)	CHARACTER	8	SRWRSBTL	SWBTU POINTER LIST ENTRY FOR SWBTUREQ RETRIEVE SERVICE
408	(198)	BITSTRING	8	SRWTABSV	MASTER TAB SAVE AREA
416	(1A0)	SIGNED	4	SRWTSAVE(6)	TEMPORARY SAVE AREA
440	(1B8)	BITSTRING	1	SRWTXTLN	TEXT LENGTH SAVE AREA
441	(1B9)	BITSTRING	1	SRWMVCLN	EXECUTE-MOVE LENGTH FOR TEXT
442	(1BA)	SIGNED	2	SRWSRTL	CUMULATIVE SEGMENT LENGTH
444	(1BC)	SIGNED	2	SRWSTXTL	TOTAL SPAN TEXT LENGTH
446	(1BE)	BITSTRING	2		Reserved for future use
448	(1C0)	SIGNED	8	SRWRECN	Basic data set record count
456	(1C8)	SIGNED	4	SRWCOUNT	COUNT OF RECORDS RECEIVED
460	(1CC)	ADDRESS	4	SRWSBUF	SMF BUFFER POINTER
464	(1D0)	SIGNED	4	SRWROUTE	Route cd for work selection
468	(1D4)	CHARACTER	8	SRWUSER	User ID for work selection
476	(1DC)	BITSTRING	1		Reserved for future use
476	(1DC)	X'95'	0	SRWINITL	"*-SRWINIT" LENGTH FOR INITIAL CLEAR
480	(1E0)	DBL WORD	8	SRWCWKAR(0)	Common work area
	SRWRECCT and SRWCURRC are for SDSF's use				
480	(1E0)	X'23C'	0	SRWRECCT	"(SRWRCOUN-SRW)+SRWCWKAR" Total record count
480	(1E0)	X'240'	0	SRWCURRC	"(SRWCUREC-SRW)+SRWCWKAR" Current record count
	INPUT AREA FOR RTAM RECORDS				
1240	(4D8)	SIGNED	2		ALIGNMENT + SCAN TERMINATOR
1242	(4DA)	BITSTRING	274	SRWINPUT	Input Data Area
	NORMAL (UNSPANNED) RECORD First mapping of SRWINPUT				
1242	(4DA)	BITSTRING	1	SRWLRECL	LOGICAL RECORD LENGTH
1243	(4DB)	BITSTRING	1	SRWCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1243	(4DB)	X'4DC'	0	SRWTEXT	"*" TEXT
1243	(4DB)	X'2'	0	SRWLEN1	"*-SRWINPUT"
	Second mapping of SRWINPUT Spanned record (first part)				
1242	(4DA)	BITSTRING	1	SRWSEGL	TEXT LENGTH, THIS SEGMENT
1243	(4DB)	SIGNED	2	SRWSRECL	LRECL FOR ENTIRE SPANNED RECORD
1245	(4DD)	BITSTRING	1	SRWSCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1245	(4DD)	X'4DE'	0	SRWSTXT1	"*" START OF TEXT
1245	(4DD)	X'4'	0	SRWLEN2	"*-SRWINPUT"

Table 351. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Third mapping of SRWINPUT Spanned record (Second & subsequent parts)			
1242	(4DA)	BITSTRING	1		TEXT LENGTH, THIS SEGMENT
1242	(4DA)	X'4DB'	0	SRWSTXT2	"*" START OF TEXT
1242	(4DA)	X'1'	0	SRWLEN3	"*-SRWINPUT"
		End of SRWINPUT mappings.			
1244	(4DC)	ADDRESS	2	(0)	Ensure that SRWINPUT
1244	(4DC)	ADDRESS	2	(0)	is larger than each
1244	(4DC)	ADDRESS	2	(0)	of the individual
1516	(5EC)	SIGNED	4	SRWRECNT	Sysout record count
1520	(5F0)	SIGNED	4	SRWPGCT	Sysout page count
1524	(5F4)	SIGNED	4	SRWBYTCT	Sysout byte count
1524	(5F4)	X'4B0'	0	SRWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 352. Cross Reference for $NSRWORK

Name	Offset	Hex Tag
PCE	0	
SRWBYTCT	5F4	0
SRWCCTL	4DB	
SRWCOUNT	1C8	
SRWCURRC	1E0	240
SRWCWKAR	1E0	
SRWENBUF	17C	
SRWENIOT	160	
SRWENREC	180	
SRWGGST	18C	
SRWHDSAV	170	
SRWHMTTR	16C	
SRWINIT	148	148
SRWINITL	1DC	95
SRWINPUT	4DA	
SRWIOTC	15C	
SRWIOTCN	164	
SRWIOTSH	168	
SRWIOT1	158	
SRWLEN1	4DB	2
SRWLEN2	4DD	4
SRWLEN3	4DA	1
SRWLRECL	4DA	
SRWMVCLN	1B9	
SRWNXTRC	184	
SRWPCEWS	5F4	4B0
SRWPGCT	5F0	0
SRWPREVR	188	

Table 352. Cross Reference for $NSRWORK (continued)

Name	Offset	Hex Tag
SRWRCANC	149	1
SRWRECCT	1E0	23C
SRWRECN	1C0	
SRWRECNT	5EC	0
SRWRETRY	149	
SRWRETSV	14A	
SRWROUTE	1D0	
SRWRSBTL	190	
SRWRSUSP	149	0
SRWSBUF	1CC	
SRWSCCTL	4DD	
SRWSCRPT	174	
SRWSCRST	178	
SRWSEGL	4DA	
SRWSRCB	148	
SRWSRECL	4DB	
SRWSRTL	1BA	
SRWSTXTL	1BC	
SRWSTXT1	4DD	4DE
SRWSTXT2	4DA	4DB
SRWTABSV	198	
SRWTEXT	4DB	4DC
SRWTSAVE	1A0	
SRWTXTLN	1B8	
SRWUSER	1D4	

$NSST information

$NSST heading information

Common name: NJE Server Subtask Table

Macro ID: $NSST

DSECT name: NSST

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'NSST'
Offset: NSSID-NSS
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: In a JES2 NJE Server address sPace

Size: See NSSTLEN

Created by: HASCNJEX (Subtask initialization routine from IAZNJTCP)

Pointed to by: NSCNSSTH field of the $NSCT data area
NSCNSSTT field of the $NSCT data area
NSSNEXT field of the $NSST data area
NSSPREV field of the $NSST data area
TBFLNSST field of the $TBUF data area
TSCTJSDT field of the IAZYTSCT data area

Serialization:

Function: Contains the relevant data for a single NJE connection in the NETSRV data space.

$NSST mapping

Table 353. Structure NSST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSST	
0	(0)	CHARACTER	4	NSSID	NSST eyecatcher
4	(4)	ADDRESS	1	NSSVER	NSST version number
4	(4)	X'1'	0	NSSVERN	"1" NSST version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSSLPCL	PCL address of line PCL
12	(C)	ADDRESS	4	NSSTSCT	IAZYTSCT address
16	(10)	ADDRESS	4	NSSNSCT	NSCT address
20	(14)	ADDRESS	4	NSSNEXT	Next NSS chain pointer
24	(18)	ADDRESS	4	NSSPREV	Prev NSS chain pointer
28	(1C)	BITSTRING	3	NSSDEVID	Device id of line
31	(1F)	BITSTRING	1	NSSFLAG1	Flags
		1...		NSS1DEL	"B'10000000'" NSST should be freed
		.1..		NSS1WJ2	"B'01000000'" Subdevices waiting for JES2 to come back
		..1.		NSS1NRTY	"B'00100000'" Non-retryable error
		...1		NSS1ACTV	"B'00010000'" NSST is active
32	(20)	ADDRESS	4	NSSLTQH	Line request TBUF q head
36	(24)	ADDRESS	4	NSSLTQT	Line request TBUF q tail
40	(28)	SIGNED	4	NSSLTECB	ECB for line request response
44	(2C)	BITSTRING	16	NSSTTTOK	Subtask TCB token
60	(3C)	SIGNED	4	NSSTSAVE(18)	Save area for init routine and server main task
	Pointers to work areas, by stream				
132	(84)	ADDRESS	4	NSSTJRWA(7)	Pointers to up to 7 JRWs
160	(A0)	ADDRESS	4	NSSTJTWA(7)	Pointers to up to 7 JTWs
188	(BC)	ADDRESS	4	NSSTSRWA(7)	Pointers to up to 7 SRWs
216	(D8)	ADDRESS	4	NSSTSTWA(7)	Pointers to up to 7 STWs
244	(F4)	ADDRESS	4	NSSTDVWA	Pointer to all work areas
248	(F8)	SIGNED	4	NSSTDVWL	Length of all work areas
252	(FC)	ADDRESS	4	NSSTACWA	Addr of current NJEWORK
256	(100)	SIGNED	2	NSSTTRSQ	$NJETRC sequence
258	(102)	SIGNED	2		Reserved
260	(104)	ADDRESS	4	NSSTAREA	Address of rolling trace area for (non-subdevice related)
264	(108)	SIGNED	4	NSSTLOCK	NSST Lock word
268	(10C)	BITSTRING	600	NSSTTRCA	TRCA
868	(364)	ADDRESS	4	NSSTLREQ	Address of LREQ TBUF (when Line REQuest "in progress")
872	(368)	DBL WORD	8	NSSTWORK(0)	Working storage
	Parameter list for ESTAEX macro				

Table 353. Structure NSST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
872	(368)	SIGNED	4	(0)	
872	(368)	ADDRESS	1	NSSESTAE	FLAGS FOR ESTAEX
873	(369)	ADDRESS	1		SECOND FLAG BYTE
874	(36A)	ADDRESS	1		THIRD FLAG BYTE
875	(36B)	ADDRESS	1		VERSION NUMBER
876	(36C)	ADDRESS	4		TOKEN VALUE AREA
880	(370)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
884	(374)	ADDRESS	4		ALET FOR PARM LIST
888	(378)	ADDRESS	4		EXIT ADDR NOT SPECD
888	(378)	X'14'	0	NSSESTLN	"*-NSSESTAE" Length of list form
	Parameter list for STIMERM macro				
872	(368)	ADDRESS	4	NSSDECBL(2)	ECB list
880	(370)	SIGNED	4	NSSDSTID	STIMERM ID=id-area
884	(374)	SIGNED	4	NSSDTECB	STIMER ECB
	MACDATE = 08/19/88				
888	(378)	BITSTRING	24	NSSDSTMS	REMOTE STIMERM SET PARM LIST
	MACDATE = 08/19/88				
912	(390)	BITSTRING	16	NSSDSTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
	Parameter list for TCBTOKEN macro				
	MACDATE = 04/03/89				
872	(368)	SIGNED	4	NSSTCBTK(0)	
872	(368)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
872	(368)	BITSTRING	8		
880	(370)	SIGNED	4		
884	(374)	ADDRESS	4		
888	(378)	ADDRESS	4		ASCB ADDRESS (INPUT)
892	(37C)	SIGNED	4	(0)	FLAGS (INPUT)
892	(37C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
893	(37D)	SIGNED	3		RESERVED
1128	(468)	X'468'	0	NSSTLEN	"*-NSST" Length of NSST

Table 354. Cross Reference for $NSST

Name	Offset	Hex Tag
NSSDECBL	368	
NSSDEVID	1C	
NSSDSTID	370	
NSSDSTMC	390	0
NSSDSTMS	378	0
NSSDTECB	374	
NSSESTAE	368	

Table 354. Cross Reference for $NSST (continued)

Name	Offset	Hex Tag
NSSESTLN	378	14
NSSFLAG1	1F	
NSSID	0	D5E2E2E3
NSSLPCL	8	
NSSLTECB	28	
NSSLTQH	20	
NSSLTQT	24	
NSSNEXT	14	
NSSNSCT	10	
NSSPREV	18	
NSST	0	
NSSTACWA	FC	
NSSTAREA	104	
NSSTCBTK	368	
NSSTDVWA	F4	
NSSTDVWL	F8	
NSSTJRWA	84	
NSSTJTWA	A0	
NSSTLEN	468	468
NSSTLOCK	108	
NSSTLREQ	364	
NSSTSAVE	3C	
NSSTSCT	C	
NSSTSRWA	BC	
NSSTSTWA	D8	
NSSTTRCA	10C	
NSSTTRSQ	100	
NSSTTTOK	2C	
NSSTWORK	368	
NSSVER	4	
NSSVERN	4	1
NSS1ACTV	1F	10
NSS1DEL	1F	80
NSS1NRTY	1F	20
NSS1WJ2	1F	40

$NSTWORK information

$NSTWORK programming interface information

$NSTWORK is a programming interface.

$NSTWORK heading information

Common name: JES2 Sysout Transmitter PCE Work Area

Macro ID: $NSTWORK

DSECT name: PCE ($NSTWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol STWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $NSTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first network sysout transmitter PCE.
Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
The $OSTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first offload sysout transmitter PCE.
Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 Network Sysout Transmitter and the Offload Sysout Transmitter processor and by its support routines and exits.
$NSTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NSTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSTID in the second byte of field PCEID.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NSTWORK mapping

Table 355. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP NETWORK SYSOUT TRANSMITTER
328	(148)	X'148'	0	STWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
328	(148)	SIGNED	2	STWNODE	DESTINATION NODE FOR CURRNT JOB
330	(14A)	BITSTRING	1	STWDCTF	FLAGS TO BE MOVED TO DCT
331	(14B)	BITSTRING	1	STWJQEF	FLAGS TO BE MOVED TO JQE
332	(14C)	BITSTRING	1	STWFLAG2	SPOOL OFFLOAD FLAG BYTE
		1...		STW$HCQ	"B'10000000'" DS FOUND ON HARDCPY QUEUE
		.1..		STW$NODH	"B'01000000'" This dataset header not to be sent (exit from multi-dest mode)
333	(14D)	BITSTRING	1	STWFLAG4	General use flag byte
		1...		STW4JHS	"B'10000000'" Network job header needs to be sent for this data set
		.1..		STW4SMRC	"B'01000000'" Abend in $SWBMERG cleanup call
		..1.		STW4HJOS	"B'00100000'" Hold all the JOEs on the transmitter chain
334	(14E)	BITSTRING	1	STWJQEF3	Flags t/b moved to JQEFLAG3

Table 355. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
335	(14F)	BITSTRING	1	STWJQEFA	Flags t/b moved to JQEFLAGA
336	(150)	ADDRESS	4	STWSPINJ	CURRENT SPIN JOE ADDRESS
340	(154)	ADDRESS	4	STWDSBUF	DATA SET BUFFER ADDRESS
344	(158)	ADDRESS	4	STWENBUF	END-OF-BUFFER ADDR FOR COMPARISON
348	(15C)	ADDRESS	4	STWHDBUF	DATA SET HEADER BUFFER ADDRESS
352	(160)	ADDRESS	4	STWHDTTR	MTTR OF BLOCK IN STWHDBUF
	Fields STWNSWB through STWIPSWL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.				
356	(164)	SIGNED	2	STWPSWBL	Total size of PDDB SWBTUs
358	(166)	SIGNED	2	STWJSWBL	Total size of JOE SWBTUs
360	(168)	SIGNED	2	STWPLSIZ	Size of SWBTU merge or splice pointer list entry
362	(16A)	SIGNED	2	STWMRGLN	Length of merged SWBTU storage area
364	(16C)	ADDRESS	4	STWSWBUF	PDDB SWBIT buffer chain
368	(170)	ADDRESS	4	STWJSWBF	JOE SWBIT buffer chain
372	(174)	ADDRESS	4	STWSWMRG	Address of $SWBMERG parameter list
376	(178)	ADDRESS	4	STWMRGTU	Address of merged SWBTU storage area
380	(17C)	ADDRESS	4	STWSPLIC	Addr of spliced SWBTU
384	(180)	ADDRESS	4	STWIPSWB	Address of merged SWBTU (after IPADDR processing)
388	(184)	SIGNED	2	STWSPLIL	Length of the spliced SWBTU
390	(186)	SIGNED	2	STWIPLEN	Length of the IP SWB area
392	(188)	SIGNED	2	STWIPSWL	Length of the merged SWBTU (after IPADDR processing)
394	(18A)	SIGNED	2		Reserved
396	(18C)	SIGNED	4	STWSCRST	START ADDRESS OF SCR RECORD
400	(190)	SIGNED	4	STWMTTRL	MTTR FOR CURRENT BUFFER
404	(194)	SIGNED	4	STWMTTRC	MTTR OF CURRENT PDDB
408	(198)	SIGNED	4	STWJQEO	JOB QUEUE ELEMENT OFFSET
412	(19C)	BITSTRING	1	STWRECTP	SAVED SPANNED RECORD TYPE
413	(19D)	BITSTRING	1	STWPFLG1	PDDBFLG1 OF LAST DS SENT
414	(19E)	BITSTRING	2		RESERVED
416	(1A0)	SIGNED	4	STWNTTR	THIS JOBS NEWS TRACK ADDR
420	(1A4)	SIGNED	2	STWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
422	(1A6)	BITSTRING	2		RESERVED
424	(1A8)	SIGNED	4	STWCOUNT	COUNT OF LOGICAL TP RECORDS
428	(1AC)	ADDRESS	4	STWSBUF	SMF BUFFER POINTER
432	(1B0)	DBL WORD	8	STWEXTPL	EXTP PARAMETER LIST AREA
440	(1B8)	DBL WORD	8	STWSTIME	SYSOUT TRANSMISSION START TIME
440	(1B8)	X'78'	0	STWINITL	"*-STWINIT" LENGTH TO CLEAR AT INITIALIZATION
448	(1C0)	DBL WORD	8	STWCWKAR(0)	Transmitter common wrk area
	STWRECCT and STWCURRC are for SDSF's use				
448	(1C0)	X'21C'	0	STWRECCT	"(STWRCOUN-STW)+STWCWKAR" Total record count

Table 355. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
448	(1C0)	X'220'	0	STWCURRC	"(STWCUREC-STW)+STWCWKAR" Current record count
968	(3C8)	DBL WORD	8	(0)	
968	(3C8)	X'3C8'	0	STWVAR	"*" START OF VARIABLE (OVERLAID) PORTION OF PCE WORK AREA
STWRIDW AND STWWORK SHOULD NEVER BE SEPARATED BECAUSE THE TWO FIELDS ARE USED IN HASPSNA AS A CONSECUTIVE FIELD					
968	(3C8)	BITSTRING	8	STWRIDW	EXTP PUT RID AREA
976	(3D0)	CHARACTER	260	STWWORK	WORK AREA FOR MESSAGES
976	(3D0)	X'3D0'	0	STWREC	"STWWORK" START OF TEXT CONSTRUCTION AREA FOR CONTROL RECORDS
976	(3D0)	X'38C'	0	STWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 356. Cross Reference for $NSTWORK

Name	Offset	Hex Tag
PCE	0	
STW$HCQ	14C	80
STW$NODH	14C	40
STWCOUNT	1A8	
STWCURRC	1C0	220
STWCWKAR	1C0	
STWDCTF	14A	
STWDSBUF	154	
STWENBUF	158	
STWEXTPL	1B0	
STWFLAG2	14C	
STWFLAG4	14D	
STWHDBUF	15C	
STWHDRLN	1A4	
STWHDTTR	160	
STWINIT	148	148
STWINITL	1B8	78
STWIPLEN	186	
STWIPSWB	180	
STWIPSWL	188	
STWJQEF	14B	
STWJQEFA	14F	
STWJQEF3	14E	
STWJQEO	198	
STWJSWBF	170	
STWJSWBL	166	
STWMRGLN	16A	
STWMRGTU	178	
STWMTTRC	194	
STWMTTRL	190	
STWNODE	148	

Table 356. Cross Reference for $NSTWORK (continued)

Name	Offset	Hex Tag
STWNTTR	1A0	
STWPCEWS	3D0	38C
STWPFLG1	19D	
STWPLSIZ	168	
STWPSWBL	164	
STWREC	3D0	3D0
STWRECCT	1C0	21C
STWRECTP	19C	
STWRIDW	3C8	
STWSBUF	1AC	
STWSCRST	18C	
STWSPINJ	150	
STWSPLIC	17C	
STWSPLIL	184	
STWSTIME	1B8	
STWSWBUF	16C	
STWSWMRG	174	
STWVAR	3C8	3C8
STWWORK	3D0	
STW4HJOS	14D	20
STW4JHS	14D	80
STW4SMRC	14D	40

$NSWE information

$NSWE heading information

Common name: NJE Server Subtask Work Element

Macro ID: $NSWE

DSECT name: NSWE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'NSWE'
Offset: 0
Length: 4

Storage attributes: Subpool: 0
Key: 0
Residency: Private storage, Virtual storage below 2GB, real storage antwhere

Size: See NSWLEN

Created by: HASCNJAS

Pointed to by: NSCNSWEH field of the $NSCT data area
NSCNSWET field of the $NSCT data area
NSCGPWEH field of the $NSCT data area
NSCGPWET field of the $NSCT data area
NSWNEXT field of the $NSWE data area
NSWPREV field of the $NSWE data area
NSWGPNXT field of the $NSWE data area
NSWGPPRV field of the $NSWE data area

Serialization: Used only by the subtask represented by the NSWE.

Function: Represents a JES2-attached subtask in the server address space

$NSWE mapping

Table 357. Structure NSWE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSWE	
0	(0)	CHARACTER	4	NSWEYE(0)	
0	(0)	BITSTRING	1	(0)	$SAVE area (see $PSV)
176	(B0)	CHARACTER	8	NSWNAME	Subtask name
184	(B8)	SIGNED	1	NSWNUM	Subtask number
185	(B9)	BITSTRING	3		Reserved
188	(BC)	ADDRESS	4	NSWNEXT	Previous element on chain
192	(C0)	ADDRESS	4	NSWPREV	Next element on chain
196	(C4)	ADDRESS	4	NSWETCB	TCB address
200	(C8)	ADDRESS	4	NSWRECA	Address of recovery routine
204	(CC)	CHARACTER	8	NSWEPNAM	Entry point name (ATTACHX)
212	(D4)	SIGNED	4	NSWDTECB	DETACH ECB
216	(D8)	SIGNED	4	NSWQUECB	QUIESCE ECB
220	(DC)	ADDRESS	4	NSWNSCT	NSCT address
224	(E0)	ADDRESS	4	NSWCNTAD	Addr of subtask count fields in NSCT
228	(E4)	ADDRESS	4	NSWNSSLK	NSST address if a NSST lock is held SHARED by task
232	(E8)		1	NSWTTOK	Associated TCB token
248	(F8)	DBL WORD	8	NSWDWORK	DOUBLEWORD WORK AREA
256	(100)	DBL WORD	8	NSWDWRK2	DOUBLEWORD WORK AREA 2
256	(100)	X'F8'	0	NSWWRK16	"NSWDWORK,16,C'L' 16-byte work area @Z07LTCP"
264	(108)	SIGNED	4	(0)	
264	(108)	ADDRESS	1	NSWESTAE	FLAGS FOR ESTAEX
265	(109)	ADDRESS	1		SECOND FLAG BYTE
266	(10A)	ADDRESS	1		THIRD FLAG BYTE
267	(10B)	ADDRESS	1		VERSION NUMBER
268	(10C)	ADDRESS	4		TOKEN VALUE AREA
272	(110)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
276	(114)	ADDRESS	4		ALET FOR PARM LIST
280	(118)	ADDRESS	4		EXIT ADDR NOT SPECD
280	(118)	X'14'	0	NSWESTAL	"*-NSWESTAE" Length of ESTAEX list form
284	(11C)	SIGNED	2	NSWERRCT	Error count
286	(11E)	SIGNED	2	NSWATTCT	Attach count
288	(120)	SIGNED	4	NSWERRTM	Time of last error
	MACDATE = 04/03/89				
292	(124)	SIGNED	4	NSWTCBTK(0)	
292	(124)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
292	(124)	BITSTRING	8		
300	(12C)	SIGNED	4		
304	(130)	ADDRESS	4		
308	(134)	ADDRESS	4		ASCB ADDRESS (INPUT)
312	(138)	SIGNED	4	(0)	FLAGS (INPUT)

Table 357. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
312	(138)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
313	(139)	SIGNED	3		RESERVED
313	(139)	X'18'	0	NSWTCBTL	"*-NSWTCBTK" Length of TCBTOKEN list frm
320	(140)	DBL WORD	8	NSWTRCA(0)	TRCA
		Map ATTACHX work area over TRCA SDUMP area			
		MACDATE 11/11/91			
360	(168)	SIGNED	4	NSWATTSL(0)	
360	(168)	ADDRESS	4		DE OR EPLOC ADDRESS
364	(16C)	ADDRESS	4		DCB ADDRESS
368	(170)	ADDRESS	4		NEW FORMAT + ECB ADDR
372	(174)	ADDRESS	4		GSPL OR GSPV
376	(178)	ADDRESS	4		SHSPV OR SHSPL
380	(17C)	ADDRESS	4		EXIT ROUTINE ADDRESS
384	(180)	ADDRESS	2		DPMOD VALUE
386	(182)	ADDRESS	1		LPMOD VALUE
387	(183)	ADDRESS	1		STATUS BYTE
388	(184)	ADDRESS	4	(2)	EP NAME SPACE
396	(18C)	ADDRESS	4		ADDRESS OF JSCB
400	(190)	ADDRESS	4		(E)STAI PARM LIST
404	(194)	ADDRESS	4		EXIT ADDRESS
408	(198)	ADDRESS	4		TASKLIB
412	(19C)	ADDRESS	1		FLAG BYTE
413	(19D)	ADDRESS	1		TASK ID
414	(19E)	ADDRESS	2		PARM LIST LENGTH
416	(1A0)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
420	(1A4)	ADDRESS	1		SET FLAGS
421	(1A5)	ADDRESS	1		SET UP FORMAT NUMBER
422	(1A6)	ADDRESS	1		SET FLAGS
423	(1A7)	ADDRESS	1		RESERVED BYTE
424	(1A8)	ADDRESS	4		EPLOC/DE/EP ALET
428	(1AC)	ADDRESS	4		DCB ALET
432	(1B0)	ADDRESS	4		ECB ALET
436	(1B4)	ADDRESS	4		GSPL ALET
440	(1B8)	ADDRESS	4		SHSPL ALET
444	(1BC)	ADDRESS	4		JSCB ALET
448	(1C0)	ADDRESS	4		(E)STAI PARAMETER ALET
452	(1C4)	ADDRESS	4		TASKLIB ALET
456	(1C8)	ADDRESS	4		NSHSPL ALET
456	(1C8)	X'64'	0	NSWATTLN	"*-NSWATTSL" Length of list form
920	(398)	DBL WORD	8	NSWORG(0)	
		Work area for general purpose subtasks			
920	(398)	ADDRESS	4	NSWGPNXT	Next available GP subtask

Table 357. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
924	(39C)	ADDRESS	4	NSWGPPRV	Previous subtask
928	(3A0)	ADDRESS	4	NSWSQD	SQD address
932	(3A4)	ADDRESS	4	NSWGPQ	Current work queue element
936	(3A8)	SIGNED	4	NSWGPECB	ECB for GP subtask
940	(3AC)	ADDRESS	4	NSWGECBL(2)	ECB list
948	(3B4)	BITSTRING	1	NSWGFLG1	Flags
		1...		NSWGF1CR	"B'10000000'" Subtask was CALLRTM'ed
		.1..		NSWGF1RE	"B'01000000'" Subtask in recovery
	Work area for request manager subtask				
920	(398)	ADDRESS	4	NSWTSCT	TSCT address
924	(39C)	ADDRESS	4	NSWTCT	TCT address
928	(3A0)	ADDRESS	4	NSWNSST	NSST address
932	(3A4)	ADDRESS	4	NSWTBUF	TBUF address
936	(3A8)	SIGNED	4	NSWSTECB	STIMERM ECB
940	(3AC)	SIGNED	4	NSWDSTID	STIMERM ID=id-area
944	(3B0)	ADDRESS	4	NSWRECBL(3)	ECB list
956	(3BC)	SIGNED	4	NSWENQPM(3)	Parameter list for NMS/NRQ queueing service
	MACDATE = 08/19/88				
968	(3C8)	BITSTRING	24	NSWSTMST	REMOTE STIMERM SET PARM LIST
968	(3C8)	X'18'	0	NSWSTMSL	"*-NSWSTMST" List form length
	MACDATE = 08/19/88				
992	(3E0)	BITSTRING	16	NSWSTMCN	REMOTE STIMERM TEST/CANCEL PARM LIST
992	(3E0)	X'10'	0	NSWSTMCL	"*-NSWSTMCN" List form length
1008	(3F0)	DBL WORD	8	(0)	
1008	(3F0)	X'3F0'	0	NSWELEN	"*-NSWE" Length of NSWE

Table 358. Cross Reference for $NSWE

Name	Offset	Hex Tag
NSWATTCT	11E	
NSWATTLN	1C8	64
NSWATTSL	168	
NSWCNTAD	E0	
NSWDSTID	3AC	
NSWDTECB	D4	
NSWDWORK	F8	
NSWDWRK2	100	
NSWE	0	
NSWELEN	3F0	3F0
NSWENQPM	3BC	
NSWEPNAM	CC	
NSWERRCT	11C	
NSWERRTM	120	

Table 358. Cross Reference for $NSWE (continued)

Name	Offset	Hex Tag
NSWESTAE	108	
NSWESTAL	118	14
NSWETCB	C4	
NSWEYE	0	
NSWGECBL	3AC	
NSWGFLG1	3B4	
NSWGF1CR	3B4	80
NSWGF1RE	3B4	40
NSWGPECB	3A8	
NSWGPNXT	398	
NSWGPPRV	39C	
NSWGPQ	3A4	
NSWNAME	B0	
NSWNEXT	BC	
NSWNSCT	DC	
NSWNSSLK	E4	
NSWNSST	3A0	
NSWNUM	B8	
NSWORG	398	
NSWPREV	C0	
NSWQUECB	D8	
NSWRECA	C8	
NSWRECBL	3B0	
NSWSQD	3A0	
NSWSTECB	3A8	
NSWSTMCL	3E0	10
NSWSTMCN	3E0	0
NSWSTMSL	3C8	18
NSWSTMST	3C8	0
NSWTBUF	3A4	
NSWTCBTK	124	
NSWTCBTL	139	18
NSWTCT	39C	
NSWTRCA	140	
NSWTSCT	398	
NSWTTOK	E8	
NSWWRK16	100	F8

$NTRDATA information

$NTRDATA heading information

Common name: NJE Server Trace data area

Macro ID: $NTRDATA

DSECT name: NTR

Owning component: JES2 (SC1BH)

Eye-catcher ID:	none
Storage attributes:	Subpool: 0 Key: 0 Residency: Private storage, Virtual storage below 2GB, real storage antwhere
Size:	See NTRBLEN
Created by:	$JES2 TRACE facility
Pointed to by:	Maps data starting at TTEDATA in a TTE entry
Serialization:	$TRACE
Function:	Maps the $TRACE data (starting at TTEDATA) in a JES2 trace buffer. Used for trace ids 34, 35, 36, 37, and 38.

$NTRDATA mapping

Table 359. Structure NTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NTR	, NJE Trace data
0	(0)	BITSTRING	3	NTRSDVID	Server device id
3	(3)	BITSTRING	3	NTRLDVID	Line device id
6	(6)	BITSTRING	1	NTRFLOW	Flow direction of record
		1...		NTRFFJ2M	"B'10000000'" From: JES2 main addrspc
		.1..		NTRFFJ2N	"B'01000000'" From: JES2 netsrv addrspc
		..1.		NTRFFIAZ	"B'00100000'" From: Common netsrv code
		...1		NTRFFTCP	"B'00010000'" From: TCP/IP
		.... 1...		NTRFTJ2M	"B'00001000'" To: JES2 main addrspc
		.... .1..		NTRFTJ2N	"B'00000100'" To: JES2 netsrv addrspc
		.... ..1.		NTRFTIAZ	"B'00000010'" To: Common netsrv code
		1		NTRFTTCP	"B'00000001'" To: TCP/IP

```
NTRTYPE contains either one of the types below,
or either the RCB or SRCB of the record indicating
the type of record. The corresponding hex values
For each record recognized are as follows:
X'00' - EOT (SRCB of EOT record, from RIDXEOT)
X'01' - NRQ (NTRTNRQ, from TBFTNRQ)
X'02' - NMS (NTRTNMS, from TBFTNMS)
X'03' - LREQ (NTRTLREQ, from TBFTLREQ)
X'04' - JOB (NTRTJOB, from TBFTJOB)
X'05' - CONN (NTRTCONN, from TBFTCONN)
X'40' - Transmitter cancel (SRCB of TC, from RIDXTC)
X'90' - Request to init (RCB of RI, from RIDALOCS)
X'B0' - Receiver cancel (RCB of RC, from RIDPDRC)
X'C0' - Job header (SRCB of JH, from SRCBJH)
X'C1' - ACK EOT (RCB of ACK EOT from RIDAKEOT,
        plus one to differentiate from job header)
X'D0' - Job trailer (SRCB of JT, from SRCBJT)
X'E0' - Dataset header (SRCB of DSH, from SRCBDSH)
X'FF' - Data
```

7	(7)	BITSTRING	1	NTRTYPE	Data type
7	(7)	X'FF'	0	NTRTDATA	"FF" Contains data only
7	(7)	X'1'	0	NTRTNRQ	"TBFTNRQ" Contains a NRQ
7	(7)	X'2'	0	NTRTNMS	"TBFTNMS" Contains a NMS
7	(7)	X'3'	0	NTRTLREQ	"TBFTLREQ" Contains a LINE request
7	(7)	X'4'	0	NTRTJOB	"TBFTJOB" Contains a JOB request
7	(7)	X'5'	0	NTRTCONN	"TBFTCONN" Contains a CONNECT request
8	(8)	DBL WORD	8	NTRQTIME	Queue time

Table 359. Structure NTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	DBL WORD	8	NTRRTIME	Total request time
24	(18)	ADDRESS	4	NTRDADD	Actual data address
28	(1C)	SIGNED	2	NTRDLEN	Length of variable data
28	(1C)	X'1E'	0	NTRBLEN	"*-NTR"
28	(1C)	X'1E'	0	NTRDATA	"*"

Table 360. Cross Reference for $NTRDATA

Name	Offset	Hex Tag
NTR	0	
NTRBLEN	1C	1E
NTRDADD	18	
NTRDATA	1C	1E
NTRDLEN	1C	
NTRFFIAZ	6	20
NTRFFJ2M	6	80
NTRFFJ2N	6	40
NTRFFTCP	6	10
NTRFLOW	6	
NTRFTIAZ	6	2
NTRFTJ2M	6	8
NTRFTJ2N	6	4
NTRFTTCP	6	1
NTRLDVID	3	
NTRQTIME	8	
NTRRTIME	10	
NTRSDVID	0	
NTRTCONN	7	5
NTRTDATA	7	FF
NTRTJOB	7	4
NTRTLREQ	7	3
NTRTNMS	7	2
NTRTNRQ	7	1
NTRTYPE	7	

$NTW information

$NTW programming interface information

$NTW is a programming interface.

$NTW heading information

Common name: HASP Network Path Manager Trace Work Area

Macro ID: $NTW

DSECT name: NTW

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'NTW '
Offset: NTWID-NTW
Length: 4

Storage attributes: Subpool: Subpool 0 for the permanent NTW;
Subpool 1 for the temporary NTW.
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.

Size: See NTWLEN

Created by: JES2 Initialization
JES2 Line Manager Processor

Pointed to by: PCTNTW field of the $PCT data area (for the permanent work area created during JES2 initialization.)

Serialization: No special serialization other than that currently implied by the Network Path Manager.

Function: This DSECT maps a work area used to save information to be included in the following trace records: trace id 21, 22, 23 and 24.
There are 2 types of NTWs: permanent and temporary. The permanent one is obtained for the Network Path Manager and is used for most of the traces issued by the Network Path Manager. The temporary NTW is used by the Line Manager when sending an I-record. The data in the NTW is used as an object of a $TRACE macro (DATA=, LEN=). The trace formatting routine uses the $TRACE macro to convert the internal representation to a printable format.

$NTW mapping

Table 361. Structure NTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NTW	
0	(0)	CHARACTER	4	NTWID	NTW identifier
4	(4)	ADDRESS	1	NTWVERS	NTW version
4	(4)	X'2'	0	NTWVERSN	"2" Version number
8	(8)	SIGNED	4	NTWSTART(0)	Start of $TRACE data
8	(8)	CHARACTER	1	NTWTYPE	Rec type: M, N, I, J, K, L,
9	(9)	BITSTRING	1	NTWFLAG1	
		1...		NTW1SEND	"B'10000000'" This is a send record
		.1..		NTW1DFUL	"B'01000000'" Rec discon. by full path
		..1.		NTW1FFUL	"B'00100000'" Rec forced full path rout.
		...1		NTW1NCC	"B'00010000'" An NCC was passed
		.... 1...		NTW1GAR	"B'00001000'" Record is garbage
		.... .1..		NTW1MAS	"B'00000100'" MAS validation NCC record
		.... ..1.		NTW1MASP	"B'00000010'" MAS validation pending
		1		NTW1MASD	"B'00000001'" MAS validation completed
10	(A)	BITSTRING	1	NTWSTAT	Status for connection
11	(B)	BITSTRING	1	NTWOSTAT	Previous status for conn
12	(C)	BITSTRING	1	NTWRRC	Reason code for why record Was rejected or sent
13	(D)	ADDRESS	1	NTWMEMB	Node qualifier
14	(E)	ADDRESS	2	NTWNODE	Node from which record rcvd

Table 361. Structure NTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	8	NTWCONS	Where record was from: LINEnnnn, MLINEn, 'FULLPATH', 'LINEDOWN', 'CONSOLE', 'PARMLIB'
24	(18)	SIGNED	4	NTWOCES	Previous CES
24	(18)	X'4'	0	NTWCESL	"4" Length of unconverted CES
24	(18)	X'10'	0	NTWCCESL	"16" Length of converted CES
28	(1C)	SIGNED	4	NTWREC(0)	
28	(1C)	BITSTRING	20	NTWNAT	Space for NAT record
28	(1C)	BITSTRING	41	NTWNCCI	Space for NCC I/J record
28	(1C)	BITSTRING	9	NTWNCCK	Space for NCC K/L record
28	(1C)	BITSTRING	27	NTWNCCM	Space for NCC M/N record
28	(1C)	BITSTRING	3	NTWNCCB	Space for NCC B record
69	(45)	X'3D'	0	NTWSIZE	"*-NTWSTART" Size of NPM trace record
69	(45)	X'45'	0	NTWLEN	"*-NTW" Len of NPM work area
	NTWRRC Reason codes				
69	(45)	X'1'	0	NTWRINN	"1" Invalid Node Name
69	(45)	X'2'	0	NTWRMEM	"2" Invalid Member Number
69	(45)	X'3'	0	NTWRNSA	"3" No Storage Available
69	(45)	X'4'	0	NTWRICR	"4" Invalid resistance
69	(45)	X'5'	0	NTWRICS	"5" Invalid CES
69	(45)	X'6'	0	NTWRNDA	"6" No Devices Available
69	(45)	X'7'	0	NTWRTOL	"7" TOD Tolerance exceeded
69	(45)	X'8'	0	NTWRILP	"8" Invalid Line Password
69	(45)	X'9'	0	NTWRINP	"9" Invalid Node Password
69	(45)	X'A'	0	NTWRLNX	"10" Line Not Transparent
69	(45)	X'B'	0	NTWRIGN	"11" Ignored, Line Active
69	(45)	X'C'	0	NTWRGARB	"12" Ignored, Invalid record
69	(45)	X'D'	0	NTWRERR	"13" Ignored, ABEND processing
69	(45)	X'E'	0	NTWRKNOW	"14" Ignored, more recent connect exists
69	(45)	X'F'	0	NTWROWN	"15" Connection involves local node and member
69	(45)	X'10'	0	NTWRIFF	"16" Invalid NJE signon feature flags
69	(45)	X'11'	0	NTWRIPM	"17" Incorrect value for PATHMGR=
69	(45)	X'12'	0	NTWRIPT	"18" Non path manager CES received
69	(45)	X'13'	0	NTWRNOIB	"19" PREVIOUS I OR J RECORD WAS NOT ONLY IN BUFFER
69	(45)	X'14'	0	NTWROLDR	"20" IGNORED, AN OLD SUBTRACT NCC RECORD WAS RECEIVED
69	(45)	X'15'	0	NTWRLNPM	"21" IGNORED, RECORD RECEIVED ON A NON-PM LINE
69	(45)	X'16'	0	NTWRIGNA	"22" Ignored, line no longer active
69	(45)	X'17'	0	NTWRDUPM	"23" Duplicate primary and secondary node/member
69	(45)	X'18'	0	NTWRIMT	"24" Incorrect multi-trunk
69	(45)	X'19'	0	NTWRDCES	"25" Records with duplicate CES values were received
69	(45)	X'1A'	0	NTWRIPW	"26" Incorrect secure signon

Table 362. Cross Reference for $NTW

Name	Offset	Hex Tag
NTW	0	
NTWCCESL	18	10
NTWCESL	18	4
NTWCONS	10	
NTWFLAG1	9	
NTWID	0	D5E3E640
NTWLEN	45	45
NTWMEMB	D	
NTWNAT	1C	
NTWNCCB	1C	
NTWNCCI	1C	
NTWNCCK	1C	
NTWNCCM	1C	
NTWNODE	E	
NTWOCES	18	
NTWOSTAT	B	
NTWRDCES	45	19
NTWRDUPM	45	17
NTWREC	1C	
NTWRERR	45	D
NTWRGARB	45	C
NTWRICR	45	4
NTWRICS	45	5
NTWRIFF	45	10
NTWRIGN	45	B
NTWRIGNA	45	16
NTWRILP	45	8
NTWRIMT	45	18
NTWRINN	45	1
NTWRINP	45	9
NTWRIPM	45	11
NTWRIPT	45	12
NTWRIPW	45	1A
NTWRKNOW	45	E
NTWRLNPM	45	15
NTWRLNX	45	A
NTWRMEM	45	2
NTWRNDA	45	6
NTWRNOIB	45	13
NTWRNSA	45	3
NTWROLDR	45	14
NTWROWN	45	F
NTWRRC	C	
NTWRTOL	45	7
NTWSIZE	45	3D
NTWSTART	8	

Table 362. Cross Reference for $NTW (continued)

Name	Offset	Hex Tag
NTWSTAT	A	
NTWTYPE	8	
NTWVERS	4	
NTWVERSN	4	2
NTW1DFUL	9	40
NTW1FFUL	9	20
NTW1GAR	9	8
NTW1MAS	9	4
NTW1MASD	9	1
NTW1MASP	9	2
NTW1NCC	9	10
NTW1SEND	9	80

$NVL information

$NVL programming interface information

$NVL is a programming interface.

$NVL heading information

Common name: Volume Allocation Table

Macro ID: $NVL

DSECT name: NVL

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See NVLTBLN

Created by: HASPIRMA

Pointed to by: CIRVOLTB field of the $CIRWORK data area

Serialization: None required

Function: Maps the description of SPOOL volumes defined via initialization statements or discovered via a UCB scan.

$NVL mapping

Table 363. Structure NVL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NVL	Allocation table entry DSECT
0	(0)	CHARACTER	6	NVLVOLID	Volume serial number
6	(6)	CHARACTER	44	NVLDSN	Data set name
50	(32)	BITSTRING	1	NVLFLAGS	Allocation request flags
51	(33)	BITSTRING	1	NVLTYPE	NVL type flag
		1...		NVLINIT	"B'10000000'" Init statement created
52	(34)	BITSTRING	128	NVLSYAFN	Spool system affinity name list

Table 363. Structure NVL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
180	(B4)	ADDRESS	4	NVLUCBPT	Volume UCB address
184	(B8)	CHARACTER	8	NVLPTOKN	PIN token from $GETUCBS
192	(C0)	DBL WORD	8	(0)	
192	(C0)	X'C0'	0	NVLTBLN	"*-NVL" Length of NVL table

Table 364. Cross Reference for $NVL

Name	Offset	Hex Tag
NVL	0	
NVLDSN	6	
NVLFLAGS	32	
NVLINIT	33	80
NVLPTOKN	B8	
NVLSYAFN	34	
NVLTBLN	C0	C0
NVLTYPE	33	
NVLUCBPT	B4	
NVLVOLID	0	

$OCR information

$OCR programming interface information

$OCR is a programming interface.

$OCR heading information

Common name: OUTPUT Control Record DSECT

Macro ID: $OCR

DSECT name: OCR

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: See $OCT
Key: See $OCT
Residency: See $OCT

Size: See OCRLENG

Created by: Initially created by HASPRCCS routine in HASCSRIP when a job encounters a /*OUTPUT card.

Pointed to by: OCRs reside in the OCT starting at label OCTOCR. The offset beyond the last OCR in the OCT is in OCTOFOCR.

Serialization: While a job is in execution, the OCR resides in the user address space, so that no other JES2 PCE will update the OCR. At other times, the JES2 dispatcher is used.

Function: The $OCR contains the information supplied on a /*OUTPUT JES2 JCL statement. The OCRs are contained in the OCT.

$OCR mapping

Table 365. Structure OCR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCR	OUTPUT CONTROL RECORD DSECT
0	(0)	CHARACTER	4	OCRCODE	FORMS CODE
4	(4)	CHARACTER	5	(0)	KEEP MOD AND MODC TOGETHER
4	(4)	CHARACTER	4	OCRMODF	N/I PRINTER COPY-MOD IMAGE
8	(8)	BITSTRING	1	OCRMODFT	N/I PRINTER MODIFY TAB REF CHAR
9	(9)	BITSTRING	1	OCRFLAGS	OUTPUT FLAGS
10	(A)	BITSTRING	1	OCRINDEX	PRINT INDEX
11	(B)	BITSTRING	1	OCRCOPY	COPY COUNT (MUST PRECEDE COPYG)
12	(C)	CHARACTER	8	OCRCOPYG	N/I PRINTER COPY GROUPS
20	(14)	CHARACTER	4	OCRFORMS	FORMS SPECIFICATION
24	(18)	CHARACTER	4	OCRFCB	FCB SPECIFICATION
28	(1C)	CHARACTER	4	OCRUCS	UCS SPECIFICATION
32	(20)	SIGNED	4	OCRRECNT	RECORD COUNT LIMIT
36	(24)	CHARACTER	4	OCRCHAR1	N/I PRINTER TRANS-TABLE 1
40	(28)	CHARACTER	4	OCRCHAR2	N/I PRINTER TRANS-TABLE 2
44	(2C)	CHARACTER	4	OCRCHAR3	N/I PRINTER TRANS-TABLE 3
48	(30)	CHARACTER	4	OCRCHAR4	N/I PRINTER TRANS-TABLE 4
52	(34)	SIGNED	4	OCRDEST1	DESTINATION 1
56	(38)	CHARACTER	8	OCRUSER1	DESTINATION 1 USERID/RMTID
56	(38)	X'C'	0	OCRUSDST	"*-OCRDEST1" LNGTH OF 1 OCR USERID/ DEST UNIT
64	(40)	SIGNED	4	OCRDEST2	DESTINATION 2
68	(44)	CHARACTER	8	OCRUSER2	DESTINATION 2 USERID/RMTID
76	(4C)	SIGNED	4	OCRDEST3	DESTINATION 3
80	(50)	CHARACTER	8	OCRUSER3	DESTINATION 3 USERID/RMTID
88	(58)	SIGNED	4	OCRDEST4	DESTINATION 4
92	(5C)	CHARACTER	8	OCRUSER4	DESTINATION 4 USERID/RMTID
92	(5C)	X'30'	0	OCRUDND	"*-OCRDEST1" END OF DEST/USER ID SECTION
100	(64)	CHARACTER	5	(0)	KEEP FLASH, FLASH CNT TOGETHER
100	(64)	CHARACTER	4	OCRFLASH	N/I PRINTER FLASH
104	(68)	BITSTRING	1	OCRFLSHC	N/I PRINTER # FLASH COPIES
105	(69)	BITSTRING	1	OCRCPTN	COMPACTION TABLE NUMBER
106	(6A)	SIGNED	2	OCRCKPTP	NO. OF LOGICAL PAGES/CKPT
108	(6C)	SIGNED	2	OCRCKPTL	NO. OF LINES/LOGICAL PAGE
110	(6E)	BITSTRING	1	OCRLINCT	LINECT
111	(6F)	BITSTRING	12		RESERVED
124	(7C)	SIGNED	4	OCREND(0)	END OF OUTPUT CONTROL RECORD
124	(7C)	X'7C'	0	OCRLENG	"*-OCR"
	OCRFLAGS				
		1...		OCRBRSTN	"B'10000000'" N/I PRINTER BURST=NO FLAG
		.1..		OCRBRSTY	"B'01000000'" N/I PRINTER BURST=YES FLAG

Table 365. Structure OCR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		OCRLNCTF	"B'00100000'" LINECT SPECIFIED
		...1		OCRFLAG3	"B'00010000'" RESERVED
		.... 1...		OCRFLAG4	"B'00001000'" RESERVED
		.... .1..		OCRFLAG5	"B'00000100'" RESERVED
		.... ..1.		OCRFLAG6	"B'00000010'" RESERVED
		1		OCRFLAG7	"B'00000001'" RESERVED

Table 366. Cross Reference for $OCR

Name	Offset	Hex Tag
OCR	0	
OCRBRSTN	7C	80
OCRBRSTY	7C	40
OCRCHAR1	24	
OCRCHAR2	28	
OCRCHAR3	2C	
OCRCHAR4	30	
OCRCKPTL	6C	
OCRCKPTP	6A	
OCRCODE	0	
OCRCOPY	B	
OCRCOPYG	C	
OCRCPTN	69	
OCRDEST1	34	
OCRDEST2	40	
OCRDEST3	4C	
OCRDEST4	58	
OCREND	7C	
OCRFCB	18	
OCRFLAGS	9	
OCRFLAG3	7C	10
OCRFLAG4	7C	8
OCRFLAG5	7C	4
OCRFLAG6	7C	2
OCRFLAG7	7C	1
OCRFLASH	64	
OCRFLSHC	68	
OCRFORMS	14	
OCRINDEX	A	
OCRLENG	7C	7C
OCRLINCT	6E	
OCRLNCTF	7C	20
OCRMODF	4	
OCRMODFT	8	
OCRRECNT	20	
OCRUCS	1C	

Table 366. Cross Reference for $OCR (continued)

Name	Offset	Hex Tag
OCRUDND	5C	30
OCRUSDST	38	C
OCRUSER1	38	
OCRUSER2	44	
OCRUSER3	50	
OCRUSER4	5C	

$OCT information

$OCT programming interface information

$OCT is a programming interface.

$OCT heading information

Common name: Output Control Table

Macro ID: $OCT

DSECT name: OCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: OCT
Offset: OCTID-OCT
Length: L'OCTID

Storage attributes: Subpool: 7 for Main Task,
230 for User Environment
Key: 1
Residency: The $OCT is a JES2 spool resident control block.
Virtual and real storage can be anywhere.

Size: See OCTLENG for the length of the control block.
The OCT is contained in a buffer of size $BUFSIZE
which is a field in $HCT.

Created by: Initially created by HASPRDR when a job encounters
a /*OUTPUT card.

Pointed to by: OCTOCT field of the $OCT data area
SJBOCT field of the $SJB data area
OCTOCTTR field of the $OCT data area (addr on spool)
JCTOCTTR field of the $JCT data area (addr on spool)
Various fields in the processor work areas

Serialization: While a job is in execution, the OCT resides in the
user address space, so that no other JES2 PCE will
update the OCT. At other times, the JES2 dispatcher
is used.

Function: The OCT is used to hold data from the /*OUTPUT control
card until a PDDB is created into which the data is
then moved.

$OCT mapping

Table 367. Structure OCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCT	HASP OUTPUT CONTROL TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'40'	0	OCTOCT	"BUFMEMW1-BFPDSECT+OCT" Storage address of next OCT

Table 367. Structure OCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	OCTSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	OCTID	Eyecatcher
108	(6C)	CHARACTER	8	OCTJNAME	Job name
116	(74)	SIGNED	4	OCTJBNUM	Job number
120	(78)	SIGNED	4	OCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	OCTSPLNG	"*-OCTID"
128	(80)	ADDRESS	2	OCTLENG	LENGTH OF OCT INCLUDING PREFIX
130	(82)	SIGNED	1	OCTVERS	OCT version:
130	(82)	X'0'	0	OCTVER0	"0" Pre-z/OS 1.12 (MTTRs)
130	(82)	X'C'	0	OCTVER12	"12" z/OS 1.12+ (MQTRs)
131	(83)	BITSTRING	1		RESERVED FOR FUTURE USE
		OCTVER0 (Pre-z/OS 1.12) OCT format:			
132	(84)	BITSTRING	4	OCTTRACK_Z11	Track address (MTTR) of this OCT
136	(88)	BITSTRING	4	OCTOCTTR_Z11	Track address (MTTR) of next OCT
140	(8C)	SIGNED	4	OCTOCROF_Z11	Offset beyond last OCR in OCT
144	(90)	BITSTRING	4	OCTRSV1_Z11	Reserved for future use
		OCTVER12 (z/OS 1.12+) OCT format:			
132	(84)	BITSTRING	6	OCTCURTK	Track address (MQTR) of this OCT
138	(8A)	BITSTRING	6	OCTNXTTK	Track address (MQTR) of next OCT
144	(90)	SIGNED	4	OCTOFOCR	Offset beyond last OCR in OCT
		START OF OUTPUT CONTROL RECORDS ($OCRs)			
148	(94)	BITSTRING	1	OCTOCR	START OF OUTPUT CONTROL RECORDS

Table 368. Cross Reference for $OCT

Name	Offset	Hex Tag
OCT	0	
OCTCURTK	84	
OCTID	68	
OCTJBKEY	78	
OCTJBNUM	74	
OCTJNAME	6C	
OCTLENG	80	

Table 368. Cross Reference for $OCT (continued)

Name	Offset	Hex Tag
OCTNXTTK	8A	
OCTOCR	94	
OCTOCROF_Z11	8C	
OCTOCT	0	40
OCTOCTTR_Z11	88	
OCTOFOCR	90	
OCTRSV1_Z11	90	
OCTSPLNG	7C	18
OCTSTART	0	68
OCTTRACK_Z11	84	
OCTVERS	82	
OCTVER0	82	0
OCTVER12	82	C

$ODPARM information

$ODPARM programming interface information

$ODPARM is a programming interface.

$ODPARM heading information

Common name: Output Descriptor Parameter Block

Macro ID: $ODPARM

DSECT name: ODPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'ODP '
Offset: ODPID-ODP
Length: 4

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See ODPSIZE

Created by: SJF Services processor for each request that is passed to the Output Descriptor Modify Subtask processor.

Pointed to by: SFRODP field of the $SFRB data area

Serialization: None required; HASPSJFR subtask assigns one ODPARM per subtask to process a request.

Function: This macro provides the mapping of the parameters needed by the Output Descriptor routine called by the generalized subtask in support of SWB Modify processing.

$ODPARM mapping

Table 369. Structure ODPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODPARM	
0	(0)	X'0'	0	ODPBGN	"*"

Table 369. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	ODPID	Acronym set to 'ODP '
4	(4)	BITSTRING	1	ODPVER	Version number of ODPARM
4	(4)	X'1'	0	ODPV#	"1" Current version number of ODPARM
5	(5)	BITSTRING	1	ODPRSV1	Reserved
6	(6)	SIGNED	2	ODPRSV2	Reserved
8	(8)	ADDRESS	4	ODPWAVE	Address of WAVE
12	(C)	ADDRESS	4	ODPJOEA	Address of JOE
		Output descriptor subtask work area begins here Footprints for SWB Modify Subtask			
16	(10)	BITSTRING	1	ODPFOOT	Footprint area - current
17	(11)	BITSTRING	1	ODPFOOTP	Footprint area - previous
17	(11)	X'1'	0	ODPFSTR	"1" Footprint - Convert Dest
17	(11)	X'2'	0	ODPFCNV	"2" Footprint - Convert Dest
17	(11)	X'3'	0	ODPFSAF	"3" Footprint - SAF calls
17	(11)	X'4'	0	ODPFMGI	"4" Footprint - Merge init.
17	(11)	X'5'	0	ODPFDSP	"5" Footprint - Despool SWBITs
17	(11)	X'6'	0	ODPFMGS	"6" Footprint - $Merge setup
17	(11)	X'7'	0	ODPFSJM	"7" Footprint - SJF/$MERG
17	(11)	X'8'	0	ODPFSJS	"8" Footprint - SJF Split
17	(11)	X'9'	0	ODPFTUS	"9" Footprint - Move TUs
17	(11)	X'A'	0	ODPFWRI	"10" Footprint - Write init.
17	(11)	X'B'	0	ODPFIOT	"11" Footprint - IOT access
17	(11)	X'C'	0	ODPFMTR	"12" Footprint - Alloc MTTR
17	(11)	X'D'	0	ODPFSPL	"13" Footprint - Write SWBIT
17	(11)	X'E'	0	ODPFCLP	"14" Footprint - Merge cleanup
17	(11)	X'F'	0	ODPPREC	"15" Footprint - In recovery
		Error Reason Codes from SWB Modify Subtask			
17	(11)	X'4'	0	ODPRSAF	"4" SAF call failure ($SEAS)
17	(11)	X'8'	0	ODPRIOE	"8" I/O error on Spool
17	(11)	X'C'	0	ODPRSERV	"12" JES2 service rtn error
17	(11)	X'10'	0	ODPRDEST	"16" Dest processing error
17	(11)	X'14'	0	ODPRMERG	"20" Error during Merge service
17	(11)	X'18'	0	ODPRSPLT	"24" Error during Split service
17	(11)	X'1C'	0	ODPRABN	"28" Subtask abended
17	(11)	X'20'	0	ODPRIOT	"32" IOT is not valid
17	(11)	X'24'	0	ODPRBADP	"36" Bad parm. or control block
17	(11)	X'8'	0	ODPERR8	"8" Subtask return code
18	(12)	BITSTRING	1	ODPFLG1	Flag
		1		ODPNOBAS	"B'00000001'" No base SWBITs in JOE
		.... ..1.		ODPERBAS	"B'00000010'" Base Erase Tus exist
		.... .1..		ODPNOOVR	"B'00000100'" No override SWBTU present
		.... 1...		ODPNOMRG	"B'00001000'" No $SWBMERG required

Table 369. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ODPABND	"B'00010000'" Recovery routine entered
		..1.		ODPRCUR	"B'00100000'" Abend recursion flag
19	(13)	BITSTRING	1	ODPFLG2	Processing status flag (used by both JES2&subtsk)
		The following two bits are mutually exclusive. If neither is on, the current destination is kept as is.			
		1...		ODP2NOIP	"B'10000000'" Dest is NOT in IP format
		.1..		ODP2IPAD	"B'01000000'" Dest is in IP format
		..1.		ODP2ERAS	"B'00100000'" Dest is to be erased
20	(14)	SIGNED	2	ODPDATLN	Size of SWBIT Data area
22	(16)	SIGNED	2	ODPRSVW1	Reserved for subtask use
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	CHARACTER	20	ODPDSAFW	20 byte DEST/SAF work area
44	(2C)	SIGNED	4	ODPWRK1	Work area for subtask
48	(30)	SIGNED	4	ODPWRK2	Work area for subtask
52	(34)	ADDRESS	4	ODPSERVP	MERGE/SPLIT parm area
56	(38)	ADDRESS	4	ODPSERVL	MEREGE/SPLIT parm length
60	(3C)	ADDRESS	4	ODPMTUAD	$MERGE SWBTU output addr
64	(40)	ADDRESS	4	ODPFINB	First input SWBIT buffer
68	(44)	ADDRESS	4	ODPFIRB	First output SWBIT buffer
72	(48)	ADDRESS	4	ODPCURB	Current SWBIT buffer addr
76	(4C)	ADDRESS	4	ODPPREB	Previous SWBIT buffer addr
80	(50)	ADDRESS	4	ODPERAD	Cumulative erase TU addr
84	(54)	ADDRESS	4	ODPTUAD	address of merged SWBTU
88	(58)	SIGNED	2	ODPERCLN	Cumulative erase TU length
90	(5A)	SIGNED	2	ODPTUCLN	Cumulative SWBTU length
92	(5C)	SIGNED	2	ODPTUNUM	Number of base SWBTUs
94	(5E)	SIGNED	2	ODPRSVH1	Reserved for devel.
96	(60)	ADDRESS	4	ODPSJIO	Address of SJIOB
100	(64)	ADDRESS	4	ODPIOTB	Addr IOT buffers
104	(68)	SIGNED	4	ODPSJRC	SJF Service return code
108	(6C)	SIGNED	4	ODPSJRS	SJF Service reason code
112	(70)	ADDRESS	4	ODPPCE	Address of PCE
116	(74)	SIGNED	4	ODPRSVS1	Reserved for service
120	(78)	DBL WORD	8	(0)	Alignment
120	(78)	ADDRESS	4	ODPJOAA	Address of UPDATE MODE JOA.
124	(7C)	CHARACTER	76	ODPCHJOE	Char-JOE area
200	(C8)	CHARACTER	8	ODPJUSER	Input - JOEUSER from characteristic JOE Output - Userid included in modify SWBTU or '<IP>' if new dest is in IP-format.
208	(D0)	BITSTRING	4	ODPROUT	Route code from DEST mod TU
212	(D4)	CHARACTER	84	ODPTKWRK	Security token work area
296	(128)	DBL WORD	8	(0)	Alignment
296	(128)	CHARACTER	96	ODPJQE	Work-JQE area

Table 369. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	CHARACTER	56	ODPJSPLS	JESSPOOL logstring
448	(1C0)	DBL WORD	8	(0)	End on a Dblword boundary
448	(1C0)	X'1C0'	0	ODPSIZE	"*-ODPBGN" Size of parameter area

Table 370. Cross Reference for $ODPARM

Name	Offset	Hex Tag
ODPABND	12	10
ODPARM	0	
ODPBGN	0	0
ODPCHJOE	7C	
ODPCURB	48	
ODPDATLN	14	
ODPDSAFW	18	
ODPERAD	50	
ODPERBAS	12	2
ODPERCLN	58	
ODPERR8	11	8
ODPFCLP	11	E
ODPFCNV	11	2
ODPFDSP	11	5
ODPFINB	40	
ODPFIOT	11	B
ODPFIRB	44	
ODPFLG1	12	
ODPFLG2	13	
ODPFMGI	11	4
ODPFMGS	11	6
ODPFMTR	11	C
ODPFOOT	10	
ODPFOOTP	11	
ODPFSAF	11	3
ODPFSJM	11	7
ODPFSJS	11	8
ODPFSPL	11	D
ODPFSTR	11	1
ODPFTUS	11	9
ODPFWRI	11	A
ODPID	0	
ODPIOTB	64	
ODPJOAA	78	
ODPJOEA	C	
ODPJQE	128	
ODPJSPLS	188	
ODPJUSER	C8	
ODPMTUAD	3C	

Table 370. Cross Reference for $ODPARM (continued)

Name	Offset	Hex Tag
ODPNOBAS	12	1
ODPNOMRG	12	8
ODPNOOVR	12	4
ODPPCE	70	
ODPPREB	4C	
ODPPREC	11	F
ODPRABN	11	1C
ODPRBADP	11	24
ODPRCUR	12	20
ODPRDEST	11	10
ODPRIOE	11	8
ODPRIOT	11	20
ODPRMERG	11	14
ODPROUT	D0	
ODPRSAF	11	4
ODPRSERV	11	C
ODPRSPLT	11	18
ODPRSVH1	5E	
ODPRSVS1	74	
ODPRSVW1	16	
ODPRSV1	5	
ODPRSV2	6	
ODPSERVL	38	
ODPSERVP	34	
ODPSIZE	1C0	1C0
ODPSJIO	60	
ODPSJRC	68	
ODPSJRS	6C	
ODPTKWRK	D4	
ODPTUAD	54	
ODPTUCLN	5A	
ODPTUNUM	5C	
ODPV#	4	1
ODPVER	4	
ODPWAVE	8	
ODPWRK1	2C	
ODPWRK2	30	
ODP2ERAS	13	20
ODP2IPAD	13	40
ODP2NOIP	13	80

$OPAWORK information

$OPAWORK heading information

Common name: JES2 Output Priority Aging PCE Work Area

Macro ID: $OPAWORK

DSECT name: PCE ($OPAWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol OPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $PRYOPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by a JES2 Output Priority Aging Processor and by its support routines and exits. $OPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $OPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$OPAWORK mapping

Table 371. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	12	OPATQE	HASP Timer Queue Element
340	(154)	SIGNED	4		Reserved for future use
344	(158)	DBL WORD	8	(0)	Force double-word alignment
344	(158)	X'10'	0	OPAPCEWS	"*-PCEWORK" Length of work area

$OUTWORK information

$OUTWORK programming interface information

$OUTWORK is a programming interface.

$OUTWORK heading information

Common name: JES2 Output PCE Work Area

Macro ID: $OUTWORK

DSECT name: PCE ($OUTWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol OUTWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $OUTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Output PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Output Processor and by its support routines and exits. $OUTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $OUTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOUTID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$OUTWORK mapping

Table 372. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	SIGNED	4	OUTIOTBF	ADDRESS OF IOT BUFFER CHAIN
332	(14C)	SIGNED	4	OUTJCTBF	ADDRESS OF JCT BUFFER
336	(150)	SIGNED	4	OUTPDDB	RESTART PDDB POINTER
340	(154)	SIGNED	4	OUTIMEON(2)	OUTPUT PROCESSOR TIME/DATE
348	(15C)	ADDRESS	4	OUTJOAA	Addr of buffer containing PROTOTYPE JOA
352	(160)	SIGNED	4	OUTJOAL	Length of buffer containing PROTOTYPE JOA
356	(164)	SIGNED	4	OUTDBEND	1ST FREE PDDB SLOT IN IOT
360	(168)	SIGNED	4	OUTIOT	RESTART IOT ADDRESS
364	(16C)	SIGNED	4	OUTIOTM	Number of IOTs in memory
368	(170)	SIGNED	4	OUTJBKEY	JOB KEY FROM JCTJBKEY
372	(174)	BITSTRING	1	OUTJCOPY	JOB LEVEL COPY COUNT FROM JCT
373	(175)	BITSTRING	2		RESERVED
375	(177)	BITSTRING	1	OUTFLAGS	OUTPUT PROCESSOR FLAGS
376	(178)	SIGNED	4	OUTGGTOK	GENERIC GROUPING TOKEN
380	(17C)	SIGNED	4	OUTEXPRM(0)	EXIT 16 PARAMETER LIST
380	(17C)	SIGNED	4	OUTMADD	EXIT MESSAGE ADDRESS
384	(180)	SIGNED	4	OUTMPRM	EXIT PARM LIST ADDRESS
388	(184)	SIGNED	4	OUTMJCT	ADDRESS OF JCT
392	(188)	ADDRESS	4	OUTDSSCB	ADDR OF DSSCB WORK AREA
396	(18C)	CHARACTER	32	OUTGRPPM	OUTPUT GROUPING PARM LIST
428	(1AC)	ADDRESS	4	OUTQPARM	NODE TABLE ADDRESS
432	(1B0)	ADDRESS	4		CONTROL BLOCK ADDRESS
436	(1B4)	ADDRESS	4		ADDRESS OF JQE
440	(1B8)	ADDRESS	1		QUEUE TYPE SPECIFIED
441	(1B9)	ADDRESS	1		WORK SELECTION TYPE FLAG
442	(1BA)	ADDRESS	1		Response byte flags
443	(1BB)	ADDRESS	1		Reserved
443	(1BB)	X'1AC'	0	OUTPLST	"OUTQPARM,*-OUTQPARM" QGET PARAMETER LIST STORAGE

Table 372. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
444	(1BC)	CHARACTER	36	OUTNOTPL	Parm list storage for $HNOTIFY call from DSAL
480	(1E0)	DBL WORD	8	(0)	
480	(1E0)	DBL WORD	8	OUTPRTIM	Time since PRIV PCE last used in shortage context. Only valid if PCEFLGCS -> PCEPRIVI
480	(1E0)	X'12C'	0	OUTPWAIT	"300" Number of seconds PRIV PCE should wait before going away. During this time no JOE shortage was encountered.
488	(1E8)	BITSTRING	80	OUTCTKNO	Old CTOKEN work area
568	(238)	DBL WORD	8	(0)	
568	(238)	BITSTRING	56	OUTX40PL	Exit 40 XPL parmlist
624	(270)	DBL WORD	8	(0)	
624	(270)	X'128'	0	OUTWKSIZ	"*-PCEWORK" LENGTH OF HOPE PCE WORK AREA
	OUTFLAGS				
		1...		OUTSTATS	"B'10000000'" JOB Statistics created
		.... 1...		OUTJOBER	"B'00001000'" Job finished abnormally

Table 373. Cross Reference for $OUTWORK

Name	Offset	Hex Tag
OUTCTKNO	1E8	
OUTDBEND	164	
OUTDSSCB	188	
OUTEXPRM	17C	
OUTFLAGS	177	
OUTGGTOK	178	
OUTGRPPM	18C	
OUTIMEON	154	
OUTIOT	168	
OUTIOTBF	148	
OUTIOTM	16C	
OUTJBKEY	170	
OUTJCOPY	174	
OUTJCTBF	14C	
OUTJOAA	15C	
OUTJOAL	160	
OUTJOBER	270	8
OUTMADD	17C	
OUTMJCT	184	
OUTMPRM	180	
OUTNOTPL	1BC	
OUTPDDB	150	
OUTPLST	1BB	1AC
OUTPRTIM	1E0	0
OUTPWAIT	1E0	12C

Table 373. Cross Reference for $OUTWORK (continued)

Name	Offset	Hex Tag
OUTQPARM	1AC	
OUTSTATS	270	80
OUTWKSIZ	270	128
OUTX40PL	238	
PCE	0	

$PAD information

$PAD heading information

Common name: Data set allocation descriptor

Macro ID: $PAD

DSECT name: PAD

Owning component: JES2 (SC1BH)

Eye-catcher ID: PAD
Offset: PADID
Length: L'PADID

Storage attributes: Subpool: N/A
Key: 1
Residency: Located in the PAD JES2 $CPOOL in the PSO data space.

Size: See PADLEN

Created by: HASPSXIT for the PROCLIB, SUBMITLIB, and POLICYLIB command and init statements

Pointed to by: CCTPAD field of the HCCT data area
SBTDDLIB filed of the SBMT data area
$POLCYDD filed of the HCT data area
PADPAD field of the PAD data area
PADALT field of the PAD data area
PADDAD field of the PAD data area

Serialization: None required

Function: The PAD is used to manage DD concatenations used by JES2. There are 3 types of PADs currently:
- PROCLIB data set PADS (the traditional use)
- SUBMITLIB data set PADs used by the $SUBMIT command
- POLICYLIB data set PADs used to read policies
Logic that allocates and manages data set concatenation is the same for all types of DDs.

$PAD mapping

Table 374. Structure PAD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PAD	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PADID	Eyecatcher
4	(4)	SIGNED	4	PADSIZE	PAD length
8	(8)	CHARACTER	8	PADNAME	Logical DD name
16	(10)	CHARACTER	8	PADALCDD	Allocated DD name
24	(18)	DBL WORD	8	PADCRTIM	PAD creation time
32	(20)	DBL WORD	8	PADDLTIM	Time of last PAD deletion attempt
40	(28)	BITSTRING	1	PADFLAG1	General flag byte
		1...		PAD1DEL	"B'10000000'" PAD deleted
		.1..		PAD1UNC	"B'01000000'" Unconditional allocation

Table 374. Structure PAD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PAD1COND	"B'00100000'" Conditional allocation
		...1		PAD1UNAP	"B'00010000'" Unallocation in progress
		.... 1...		PAD1STAT	"B'00001000'" PAD represents a static allocation (from PROC)
		.... .1..		PAD1CIFA	"B'00000100'" A C/I addr space failed to allocate PROCLIB
		.... ..1.		PAD1UPTH	"B'00000010'" PAD contains a PATH DD
		1		PAD1NOMV	"B'00000001'" A path was not allocated because OMVS not active
41	(29)	BITSTRING	2		Reserved
43	(2B)	BITSTRING	1	PADTYPE	PAD type
43	(2B)	X'1'	0	PADTPROC	"1" PROCLIB type PAD
43	(2B)	X'2'	0	PADTSBMT	"2" SUBMITLIB type PAD
43	(2B)	X'3'	0	PADTPLCY	"3" POLICYLIB type PAD
44	(2C)	ADDRESS	4	PADPAD	PAD chain pointer
48	(30)	ADDRESS	4	PADALT	Alternate PAD chain
52	(34)	ADDRESS	4	PADDAD	Owning (main) pad
56	(38)	SIGNED	4	PADUSE	PAD use count
60	(3C)	SIGNED	4	PADDSNLW	Low data set subscript (always 1)
64	(40)	SIGNED	4	PADDSNCT	Data set count
68	(44)	BITSTRING	12		Reserved
80	(50)	DBL WORD	8	PADDSET(0)	Data set specifications
80	(50)	BITSTRING	24480	(255)	Max data set specifications
24560	(5FF0)	DBL WORD	8	PADCIALC(0)	C/I address space allocs
24560	(5FF0)	BITSTRING	0	(0)	Max C/I alloc areas
24760	(60B8)	DBL WORD	8	(0)	Ensure alignment
24760	(60B8)	X'60B8'	0	PADLEN	"*-PAD" Maximum PAD length

Table 375. Structure PADE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADE	, PAD data set entry
0	(0)	CHARACTER	44	PADEDSN	Data set name
44	(2C)	CHARACTER	8	PADEUNIT	Data set unit
52	(34)	CHARACTER	6	PADEVOL	Data set VOLSER
0	(0)	CHARACTER	88	PADEPATH	Path name for DD
88	(58)	BITSTRING	1	PADEFLG1	Flag byte
		1...		PADE1ALF	"B'10000000'" Data set not allocated (failed)
		.1..		PADE1JFR	"B'01000000'" JFCB read failed for DS
		..1.		PADE1PTH	"B'00100000'" Path name was specified
		...1		PADE1XVS	"B'00010000'" VOLSER was extracted from JFCB (vs specified)
		.... 1...		PADE1PDE	"B'00001000'" Data set is a PDSE
89	(59)	BITSTRING	1	PADERCFM	Record format (RECFM)

Table 375. Structure PADE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
JFCUND EQU X'C0' U - Undefined
JFCFIX EQU X'80' F - Fixed
JFCVAR EQU X'40' V - Variable
JFCVARD EQU X'20' D - Variable (for
                                    USASI/USASCII)
JFCRFO EQU X'20' T - Track overflow
JFCRFB EQU X'10' B - BLOCKED - (may not
                                    occur with undefined)
JFCRFS EQU X'08' S - For fixed length record
                                    format, standard
                                    blocks. No truncated
                                    blocks or unfilled
                                    tracks are embedded in
                                    the data set.
                                    For variable length
                                    record format, spanned
                                    records.
JFCASA EQU X'04' A - American national
                                    standard (ASA) control
                                    character (IOS/ANSI)
JFCMAC EQU X'02' M - Machine code control
                                    character
```

90	(5A)	SIGNED	2	PADELRCL	Record length (LRECL)
92	(5C)	SIGNED	2	PADEBLKS	Block size (BLKSIZE)
94	(5E)	BITSTRING	2		Reserved
96	(60)	SIGNED	4	(0)	Align
96	(60)	X'60'	0	PADELEN	"*-PADE" Length of data set entry

Table 376. Structure PADA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADA	, PAD data set entry
0	(0)	ADDRESS	4	PADACICB	Owning CICB address (Zero if not in use)
4	(4)	BITSTRING	1	PADAFLG1	Flag byte (set by AS)
		1...		PADA1ALC	"B'10000000'" DD name is allocated
		.1..		PADA1ALF	"B'01000000'" Allocation has failed
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	(0)	Align
8	(8)	X'8'	0	PADALEN	"*-PADA" Length of data set entry

Table 377. Cross Reference for $PAD

Name	Offset	Hex Tag
PAD	0	
PADA	0	
PADACICB	0	
PADAFLG1	4	
PADALCDD	10	
PADALEN	8	8
PADALT	30	
PADA1ALC	4	80
PADA1ALF	4	40
PADCIALC	5FF0	
PADCRTIM	18	
PADDAD	34	

Table 377. Cross Reference for $PAD (continued)

Name	Offset	Hex Tag
PADDLTIM	20	
PADDSET	50	
PADDSNCT	40	
PADDSNLW	3C	
PADE	0	
PADEBLKS	5C	
PADEDSN	0	
PADEFLG1	58	
PADELEN	60	60
PADELRCL	5A	
PADEPATH	0	
PADERCFM	59	
PADEUNIT	2C	
PADEVOL	34	
PADE1ALF	58	80
PADE1JFR	58	40
PADE1PDE	58	8
PADE1PTH	58	20
PADE1XVS	58	10
PADFLAG1	28	
PADID	0	D7C1C440
PADLEN	60B8	60B8
PADNAME	8	
PADPAD	2C	
PADSIZE	4	
PADTPLCY	2B	3
PADTPROC	2B	1
PADTSBMT	2B	2
PADTYPE	2B	
PADUSE	38	
PAD1CIFA	28	4
PAD1COND	28	20
PAD1DEL	28	80
PAD1NOMV	28	1
PAD1STAT	28	8
PAD1UNAP	28	10
PAD1UNC	28	40
PAD1UPTH	28	2

$PADDR information

$PADDR heading information

Common name: Private Storage Routine Address Table/DSECT

Macro ID: $PADDR

DSECT name: PADDR

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PADR'
Offset: PADDRID-PADDR
Length: 4

Storage attributes: Subpool: The subpool of the HASJES20 load module
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.

Size: See PADDRLEN

Created by: The $PADDR is created by assembly of the HASPNUC module in the HASJES20 load module.

Pointed to by: $PADDR field of the $HCT data area

Serialization: Read only, except for JES2 initialization processing for PC routines

Function: The PADDR contains the addresses of all JES2 private storage service routines to which access is required from multiple assembly modules or installation exits. This table may be used by $CALL to locate routines residing in private storage in the JES2 address space. $CALL uses this table to find either the address or PC number for the called routine.
This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

$PADDR mapping

Table 378. Structure PADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	PADDRID	PADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	PADDRV	VERSION NUMBER
4	(4)	X'6'	0	PADDRVN	"6" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
		Module HASCOFST entries, listed alphabetically (for the copy of HASCOFST that is within HASJES20)			
8	(8)	ADDRESS	4	PADDR@OCOOFFST	"V(OCOOFFST)" Offset table for O C O code (data only, not $CALLable) O C O code cannot use this PADDR field, as the PADDR is not frozen.
		Entry addresses for $EXTP services (R14 is used for service options,)			
12	(C)	ADDRESS	4	P@HASPBSCA	"V(HASPBSCA)" Entry to BSC $EXTP routines
16	(10)	ADDRESS	4	P@HASPROUT	"V(HASPROUT)" Entry to NJE job route srv.
20	(14)	ADDRESS	4	P@HASPSNAA	"V(HASPSNAA)" Entry to SNA $EXTP routines
24	(18)	ADDRESS	4	P@HASPTCPA	"V(HASPTCPA)" Entry to TCP $EXTP routines
28	(1C)	ADDRESS	4	P@HASPXFRA	"V(HASPXFRA)" Entry to XFR $EXTP routines
		Entry addresses for Line manager scan routines			
32	(20)	ADDRESS	4	P@HASPBPRO	"V(HASPBPRO)" BSC Buffer channel end
36	(24)	ADDRESS	4	P@HASPBACT	"V(HASPBACT)" BSC Active line scan

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	ADDRESS	4	P@HASPBUNT	"V(HASPBUNT)" BSC Inactive line scan
44	(2C)	ADDRESS	4	P@HASPBSLN	"V(HASPBSLN)" BSC Secondary started line scan for SWEL processing
48	(30)	ADDRESS	4	P@HASPSPRO	"V(HASPSPRO)" SNA RPL Completion
52	(34)	ADDRESS	4	P@HASPSLOG	"V(HASPSLOG)" SNA Active logon scan
56	(38)	ADDRESS	4	P@HASPSLNE	"V(HASPSLNE)" SNA Active line scan
60	(3C)	ADDRESS	4	P@HASPSIDL	"V(HASPSIDL)" SNA Idle line scan
64	(40)	ADDRESS	4	P@HASPSUNT	"V(HASPSUNT)" SNA Inactive line scan
68	(44)	ADDRESS	4	P@HASPSACB	"V(HASPSACB)" SNA ACB completion scan
72	(48)	ADDRESS	4	P@HASPSICE	"V(HASPSICE)" SNA ICE scan
76	(4C)	ADDRESS	4	P@HASPSRAT	"V(HASPSRAT)" SNA RAT Autologon scan
80	(50)	ADDRESS	4	P@HASPSSAL	"V(HASPSSAL)" Sna Secondary started line scan for SWEL processing
84	(54)	ADDRESS	4	P@HASPTPRO	"V(HASPTPRO)" TCP/IP buffers queued to main task
88	(58)	ADDRESS	4	P@HASPTACT	"V(HASPTACT)" TCP/IP Active line scan
92	(5C)	ADDRESS	4	P@HASPTIDL	"V(HASPTIDL)" TCP/IP Idle line scan
96	(60)	ADDRESS	4	P@HASPTUNT	"V(HASPTUNT)" TCP/IP Inactive unit scan
100	(64)	ADDRESS	4	P@HASPTASV	"V(HASPTASV)" TCP/IP Active server scan
104	(68)	ADDRESS	4	P@HASPTSSV	"V(HASPTSSV)" TCP/IP Starting server scan
108	(6C)	ADDRESS	4		Reserved
112	(70)	ADDRESS	4		Reserved
116	(74)	ADDRESS	4		Reserved
120	(78)	ADDRESS	4		Reserved
124	(7C)	ADDRESS	4	P@MLMVFY	"V(MLMVFY)" MLLM Verification code
Module HASPARMO routines listed alphabetically					
128	(80)	ADDRESS	4	P@ARODREG	"V(ARODREG)" Deregister job
132	(84)	ADDRESS	4	P@AROQRYA	"V(AROQRYA)" Query registration
Module HASPBSC routines listed alphabetically					
136	(88)	ADDRESS	4	P@MPURIO	"V(MPURIO)" PURGE I/O on line
Module HASPCDYN routines listed alphabetically					
140	(8C)	ADDRESS	4	P@$CDCTDYN	"V($CDCTDYN)" Common DCT CREATE/SYNCH
144	(90)	ADDRESS	4	P@$CNITNOT	"V($CNITNOT)" Common NIT broadcast
Module HASPCFAL routines listed alphabetically					
148	(94)	ADDRESS	4	P@CFALOC	"V(CFALOC)" CF Allocate a structure
Module HASPCFBF routines listed alphabetically					
152	(98)	ADDRESS	4	P@CFBLDLST	"V(CFBLDLST)" CF Build list for writing
Module HASPCFDE routines listed alphabetically					

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4	P@CFDELETE	"V(CFDELETE)" CF Delete all elements
Module HASPCFE routines listed alphabetically					
160	(A0)	ADDRESS	4	P@CFCOMP	"V(CFCOMP)" CF Complete Exit
164	(A4)	ADDRESS	4	P@CFEVENT	"V(CFEVENT)" CF Event Exit
168	(A8)	ADDRESS	4	P@CFNOTIFY	"V(CFNOTIFY)" CF Notify Exit
Module HASPCFFC routines listed alphabetically					
172	(AC)	ADDRESS	4	P@CFFCOMP	"V(CFFCOMP)" CF Force completion
Module HASPCFLE routines listed alphabetically					
176	(B0)	ADDRESS	4	P@CFRDLEC	"V(CFRDLEC)" CF Read the LECs
Module HASPCFMT routines listed alphabetically					
180	(B4)	ADDRESS	4	P@CFFORMAT	"V(CFFORMAT)" CF Format
Module HASPCFQL routines listed alphabetically					
184	(B8)	ADDRESS	4	P@CFQLOCK	"V(CFQLOCK)" CF Query Lock holder
Module HASPCFQU routines listed alphabetically					
188	(BC)	ADDRESS	4	P@CFQUERY	"V(CFQUERY)" CF Query connections to str
Module HASPCFRD routines listed alphabetically					
192	(C0)	ADDRESS	4	P@CFRDATA	"V(CFRDATA)" CF Read data
196	(C4)	ADDRESS	4	P@CFRDONE	"V(CFRDONE)" Read one track 1 record
Module HASPCFRE routines listed alphabetically					
200	(C8)	ADDRESS	4	P@CFREL	"V(CFREL)" CF Release structure lock
204	(CC)	ADDRESS	4	P@$CFTRACE	"V($CFTRACE)" CF Trace routine
Module HASPCFRL routines listed alphabetically					
208	(D0)	ADDRESS	4	P@CFRDLIST	"V(CFRDLIST)" CF Read a list of elements
Module HASPCFRS routines listed alphabetically					
212	(D4)	ADDRESS	4	P@CFRESV	"V(CFRESV)" CF Obtain structure lock
Module HASPCFR2 routines listed alphabetically					
216	(D8)	ADDRESS	4	P@CFREAD2	"V(CFREAD2)" CF Read2
220	(DC)	ADDRESS	4	P@CFPURGE	"V(CFPURGE)" CF Purge processing
Module HASPCFSI routines listed alphabetically					
224	(E0)	ADDRESS	4	P@CFSTRTIO	"V(CFSTRTIO)" CF Start I/O
Module HASPCFT1 routines listed alphabetically					

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
228	(E4)	ADDRESS	4	P@CFTRK1IO	"V(CFTRK1IO)" CF Track1 I/O
Module HASPCFUN routines listed alphabetically					
232	(E8)	ADDRESS	4	P@CFUNAL	"V(CFUNAL)" CF Unallocate a structure
Module HASPCFWP routines listed alphabetically					
236	(EC)	ADDRESS	4	P@CFWRINPL	"V(CFWRINPL)" CF Write in place
Module HASPCFWR routines listed alphabetically					
240	(F0)	ADDRESS	4	P@CFWRITE	"V(CFWRITE)" CF Write
Module HASPCKDA routines listed alphabetically					
244	(F4)	ADDRESS	4	P@KBLDCKB	"V(KBLDCKB)" Build/rebuild CKPT CKB area
MODULE HASPCKDS ROUTINES LISTED ALPHABETICALLY					
248	(F8)	ADDRESS	4	P@CKPTALOC	"V(CKPTALOC)" CHECKPOINT DYNAMIC ALLOCATE RTN
252	(FC)	ADDRESS	4	P@CKPTUNAL	"V(CKPTUNAL)" CHECKPOINT DATASET UNALLOCATE
256	(100)	ADDRESS	4	P@CKPTVSIZ	"V(CKPTVSIZ)" Verify new ckpt size
260	(104)	ADDRESS	4	P@CKPTXPND	"V(CKPTXPND)" Expand size of the CKPT
264	(108)	ADDRESS	4	P@KDIALOG	"V(KDIALOG)" CKPT RECOVERY DIALOG SERVICE
268	(10C)	ADDRESS	4	P@KRELEASE	"V(KRELEASE)" DEQ (RELEASE) A CKPT DS
272	(110)	ADDRESS	4	P@KRESERVE	"V(KRESERVE)" RESERVE A CKPT DATA SET
276	(114)	ADDRESS	4	P@KSETINFO	"V(KSETINFO)" Set CKPT info for SSIs
280	(118)	ADDRESS	4		Reserved for HASPCKDS use
284	(11C)	ADDRESS	4		Reserved for HASPCKDS use
MODULE HASPCKPT ROUTINES LISTED ALPHABETICALLY					
288	(120)	ADDRESS	4	P@$BERTFIX	"V($BERTFIX)" BERT error detect/correct
292	(124)	ADDRESS	4	P@$CKPTQUE	"V($CKPTQUE)" Queue work to CKPT
296	(128)	ADDRESS	4	P@$DOGBERT	"V($DOGBERT)" BERT processing routine
300	(12C)	ADDRESS	4	P@$CKTSRV	"V($CKTSRV)" CKPT tuning service
304	(130)	ADDRESS	4	P@BERTFMT	"V(BERTFMT)" Format the BERT CTENT
308	(134)	ADDRESS	4	P@BERTMAP	"V(BERTMAP)" Process/Build BERT map
312	(138)	ADDRESS	4	P@KBUPDJQE	"V(KBUPDJQE)" Update JQE fields for BLOB
316	(13C)	ADDRESS	4	P@KBUPDSUB	"V(KBUPDSUB)" Update JQETGNBR JQE routine
320	(140)	ADDRESS	4	P@KCPYMSTR	"V(KCPYMSTR)" Copy base info to MASTER or MASTERI
324	(144)	ADDRESS	4	P@KFORMAT	"V(KFORMAT)" REFORMAT A CHECKPOINT DATASET
328	(148)	ADDRESS	4	P@KGETCHLG	"V(KGETCHLG)" Adjust change log size
332	(14C)	ADDRESS	4	P@KPROTECT	"V(KPROTECT)" Page (un)protect the CKPT

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	ADDRESS	4	P@KREAD2	"V(KREAD2)" PERFORM READ2 OF CKPT DATA SET
340	(154)	ADDRESS	4	P@KSETMSTR	"V(KSETMSTR)" Set master record pointers
344	(158)	ADDRESS	4	P@KTRK1IO	"V(KTRK1IO)" PERFORM I/O TO TRK1 OF CKPT DS
348	(15C)	ADDRESS	4	P@QWLMSVDF	"V(QWLMSVDF)" Get WLM service definition
352	(160)	ADDRESS	4		Reserved for HASPCKPT use
356	(164)	ADDRESS	4		Reserved for HASPCKPT use
Module HASPCKRR routines listed alphabetically					
360	(168)	ADDRESS	4	P@CKRRDONE	"V(CKRRDONE)" Complete MAS CKPT reconfig
364	(16C)	ADDRESS	4	P@CKRRINIT	"V(CKRRINIT)" Initialize and create $CKM
368	(170)	ADDRESS	4	P@CKRRMASK	"V(CKRRMASK)" Build affinity mask to dump
372	(174)	ADDRESS	4	P@CKRRSTRT	"V(CKRRSTRT)" Start-up MAS CKPT reconfig
376	(178)	ADDRESS	4	P@CKRRSYNC	"V(CKRRSYNC)" Synchronize MAS reconfig
380	(17C)	ADDRESS	4		Reserved for HASPCKRR use
384	(180)	ADDRESS	4		Reserved for HASPCKRR use
388	(184)	ADDRESS	4		Reserved for HASPCKRR use
392	(188)	ADDRESS	4		Reserved for HASPCKRR use
MODULE HASPCKVR ROUTINES LISTED ALPHABETICALLY					
396	(18C)	ADDRESS	4	P@SHRLIVE	"V(SHRLIVE)" SHARE THE NEW LIVE CHECKPOINT
400	(190)	ADDRESS	4	P@UNSHRLIV	"V(UNSHRLIV)" UNSHARE THE LIVE CHECKPOINT
404	(194)	ADDRESS	4		Reserved
Module HASPCNVT routines listed alphabetically					
408	(198)	ADDRESS	4	P@PROCALOC	"V(PROCALOC)" Allocate PROCLIB data sets
MODULE HASPCOMM ROUTINES LISTED ALPHABETICALLY					
412	(19C)	ADDRESS	4	P@$JCAN	"V($JCAN)" Job cancel routine
416	(1A0)	ADDRESS	4	P@CFPARSE	"V(CFPARSE)" Move and parse command
420	(1A4)	ADDRESS	4	P@CJFLCMB	"V(CJFLCMB)" MVS cancel command in CMB
424	(1A8)	ADDRESS	4	P@COFCVE	"V(COFCVE)" ADDR CONVERT TO EBCDIC HALFWORD ROUTINE
428	(1AC)	ADDRESS	4	P@COFEDTR	"V(COFEDTR)" ADDR CONVERT TO EBCDIC FULLWORD ROUTINE
432	(1B0)	ADDRESS	4	P@COFJMSG	"V(COFJMSG)" ADDR JOB INFORMATION MESSAGE ROUTINE
436	(1B4)	ADDRESS	4	P@COFRTC	"V(COFRTC)" ADDR CONVERT TO EBCDIC ROUTE CODE ROUTINE
440	(1B8)	ADDRESS	4	P@COMBEWTO	"V(COMBEWTO)" Branch Entry WTO targeted to executing job

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
444	(1BC)	ADDRESS	4	P@COMFRELK	"V(COMFRELK)" Free command lock
448	(1C0)	ADDRESS	4	P@CSCANDSP	"V(CSCANDSP)" HASPCOMM $SCAN DISPLAY ROUTINE, USABLE BY $SCANS FROM EXIT 5
452	(1C4)	ADDRESS	4	P@CSMICMD	"V(CSMICMD)" HASPCOMM Single member image routine
456	(1C8)	ADDRESS	4	P@CWTO	"V(CWTO)" ADDR WRITE TO OPERATOR RTN
460	(1CC)	ADDRESS	4	P@CWTOT	"V(CWTOT)" ADDR WRITE TO OPERATOR ROUTINE (TRUNC)
464	(1D0)	ADDRESS	4	P@DILJCAN	"V(DILJCAN)" DILBERT'ed call to $JCAN
468	(1D4)	ADDRESS	4	P@H607RSN	"V(H607RSN)" HASP607 reasons subroutine
	Module HASPCON routines listed alphabetically				
472	(1D8)	ADDRESS	4	P@$DOM	"V($DOM)" HASP DOM routine
476	(1DC)	ADDRESS	4	P@$FRECMB	"V($FRECMB)" Free CMB routine
480	(1E0)	ADDRESS	4	P@$GETCMBR	"V($GETCMBR)" Get CMB routine
484	(1E4)	ADDRESS	4	P@$WTO	"V($WTO)" $WTO routine
488	(1E8)	ADDRESS	4	P@$WTOC	"V($WTOC)" $WTO with CMB routine
492	(1EC)	ADDRESS	4	P@HASPWQUE	"V(HASPWQUE)" Addr of CMB queuing routine for callers that cannot $WAIT
496	(1F0)	ADDRESS	4	P@HASPWQUW	"V(HASPWQUW)" Addr of CMB queuing routine for callers that can tolerate a $WAIT
	Module HASPCSV routines, listed alphabetically				
500	(1F4)	ADDRESS	4	P@$MODCHK	"V($MODCHK)" Check/resolve-from modules
504	(1F8)	ADDRESS	4	P@$MODELET	"V($MODELET)" Delete a load module
508	(1FC)	ADDRESS	4	P@$MODLOAD	"V($MODLOAD)" Load a load module
512	(200)	ADDRESS	4	P@CSV$DEL	"V(CSV$DEL)" Invoke $$$$DEL routine
516	(204)	ADDRESS	4	P@CSV$LOAD	"V(CSV$LOAD)" Invoke $$$$LOAD routine
520	(208)	ADDRESS	4	P@LOCENTRY	"V(LOCENTRY)" Entry point locate routine
524	(20C)	ADDRESS	4	P@LOCLMOD	"V(LOCLMOD)" Locate load module by addr
528	(210)	ADDRESS	4	P@LOCMODMP	"V(LOCMODMP)" Locate MODMAP entry by addr
	MODULE HASPDYN ROUTINES LISTED ALPHABETICALLY - BASIC CONTROL BLOCK ADDITION/DELETION SERVICES				
532	(214)	ADDRESS	4	P@$DCBDYN	"V($DCBDYN)" DYNAMIC DCB ATTACH/ DETACH SERVICE ROUTINE ADDRESS
536	(218)	ADDRESS	4	P@$DCTDYN	"V($DCTDYN)" DYNAMIC DCT ATTACH/ DETACH SERVICE ROUTINE ADDRESS
540	(21C)	ADDRESS	4	P@$DESTDYN	"V($DESTDYN)" DEST (RDT) DYNAMIC BUILD RTN
544	(220)	ADDRESS	4	P@$DTEDYNA	"V($DTEDYNA)" $DTEDYN ATTACH ROUTINE ADDRESS
548	(224)	ADDRESS	4	P@$DTEDYND	"V($DTEDYND)" $DTEDYN DETACH ROUTINE ADDRESS
552	(228)	ADDRESS	4	P@$PCEDYDC	"V($PCEDYDC)" DYNAMIC PCE ATTACH/ DETACH SERVICE FOR A DCT CHAIN

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
556	(22C)	ADDRESS	4	P@$PCEDYN	"V($PCEDYN)" DYNAMIC PCE ATTACH/ DETACH SERVICE ROUTINE ADDRESS
560	(230)	ADDRESS	4	P@PRTDFLT	"V(PRTDFLT)" Printer DCT default routine
	MODULE HASPEVTL ROUTINES LISTED ALPHABETICALLY				
564	(234)	ADDRESS	4	P@$ROLL	"V($ROLL)" Entry to create trace entry
568	(238)	ADDRESS	4	P@TRCDUMP	"V(TRCDUMP)" Entry to TRCDUMP routine
572	(23C)	ADDRESS	4	P@TRCPUT	"V(TRCPUT)" Entry to TRCPUT routine
576	(240)	ADDRESS	4	P@TRGETTB	"V(TRGETTB)" OBTAIN MORE ECSA TRACE TABLES
	MODULE HASPEXT ROUTINES LISTED ALPHABETICALLY				
580	(244)	ADDRESS	4	P@DSNVERFY	"V(DSNVERFY)" Verify data set name
584	(248)	ADDRESS	4	P@HASPEXDS	"V(HASPEXDS)" Extend dataset
	MODULE HASPFSSP ROUTINES LISTED ALPHABETICALLY				
588	(24C)	ADDRESS	4	P@DYNFSS	"V(DYNFSS)" DYNAMIC FSSCB FIND/ATTACH INTERNAL SERVICE ROUTINE (HASPFSSP)
	Entries to HASP Output Process Executive (HASPHOPE)				
592	(250)	ADDRESS	4	P@OPGROUP	"V(OPGROUP)" Grouping routine
596	(254)	ADDRESS	4	P@OPMAILMG	"V(OPMAILMG)" Notify Routine
600	(258)	ADDRESS	4	P@OPNULLCK	"V(OPNULLCK)" Null Data Set check
	ENTRIES TO HASP JOB OUTPUT SERVICES (HASPJOS)				
604	(25C)	ADDRESS	4	P@$#ADD	"V($#ADD)" Entry to JOE add routine
608	(260)	ADDRESS	4	P@$#ALCHK	"V($#ALCHK)" Entry to CHK SPOOL Alloc.
612	(264)	ADDRESS	4	P@$#BLD	"V($#BLD)" Entry to JOE build routine
616	(268)	ADDRESS	4	P@$#BUSY	"V($#BUSY)" Entry to busy bit set rtne
620	(26C)	ADDRESS	4	P@$#CAN	"V($#CAN)" Entry to JOE cancel routine
624	(270)	ADDRESS	4	P@$#CHK	"V($#CHK)" Entry to CHK I/O routine
628	(274)	ADDRESS	4	P@$#DISPRO	"V($#DISPRO)" Entry to update disposition
632	(278)	ADDRESS	4	P@$#FORMAT	"V($#FORMAT)" Entry to format JOT
636	(27C)	ADDRESS	4	P@$#GET	"V($#GET)" Entry to JOE get routine
640	(280)	ADDRESS	4	P@$#GTNEWS	"V($#GTNEWS)" Entry to GET JESNEWS CB
644	(284)	ADDRESS	4	P@$#JOTBLD	"V($#JOTBLD)" Entry to format the JOT
648	(288)	ADDRESS	4	P@$#JOTCHK	"V($#JOTCHK)" Entry to verify/correct JOT
652	(28C)	ADDRESS	4	P@$#JWEL	"V($#JWEL)" Entry to JWEL services
656	(290)	ADDRESS	4	P@$#MOD	"V($#MOD)" Entry to JOE modify routine
660	(294)	ADDRESS	4	P@$#NEWS	"V($#NEWS)" Entry to create JESNEWS DS
664	(298)	ADDRESS	4	P@$#POST	"V($#POST)" Entry to specific post rtne

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
668	(29C)	ADDRESS	4	P@$#PUT	"V($#PUT)" Entry to JOE put routine
672	(2A0)	ADDRESS	4	P@$#RBDCHK	"V($#RBDCHK)" Entry to JQE rebuild/ free check routine
676	(2A4)	ADDRESS	4	P@$#REM	"V($#REM)" Entry to JOE remove routine
680	(2A8)	ADDRESS	4	P@$#REP	"V($#REP)" Entry to JOE replace rtn
684	(2AC)	ADDRESS	4	P@$#RLNEWS	"V($#RLNEWS)" Entry to return JESNEWS CB
688	(2B0)	ADDRESS	4	P@$#TJEV	"V($#TJEV)" SAPI thread hold
692	(2B4)	ADDRESS	4	P@$#ZAPJOE	"V($#ZAPJOE)" Entry to ZAPJOB JOE rtn
696	(2B8)	ADDRESS	4	P@$DOGJOE	"V($DOGJOE)" Entry to DOGJOE service
700	(2BC)	ADDRESS	4	P@ADDTOINX	"V(ADDTOINX)" Add work JOE to PRM/ALT ind
704	(2C0)	ADDRESS	4	P@GTSCREEN	"V(GTSCREEN)" Entry to JOE screen subrtne
708	(2C4)	ADDRESS	4	P@GTSPOOL	"V(GTSPOOL)" Entry to chk spools avail
712	(2C8)	ADDRESS	4	P@JOECLUP	"V(JOECLUP)" JOE cleanup
716	(2CC)	ADDRESS	4	P@JOEPPSCR	"V(JOEPPSCR)" JOE post-screen subroutine
720	(2D0)	ADDRESS	4	P@JOEPSCRN	"V(JOEPSCRN)" JOE pre-screen subroutine
724	(2D4)	ADDRESS	4	P@JOESYNC	"V(JOESYNC)" JOE & JWEL time syncyronize
728	(2D8)	ADDRESS	4	P@JOTFRECL	"V(JOTFRECL)" Clean up free JOEs
732	(2DC)	ADDRESS	4	P@JOTVERIF	"V(JOTVERIF)" Entry to JOT verify rtns
736	(2E0)	ADDRESS	4	P@MNENF58	"V(MNENF58)" Entry to Main tsk ENF58 rtn
740	(2E4)	ADDRESS	4	P@RTNINDEX	"V(RTNINDEX)" Free index and free JOEs
744	(2E8)	ADDRESS	4	P@SAPIPOST	"V(SAPIPOST)" Entry to SAPIPOST
748	(2EC)	ADDRESS	4	P@XCLDVPST	"V(XCLDVPST)" Post WSP for local devices
	Entries to HASP Job Queue Services (HASPJQS)				
752	(2F0)	ADDRESS	4	P@$CLASSIF	"V($CLASSIF)" Entry to WLM Classification
756	(2F4)	ADDRESS	4	P@$CONAFFI	"V($CONAFFI)" Apply concurr-set affin chg
760	(2F8)	ADDRESS	4	P@$DILBERT	"V($DILBERT)" Entry to $DILBERT service
764	(2FC)	ADDRESS	4	P@$DOGDJB	"V($DOGDJB)" Entry to DJB processing
768	(300)	ADDRESS	4	P@$DOGJQE	"V($DOGJQE)" Entry to artificial JQE srv
772	(304)	ADDRESS	4	P@$FREJLOK	"V($FREJLOK)" Free job lock
776	(308)	ADDRESS	4	P@$GETJLOK	"V($GETJLOK)" Get job lock
780	(30C)	ADDRESS	4	P@$JQEMERG	"V($JQEMERG)" Merge JQA into JQE/JQX
784	(310)	ADDRESS	4	P@$QADD	"V($QADD)" Entry to JQE add routine
788	(314)	ADDRESS	4	P@$QBUSY	"V($QBUSY)" Entry to busy bit set rtne
792	(318)	ADDRESS	4	P@$QEXTVER	"V($QEXTVER)" Entry to verify JQE ext.

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
796	(31C)	ADDRESS	4	P@$QEXTFMT	"V($QEXTFMT)" Entry to format JQE ext.
800	(320)	ADDRESS	4	P@$QFORMAT	"V($QFORMAT)" Entry to format JQEs
804	(324)	ADDRESS	4	P@$QGET	"V($QGET)" Entry to JQE get routine
808	(328)	ADDRESS	4	P@$QJIX	"V($QJIX)" Entry to JQE JIX routine
812	(32C)	ADDRESS	4	P@$QLOC	"V($QLOC)" Entry to JQE locate routine
816	(330)	ADDRESS	4	P@$QLOCNXT	"V($QLOCNXT)" Locate next JQE in JIX
820	(334)	ADDRESS	4	P@$QMOD	"V($QMOD)" Entry to JQE modify routine
824	(338)	ADDRESS	4	P@$QPUT	"V($QPUT)" Entry to JQE put routine
828	(33C)	ADDRESS	4	P@$QRBDCHK	"V($QRBDCHK)" Entry to JQE rebuild/ free check routine
832	(340)	ADDRESS	4	P@$QREBLD	"V($QREBLD)" Entry to job queue rebuild routine
836	(344)	ADDRESS	4	P@$QREM	"V($QREM)" Entry to JQE remove routine
840	(348)	ADDRESS	4	P@$QVERIF	"V($QVERIF)" Entry to job queue verify routine
844	(34C)	ADDRESS	4	P@$RBLDLOG	"V($RBLDLOG)" Entry to rebuild SYSLOG JQE chain routine
848	(350)	ADDRESS	4	P@$SCHEMSK	"V($SCHEMSK)" Entry to SCHENV processing
852	(354)	ADDRESS	4	P@$ZJCINIT	"V($ZJCINIT)" Entry to init the Job Dependency control blocks
856	(358)	ADDRESS	4	P@CATDUP	"V(CATDUP)" CAT & DUPJOB reconciliation
860	(35C)	ADDRESS	4	P@CATHMAX	"V(CATHMAX)" Entry to CATHMAX processing
864	(360)	ADDRESS	4	P@CKVREFRS	"V(CKVREFRS)" Refresh checkpoint version
868	(364)	ADDRESS	4	P@CLOCCHKR	"V(CLOCCHKR)" TIMECLOC Checker
872	(368)	ADDRESS	4	P@DUPJOB	"V(DUPJOB)" Entry to Dup job processing
876	(36C)	ADDRESS	4	P@JNRNGCNT	"V(JNRNGCNT)" Job number range counting
880	(370)	ADDRESS	4	P@JOBQSAMP	"V(JOBQSAMP)" Job queue sampling for WLM
884	(374)	ADDRESS	4	P@JQECAT	"V(JQECAT)" JQE/CAT time reconciliation
888	(378)	ADDRESS	4	P@JQAJOBGR	"V(JQAJOBGR)" Checkpoint JOBGROUP
892	(37C)	ADDRESS	4	P@MNENF70	"V(MNENF70)" Issue job-level ENF
896	(380)	ADDRESS	4	P@MNENF78	"V(MNENF78)" Issue job notification ENF
900	(384)	ADDRESS	4	P@MODJCHG	"V(MODJCHG)" Change job MODJOB request
904	(388)	ADDRESS	4	P@MODJRLS	"V(MODJRLS)" Release job MODJOB request
908	(38C)	ADDRESS	4	P@MODJSPN	"V(MODJSPN)" SPIN job ds MODJOB request
912	(390)	ADDRESS	4	P@MODJXMBR	"V(MODJXMBR)" Cross member MODJOB request
916	(394)	ADDRESS	4	P@QBERTHRE	"V(QBERTHRE)" Determine BERT availability

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
920	(398)	ADDRESS	4	P@QDECHAIN	"V(QDECHAIN)" Entry to JQE dechain rtne
924	(39C)	ADDRESS	4	P@QJQEVER	"V(QJQEVER)" Entry to JQE address verify routine
928	(3A0)	ADDRESS	4	P@RESETRL	"V(RESETRL)" Entry to reset SCHEDULE AFTER= release list fields routine.
932	(3A4)	ADDRESS	4	P@JQANETGR	"V(JQANETGR)" Process / NET structure
936	(3A8)	ADDRESS	4	P@WLMDEQ	"V(WLMDEQ)" Entry to Dequeue JQE from WLM queue
940	(3AC)	ADDRESS	4	P@WLMENQ	"V(WLMENQ)" Entry to Enqueue JQE onto WLM queue
944	(3B0)	ADDRESS	4	P@ZAPJOB	"V(ZAPJOB)" ZAP Job service
	MODULE HASPMISC ROUTINES LISTED ALPHABETICALLY				
948	(3B4)	ADDRESS	4	P@$CLASSI4	"V($CLASSI4)" Entry to $CLASSI4 routine
952	(3B8)	ADDRESS	4	P@ENFPOLCY	"V(ENFPOLCY)" Entry to ENF Policy Activation Support
	MODULE HASPNATS ROUTINES LISTED ALPHABETICALLY				
956	(3BC)	ADDRESS	4	P#$NATADD	Nodes Attached Table ADD
960	(3C0)	ADDRESS	4	P@$NATADD	"V($NATADD)" service routine (HASPNATS)
964	(3C4)	ADDRESS	4	P@NADRECV	"V(NADRECV)" $NATADD recovery routine
968	(3C8)	ADDRESS	4	P#$NATGET	Nodes Attached Table GET
972	(3CC)	ADDRESS	4	P@$NATGET	"V($NATGET)" service routine (HASPNATS)
976	(3D0)	ADDRESS	4	P@NGTRECV	"V(NGTRECV)" $NATGET recovery routine
980	(3D4)	ADDRESS	4	P#$NATMOD	Nodes Attached Table MODify
984	(3D8)	ADDRESS	4	P@$NATMOD	"V($NATMOD)" service routine (HASPNATS)
988	(3DC)	ADDRESS	4	P@NMDRECV	"V(NMDRECV)" $NATMOD recovery routine
992	(3E0)	ADDRESS	4	P#$NATNOT	Nodes Attached Table NOTify
996	(3E4)	ADDRESS	4	P@$NATNOT	"V($NATNOT)" service routine (HASPNATS)
1000	(3E8)	ADDRESS	4	P@NNTRECV	"V(NNTRECV)" $NATNOT recovery routine
1004	(3EC)	ADDRESS	4	P#$NATREM	Nodes Attached Table REMove
1008	(3F0)	ADDRESS	4	P@$NATREM	"V($NATREM)" service routine (HASPNATS)
1012	(3F4)	ADDRESS	4	P@NRMRECV	"V(NRMRECV)" $NATREM recovery routine
1016	(3F8)	ADDRESS	4	P@$NATREQ	"V($NATREQ)" Requeue NAT to appropriate queue
1020	(3FC)	ADDRESS	4	P@NPMVFY	"V(NPMVFY)" Network path manager control block verification service
1024	(400)	ADDRESS	4	P@NPVDCTV	"V(NPVDCTV)" Verify DCT storage is OK
1028	(404)	ADDRESS	4		RESERVED FOR FUTURE USE
	MODULE HASPNET ROUTINES LISTED ALPHABETICALLY				
1032	(408)	ADDRESS	4	P@$FRENHB	"V($FRENHB)" Free a header cell
1036	(40C)	ADDRESS	4	P@$GETNHB	"V($GETNHB)" Get a header cell
1040	(410)	ADDRESS	4	P@$NITSYNC	"V($NITSYNC)" NIT/CKPT serialization

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	ADDRESS	4	P@NJDCTINT	"V(NJDCTINT)" LINE DCT INITIALIZATION
1048	(418)	ADDRESS	4	P@NJECHECK	"V(NJECHECK)" Check I/O completion
1052	(41C)	ADDRESS	4	P@NJEHDRCV	"V(NJEHDRCV)" Receive NJE header
1056	(420)	ADDRESS	4	P@NJEHDRD	"V(NJEHDRD)" Read NJE header from spool
1060	(424)	ADDRESS	4	P@NJEHDWR	"V(NJEHDWR)" Write NJE header to spool
1064	(428)	ADDRESS	4	P@NJEHDXMT	"V(NJEHDXMT)" Transmit NJE header
1068	(42C)	ADDRESS	4	P@NJEPUT	"V(NJEPUT)" Write NJE record
1072	(430)	ADDRESS	4	P@NJERDACT	"V(NJERDACT)" Clean up receiver jobs
1076	(434)	ADDRESS	4	P@NJHBUILD	"V(NJHBUILD)" Build job header
1080	(438)	ADDRESS	4	P@NJTBUILD	"V(NJTBUILD)" Build job trailer
1084	(43C)	ADDRESS	4	P@NSETESS	"V(NSETESS)" Set ESS section of SMF 24/57 record
1088	(440)	ADDRESS	4	P@NSJFSPSP	"V(NSJFSPSP)" SWBTU split/splice services
1092	(444)	ADDRESS	4	P@NSMFBSIZ	"V(NSMFBSIZ)" Calculate SMF buffer size
	MODULE HASPNPM ROUTINES LISTED ALPHABETICALLY				
1096	(448)	ADDRESS	4	P@HASPNSNR	"V(HASPNSNR)" Initiate NJE signon
1100	(44C)	ADDRESS	4	P@NCOMMREQ	"V(NCOMMREQ)" Set up NAT from NTQs
1104	(450)	ADDRESS	4	P@NMAPINIT	"V(NMAPINIT)" Initialize Notify Maps
1108	(454)	ADDRESS	4	P@NPMHOT	"V(NPMHOT)" NPM hot start rechaining
1112	(458)	ADDRESS	4	P@NPMQSUSE	"V(NPMQSUSE)" NPM request $QSUSE
1116	(45C)	ADDRESS	4	P@NSETSUBS	"V(NSETSUBS)" Set SUBNET chaining fields in the NIT
1120	(460)	ADDRESS	4		Reserved for future use
1124	(464)	ADDRESS	4		Reserved for future use
1128	(468)	ADDRESS	4		Reserved for future use
	MODULE HASPNRM ROUTINES LISTED ALPHABETICALLY				
1132	(46C)	ADDRESS	4	P@NRMAJUST	"V(NRMAJUST)" Reset NRM STIMER
	MODULE HASPNUC ROUTINES LISTED ALPHABETICALLY				
1136	(470)	ADDRESS	4	P@$BFRBLD	"V($BFRBLD)" Buffer build routine
1140	(474)	ADDRESS	4	P@$CBIOM	"V($CBIOM)" I/O FOR JES2 CONTROL BLOCKS
1144	(478)	ADDRESS	4	P@$CHECK	"V($CHECK)" CHECK COMPLETION OF A CKPT WRT
1148	(47C)	ADDRESS	4	P@$CKPT	"V($CKPT)" SCHED CKPT FOR AN ALTERED ELMT
1152	(480)	ADDRESS	4	P@$DSCLOSE	"V($DSCLOSE)" Entry to $DSCLOSE routine
1156	(484)	ADDRESS	4	P@$DSOPEN	"V($DSOPEN)" Entry to $DSOPEN routine
1160	(488)	ADDRESS	4	P@$DSPUT	"V($DSPUT)" Entry to $DSPUT routine
1164	(48C)	ADDRESS	4	P@$DYN	"V($DYN)" Dynamic allocate/unallocate
1168	(490)	ADDRESS	4	P@$EXCP	"V($EXCP)" EXCP routine
1172	(494)	ADDRESS	4	P@$EXTP	"V($EXTP)" RTAM service routines

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1176	(498)	ADDRESS	4	P@$FREEBFR	"V($FREEBFR)" Free a buffer
1180	(49C)	ADDRESS	4		Reserved for future use
1184	(4A0)	ADDRESS	4	P@$FRESMF	"V($FRESMF)" Free an SMF buffer
1188	(4A4)	ADDRESS	4	P@$FREUCBS	"V($FREUCBS)" Free storage for UPL
1192	(4A8)	ADDRESS	4	P@$FREUNIT	"V($FREUNIT)" HASP unit 'FREE' routine
1196	(4AC)	ADDRESS	4	P@$GETBUFR	"V($GETBUFR)" Get a buffer
1200	(4B0)	ADDRESS	4		Reserved for future use
1204	(4B4)	ADDRESS	4	P@$GETSAVE	"V($GETSAVE)" Get a $SAVE area
1208	(4B8)	ADDRESS	4	P@$GETSMF	"V($GETSMF)" Get SMF buffer
1212	(4BC)	ADDRESS	4	P@$GETUCBS	"V($GETUCBS)" Obtain UCB address
1216	(4C0)	ADDRESS	4	P@$GETUNIT	"V($GETUNIT)" HASP unit 'GET' routine
1220	(4C4)	ADDRESS	4	P@$GETWORK	"V($GETWORK)" Get a work area
1224	(4C8)	ADDRESS	4	P@$GFMAIN	"V($GFMAIN)" ENTRY TO GET/FREE STG RTN
1228	(4CC)	ADDRESS	4	P@$IOTCNT	"V($IOTCNT)" Entry to daughter count
1232	(4D0)	ADDRESS	4	P@$JESEFF	"V($JESEFF)" JES2 Exit effector
1236	(4D4)	ADDRESS	4	P@$PAWS	"V($PAWS)" PAWS (pause) a PCE
1240	(4D8)	ADDRESS	4	P@$PGSRVC	"V($PGSRVC)" PAGE SERVICE ROUTINE
1244	(4DC)	ADDRESS	4	P@$POST	"V($POST)" POST SPECIFIC EVENT ROUTINE
1248	(4E0)	ADDRESS	4	P@$POSTSUB	"V($POSTSUB)" Subtask post service
1252	(4E4)	ADDRESS	4	P@$QSUSE	"V($QSUSE)" Entry to $QSUSE support
1256	(4E8)	ADDRESS	4	P@$QUESMF	"V($QUESMF)" Queue SMF buffer
1260	(4EC)	ADDRESS	4	P@$RETSAVE	"V($RETSAVE)" Save area free routine
1264	(4F0)	ADDRESS	4	P@$RETURN	"V($RETURN)" Return a $SAVE area
1268	(4F4)	ADDRESS	4	P@$RETWORK	"V($RETWORK)" Return a work area
1272	(4F8)	ADDRESS	4	P@$SEAS	"V($SEAS)" ENTRY TO SECURITY AUTH RTN
1276	(4FC)	ADDRESS	4	P@$SEASMSG	"V($SEASMSG)" ISSUE THE 077 MESSAGE
1280	(500)	ADDRESS	4	P@$STCK	"V($STCK)" HASP store clock routine
1284	(504)	ADDRESS	4	P@$STCKFMT	"V($STCKFMT)" HASP store clock conversion
1288	(508)	ADDRESS	4	P@$STIMER	"V($STIMER)" HASP set timer routine
1292	(50C)	ADDRESS	4	P@$SUBIT	"V($SUBIT)" SUBTASK WORK QUEUING RTN
1296	(510)	ADDRESS	4	P@$TTIMER	"V($TTIMER)" HASP test timer routine
1300	(514)	ADDRESS	4	P@$WAIT	"V($WAIT)" WAIT FOR AN EVENT ROUTINE
1304	(518)	ADDRESS	4	P@$XECBKIL	"V($XECBKIL)" XECB DE-CHAINING ROUTINE
1308	(51C)	ADDRESS	4	P@GETEVNTR	"V(GETEVNTR)" Get an event record CB
1312	(520)	ADDRESS	4	P@GETPTIME	"V(GETPTIME)" Get elapsed PCE perf time
1316	(524)	ADDRESS	4	P@GETJOBKY	"V(GETJOBKY)" Obtain a jobkey
1320	(528)	ADDRESS	4	P@MOD875	"V(MOD875)" ISSUE $HASP875 MESSAGE
1324	(52C)	ADDRESS	4	P@SUBDEST	"V(SUBDEST)" SUBTASK A $DESTCHK CALL
ENTRIES TO HASP SWB MODIFY SUBTASK (HASPODSM)					
1328	(530)	ADDRESS	4	P#SWBMSUB	SWB MODIFY SUBTASK PC NUM

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Module HASPPCY routines listed alphabetically			
1332	(534)	ADDRESS	4	P@$PCYIMR	"V($PCYIMR)" Policy IMPORT request
		Entries to HASP Process Sysout (HASPPSO)			
1336	(538)	ADDRESS	4	P@TREGROUP	"V(TREGROUP)" Regroup PDDB
1340	(53C)	ADDRESS	4	P@PSOFRELK	"V(PSOFRELK)" Free job lock and JOE busy
		MODULE HASPRAS ROUTINES LISTED ALPHABETICALLY			
1344	(540)	ADDRESS	4	P@$DISTERR	"V($DISTERR)" Disastrous error routine
1348	(544)	ADDRESS	4	P@$ESTACAN	"V($ESTACAN)" ENTRY TO $ESTAE CANCEL RTN
1352	(548)	ADDRESS	4	P@$ESTAER	"V($ESTAER)" ENTRY TO $ESTAE ESTAB. RTN
1356	(54C)	ADDRESS	4	P@$ESTAREP	"V($ESTAREP)" ENTRY TO $ESTAE REPLACE RTN
1360	(550)	ADDRESS	4	P@$IOERROR	"V($IOERROR)" I/O error logging routine
1364	(554)	ADDRESS	4	P@$SDUMP	"V($SDUMP)" SVC dump routine
		Module HASPRDR routines listed alphabetically			
1368	(558)	ADDRESS	4	P@RDRPDCUP	"V(RDRPDCUP)" NJE/RJE reader cleanup rtn
1372	(55C)	ADDRESS	4	P@RINTJOB	"V(RINTJOB)" Create Internal Job service
		MODULE HASPRTAM ROUTINES LISTED ALPHABETICALLY			
1376	(560)	ADDRESS	4	P@$REQBUF	"V(HASPRBUF)" Entry to requeue buffers and request ckpt
1380	(564)	ADDRESS	4	P@$REQBUFN	"V(HASPRBFN)" Entry to requeue bfrs without requesting ckpt
1384	(568)	ADDRESS	4	P@LNEAVRJE	"V(LNEAVRJE)" Check if Line avail for RJE
1388	(56C)	ADDRESS	4	P@MLMRCPCL	"V(MLMRCPCL)" Rebuild PCL chains
1392	(570)	ADDRESS	4	P@MSAFCHK	"V(MSAFCHK)" SAF CALL FOR LM AND RCP
1396	(574)	ADDRESS	4	P@RMTDVINT	"V(RMTDVINT)" Initialize Rmt Device DCT
1400	(578)	ADDRESS	4	P@RMTDVSET	"V(RMTDVSET)" Setup Rmt Device DCT
1404	(57C)	ADDRESS	4	P@RMTLNECK	"V(RMTLNECK)" Check Rmt Line setting
1408	(580)	ADDRESS	4	P@RMTSETUP	"V(RMTSETUP)" Setup RMT Parameters
		Module HASPSASR Routines listed alphabetically			
1412	(584)	ADDRESS	4	P@SAIHOT	"V(SAIHOT)" SAPI Hot Start Processing
1416	(588)	ADDRESS	4	P@SAIRECC	"V(SAIRECC)" Update record/page counts
		MODULE HASPSERV ROUTINES LISTED ALPHABETICALLY			
1420	(58C)	ADDRESS	4	P@ADDDCTQ	"V(ADDDCTQ)" Addr Add DCT to Q routine

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1424	(590)	ADDRESS	4	P@CALCBRTN	"V(CALCBRTN)" ADDR CALC BERTNUM value
1428	(594)	ADDRESS	4	P@CFJOED	"V(CFJOED)" ADDR JOE DISPLAY ROUTINE
1432	(598)	ADDRESS	4	P@IVATE	"V(IVATE)" Addr of $ACTIVATE routine
1436	(59C)	ADDRESS	4	P@RBLDCTQ	"V(RBLDCTQ)" Addr Rebuild DCT Q rtn
1440	(5A0)	ADDRESS	4	P@REMDCTQ	"V(REMDCTQ)" Addr Remove DCT from Q rtn
1444	(5A4)	ADDRESS	4	P@ROTDCTQ	"V(ROTDCTQ)" Addr Rotate DCT on Q rtn
1448	(5A8)	ADDRESS	4	P@SRVCFSEL	"V(SRVCFSEL)" Addr of $CFSEL service rtn
1452	(5AC)	ADDRESS	4	P@SRVDCTD	"V(SRVDCTD)" ADDR DEVICE CONTROL TABLE DISPLAY ROUTINE
1456	(5B0)	ADDRESS	4	P@SRVFNDCR	"V(SRVFNDCR)" ADDR OF FIND CRI ROUTINE
1460	(5B4)	ADDRESS	4	P@SRVMOD	"V(SRVMOD)" ADDR MODIFY JOB/SYSOUT CHARS ROUTINE
1464	(5B8)	ADDRESS	4	P@SRVM630	"V(SRVM630)" Addr of routine to format $HASP630 message
1468	(5BC)	ADDRESS	4	P@SRVOLOC	"V(SRVOLOC)" ADDR LOCATE DAS DATA SET DSECT ROUTINE
1472	(5C0)	ADDRESS	4	P@SRVPREFX	"V(SRVPREFX)" ADDR DEFINE PREFIX TO MCS ROUTINE
1476	(5C4)	ADDRESS	4		Reserved for future use
1480	(5C8)	ADDRESS	4	P@SRVRDIR	"V(SRVRDIR)" ADDR OF ROUTINE TO REDIRECT COMMAND RESPONSES
1484	(5CC)	ADDRESS	4	P@SRVROUT	"V(SRVROUT)" ADDR CONVERT TO BINARY ROUTE CODE ROUTINE
1488	(5D0)	ADDRESS	4	P@SRVSASCN	"V(SRVSASCN)" ADDR SYS AFFINITY SCAN RTN
1492	(5D4)	ADDRESS	4	P@SRVSETUP	"V(SRVSETUP)" ADDR WORK SELECT SET UP RTN
1496	(5D8)	ADDRESS	4	P@SRVWSCAN	"V(SRVWSCAN)" ADDR WORK SELECT SCAN RTN
1500	(5DC)	ADDRESS	4	P@SUBRRT	"V(SUBRRT)" SUBTASK $REROUTE ROUTINE
1504	(5E0)	ADDRESS	4	P@VETIVATE	"V(VETIVATE)" Check $ACTIVATE viability routine
1508	(5E4)	ADDRESS	4	P@WS2	"V(WS2)" Work selection control block errors
1512	(5E8)	ADDRESS	4	P@XCSAPST	"V(XCSAPST)" Post SAPI WSP
1516	(5EC)	ADDRESS	4	P@$DLSADDH	"V($DLSADDH)" Queue HOLDUNTL entry to DLS PCE
1520	(5F0)	ADDRESS	4	P@$DOGPRA	"V($DOGPRA)" $DOGPRA service
1524	(5F4)	ADDRESS	4	P@$DOGJAX	"V($DOGJAX)" $DOGJAX service
1528	(5F8)	ADDRESS	4	P@$ESQCTNT	"V($ESQCTNT)" Check ESQ CTENT
1532	(5FC)	ADDRESS	4	P@$ESQINIT	"V($ESQINIT)" Initialize ESQ CTENT
1536	(600)	ADDRESS	4	P@$ESQTRY	"V($ESQTRY)" Add and init ESQ CTENT
1540	(604)	ADDRESS	4	P@$MGRMSG	"V($MGRMSG)" $MGRMSG - Service to manage all messages for Privilege support
1544	(608)	ADDRESS	4	P@$MGRPOST	"V($MGRPOST)" $MGRPOST-Post resource avai
1548	(60C)	ADDRESS	4	P@$MGRPRA	"V($MGRPRA)" $MGRPRA - Service to manage Privilege Resource Area (PRA)
1552	(610)	ADDRESS	4	P@$WSPXCFY	"V($WSPXCFY)" WSP classification WRT the JOE index

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1556	(614)	ADDRESS	4	P@$WSPXKEY	"V($WSPXKEY)" Get next key value for WSP WRT the JOE index
1560	(618)	ADDRESS	4	P@$XCWCRT	"V($XCWCRT)" Create WSP cache
1564	(61C)	ADDRESS	4	P@$XCWDLT	"V($XCWDLT)" Delete WSP cache
1568	(620)	ADDRESS	4	P@$XCWPOST	"V($XCWPOST)" Post all eligible WSPs
1572	(624)	ADDRESS	4	P@$XCWPRG	"V($XCWPRG)" Purge WSP from WSP cache
1576	(628)	ADDRESS	4	P@$ZGLSHUT	"V($ZGLSHUT)" Shut down jobgroup logging
1580	(62C)	ADDRESS	4	P@$ZGLSTOP	"V($ZGLSTOP)" Stop logging a jobgroup
1584	(630)	ADDRESS	4	P@$ZGLSTRT	"V($ZGLSTRT)" Start logging a jobgroup
1588	(634)	ADDRESS	4	P@$ZGLREQT	"V($ZGLREQT)" Request jobgroup logging takeover
1592	(638)	ADDRESS	4		RESERVED FOR FUTURE USE
1596	(63C)	ADDRESS	4		RESERVED FOR FUTURE USE
	MODULE HASPSIR ROUTINES LISTED ALPHABETICALLY				
1600	(640)	ADDRESS	4	P@$IOTERR	"V($IOTERR)" Spin IOT error recovery routine
1604	(644)	ADDRESS	4	P@ISSWTO	"V(ISSWTO)" $HASP394 Output Lost message routine
	MODULE HASPSNA ROUTINES LISTED ALPHABETICALLY				
1608	(648)	ADDRESS	4	P@APPLDYN	"V(APPLDYN)" DYNAMIC APT LOOKUP/ ATTACH SERVICE ROUTINE (HASPSNA)
1612	(64C)	ADDRESS	4	P@SNASNET	"V(SNASNET)" START NETWORKING ($SN) COMMAND EXIT FOR SNA (HASPSNA)
	MODULE HASPSPIN ROUTINES LISTED ALPHABETICALLY				
1616	(650)	ADDRESS	4	P@SPCIOT	"V(SPCIOT)" Spin IOT in CSA (LIFO/ FIFO) check routine
	MODULE HASPSPOL ROUTINES LISTED ALPHABETICALLY				
1620	(654)	ADDRESS	4	P@$DASFMT	"V($DASFMT)" FORMAT new DASes
1624	(658)	ADDRESS	4	P@$DOGMIG	"V($DOGMIG)" Entry to MIG processing
1628	(65C)	ADDRESS	4	P@DADADDWQ	"V(DADADDWQ)" Add DAS to DAS work queue
1632	(660)	ADDRESS	4	P@DADAVAIL	"V(DADAVAIL)" DAS TG COUNT ROUTINE
1636	(664)	ADDRESS	4	P@DADCKALL	"V(DADCKALL)" Check command status rtn
1640	(668)	ADDRESS	4	P@DADCKTGM	"V(DADCKTGM)" TGM CKPT ROUTINE
1644	(66C)	ADDRESS	4	P@DADCOUNT	"V(DADCOUNT)" FREE TG COUNTING ROUTINE
1648	(670)	ADDRESS	4	P@DADDEB	"V(DADDEB)" DAS DEB EXT. INIT ROUTINE
1652	(674)	ADDRESS	4	P@DADEXIST	"V(DADEXIST)" Determine if DAS exists
1656	(678)	ADDRESS	4	P@DADREMVE	"V(DADREMVE)" REMOVE DAS FROM QUEUES RTN
1660	(67C)	ADDRESS	4	P@DADREMWQ	"V(DADREMWQ)" REMOVE DAS FROM WORK Q RTN
1664	(680)	ADDRESS	4	P@DADSTUNT	"V(DADSTUNT)" Deal with stunted volumes

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1668	(684)	ADDRESS	4	P@DADSPLST	"V(DADSPLST)" RESET SPL CONTROL BLOCK RTN
1672	(688)	ADDRESS	4	P@DADTGM	"V(DADTGM)" DAS TGM UPDATE ROUTINE
1676	(68C)	ADDRESS	4	P@DADTGMSP	"V(DADTGMSP)" Get TGM Space, Last DAS Rtn
1680	(690)	ADDRESS	4	P@DADXTENT	"V(DADXTENT)" DAS EXTENT INIT ROUTINE
1684	(694)	ADDRESS	4	P@MIGRRECV	"V(MIGRRECV)" Migration recovery/ restart
1688	(698)	ADDRESS	4	P@RCDSYNC	"V(RCDSYNC)" Initialize RECYDAS
1692	(69C)	ADDRESS	4	P@SIGIO	"V(SIGIO)" Signature I/O Routine
1696	(6A0)	ADDRESS	4	P@SNFQUE	"V(SNFQUE)" Sniffer BLOB Queueing Rtn
1700	(6A4)	ADDRESS	4	P@SNFQBLD	"V(SNFQBLD)" Build SNFQUE rtn
1704	(6A8)	ADDRESS	4	P@SNFQPST	"V(SNFQPST)" Queue SNFQUE rtn
	MODULE HASPSSRV ROUTINES LISTED ALPHABETICALLY				
1708	(6AC)	ADDRESS	4	P@$REROUTE	"V($REROUTE)" REROUTE CMD AUTH ROUTINE
1712	(6B0)	ADDRESS	4	P@CALLBLDM	"V(CALLBLDM)" Call BLDMSG service
1716	(6B4)	ADDRESS	4	P@EXTDCTSL	"V(EXTDCTSL)" Extract DCT SECLABEL
1720	(6B8)	ADDRESS	4	P@FRDRINIS	"V(FRDRINIS)" File reader init (subtask)
1724	(6BC)	ADDRESS	4	P@FRDRINIT	"V(FRDRINIT)" File reader init
1728	(6C0)	ADDRESS	4	P@FRDROPEN	"V(FRDROPEN)" File reader OPEN member
1732	(6C4)	ADDRESS	4	P@FRDRREAD	"V(FRDRREAD)" File reader READ
1736	(6C8)	ADDRESS	4	P@FRDRCLOS	"V(FRDRCLOS)" File reader CLOSE
1740	(6CC)	ADDRESS	4	P@HASPLIM	"V(HASPLIM)" Resource LIMITS subtask
1744	(6D0)	ADDRESS	4	P@JOBSUBMT	"V(JOBSUBMT)" Job submit service
1748	(6D4)	ADDRESS	4	P@NEWSCRE	"V(NEWSCRE)" JESNEWS Dataset creation
1752	(6D8)	ADDRESS	4	P@PSAFSCAN	"V(PSAFSCAN)" PDDB SCAN AND SAF CALL RTN
	Module HASPSTUB routines listed alphabetically				
1756	(6DC)	ADDRESS	4	P@CFPOST	"V(CFPOST)" $$POST checkpoint
	Module HASPSUBS routines listed alphabetically				
1760	(6E0)	ADDRESS	4	P@SUBSPERF	"V(SUBSPERF)" Update subtask perf stats
	Module HASPSXIT routines listed alphabetically				
1764	(6E4)	ADDRESS	4	P@LPRMLIBP	"V(LPRMLIBP)" LOGICAL PARMLIB PROCESSING
1768	(6E8)	ADDRESS	4	P@QQSESTAT	"V(QQSESTAT)" QSE state
	Module HASPTABS routines listed alphabetically				
1772	(6EC)	ADDRESS	4	P@$GETABLE	"V($GETABLE)" HASPTABS - $GETABLE service
1776	(6F0)	ADDRESS	4	P@$PUTABLE	"V($PUTABLE)" HASPTABS - $PUTABLE service
1780	(6F4)	ADDRESS	4	P@$RETABLE	"V($RETABLE)" HASPTABS - $RETABLE service

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Module HASPTCP routines listed alphabetically			
1784	(6F8)	ADDRESS	4	P@CNVIPAD	"V(CNVIPAD)" IP ADDRESS CONVERASION
1788	(6FC)	ADDRESS	4	P@SOCKDYN	"V(SOCKDYN)" DYNAMIC SCK LOOKUP/ ATTACH
1792	(700)	ADDRESS	4	P@TCPSNET	"V(TCPSNET)" START TCP/IP NJE
		Module HASPTERM routines listed alphabetically			
1796	(704)	ADDRESS	4	P@$ABEND	"V($ABEND)" JES2 Main task recovery rtn
1800	(708)	ADDRESS	4	P@$HEXIT	"V($HEXIT)" Normal JES2 termination
1804	(70C)	ADDRESS	4	P@$PCABEND	"V($PCABEND)" JES2 PC recovery routine
1808	(710)	ADDRESS	4	P@ABNDRATE	"V(ABNDRATE)" Determine ABEND rate
1812	(714)	ADDRESS	4	P@HEXTINIT	"V(HEXTINIT)" Termination for HASPINIT
1816	(718)	ADDRESS	4	P@WTORTIMR	"V(WTORTIMR)" Waits for a WTOR with a timer
		Module HASPTRAK routines listed alphabetically			
1820	(71C)	ADDRESS	4	P@$BLDTGB	"V($BLDTGB)" Queue TGBs
1824	(720)	ADDRESS	4	P@$PURGER	"V($PURGER)" Release IOT tracks
1828	(724)	ADDRESS	4	P@$TGMMIG	"V($TGMMIG)" Transpose Source->target TGM bits.
1832	(728)	ADDRESS	4	P@$TGMSET	"V($TGMSET)" Set trackgroup map
1836	(72C)	ADDRESS	4	P@$TRACK	"V($TRACK)" Get SPOOL space
1840	(730)	ADDRESS	4	P@COMLOPER	"V(COMLOPER)" L= PROCESSING
1844	(734)	ADDRESS	4	P@PURMASC	"V(PURMASC)" Purge single TGAE
		Module HASPWARM routines listed alphabetically			
1848	(738)	ADDRESS	4	P@NQESQ	"V(NQESQ)" Warm start email queues
1852	(73C)	ADDRESS	4	P@NQPSOQ	"V(NQPSOQ)" Purge Status/Cancel and PSO queues routine
1856	(740)	ADDRESS	4	P@NQRELSE	"V(NQRELSE)" Release duplicate jobs
		Module HASPXCF routines listed alphabetically			
1860	(744)	ADDRESS	4	P@MSTNTFY	"V(MSTNTFY)" Member state change notify
1864	(748)	ADDRESS	4	P@$MSTNTFY	"V($MSTNTFY)" Same for JES2 environment
1868	(74C)	ADDRESS	4	P@$TQLEVEL	"V($TQLEVEL)" Test MAS levels (main task)
1872	(750)	ADDRESS	4	P@$TQLVLS	"V($TQLVLS)" Test MAS levels (subtask)
1876	(754)	ADDRESS	4	P@XCFBCAST	"V(XCFBCAST)" Broadcast an XCF message
1880	(758)	ADDRESS	4	P@XCFDHOMO	"V(XCFDHOMO)" Determine Homogeneity
1884	(75C)	ADDRESS	4	P@XCFHELTH	"V(XCFHELTH)" Health checker Invocation
1888	(760)	ADDRESS	4	P@XCFJOIN	"V(XCFJOIN)" Member joins XCF group
1892	(764)	ADDRESS	4	P@XCFLEAVE	"V(XCFLEAVE)" Member leaves XCF group

Table 378. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1896	(768)	ADDRESS	4	P@XCFMAPEV	"V(XCFMAPEV)" Map XCF events to QSE
1900	(76C)	ADDRESS	4	P@XCFMSTAT	"V(XCFMSTAT)" Query all members status
1904	(770)	ADDRESS	4	P@XCFQSTAT	"V(XCFQSTAT)" Query a members status
1908	(774)	ADDRESS	4	P@XCFUSTAT	"V(XCFUSTAT)" Update the user status
1912	(778)	ADDRESS	4	P@XCFXMAQU	"V(XCFXMAQU)" Update a members XMAQ
	Module HASPXEQ routines listed alphabetically				
1916	(77C)	ADDRESS	4	P@$ASDXCLR	"V($ASDXCLR)" ASDS entry clear
1920	(780)	ADDRESS	4	P@$ASDXUPD	"V($ASDXUPD)" ASDS entry update
1924	(784)	ADDRESS	4	P@$CATCRNW	"V($CATCRNW)" Reset 'no selectable work' field in relevant CAT cache elements.
1928	(788)	ADDRESS	4	P@$CATCWRT	"V($CATCWRT)" Write CAT/GRPOBJ cache to BERTs.
1932	(78C)	ADDRESS	4	P@$CATDEFS	"V($CATDEFS)" Set defaults in the CAT
1936	(790)	ADDRESS	4	P@$CATINIT	"V($CATINIT)" Set CATs in BERTs
1940	(794)	ADDRESS	4	P@$CATJCNT	"V($CATJCNT)" Reset xeq count in CAT
1944	(798)	ADDRESS	4	P@$CRWSCQ	"V($CRWSCQ)" Create WSC
1948	(79C)	ADDRESS	4	P@$CREGWLM	"V($CREGWLM)" Register WLM class
1952	(7A0)	ADDRESS	4	P@$DCONSET	"V($DCONSET)" Entry to $DCONSET routine
1956	(7A4)	ADDRESS	4	P@$DMNDJOB	"V($DMNDJOB)" Demand job start/test
1960	(7A8)	ADDRESS	4	P@$DOGCAT	"V($DOGCAT)" Deliver or Get CAT
1964	(7AC)	ADDRESS	4	P@$DOGGRP	"V($DOGGRP)" Deliver or Get CLASGRP
1968	(7B0)	ADDRESS	4	P@$DOGWSCQ	"V($DOGWSCQ)" Deliver or Get WSC
1972	(7B4)	ADDRESS	4	P@$PLEXREG	"V($PLEXREG)" JESPlex queue registration
1976	(7B8)	ADDRESS	4	P@XPURJWEL	"V(XPURJWEL)" Purge JWELs for AS
1980	(7BC)	ADDRESS	4	P@CATAGRP	"V(CATAGRP)" Add a CAT to a CLASGRP
1984	(7C0)	ADDRESS	4	P@CATCBLD	"V(CATCBLD)" Build CAT if necessary
1988	(7C4)	ADDRESS	4	P@CATCLEAN	"V(CATCLEAN)" Process deleted JOBCLASS
1992	(7C8)	ADDRESS	4	P@CATDGRP	"V(CATDGRP)" Delete a CAT from a CLASGRP
1996	(7CC)	ADDRESS	4	P@HASP051	"V(HASP051)" BERT Shortage message
2000	(7D0)	ADDRESS	4	P@MODESWIT	"V(MODESWIT)" Mode switch for class queue
2004	(7D4)	ADDRESS	4	P@TIMECLOC	"V(TIMECLOC)" Manage JQE timers
2008	(7D8)	ADDRESS	4	P@WLMGOALS	"V(WLMGOALS)" Compute WLM goals
2012	(7DC)	ADDRESS	4	P@XDUPTEST	"V(XDUPTEST)" Check for duplicates
2016	(7E0)	ADDRESS	4	P@XGOALSYM	"V(XGOALSYM)" SYMREC if bad WSC
2020	(7E4)	ADDRESS	4	P@XINSTART	"V(XINSTART)" Start an initiator
2024	(7E8)	ADDRESS	4	P@XPOSTXEQ	"V(XPOSTXEQ)" EXEC PCE POST routine
2028	(7EC)	ADDRESS	4		RESERVED FOR FUTURE USE
2032	(7F0)	ADDRESS	4		RESERVED FOR FUTURE USE
2036	(7F4)	ADDRESS	4		RESERVED FOR FUTURE USE
2040	(7F8)	ADDRESS	4		RESERVED FOR FUTURE USE
2040	(7F8)	X'7FC'	0	PADDRLEN	"*-PADDR" Length of the PADDR table

Table 379. Cross Reference for $PADDR

Name	Offset	Hex Tag
P#$NATADD	3BC	
P#$NATGET	3C8	
P#$NATMOD	3D4	
P#$NATNOT	3E0	
P#$NATREM	3EC	
P#SWBMSUB	530	
P@$#ADD	25C	
P@$#ALCHK	260	
P@$#BLD	264	
P@$#BUSY	268	
P@$#CAN	26C	
P@$#CHK	270	
P@$#DISPRO	274	
P@$#FORMAT	278	
P@$#GET	27C	
P@$#GTNEWS	280	
P@$#JOTBLD	284	
P@$#JOTCHK	288	
P@$#JWEL	28C	
P@$#MOD	290	
P@$#NEWS	294	
P@$#POST	298	
P@$#PUT	29C	
P@$#RBDCHK	2A0	
P@$#REM	2A4	
P@$#REP	2A8	
P@$#RLNEWS	2AC	
P@$#TJEV	2B0	
P@$#ZAPJOE	2B4	
P@$ABEND	704	
P@$ASDXCLR	77C	
P@$ASDXUPD	780	
P@$BERTFIX	120	
P@$BFRBLD	470	
P@$BLDTGB	71C	
P@$CATCRNW	784	
P@$CATCWRT	788	
P@$CATDEFS	78C	
P@$CATINIT	790	
P@$CATJCNT	794	
P@$CBIOM	474	
P@$CDCTDYN	8C	
P@$CFTRACE	CC	
P@$CHECK	478	
P@$CKPT	47C	
P@$CKPTQUE	124	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$CKTSRV	12C	
P@$CLASSIF	2F0	
P@$CLASSI4	3B4	
P@$CNITNOT	90	
P@$CONAFFI	2F4	
P@$CREGWLM	79C	
P@$CRWSCQ	798	
P@$DASFMT	654	
P@$DCBDYN	214	
P@$DCONSET	7A0	
P@$DCTDYN	218	
P@$DESTDYN	21C	
P@$DILBERT	2F8	
P@$DISTERR	540	
P@$DLSADDH	5EC	
P@$DMNDJOB	7A4	
P@$DOGBERT	128	
P@$DOGCAT	7A8	
P@$DOGDJB	2FC	
P@$DOGGRP	7AC	
P@$DOGJAX	5F4	
P@$DOGJOE	2B8	
P@$DOGJQE	300	
P@$DOGMIG	658	
P@$DOGPRA	5F0	
P@$DOGWSCQ	7B0	
P@$DOM	1D8	
P@$DSCLOSE	480	
P@$DSOPEN	484	
P@$DSPUT	488	
P@$DTEDYNA	220	
P@$DTEDYND	224	
P@$DYN	48C	
P@$ESQCTNT	5F8	
P@$ESQINIT	5FC	
P@$ESQTRY	600	
P@$ESTACAN	544	
P@$ESTAER	548	
P@$ESTAREP	54C	
P@$EXCP	490	
P@$EXTP	494	
P@$FRECMB	1DC	
P@$FREEBFR	498	
P@$FREJLOK	304	
P@$FRENHB	408	
P@$FRESMF	4A0	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$FREUCBS	4A4	
P@$FREUNIT	4A8	
P@$GETABLE	6EC	
P@$GETBUFR	4AC	
P@$GETCMBR	1E0	
P@$GETJLOK	308	
P@$GETNHB	40C	
P@$GETSAVE	4B4	
P@$GETSMF	4B8	
P@$GETUCBS	4BC	
P@$GETUNIT	4C0	
P@$GETWORK	4C4	
P@$GFMAIN	4C8	
P@$HEXIT	708	
P@$IOERROR	550	
P@$IOTCNT	4CC	
P@$IOTERR	640	
P@$JCAN	19C	
P@$JESEFF	4D0	
P@$JQEMERG	30C	
P@$MGRMSG	604	
P@$MGRPOST	608	
P@$MGRPRA	60C	
P@$MODCHK	1F4	
P@$MODELET	1F8	
P@$MODLOAD	1FC	
P@$MSTNTFY	748	
P@$NATADD	3C0	
P@$NATGET	3CC	
P@$NATMOD	3D8	
P@$NATNOT	3E4	
P@$NATREM	3F0	
P@$NATREQ	3F8	
P@$NITSYNC	410	
P@$PAWS	4D4	
P@$PCABEND	70C	
P@$PCEDYDC	228	
P@$PCEDYN	22C	
P@$PCYIMR	534	
P@$PGSRVC	4D8	
P@$PLEXREG	7B4	
P@$POST	4DC	
P@$POSTSUB	4E0	
P@$PURGER	720	
P@$PUTABLE	6F0	
P@$QADD	310	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$QBUSY	314	
P@$QEXTFMT	31C	
P@$QEXTVER	318	
P@$QFORMAT	320	
P@$QGET	324	
P@$QJIX	328	
P@$QLOC	32C	
P@$QLOCNXT	330	
P@$QMOD	334	
P@$QPUT	338	
P@$QRBDCHK	33C	
P@$QREBLD	340	
P@$QREM	344	
P@$QSUSE	4E4	
P@$QUESMF	4E8	
P@$QVERIF	348	
P@$RBLDLOG	34C	
P@$REQBUF	560	
P@$REQBUFN	564	
P@$REROUTE	6AC	
P@$RETABLE	6F4	
P@$RETSAVE	4EC	
P@$RETURN	4F0	
P@$RETWORK	4F4	
P@$ROLL	234	
P@$SCHEMSK	350	
P@$SDUMP	554	
P@$SEAS	4F8	
P@$SEASMSG	4FC	
P@$STCK	500	
P@$STCKFMT	504	
P@$STIMER	508	
P@$SUBIT	50C	
P@$TGMMIG	724	
P@$TGMSET	728	
P@$TQLEVEL	74C	
P@$TQLVLS	750	
P@$TRACK	72C	
P@$TTIMER	510	
P@$WAIT	514	
P@$WSPXCFY	610	
P@$WSPXKEY	614	
P@$WTO	1E4	
P@$WTOC	1E8	
P@$XCWCRT	618	
P@$XCWDLT	61C	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$XCWPOST	620	
P@$XCWPRG	624	
P@$XECBKIL	518	
P@$ZGLREQT	634	
P@$ZGLSHUT	628	
P@$ZGLSTOP	62C	
P@$ZGLSTRT	630	
P@$ZJCINIT	354	
P@ABNDRATE	710	
P@ADDDCTQ	58C	
P@ADDTOINX	2BC	
P@APPLDYN	648	
P@ARODREG	80	
P@AROQRYA	84	
P@BERTFMT	130	
P@BERTMAP	134	
P@CALCBRTN	590	
P@CALLBLDM	6B0	
P@CATAGRP	7BC	
P@CATCBLD	7C0	
P@CATCLEAN	7C4	
P@CATDGRP	7C8	
P@CATDUP	358	
P@CATHMAX	35C	
P@CFALOC	94	
P@CFBLDLST	98	
P@CFCOMP	A0	
P@CFDELETE	9C	
P@CFEVENT	A4	
P@CFFCOMP	AC	
P@CFFORMAT	B4	
P@CFJOED	594	
P@CFNOTIFY	A8	
P@CFPARSE	1A0	
P@CFPOST	6DC	
P@CFPURGE	DC	
P@CFQLOCK	B8	
P@CFQUERY	BC	
P@CFRDATA	C0	
P@CFRDLEC	B0	
P@CFRDLIST	D0	
P@CFRDONE	C4	
P@CFREAD2	D8	
P@CFREL	C8	
P@CFRESV	D4	
P@CFSTRTIO	E0	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@CFTRK1IO	E4	
P@CFUNAL	E8	
P@CFWRINPL	EC	
P@CFWRITE	F0	
P@CJFLCMB	1A4	
P@CKPTALOC	F8	
P@CKPTUNAL	FC	
P@CKPTVSIZ	100	
P@CKPTXPND	104	
P@CKRRDONE	168	
P@CKRRINIT	16C	
P@CKRRMASK	170	
P@CKRRSTRT	174	
P@CKRRSYNC	178	
P@CKVREFRS	360	
P@CLOCCHKR	364	
P@CNVIPAD	6F8	
P@COFCVE	1A8	
P@COFEDTR	1AC	
P@COFJMSG	1B0	
P@COFRTC	1B4	
P@COMBEWTO	1B8	
P@COMFRELK	1BC	
P@COMLOPER	730	
P@CSCANDSP	1C0	
P@CSMICMD	1C4	
P@CSV$DEL	200	
P@CSV$LOAD	204	
P@CWTO	1C8	
P@CWTOT	1CC	
P@DADADDWQ	65C	
P@DADAVAIL	660	
P@DADCKALL	664	
P@DADCKTGM	668	
P@DADCOUNT	66C	
P@DADDEB	670	
P@DADEXIST	674	
P@DADREMVE	678	
P@DADREMWQ	67C	
P@DADSPLST	684	
P@DADSTUNT	680	
P@DADTGM	688	
P@DADTGMSP	68C	
P@DADXTENT	690	
P@DILJCAN	1D0	
P@DSNVERFY	244	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@DUPJOB	368	
P@DYNFSS	24C	
P@ENFPOLCY	3B8	
P@EXTDCTSL	6B4	
P@FRDRCLOS	6C8	
P@FRDRINIS	6B8	
P@FRDRINIT	6BC	
P@FRDROPEN	6C0	
P@FRDRREAD	6C4	
P@GETEVNTR	51C	
P@GETJOBKY	524	
P@GETPTIME	520	
P@GTSCREEN	2C0	
P@GTSPOOL	2C4	
P@HASPBACT	24	
P@HASPBPRO	20	
P@HASPBSCA	C	
P@HASPBSLN	2C	
P@HASPBUNT	28	
P@HASPEXDS	248	
P@HASPLIM	6CC	
P@HASPNSNR	448	
P@HASPROUT	10	
P@HASPSACB	44	
P@HASPSICE	48	
P@HASPSIDL	3C	
P@HASPSLNE	38	
P@HASPSLOG	34	
P@HASPSNAA	14	
P@HASPSPRO	30	
P@HASPSRAT	4C	
P@HASPSSAL	50	
P@HASPSUNT	40	
P@HASPTACT	58	
P@HASPTASV	64	
P@HASPTCPA	18	
P@HASPTIDL	5C	
P@HASPTPRO	54	
P@HASPTSSV	68	
P@HASPTUNT	60	
P@HASPWQUE	1EC	
P@HASPWQUW	1F0	
P@HASPXFRA	1C	
P@HASP051	7CC	
P@HEXTINIT	714	
P@H607RSN	1D4	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@ISSWTO	644	
P@IVATE	598	
P@JNRNGCNT	36C	
P@JOBQSAMP	370	
P@JOBSUBMT	6D0	
P@JOECLUP	2C8	
P@JOEPPSCR	2CC	
P@JOEPSCRN	2D0	
P@JOESYNC	2D4	
P@JOTFRECL	2D8	
P@JOTVERIF	2DC	
P@JQAJOBGR	378	
P@JQANETGR	3A4	
P@JQECAT	374	
P@KBLDCKB	F4	
P@KBUPDJQE	138	
P@KBUPDSUB	13C	
P@KCPYMSTR	140	
P@KDIALOG	108	
P@KFORMAT	144	
P@KGETCHLG	148	
P@KPROTECT	14C	
P@KREAD2	150	
P@KRELEASE	10C	
P@KRESERVE	110	
P@KSETINFO	114	
P@KSETMSTR	154	
P@KTRK1IO	158	
P@LNEAVRJE	568	
P@LOCENTRY	208	
P@LOCLMOD	20C	
P@LOCMODMP	210	
P@LPRMLIBP	6E4	
P@MIGRRECV	694	
P@MLMRCPCL	56C	
P@MLMVFY	7C	
P@MNENF58	2E0	
P@MNENF70	37C	
P@MNENF78	380	
P@MODESWIT	7D0	
P@MODJCHG	384	
P@MODJRLS	388	
P@MODJSPN	38C	
P@MODJXMBR	390	
P@MOD875	528	
P@MPURIO	88	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@MSAFCHK	570	
P@MSTNTFY	744	
P@NADRECV	3C4	
P@NCOMMREQ	44C	
P@NEWSCRE	6D4	
P@NGTRECV	3D0	
P@NJDCTINT	414	
P@NJECHECK	418	
P@NJEHDRCV	41C	
P@NJEHDRD	420	
P@NJEHDWR	424	
P@NJEHDXMT	428	
P@NJEPUT	42C	
P@NJERDACT	430	
P@NJHBUILD	434	
P@NJTBUILD	438	
P@NMAPINIT	450	
P@NMDRECV	3DC	
P@NNTRECV	3E8	
P@NPMHOT	454	
P@NPMQSUSE	458	
P@NPMVFY	3FC	
P@NPVDCTV	400	
P@NQESQ	738	
P@NQPSOQ	73C	
P@NQRELSE	740	
P@NRMAJUST	46C	
P@NRMRECV	3F4	
P@NSETESS	43C	
P@NSETSUBS	45C	
P@NSJFSPSP	440	
P@NSMFBSIZ	444	
P@OPGROUP	250	
P@OPMAILMG	254	
P@OPNULLCK	258	
P@PROCALOC	198	
P@PRTDFLT	230	
P@PSAFSCAN	6D8	
P@PSOFRELK	53C	
P@PURMASC	734	
P@QBERTHRE	394	
P@QDECHAIN	398	
P@QJQEVER	39C	
P@QQSESTAT	6E8	
P@QWLMSVDF	15C	
P@RBLDCTQ	59C	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@RCDSYNC	698	
P@RDRPDCUP	558	
P@REMDCTQ	5A0	
P@RESETRL	3A0	
P@RINTJOB	55C	
P@RMTDVINT	574	
P@RMTDVSET	578	
P@RMTLNECK	57C	
P@RMTSETUP	580	
P@ROTDCTQ	5A4	
P@RTNINDEX	2E4	
P@SAIHOT	584	
P@SAIRECC	588	
P@SAPIPOST	2E8	
P@SHRLIVE	18C	
P@SIGIO	69C	
P@SNASNET	64C	
P@SNFQBLD	6A4	
P@SNFQPST	6A8	
P@SNFQUE	6A0	
P@SOCKDYN	6FC	
P@SPCIOT	650	
P@SRVCFSEL	5A8	
P@SRVDCTD	5AC	
P@SRVFNDCR	5B0	
P@SRVMOD	5B4	
P@SRVM630	5B8	
P@SRVOLOC	5BC	
P@SRVPREFX	5C0	
P@SRVRDIR	5C8	
P@SRVROUT	5CC	
P@SRVSASCN	5D0	
P@SRVSETUP	5D4	
P@SRVWSCAN	5D8	
P@SUBDEST	52C	
P@SUBRRT	5DC	
P@SUBSPERF	6E0	
P@TCPSNET	700	
P@TIMECLOC	7D4	
P@TRCDUMP	238	
P@TRCPUT	23C	
P@TREGROUP	538	
P@TRGETTB	240	
P@UNSHRLIV	190	
P@VETIVATE	5E0	
P@WLMDEQ	3A8	

Table 379. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@WLMENQ	3AC	
P@WLMGOALS	7D8	
P@WS2	5E4	
P@WTORTIMR	718	
P@XCFBCAST	754	
P@XCFDHOMO	758	
P@XCFHELTH	75C	
P@XCFJOIN	760	
P@XCFLEAVE	764	
P@XCFMAPEV	768	
P@XCFMSTAT	76C	
P@XCFQSTAT	770	
P@XCFUSTAT	774	
P@XCFXMAQU	778	
P@XCLDVPST	2EC	
P@XCSAPST	5E8	
P@XDUPTEST	7DC	
P@XGOALSYM	7E0	
P@XINSTART	7E4	
P@XPOSTXEQ	7E8	
P@XPURJWEL	7B8	
P@ZAPJOB	3B0	
PADDR	0	
PADDR@OCOOFFST	8	
PADDRID	0	D7C1C4D9
PADDRLEN	7F8	7FC
PADDRV	4	
PADDRVN	4	6

$PARMLST information

$PARMLST heading information

Common name: JES2 inline parameter list DSECT

Macro ID: $PARMLST

DSECT name: PARMLIST

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: N/A
Key: N/A
Residency: This macro is generated as inline code as part of macro expansions using $CALL INLINE=. It can therefore reside in code anywhere in storage in any address space.

Size: Variable

Created by: Created at assembly time by $CALL with the INLINE= parameter.

Pointed to by: N/A

Serialization: None required

Function: This DSECT defines inline parameter lists associated with the $CALL macro via the INLINE= parameter. See $CALL for more information.
This DSECT is composed of a base section followed by many members which ORG back over this base section. Each $PARMLST member represents an inline parameter list for a particular service routine. In order to use $CALL's cross assembly calling ability and have an inline parameter list, the inline parameter list must be defined as a member of this DSECT.

$PARMLST mapping

Table 380. Structure PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PARMLIST	INLINE PARAMETER LIST DSECT
0	(0)	BITSTRING	4	PARMINST	FOR INSTRUCTION AFTER THE BASR
4	(4)	SIGNED	2	PARMSTRT(0)	LABEL ALL $PARMLST MEMBERS ORG TO
		MEMBER NAME --> $$PO ROUTINE(S) ---> $$POST in HASCSRIC MACRO(S) -----> $$POST Wake up the JES2 main task			
4	(4)	BITSTRING	1	$$POFLG1	$$POST flag byte
		1...		$$PO1BRA	"B'10000000'" LINKAGE=BRANCH POST
		.1..		$$PO1SYS	"B'01000000'" LINKAGE=SYSTEM POST
		B'00xxxxxx' LINKAGE=SVC POST			
		..1.		$$PO1ELM	"B'00100000'" ELMT specified
		...1		$$PO1RUN	"B'00010000'" Run time $DRxxx value
		.... 1...		$$PO1BR3	"B'00001000'" LINKAGE=CVT0PT03 POST
5	(5)	ADDRESS	1		Reserved
		MEMBER NAME --> $AEOJ ROUTINE(S) ---> ARMEOJ in HASCARSO MACRO(S) -----> none ARM end of job routine. This parameter list is FROZEN.			
4	(4)	BITSTRING	1	$AEOJFL1	$AEOJ FLAG BYTE
		1...		$AEOJ1JT	"B'10000000'" Job termination call
		.1..		$AEOJ1EM	"B'01000000'" End of memory call
		MEMBER NAME --> $ARTEADD ROUTINE(S) ---> ARTEADD in HASCSRJB MACRO(S) -----> $ARTEADD Add Allocated Resource Table history Entry			
4	(4)	SIGNED	1	$ARTREST	$ARTEADD Resource Type
4	(4)	X'1'	0	$ARTSPOL	"1" SPOOL tracks
4	(4)	X'2'	0	$ARTJQE	"2" JQEs
4	(4)	X'3'	0	$ARTJOE	"3" Work JOEs
4	(4)	X'4'	0	$ARTBERT	"4" BERTs
5	(5)	BITSTRING	1	$ARTFLG1	$ARTEADD flag byte 1
		1...		$ART1ASI	"B'10000000'" ASID supplied
		.1..		$ART1JQE	"B'01000000'" JQE or JQA supplied
		..1.		$ART1SJB	"B'00100000'" SJB supplied
6	(6)	BITSTRING	1	$ARTFLG2	$ARTEADD flag byte 2

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$ART2AR	"B'10000000'" AR mode active
		.1..		$ART264	"B'01000000'" 64 bit mode active
		..1.		$ART2J2M	"B'00100000'" JES2 main task environment
		...1		$ART2USR	"B'00010000'" User environment
		.... 1...		$ART2TSK	"B'00001000'" Subtask environment
		MEMBER NAME --> $ARTERAT ROUTINE(S) ---> ARTERAT in HASCSRJB MACRO(S) -----> $ARTERAT Calculate selected resource consumption rate			
4	(4)	SIGNED	1	$ARCREST	$ARTECNT Resource Type - see ARTREST above for possible values
5	(5)	BITSTRING	1	$ARCFLG1	$ARTECNT flag byte 1
		1...		$ARC1ASI	"B'10000000'" ASID supplied
		.1..		$ARC1JQE	"B'01000000'" JQE or JQA supplied
		..1.		$ARC1SJB	"B'00100000'" SJB supplied
6	(6)	BITSTRING	1	$ARCFLG2	$ARTEADD flag byte 2
		1...		$ARC2AR	"B'10000000'" AR mode active
		.1..		$ARC264	"B'01000000'" 64 bit mode active
		..1.		$ARC2J2M	"B'00100000'" JES2 main task environment
		...1		$ARC2USR	"B'00010000'" User environment
		.... 1...		$ARC2TSK	"B'00001000'" Subtask environment
		MEMBER NAME --> $BLDTGB ROUTINE(S) ---> $BLDTGB in HASPTRAK MACRO(S) -----> $BLDTGB Build trackgroup block			
4	(4)	BITSTRING	1	$BTGFLG1	$BLDTGB flag byte
		1...		$BTGBMTR	"B'10000000'" ID=MTTR was specified
		.1..		$BTGBTGM	"B'01000000'" ID=TGM was specified
		..1.		$BTGBMQR	"B'00100000'" ID=MQTR was specified
		MEMBER NAME --> CATCBLD ROUTINE(S) ---> CATCBLD in HASPXEQ MACRO(S) -----> N/A Build CAT cache			
4	(4)	BITSTRING	1	$CBLFLG1	CATBLD flag byte
		1...		$CBL1NWA	"B'10000000'" Caller cannot $WAIT
		MEMBER NAME --> $CBI ROUTINE(S) ---> $CBIO IN HASCSRDS $CBIOM in HASPNUC MACRO(S) -----> $CBIO CONTROL BLOCK I/O ROUTINE.			
4	(4)	BITSTRING	1	$CBIFLG1	$CBIO flag byte
		EQU B'10000000' Reserved			
		.1..		$CB1EXIT	"B'01000000'" EXIT 8 SHOULD BE TAKEN
		..1.		$CB1NOVF	"B'00100000'" BYPASS CNTRL BLK VERIFY
		...1		$CB1NSJB	"B'00010000'" NO SJB PROVIDED
		.... 1...		$CB1SJIO	"B'00001000'" SJIOB PROVIDED

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$CB1FREE	"B'00000100'" FREE THE BUFFER
		.... ..1.		$CB1WAIT	"B'00000010'" ON - WAIT=YES SPECIFIED, OFF - WAIT=NO SPECIFIED.
		1		$CB1COND	"B'00000001'" Conditional Write
5	(5)	BITSTRING	1	$CBIFLG2	$CBIO flag byte
		1...		$CB2WRIT	"B'10000000'" TYPE=WRITE operation
		.1..		$CB2TWAT	"B'01000000'" TYPE=WAIT requested
		..1.		$CB2FSSM	"B'00100000'" $CBIO called from FSSM
		...1		$CB2SUPM	"B'00010000'" Suppress error messages
		.... 1...		$CB2MQTR	"B'00001000'" MQTR passed in register 0
		.... .1..		$CB2SPLQ	"B'00000100'" SPOLPTR is an MQTR
		.... ..1.		$CB2NORF	"B'00000010'" WAIT=(NO,NOREF) SPECIFIED
		1		$CB2AM24	"B'00000001'" Obtain buffers below line
6	(6)	BITSTRING	1		Reserved
7	(7)	BITSTRING	1	$CBCKPTB	CKPTBIT VALUE
8	(8)	ADDRESS	2	$CBSTORP	STORPTR VALUE
10	(A)	ADDRESS	2	$CBSPOLP	SPOLPTR VALUE
12	(C)	ADDRESS	2	$CBCKPTF	CKPTFLD VALUE
14	(E)	CHARACTER	4	$CBVERID	VERIFY ID
18	(12)	ADDRESS	4	$CBVERIX	Verify index (if known)
22	(16)	CHARACTER	8	$CBISECT	Control Section name
30	(1E)	CHARACTER	8	$CBISEQF	Invoking seq number

```
MEMBER NAME --> $VERIFY
ROUTINE(S) ---> $VERIFY in HASCSRDS
MACRO(S) -----> $VERIFY
CBIO control block verification service
$VERIFY passes parameters in registers and
does not use inline parameter list.
However, one of the parameters is a pointer to
4 byte control block ID.
It can be a 4 character EBCDIC identifier of a
control block (e.g. 'IOT '); or 4 byte binary index
in the verification table HASPVTAB (in HASCSRDS).
Note that equates in this list should be in the
same order as entries in HASPVTAB.
```

30	(1E)	X'0'	0	$VFYCHK	"0" Verify CHK
30	(1E)	X'1'	0	$VFYDSCA	"1" Verify DSCA
30	(1E)	X'2'	0	$VFYDSIX	"2" Verify DSIX
30	(1E)	X'3'	0	$VFYHDB	"3" Verify HDB
30	(1E)	X'4'	0	$VFYIOT	"4" Verify IOT
30	(1E)	X'5'	0	$VFYJCT	"5" Verify JCT
30	(1E)	X'6'	0	$VFYOCT	"6" Verify OCT
30	(1E)	X'7'	0	$VFYSWBI	"7" Verify SWBI
30	(1E)	X'8'	0	$VFYNHSB	"8" Verify NHSB
30	(1E)	X'9'	0	$VFYTLBM	"9" Verify TLBM
30	(1E)	X'A'	0	$VFYJSMT	"10" Verify JSMT
30	(1E)	X'B'	0	$VFYEMQT	"11" Verify EMQT
30	(1E)	X'C'	0	$VFYDSET	"12" Verify DSET

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $CDCTDYN ROUTINE(S) ---> $CDCTDYN in HASPDYN MACRO(S) -----> $CDCTDYN			
4	(4)	BITSTRING	1	$CDCTYPE	Flag byte 1
4	(4)	X'1'	0	$CDCTDCT	"1" DCT= was specified
4	(4)	X'2'	0	$CDCTAPT	"2" APT= was specified
4	(4)	X'3'	0	$CDCTSCK	"3" SCK= was specified
4	(4)	X'4'	0	$CDCTRAT	"4" RAT= was specified
4	(4)	X'5'	0	$CDCTCDC	"5" CDCT= was specified
4	(4)	X'6'	0	$CDCTXRQ	"6" XREQ= was specified
4	(4)	X'7'	0	$CDCTLIM	"7" LIM= was specified
5	(5)	BITSTRING	1	$CDCFLG1	Flag byte 2
		1...		$CDC1CRE	"B'10000000'" CREATE=YES
		.1..		$CDC1SYN	"B'01000000'" SYNCH=YES
		..1.		$CDC1BRO	"B'00100000'" BROADCAST=YES
		...1		$CDC1INV	"B'00010000'" MARK=INVALID
		.... 1...		$CDC1VAL	"B'00001000'" MARK=VALID
		.... .1..		$CDC1BRC	"B'00000100'" BROADCAST=COND
		.... ..1.		$CDC164B	"B'00000010'" CB is 64bit address
		1		$CDC1DC2	"B'00000001'" Create a CDC2 control block
		MEMBER NAME --> $CFX ROUTINE(S) ---> CSMICMD IN HASPCOMM MACRO(S) -----> $CFXMJC Single Member Image subroutine.			
4	(4)	BITSTRING	1	$CFXFLG1	Response flag
		1...		$CFX1RSP	"B'10000000'" Return a command response
5	(5)	BITSTRING	1		Reserved for future use
		Member name --> $CKPALOC Routine(s) ---> CKPTALOC in HASPCKDS Macro(s) -----> $CKPALOC Checkpoint allocation service			
4	(4)	BITSTRING	1	$CKAPARF	$CKPALOC flag byte
		1...		$CKAOLD	"B'10000000'" OLD=YES was specified
		.1..		$CKANEW	"B'01000000'" NEW=YES was specified
		..1.		$CKADEF	"B'00100000'" NEW=DEFER was specified
		Member name --> $CKPT Routine(s) ---> $CKPT in HASPNUC Macro(s) -----> $CKPT Checkpoint control block change			
4	(4)	BITSTRING	1	$CKPARMF	$CKPT flag byte
		1...		$CKPPOST	"B'10000000'" $POST CKPT
		.1..		$CKPUNK	"B'01000000'" Unknown ID
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	4	$CKPID	CTENT ID

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $CKPTQUE ROUTINE(S) ---> $CKPTQUE IN HASPCKPT MACRO(S) -----> $CKPTQUE Queue work to CKPT PCE			
4	(4)	ADDRESS	4	$CKQRTN	Routine address
		MEMBER NAME --> $CMSGLOK ROUTINE(S) ---> CMSGLOK in HASCSRIC MACRO(S) -----> $GETMLOK Get CMS or LOCAL lock (or both)			
4	(4)	BITSTRING	1	$CMSGFLG	Flags
		1...		$CMSGLOC	"B'10000000'" Get LOCAL lock only
		.1..		$CMSGCMS	"B'01000000'" Get CMS lock only
		11..		$CMSGBTH	"B'11000000'" Get LOCAL and CMS lock
		MEMBER NAME --> $CMSFLOK ROUTINE(S) ---> CMSFLOK in HASCSRIC MACRO(S) -----> $FREMLOK Free CMS or LOCAL lock (or both)			
4	(4)	BITSTRING	1	$CMSFFLG	Flags
		1...		$CMSFLOC	"B'10000000'" Free LOCAL lock only
		.1..		$CMSFCMS	"B'01000000'" Free CMS lock only
		11..		$CMSFBTH	"B'11000000'" Free local and CMS lock
		MEMBER NAME --> $CPL ROUTINE(S) ---> CPGET, CPFREE in HASCPOOL MACRO(S) -----> $CPOOL CPOOL TYPE=GET SUBROUTINE.			
4	(4)	BITSTRING	1	$CPL1	
		1...		$CPL1CDY	"B'10000000'" $CPOOL COND=YES
		.1..		$CPL1HXN	"B'01000000'" $CPOOL HASXB=NONE
		MEMBER NAME --> $CRJOES ROUTINE(S) ---> CRJOES in HASCSISC MACRO(S) -----> $CRJOES Create JOEs or JOA (optionally acquire and free storage for JOA)			
4	(4)	BITSTRING	1	$CRJFLG1	
		..1.		$CRJ1ALC	"B'00100000'" ALLOCATE and return JOA
		...1		$CRJ1FRE	"B'00010000'" FREEMAIN JOA
		.... 1...		$CRJ1CLR	"B'00001000'" Clear passed JOA
		MEMBER NAME --> $CKTSRV ROUTINE(S) ---> $CKTSRV in HASPCKPT MACRO(S) -----> None $CKTSRV routine inline parameter list.			
4	(4)	BITSTRING	1	$CKSREQ	Request/event type:
4	(4)	X'1'	0	$CKSSTRT	"1" - START CKPT tuning
4	(4)	X'2'	0	$CKSSTOP	"2" - STOP CKPT tuning
4	(4)	X'3'	0	$CKSADDM	"3" - ADD MEMBER
4	(4)	X'4'	0	$CKSDELM	"4" - DELETE MEMBER
4	(4)	X'5'	0	$CKSOPT	"5" - OPTIMIZE CKPT cycle
5	(5)	BITSTRING	1	$CKSFLG1	Parameter flags:

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$CKS1ALL	"B'10000000'" - apply to all members
		.1..		$CKS1LVC	"B'01000000'" - check member levels when sending message
		..1.		$CKS1XRQ	"B'00100000'" - XREQ passed in R1
		MEMBER NAME --> $CW ROUTINE(S) ---> CWTO IN HASPCOMM MACRO(S) -----> $CWTO WRITE - TO - OPERATOR SUBROUTINE.			
4	(4)	ADDRESS	1	$CWTOFLG	
		1...		$CWTOMVC	"B'10000000'" EXECUTE OF MVC INSTRUCT. NEEDED
		.1..		$CWTOLST	"B'01000000'" LAST LINE OF MLWTO
		..1.		$CWTONWT	"B'00100000'" WAIT=NO WAS SPECIFIED
		MEMBER NAME --> $DIL ROUTINE(S) ---> $DILBERT in HASPJQS MACRO(S) -----> $DILBERT Do It Later when BERT lock is available routine inline parameter list			
4	(4)	BITSTRING	1	$DILTYPE	TYPE specification
4	(4)	X'1'	0	$DILTJQE	"1" TYPE=JQE specified
4	(4)	X'2'	0	$DILTJOE	"2" TYPE=JOE specified
5	(5)	BITSTRING	1	$DILVERS	Version
5	(5)	X'1'	0	$DILCVER	"1" Current version
6	(6)	BITSTRING	1	$DILFLG1	Flag byte
		1...		$DILF1CL	"B'10000000'" CALL=YES speciifed
		.1..		$DILF1IM	"B'01000000'" Execute immediate instruction rather than calling routine
		..1.		$DILF1WA	"B'00100000'" $WAIT for flush
		...1		$DILF1FL	"B'00010000'" Flush DWAs
		.... 1...		$DILF1PO	"B'00001000'" $POST Resource
		.... .1..		$DILF1ND	"B'00000100'" Do not queue duplicates
		.... ..1.		$DILF1QP	"B'00000010'" QPOST when resource ret
		1		$DILF1#P	"B'00000001'" $#POST when resource ret
7	(7)	BITSTRING	1	$DILFLG2	Second Flag byte
		1...		$DILF2PA	"B'10000000'" Pace requests by rtn addr
		.1..		$DILF2QS	"B'01000000'" Queues need not be owned
		..1.		$DILF2SP	"B'00100000'" Get JQA in special mode
		...1		$DILF2CK	"B'00010000'" Check DWAs
		.... 1...		$DILF2GM	"B'00001000'" GETMAIN'ed DWA
		.... .1..		$DILF2FN	"B'00000100'" Don't queue a DWA if flush unsuccessful
		.... ..1.		$DILF2FP	"B'00000010'" Flush only DWAs for this specific PCE
		1		$DILF2FT	"B'00000001'" Flush only DWAs for this PCE type
8	(8)	BITSTRING	4	$DILIMME	Immed instruction

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $DTR ROUTINE(S) ---> $DISTERR in HASPRAS MACRO(S) -----> $DISTERR Disasterous error routine inline parameter list			
4	(4)	BITSTRING	1	$DTRFLG1	General flag 1
		1...		$DTRRJQE	"B'10000000'" JQE= specified
		.1..		$DTRRJCT	"B'01000000'" JCT= specified
		..1.		$DTRRND	"B'00100000'" DUMP=NO specified
		...1		$DTRRNAM	"B'00010000'" RECVOPTS= specified
		.... 1...		$DTRRSIG	"B'00001000'" SIGRCD= specified
		.... .1..		$DTRMQTR	"B'00000100'" MQTR= specified
		.... ..1.		$DTRMASD	"B'00000010'" DUMP=MAS specified
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	8	$DTRNAME	Name of $DISTERR
14	(E)	CHARACTER	8	$DTRSECT	Name of CSECT
22	(16)	CHARACTER	8	$DTRSEQ	Sequence number of $DISTERR
30	(1E)	CHARACTER	8	$DTRRECV	RECVOPTS= value
		MEMBER NAME --> $DOGJAX ROUTINE(S) ---> $DOGJAX in HASPSERV MACRO(S) -----> $DOGJAX			
4	(4)	BITSTRING	1	$DJXREQ	Action/request:
4	(4)	X'1'	0	$DJXRQCR	"1" ACTION=CREATE
4	(4)	X'2'	0	$DJXRQFE	"2" ACTION=FETCH
4	(4)	X'3'	0	$DJXRQCK	"3" ACTION=CKPT
4	(4)	X'4'	0	$DJXRQRT	"4" ACTION=RETURN
4	(4)	X'5'	0	$DJXRQFR	"5" ACTION=FREE
4	(4)	X'6'	0	$DJXRQRS	"6" ACTION=RESET
5	(5)	BITSTRING	1	$DJXFLGS	$DOGJAX options:
		1...		$DJXFWT	"B'10000000'" WAIT=YES
		.1..		$DJXFJAX	"B'01000000'" JAX addr supplied in R1
		..1.		$DJXFNCK	"B'00100000'" do not checkpoint changes
		MEMBER NAME --> $DOGJOE ROUTINE(S) ---> $DOGJOE MACRO(S) -----> $DOGJOE Deliver or Get JOE routine's inline parameter list			
0	(0)	SIGNED	1	$DOVERS	Version of parameter list
0	(0)	X'1'	0	$DOCVER	"1" Parameter list version
1	(1)	SIGNED	1	$DOACT	Action requested
1	(1)	X'0'	0	$DOAFETN	"0" Fetch next JOE
1	(1)	X'4'	0	$DOAFET	"4" Fetch JOE
1	(1)	X'8'	0	$DOARET	"8" RETURN JOE (CKPT and Rel)
1	(1)	X'C'	0	$DOACKPT	"12" CKPT JOE (CKPT, *no* Rel)
1	(1)	X'10'	0	$DOAFLD	"16" CKPTFLD
1	(1)	X'14'	0	$DOAREFR	"20" Refresh JOA
1	(1)	X'18'	0	$DOAFREE	"24" Free JOA

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	X'1C'	0	$DOAQLOK	"28" QUERYLOCK
1	(1)	X'20'	0	$DOASETA	"32" SETACCESS
2	(2)	BITSTRING	1	$DOFLAG2	More $DOGJOE option flags
		1...		$DO2DSRV	"B'10000000'" DSERV provided
		.1..		$DO2SPCL	"B'01000000'" Special call (no BERT lock)
		..1.		$DO2READ	"B'00100000'" READ access requested
		...1		$DO2NWAT	"B'00010000'" WAIT=NO
		.... 1...		$DO2WDEF	"B'00001000'" DEFER option on WAIT=NO
		.... .1..		$DO2CONF	"B'00000100'" Conditional FREE
		.... ..1.		$DO2NROL	"B'00000010'" Skip any $ROLL trace
		1		$DO2RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	BITSTRING	1	$DOFLAG3	More $DOGJOE option flags
		1...		$DO3RELE	"B'10000000'" Release BERT lock
		.1..		$DO3KEEP	"B'01000000'" Keep memory for JOA
		..1.		$DO3UCON	"B'00100000'" Unconditional return for ACTION=RETURN
		...1		$DO3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		$DO3QLOB	"B'00001000'" QUERYLOCK,OBTAINABLE
		.... ..1.		$DO3MAX	"B'00000010'" ACTION=(CKPT,MAXJOA)
		1		$DO3POST	"B'00000001'" POST=YES for ACTION=CKPT
4	(4)	BITSTRING	1	$DOFLAG4	More $DOGJOE option flags
		.1..		$DO4#PSY	"B'01000000'" #POST=YES
		..1.		$DO4KPJW	"B'00100000'" #POST=(,KEEPJWEL)
		...1		$DO4MNJT	"B'00010000'" #POST=(,JOETIME)
5	(5)	BITSTRING	1	$DOFLAG5	More $DOGJOE option flags
6	(6)	SIGNED	2	$DOACTOR(0)	Action specific fields
6	(6)	SIGNED	2	$DOCHAIN	Offset of chaining field (present only if $DOFETN)
6	(6)	SIGNED	2	$DOCKOFF	Field offset and length
8	(8)	SIGNED	2	$DOCKLEN	for CKPTFLD request (present only if $DOAFLD)
8	(8)	X'A'	0	$DOLEN	"*-PARMLIST" Length of $DOGJOE MF=L

```
MEMBER NAME --> $DOGJQE
ROUTINE(S) ---> $DOGJQE
MACRO(S) -----> $DOGJQE
Deliver or Get JQE routine's inline parameter list
```

0	(0)	SIGNED	1	$DJACT	Action requested
0	(0)	X'0'	0	$DJAFETN	"0" Fetch next JQE
0	(0)	X'4'	0	$DJAFET	"4" Fetch JQE
0	(0)	X'8'	0	$DJALOCK	"8" Manage BERT lock
0	(0)	X'C'	0	$DJARET	"12" RETURN JQE (CKPT and Rel)
0	(0)	X'10'	0	$DJACKPT	"16" CKPT JQE (CKPT, *no* Rel)
0	(0)	X'14'	0	$DJAREFR	"20" Refresh JQA
0	(0)	X'18'	0	$DJAFREE	"24" Free JQA
0	(0)	X'1C'	0	$DJASETA	"28" Set access
0	(0)	X'20'	0	$DJAQLOK	"32" QUERYLOCK

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'24'	0	$DJAFLD	"36" CKPTFLD
1	(1)	BITSTRING	1	$DJFLAG2	More $DOGJQE option flags
		1...		$DJ2DSRV	"B'10000000'" DSERV provided
		.1..		$DJ2SPCL	"B'01000000'" Special call (no BERT lock)
		..1.		$DJ2KEEP	"B'00100000'" Keep memory for JQA
		...1		$DJ2NWAT	"B'00010000'" WAIT=NO or QUERYLOCK,OBTAINABLE
		.... 1...		$DJ2CONF	"B'00001000'" Conditional FREE
		.... .1..		$DJ2POST	"B'00000100'" POST=YES for ACTION=CKPT
		.... ..1.		$DJ2UCON	"B'00000010'" Unconditional return for ACTION=RETURN
		1		$DJ2URFR	"B'00000001'" Unconditional refresh
2	(2)	BITSTRING	1	$DJFLAG3	More $DOGJQE option flags
		1...		$DJ3READ	"B'10000000'" READ access requested
		.1..		$DJ3RELE	"B'01000000'" Release BERT lock
		..1.		$DJ3WDEF	"B'00100000'" Defer RETURN if required
		...1		$DJ3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		$DJ3QPSY	"B'00001000'" QPOST=YES
		.... .1..		$DJ3#PSY	"B'00000100'" #POST=YES
		.... ..1.		$DJ3MAX	"B'00000010'" ACTION=(CKPT,MAXJQA)
		1		$DJ3RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	SIGNED	1	$DJVERS	Version of parameter list
3	(3)	X'2'	0	$DJCVER	"2" Parameter list version
4	(4)	BITSTRING	1	$DJFLAG4	More $DOGJQE option flags
5	(5)	BITSTRING	1	$DJFLAG5	More $DOGJQE option flags
6	(6)	SIGNED	2	$DJCHAIN	Offset of chaining field (present only if $DJFETN)
6	(6)	X'8'	0	$DJLEN	"*-PARMLIST" Length of $DOGJQE MF=L

```
MEMBER NAME --> $DOGPRA
ROUTINE(S) ---> $DOGPRA in HASPSERV
MACRO(S) -----> $DOGPRA
```

4	(4)	BITSTRING	1	$DPRREQ	Action/request:
4	(4)	X'1'	0	$DPRRQCR	"1" ACTION=CREATE
4	(4)	X'2'	0	$DPRRQFE	"2" ACTION=FETCH
4	(4)	X'3'	0	$DPRRQCK	"3" ACTION=CKPT
4	(4)	X'4'	0	$DPRRQRT	"4" ACTION=RETURN
4	(4)	X'5'	0	$DPRRQFR	"5" ACTION=FREE
4	(4)	X'6'	0	$DPRRQRS	"6" ACTION=RESET
4	(4)	X'7'	0	$DPRRINA	"7" ACTION=RESET_INACTIVE
5	(5)	BITSTRING	1	$DPRFLGS	$DOGPRA options:
		1...		$DPRFWT	"B'10000000'" WAIT=YES
		.1..		$DPRFPRA	"B'01000000'" PRV addr supplied in R1
		..1.		$DPRFNCK	"B'00100000'" do not checkpoint changes
		...1		$DPREJQE	"B'00010000'" Reset JQE resource

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		$DPREJOE	"B'00001000'" Reset JOE resource
		.... .1..		$DPREBER	"B'00000100'" Reset BERT resource
		.... ..1.		$DPRETRK	"B'00000010'" Reset SPOOL track resource
		1		$DPREMSG	"B'00000001'" Cut message on reset
6	(6)	BITSTRING	1	$DPRFLG2	More $DOGPRA option flags
		1...		$DPRSMAL	"B'10000000'" Small environment on create

```
MEMBER NAME --> $DST
ROUTINE(S) ---> USERDEST IN HASCSIRQ
MACRO(S) -----> $DEST
DESTINATION CONVERSION ROUTINE'S INLINE PARAMETER LIST.
```

4	(4)	BITSTRING	1	$DSTFLG1	$DEST MACRO OPTION FLAGS
		1...		$DSTCHAR	"B'10000000'" CHARACTER INPUT
		.1..		$DSTRDT	"B'01000000'" DESTIDs allowed
		..1.		$DSTGNRC	"B'00100000'" Generic userids allowed at local node
		...1		$DST1EXP	"B'00010000'" EXPLICIT=YES was specified
		.... 1...		$DSTNRP	"B'00001000'" RMTPOOL=NO WAS REQUESTED
		.... .1..		$DSTPRIM	"B'00000100'" PRIMARY=YES, RETURN NODENM
		.... ..1.		$DSTUSER	"B'00000010'" USERID SUPPLIED OR DESIRED
		1		$DSTNSPR	"B'00000001'" DO NOT SUPPRESS NODE FOR LOCAL BINARY TO CHARACTER CONV
5	(5)	BITSTRING	1	$DSTFLG2	$DEST macro options flag 2
		1...		$DST2IGN	"B'10000000'" NODENAME=IGNORED
		.1..		$DST2DFM	"B'01000000'" DLMFAIL=YES
		..1.		$DST2NUS	"B'00100000'" DONTUSE= was specified
		...1		$DST2IPY	"B'00010000'" IPFORM=YES (or LONG) was specified
		.... 1...		$DST2IGS	"B'00001000'" SHOWUSER=IGNORED
		.... .1..		$DST2IPD	"B'00000100'" IPFORM=SHORT was specified
		.... ..1.		$DST2NVU	"B'00000010'" VALUSR=NO was specified

```
MEMBER NAME --> $DSD
ROUTINE(S) ---> $DESTDYN IN HASPDYN
MACRO(S) -----> $DESTDYN
DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.
```

4	(4)	BITSTRING	1	$DSDFLG1	$DESTDYN MACRO OPTION FLAGS (VALUES ARE RDT1NODE/RDT1DEST)
5	(5)	BITSTRING	1	$DSDFLG2	$DESTDYN MACRO OPTION FLAG 2
		1...		$DSD2FOR	"B'10000000'" Force NODAL destination

```
MEMBER NAME --> $DGB
ROUTINE(S) ---> $DOGBERT in HASPCKPT
                BERTREAD in HASCSRIC
MACRO(S) -----> $DOGBERT
BERT Deliver and Get services inline parm list
```

4	(4)	SIGNED	1	$DGBACT	ACTION= being requested
4	(4)	X'1'	0	$DGBFTCH	"1" FETCH action

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'2'	0	$DGBNEXT	"2" FETCHNEXT action
4	(4)	X'3'	0	$DGBCKPT	"3" CKPT action
4	(4)	X'4'	0	$DGBRETN	"4" RETURN action
4	(4)	X'5'	0	$DGBFREE	"5" FREE action
4	(4)	X'6'	0	$DGBSTSP	"6" SETSPECIAL action
5	(5)	BITSTRING	1	$DGBFLAG	General parameter flags
		1...		$DGBWAIT	"B'10000000'" $WAIT is allowed
		.1..		$DGBQSUS	"B'01000000'" Get the queues
		..1.		$DGBUPDT	"B'00100000'" Update access needed
		...1		$DGBNAME	"B'00010000'" NAME= was passed
		.... 1...		$DGBTOKN	"B'00001000'" TOKEN= was passed
		.... .1..		$DGBSPEC	"B'00000100'" SPECIAL=YES was specified
		.... ..1.		$DGBNUPD	"B'00000010'" No write update requested
		1		$DGBNRDD	"B'00000001'" No read data requested
		The following must match the values in BRTTYPE in the $BERT control block.			
6	(6)	SIGNED	1	$DGBCB	Control block type
6	(6)	X'0'	0	$DGBINT	"0" Internal control block
6	(6)	X'1'	0	$DGBJQE	"1" JQE control block ext
6	(6)	X'2'	0	$DGBCAT	"2" CAT control block
6	(6)	X'3'	0	$DGBWSCQ	"3" WLM Service Class Queue
		1111 1111		$DGBDYN	"X'FF'" Dynamically defined type
7	(7)	BITSTRING	1	$DGBFLG2	Second flag byte
		1...		$DGB2CRE	"B'10000000'" ACTION=(,CREATE) spec
		.1..		$DGB2UNK	"B'01000000'" CB type unknown
		..1.		$DGB2PAD	"B'00100000'" ACTION=(CKPT,PAD)
		...1		$DGB2PBE	"B'00010000'" Flag bytes 1 and 2 in PBEDGBF1 & PBEDGBF2
		.... 1...		$DGB2NEV	"B'00001000'" MOREBERTS=NEVER
		.... .1..		$DGB2UNC	"B'00000100'" ACTION=(CKPT,UNCOND)
		The following field is only generated for dynamic BERT types			
8	(8)	CHARACTER	8	$DGBTNAM	BERT type in EBCDIC
		MEMBER NAME --> $DGD ROUTINE(S) ---> $DOGDJB routine in HASPJQS ROUTINE(S) ---> DJBREAD routine in HASCSRIC MACRO(S) -----> $DOGDJB Deliver Or Get Duplicate Jobname Block			
4	(4)	BITSTRING	1	$DGDFLG1	$DOGDJB Macro options
		1...		$DGD1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGD1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGD1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1		$DGD1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		$DGD1FRE	"B'00001000'" ACTION=FREE

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$DGD1BRO	"B'00000100'" MOREBERTS=NEVER
		.... ..1.		$DGD1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		1		$DGD1RES	"B'00000001'" ACTION=RESET
5	(5)	BITSTRING	1	$DGDFLG2	$DOGDJB Macro options
		1...		$DGD2ACC	"B'10000000'" ACTION=SETACCESS
		.1..		$DGD2CAC	"B'01000000'" CACHE=YES
		..1.		$DGD2WAI	"B'00100000'" WAIT=NO
		...1		$DGD2FST	"B'00010000'" Fast lookup eligible
		MEMBER NAME --> $DGG ROUTINE(S) ---> $DOGGRP routine in HASPXEQ MACRO(S) -----> $DOGGRP Deliver Or Get class group in support of 8 character jobclass.			
4	(4)	BITSTRING	1	$DGGFLG1	$DOGGRP Macro options
		1...		$DGG1CRE	"B'10000000'" ACTION=(FETCH,CREATE)
		.1..		$DGG1RED	"B'01000000'" ACTION=(FETCH,READ)
		..1.		$DGG1FET	"B'00100000'" ACTION=(FETCH...) UPDATE
		...1		$DGG1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		$DGG1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		$DGG1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		$DGG1CKP	"B'00000010'" ACTION=CKPT
		1		$DGG1WAI	"B'00000001'" WAIT=NO
5	(5)	BITSTRING	1	$DGGFLG2	$DOGGRP Macro options
		1...		$DGG2FTN	"B'10000000'" ACTION=FETCHNEXT
		MEMBER NAME --> $DGV ROUTINE(S) ---> $DOGMIG routine in HASPSPOL MACRO(S) -----> $DOGMIG Deliver Or Get temporary migration object in support of spool volume migration.			
4	(4)	BITSTRING	1	$DGVFLG1	$DOGMIG Macro options
		1...		$DGV1FET	"B'10000000'" ACTION=(FETCH,UPDATE)
		.1..		$DGV1CRE	"B'01000000'" ACTION=(FETCH,CREATE)
		..1.		$DGV1RED	"B'00100000'" ACTION=(FETCH,READ)
		...1		$DGV1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		$DGV1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		$DGV1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		$DGV1CKP	"B'00000010'" ACTION=CKPT
		1		$DGV1WAI	"B'00000001'" WAIT=NO
		MEMBER NAME --> $DGT ROUTINE(S) ---> $DOGCAT routine in HASPXEQ MACRO(S) -----> $DOGCAT Deliver Or Get Class Attribute Table			
4	(4)	BITSTRING	1	$DGTFLG1	$DOGCAT Macro options
		1...		$DGT1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGT1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGT1UPD	"B'00100000'" ACTION=(...,UPDATE)

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$DGT1AQS	"B'00000100'" ALLQUES=YES specified
		.... ..1.		$DGT1AQR	"B'00000010'" ALLQUES=(YES,REBLD)
		1		$DGT1TYP	"B'00000001'" TYPE= was specified
5	(5)	BITSTRING	1	$DGTFLG2	$DOGCAT Macro options
		1...		$DGT2BRO	"B'10000000'" MOREBERTS=NEVER
		.1..		$DGT2WAI	"B'01000000'" WAIT=NO
		..1.		$DGT2JBC	"B'00100000'" JOBCLASS= was specified
		...1		$DGT2CRE	"B'00010000'" ACTION=(FETCH,CREATE)
		.... 1...		$DGT2FRE	"B'00001000'" ACTION=FREE
		.... .1..		$DGT2CPY	"B'00000100'" GETCOPY was specified.
		.... ..1.		$DGT2BCH	"B'00000010'" BATCHONLY=YES specified
		MEMBER NAME --> $DGW ROUTINE(S) ---> $DOGWSCQ routine in HASPXEQ MACRO(S) -----> $DOGWSCQ Deliver Or Get Service Class Queue			
4	(4)	BITSTRING	1	$DGWFLG1	$DOGWSCQ Macro options
		1...		$DGW1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGW1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGW1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1		$DGW1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		$DGW1FRE	"B'00001000'" ACTION=FREE
		.... .1..		$DGW1CKP	"B'00000100'" ACTION=CKPT
		.... ..1.		$DGW1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		1		$DGW1BRO	"B'00000001'" MOREBERTS=NEVER
5	(5)	BITSTRING	1	$DGWFLG2	$DOGWSCQ Macro options
		1...		$DGW2WAI	"B'10000000'" WAIT=NO
		MEMBER NAME --> $DSN ROUTINE(S) ---> DAATSET SET NAME VERIFICATION IN HASPSRDS MACRO(S) -----> $DSNVFY DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.			
		....		DSNVALL	"B'00000000'" COMPLETE DATASET NAME VERIFICATION
		1...		DSNRONLY	"B'10000000'" RESERVE WORD ONLY VERIFICATION
		MEMBER NAME --> $DSR ROUTINE(S) ---> GOFDSERV ROUTINE IN HASCSRIC MACRO(S) -----> $DSERV OBTAIN OR RELEASE A CHECKPOINT VERSION			
4	(4)	BITSTRING	1	$DSRFLG1	Flag byte 1
		1...		$DSR1GET	"B'10000000'" GET request
		.1..		$DSR1FRE	"B'01000000'" FREE request
		..1.		$DSR1LIV	"B'00100000'" Use "live" version
		...1		$DSR1RFR	"B'00010000'" Refresh non checkpoint resident data pointers
		MEMBER NAME --> $DV ROUTINE(S) ---> CNVDEVID ROUTINE IN HASCSISC MACRO(S) -----> $DVIDBLD CONVERT A DEVID TO A DEVICE NAME			

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$DVFLG1	Flags
		1...		$DV1JQE	"B'10000000'" JQE address passed
		.1..		$DV1CHAR	"B'01000000'" CONV=CHAR specified
5	(5)	SIGNED	1	$DVLENG	Length of device name field

```
MEMBER NAME --> $EST
ROUTINE(S) ---> SSISESTA in HASCLINK
MACRO(S) -----> $ESTAE (assembler)
                $ESTAEP (PL/X)
JES2 Establish ESTAE Inline Parameter List.
```

4	(4)	BITSTRING	1	$ESTFCN	Requested function
		1...		$ESTCRAT	"B'10000000'" Create
		.1..		$ESTDLET	"B'01000000'" Delete
5	(5)	BITSTRING	1	$ESTFLAG	Flags
		1...		$ESTFNDM	"B'10000000'" Do not capture dump
6	(6)	ADDRESS	4	$ESTRECX	Recovery exit addr if any
10	(A)	SIGNED	2	$ESTNBR	Number of retry addresses - currently always 1
12	(C)	ADDRESS	4	$ESTRTYA	Retry address

```
MEMBER NAME --> EXI
ROUTINE(S) ---> $JESEFF IN HASPNUC, USERSUB IN HASCSIRQ
MACRO(S) -----> $EXIT
JES2 EXIT EFFECTOR'S INLINE PARAMETER LIST.
```

4	(4)	CHARACTER	8	EXITNAME	LABEL ON $EXIT OR CSECT NAME IF NO LABEL WAS SPECIFIED
12	(C)	BITSTRING	1	EXITFLGS	EXIT FLAGS

```
The bits EXITUSER, EXITSTSK, EXITJES2 and EXITFSS have
a one to one correspondence to the following bits in
$TTE : TDXFENVU, TDXFENVS, TDXFENVJ and TDXFENVF.
These bits MUST remain in the currently defined order.
```

		1...		EXITTR	"B'10000000'" EXIT EFFECTOR SHOULD DO TRACE
		.1..		EXITUSER	"B'01000000'" USER ENVIRONMENT
		..1.		EXITSTSK	"B'00100000'" SUBTASK ENVIRONMENT
		...1		EXITJES2	"B'00010000'" JES2 ENVIRONMENT
		.... 1...		EXITFSS	"B'00001000'" FSS ENVIRONMENT
		.... .1..		EXITXPL	"B'00000100'" $XPL passed to exit
13	(D)	ADDRESS	1	EXITID	EXIT ID
14	(E)	ADDRESS	1	EXITMRC	MAXIMUM RETURN CODE
15	(F)	ADDRESS	1	EXITRSVD	RESERVED FOR FUTURE USE
15	(F)	X'C'	0	EXITLNG	"(*-PARMSTRT+1)/2*2" LENGTH OF EXIT PARAMETER LIST

```
MEMBER NAME --> $FAC
ROUTINE(S) ---> $FMTSACC in HASMIPSV
MACRO(S) -----> $FMTSACC and $FMTSFMT
$FMTSACC and $FMTSFMT inline parameter list
```

4	(4)	CHARACTER	8	$FACSECT	Control section name
12	(C)	CHARACTER	8	$FACSEQF	Invoking sequence number
12	(C)	X'4'	0	$FACMOSQ	"$FACSECT,*-$FACSECT,C'C'" Module/sequence

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $FB ROUTINE(S) ---> $MLTFBUF IN HASCLINK MACRO(S) -----> $FREEBUF TYPE=MULT $FREEBUF'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FBFLAG1	$FREEBUF OPTION FLAG 1
		1...		$FB1PROT	"B'10000000'" BUFFER TYPE=PROT
		..1.		$FB1HOLD	"B'00100000'" BUFFER TYPE=HOLD
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	$FBSTORP	Buffer chain offset
		Member name --> $FM Routine(s) ---> $FBUFRTN in HASCLINK Macro(s) -----> $CALL $FBUFRTN,INLINE= $FBUFRTN'S inline parameter list			
4	(4)	BITSTRING	1	$FMFLAG1	$FBUFRTN option FLAG 1
		1...		$FM1$ERR	"B'10000000'" Issue $ERROR macro if unfreed buffers remain
		.1..		$FM1CLOS	"B'01000000'" Called out of DS CLOSE
		MEMBER NAME --> $FBM ROUTINE(S) ---> $FMTBLDM in HASMIPSV MACRO(S) -----> $FMTBLDM $FMTBLDM inline parameter list			
4	(4)	BITSTRING	1	$FBMFLG1	Flag byte 1
		1...		$FBM1INT	"B'10000000'" Initialize message
		.1..		$FBM1ADD	"B'01000000'" Add text to message
		..1.		$FBM1LAS	"B'00100000'" Last (issue message)
		...1		$FBM1MFL	"B'00010000'" Text is list form msg
		.... 1...		$FBM1TTB	"B'00001000'" Truncate trailing blanks
		.... .1..		$FBM1CNV	"B'00000100'" Data conversion or a standard text string if $FBM1MFL is also set
		.... ..1.		$FBM1ABB	"B'00000010'" Add blank before text/dat
		1		$FBM1ABA	"B'00000001'" Add blank after text/data
5	(5)	BITSTRING	1	$FBMFLG2	Flag byte 2
		1...		$FBM2RES	"B'10000000'" Reset message
		.1..		$FBM2MTB	"B'01000000'" Process $FMTMTAB
		..1.		$FBM2WID	"B'00100000'" Use wide message width
		...1		$FBM2IVA	"B'00010000'" Internal request via atab
		.... 1...		$FBM2IFI	"B'00001000'" Internal field info req
		.... .1..		$FBM2INA	"B'00000100'" Internal data specified
		.... ..1.		$FBM2ADJ	"B'00000010'" ADJUST= specified
		1		$FBM2TTZ	"B'00000001'" Truncate trailing zeroes
6	(6)	ADDRESS	1	$FBMCTYP	Conversion or std text type
		------- Conversion types ----------			
6	(6)	X'1'	0	$FBMCTAD	"1" ADDRESS

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'2'	0	$FBMCTAS	"2" ASID
6	(6)	X'3'	0	$FBMCTAC	"3" ASID_COND
6	(6)	X'4'	0	$FBMCTDS	"4" DSPNAME
6	(6)	X'5'	0	$FBMCTDC	"5" DSPNAME_COND
6	(6)	X'6'	0	$FBMCTEP	"6" CHAR
6	(6)	X'7'	0	$FBMCTHX	"7" HEX
6	(6)	X'8'	0	$FBMCTRH	"8" HEXRAW
6	(6)	X'9'	0	$FBMCTKM	"9" KM
6	(6)	X'A'	0	$FBMCTOF	"10" OFFSET
6	(6)	X'B'	0	$FBMCTSI	"11" SIGNINT
6	(6)	X'C'	0	$FBMCTSR	"12" SIGNINTRAW
6	(6)	X'D'	0	$FBMCTST	"13" STCK
6	(6)	X'E'	0	$FBMCTSE	"14" STCKE
6	(6)	X'F'	0	$FBMCTSM	"15" STCKE_MICRO
6	(6)	X'10'	0	$FBMCTUI	"16" UNSIGNINT
6	(6)	X'11'	0	$FBMCTUR	"17" UNSIGNINTRAW
6	(6)	X'12'	0	$FBMCTA8	"18" ADDRESS64
------- Standard text strings ----------					
6	(6)	X'1'	0	$FBMCTPN	"1" NOTICE msg prefix
6	(6)	X'2'	0	$FBMCTPW	"2" WARNING msg prefix
6	(6)	X'3'	0	$FBMCTPE	"3" ERROR msg prefix
7	(7)	BITSTRING	1	$FBMID	Parameter list ID
		1... ...1		$FBMIDV	"X'81'" Parm list verification val
8	(8)	CHARACTER	8	$FBMSECT	Control section name
16	(10)	CHARACTER	8	$FBMSEQF	Invoking sequence number
16	(10)	X'14'	0	$FBMPLEN	"*-PARMSTRT" Length of parms to trace
MEMBER NAME --> $FDI ROUTINE(S) ---> $FMTDIAL in HASMIPSV MACRO(S) -----> $FMTDIAL $FMTDIAL inline parameter list					
4	(4)	ADDRESS	1	$FDITYPE	Type indicator byte
4	(4)	X'1'	0	$FDITCHR	"1" Character data
4	(4)	X'2'	0	$FDITHEX	"2" Hexadecimal data
4	(4)	X'3'	0	$FDITUSI	"3" Unsigned integer
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FDISECT	Control section name
14	(E)	CHARACTER	8	$FDISEQF	Invoking sequence number
MEMBER NAME --> $FEV ROUTINE(S) ---> $FMTENV in HASMIPSV MACRO(S) -----> $FMTENV $FMTENV inline parameter list					
4	(4)	ADDRESS	1	$FEVPVER	$FMTENV parm list version (Set in $FMTENV macro expansion and checked in service routine)
5	(5)	ADDRESS	1	$FEVREQ	Request type
5	(5)	X'1'	0	$FEVRCU	"1" CREATE request

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	X'2'	0	$FEVRDU	"2" DELETE request
5	(5)	X'3'	0	$FEVRCC	"3" COND_CREATE request
5	(5)	X'4'	0	$FEVRDC	"4" COND_DELETE request
6	(6)	BITSTRING	1	$FEVUSE	USE flags - Caution; bit tests use both TM and CLI
		1...		$FEVUIVE	"B'10000000'" Used as IPCS VERBEXIT
		.1..		$FEVUIFR	"B'01000000'" Used as IPCS FORMAT rtn
		..1.		$FEVUJDR	"B'00100000'" Used as JES2 DISPLAY_RTN
		...1		$FEVUNUL	"B'00010000'" Null USE
7	(7)	BITSTRING	1	$FEVFLG1	Flag byte 1
		1...		$FEV1CSA	"B'10000000'" Issue cond $FMTSETA
8	(8)	ADDRESS	2	$FEVWVER	Current $IPCSWRK version #
10	(A)	CHARACTER	8	$FEVSECT	Control section name
18	(12)	CHARACTER	8	$FEVSEQF	Invoking sequence number
18	(12)	X'A'	0	$FEVMOSQ	"$FEVSECT,*-$FEVSECT,C'C'" Module/sequence

```
MEMBER NAME --> $FGA
ROUTINE(S) ---> $FMTGADR in HASMIPSV
MACRO(S) -----> $FMTGADR
$FMTGADR inline parameter list
```

4	(4)	BITSTRING	1	$FGAFLG1	Flag byte 1
		1...		$FGA1LUP	"B'10000000'" Lookup a cb address
		.1..		$FGA1GNS	"B'01000000'" Setup for a cb set
		..1.		$FGA1GTN	"B'00100000'" Get next cb in a set
4	(4)	X'E0'	0	$FGA1STD	"$FGA1LUP+$FGA1GNS+$FGA1GTN" Standard call if any bit on
		...1		$FGA1EYE	"B'00010000'" Verify eye (cont if err)
		.... 1...		$FGA1ZPM	"B'00001000'" Issue msg if zero pointer
		.... .1..		$FGA1ACM	"B'00000100'" Issue msg if access error
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FGASECT	Control section name
14	(E)	CHARACTER	8	$FGASEQF	Invoking sequence number
14	(E)	X'12'	0	$FGAPLEN	"*-PARMSTRT" Length of parms to trace

```
MEMBER NAME --> $FGF
ROUTINE(S) ---> $FMTGFLD in HASMIPSV
MACRO(S) -----> $FMTGFLD
$FMTGFLD inline parameter list
```

4	(4)	CHARACTER	8	$FGFSECT	Control section name
12	(C)	CHARACTER	8	$FGFSEQF	Invoking sequence number

```
MEMBER NAME --> $FID
ROUTINE(S) ---> FIFODEQ in HASCSRIC
MACRO(S) -----> $FIFODEQ
$FIFODEQ inline parameter list
```

4	(4)	BITSTRING	1	$FIDFLG1	Flag byte 1
		1...		$FID1CNT	"B'10000000'" COUNT= specified

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$FID1ABN	"B'01000000'" ABENDERR=YES
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIDCOFF	Chain field offset
		MEMBER NAME --> $FIE ROUTINE(S) ---> FIFOENQ in HASCSRIC MACRO(S) -----> $FIFOENQ $FIFOENQ inline parameter list			
4	(4)	BITSTRING	1	$FIEFLG1	Flag byte 1
		1...		$FIE1CNT	"B'10000000'" COUNT= specified
		.1..		$FIE1ABN	"B'01000000'" ABENDERR=YES
		..1.		$FIE1HEA	"B'00100000'" Add element to head
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIECOFF	Chain field offset
		MEMBER NAME --> $FIG ROUTINE(S) ---> FIFOGTQ in HASCSRIC MACRO(S) -----> $FIFOGTQ $FIFOGTQ inline parameter list			
4	(4)	BITSTRING	1	$FIGFLG1	Flag byte 1
		1...		$FIG1CNT	"B'10000000'" COUNT= specified
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIGCOFF	Chain field offset
		MEMBER NAME --> $FLE ROUTINE(S) ---> $FMTLERR in HASMIPSV MACRO(S) -----> $FMTLERR $FMTLERR inline parameter list			
4	(4)	BITSTRING	1	$FLEFLG1	Flag byte 1
		1...		$FLE1RC	"B'10000000'" Reason code provided
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FLESECT	Control section name
14	(E)	CHARACTER	8	$FLESEQF	Invoking sequence number
22	(16)	ADDRESS	4	$FLEAPAR	Addr of APARNUM symbol
		MEMBER NAME --> $FMS ROUTINE(S) ---> $FMTMSG in HASMIPSV MACRO(S) -----> $FMTMSG $FMTMSG inline parameter list			
4	(4)	BITSTRING	1	$FMSFLG1	Flag byte 1
		1...		$FMS1WID	"B'10000000'" Wide message width
		.1..		$FMS1BLN	"B'01000000'" Display blank line
		..1.		$FMS1CBL	"B'00100000'" Conditional blank line
		...1		$FMS1IND	"B'00010000'" Indentation requested
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FMSSECT	Control section name
14	(E)	CHARACTER	8	$FMSSEQF	Invoking sequence number
14	(E)	X'12'	0	$FMSPLEN	"*-PARMSTRT" Length of parms to trace

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $FPR ROUTINE(S) ---> $FMTPROC in HASMIPSV MACRO(S) -----> $FMTPROC $FMTPROC inline parameter list			
4	(4)	BITSTRING	1	$FPRFLG1	Flag byte 1
		1...		$FPR1MLT	"B'10000000'" Process MULTIPLE FMTCTABs
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FPRSECT	Control section name
14	(E)	CHARACTER	8	$FPRSEQF	Invoking sequence number
		MEMBER NAME --> $FRE ROUTINE(S) ---> $FREJLOK in HASPJQS MACRO(S) -----> $FREJLOK $FRELOK inline parameter list for TYPE=JOB			
4	(4)	BITSTRING	1	$FREFLG1	$FRELOK option flag
		1...		$FRE1NW	"B'10000000'" Cannot $WAIT
		.1..		$FRE1NTR	"B'01000000'" Do not take trace
		..1.		$FRE1JQA	"B'00100000'" Free JQA
		MEMBER NAME --> $FSA ROUTINE(S) ---> $FMTSETA in HASMIPSV MACRO(S) -----> $FMTSETA $FMTSETA inline parameter list			
4	(4)	CHARACTER	8	$FSASECT	Control section name
12	(C)	CHARACTER	8	$FSASEQF	Invoking sequence number
12	(C)	X'4'	0	$FSAMOSQ	"$FSASECT,*-$FSASECT,C'C'" Module/sequence
		MEMBER NAME --> $FST ROUTINE(S) ---> $FMTSTOR in HASMIPSV MACRO(S) -----> $FMTSTOR $FMTSTOR inline parameter list			
4	(4)	BITSTRING	1	$FSTFLG1	Flag byte 1
4	(4)	X'1'	0	$FST1GTU	"1" Get storage unconditional
4	(4)	X'2'	0	$FST1GTC	"2" Get storage conditional
4	(4)	X'3'	0	$FST1FRE	"3" Free storage
5	(5)	BITSTRING	1	$FSTFLG2	Flag byte 2
		1...		$FST2FAD	"B'10000000'" ADDR specified on free
		.1..		$FST2CTS	"B'01000000'" *CTAB_WORK
		..1.		$FST2CTM	"B'00100000'" *CTAB_WORK_LEVEL
		...1		$FST2PTS	"B'00010000'" *PARENT_CTAB_WORK
		.... 1...		$FST2PTM	"B'00001000'" *PARENT_CTAB_WORK_LEVEL
		.111 1...		$FST2TAB	"B'01111000'" Ctab related request
6	(6)	CHARACTER	8	$FSTSECT	Control section name
14	(E)	CHARACTER	8	$FSTSEQF	Invoking sequence number
		MEMBER NAME --> $FTB ROUTINE(S) ---> $FRETBUF IN HASCNJAS MACRO(S) -----> $FRETBUF $FRETBUF INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FTBFLG1	$FRETBUF option flag

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$FTB1CHN	"B'10000000'" CHAIN=YES specified
		Member name --> $FTR Routine(s) ---> $FRETRE in HASCLINK MACRO(s) -----> $FRETRE $FRETRE Inline parameter list			
4	(4)	BITSTRING	1	$FTRFLG1	$FRETRE option flag
		1...		$FTR1IOW	"B'10000000'" WAITIO=YES specified
		MEMBER NAME --> $FUC ROUTINE(S) ---> $FREUCBS IN HASPNUC MACRO(S) -----> $FREUCBS $FREUCBS' INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FUCFLG1	$FREUCBS OPTION FLAG
		1...		$FUC1UNP	"B'10000000'" UNPIN=YES specified
		MEMBER NAME --> $GTA ROUTINE(S) ---> $GETABLE in HASPTABS MACRO(S) -----> $GETABLE $GETABLE routine inline parameter list			
4	(4)	BITSTRING	1	$GTATYPE	Table type (See $MITETBL for valid types)
5	(5)	BITSTRING	1	$GTAFLG1	Flag byte
		1...		$GTAH1ST	"B'10000000'" Run HASP tables first
		MEMBER NAME --> $GTB ROUTINE(S) ---> $GETBUFR IN HASPNUC MACRO(S) -----> $GETBUF $GETBUF'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GTBFLG1	$GETBUF OPTION FLAG
		B'10000000' $GBUFWT used in $HASPEQU			
		1...		$GTB1WAT	"B'10000000'" Wait requested
		.1..		$GTB1FIX	"B'01000000'" Wait requested
		..1.		$GTB1MUL	"B'00100000'" Multiple buffers requested
		...1		$GTB1LOW	"B'00010000'" GET STORAGE BELOW 16MB
5	(5)	BITSTRING	1	$GTBFTYP	Buffer type flag
		MEMBER NAME --> $GTTB ROUTINE(S) ---> $GETTBUF IN HASCNJAS MACRO(S) -----> $GETTBUF $GETTBUF INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GTTBUSE	USE= (See TBFTYPE for values in byte)
		MEMBER NAME --> GCMB ROUTINE(S) ---> $GETCMBR MACRO(S) -----> $GETCMB $GETCMB's inline parameter list			
4	(4)	BITSTRING	1	$GTCFLG1	$GETCMB option flag byte
		1...		$GTC1WAT	"B'10000000'" WAIT=YES requested
		.1..		$GTC1DMC	"B'01000000'" DEMANDCMB=YES specified
5	(5)	BITSTRING	1		Reserved for future use

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $GNH ROUTINE(S) ---> $GETNHB MACRO(S) -----> $GETNHB $GETNHB's inline parameter list			
4	(4)	BITSTRING	1	$GNHFLG1	$GETNHB option flag byte
		1...		$GNH1WAT	"B'10000000'" WAIT=YES requested
5	(5)	BITSTRING	1		Reserved for future use
		MEMBER NAME --> $GUC ROUTINE(S) ---> $GETUCBS IN HASPNUC MACRO(S) -----> $GETUCBS $GETUCBS' INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GUCFLG1	$GETUCBS OPTION FLAG
		1...		$GUC1CNT	"B'10000000'" CONT=YES specified
		.1..		$GUC1UNT	"B'01000000'" UNIT= specified
		MEMBER NAME --> $GC ROUTINE(S) ---> $GETCEL IN HASCLINK MACRO(S) -----> $GETCEL JES2 CSA CELL POOL GET ROUTINE ($GETCEL) PARAMETER LIST THIS PARM LIST VARIES IN LENGTH. IF THE SIZE= PARAMETER ON THE $GETCEL MACRO IS SPECIFIED IN REGISTER NOTATION, THEN REGISTER 2 IS LOADED WITH THE SIZE. OTHERWISE, THE THE SIZE OF THE CSA CELL TO OBTAIN IS PLACED AT THE END OF THE PARAMETER LIST.			
4	(4)	BITSTRING	1	$GCFLAG1	FLAG BYTE FOR $GETCEL
		1...		$GC1LPRM	"B'10000000'" LONG FORM OF VARIABLE PARM LIST
5	(5)	BITSTRING	1	$GCRSVRD	RESERVED FOR FUTURE USE
		VARIABLE PORTION OF THE $GETCEL PARAMETER LIST.			
6	(6)	ADDRESS	2	$GCSIZE	SIZE OF CSA CELL REQUESTED
		MEMBER NAME --> $GF ROUTINE(S) ---> $GFMAIN IN HASPNUC, $HGFMAIN IN HASCLINK MACRO(S) -----> $GETMAIN BRANCH ENTRY GETMAIN/FREEMAIN SERVICES INLINE PARM LIST.			
4	(4)	BITSTRING	1	$GFFLG3	$GETMAIN/$FREMAIN flag 3
		1...		$GF3LVR0	"B'10000000'" Indicate LV passed in R0
		.1..		$GF3BUFR	"B'01000000'" Indicate buffer get/free
		..1.		$GF3HTCB	"B'00100000'" Indicate TCB=HIGH
		...1		$GF3FREE	"B'00010000'" Indicate free main/buf
		.... 1...		$GF3TCBY	"B'00001000'" Indicate TCB=YES, TCB in R1
		.... .1..		$GF3JTCB	"B'00000100'" Indicate JOB STEP TCB
		.... ..1.		$GF3TCBK	"B'00000010'" Indicate TCBPKF used as key
		1		$GF3PSWK	"B'00000001'" Indicate PSW used as key
5	(5)	BITSTRING	1	$GFFLG4	$GETMAIN/$FREEMAIN flag 4
		1...		$GF4SPR0	"B'10000000'" Subpool passed in R0
		.1..		$GF4STOR	"B'01000000'" KEY=STORAGE for UBUFs only

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$GF4ZERO	"B'00100000'" ZEROSTOR=YES specified
		...1		$GF4NOLV	"B'00010000'" Subpool freemain (no LV=)
		.... 1...		$GF4BAKR	"B'00001000'" REGS=SYSTEM was specified
		.... .1..		$GF4OAUX	"B'00000100'" OWNER=AUX was specified
		.... ..1.		$GF4TREG	"B'00000010'" TCB=CURRENT/value specified
8	(8)	SIGNED	4	$GFLENV	$GETMAIN/$FREEMAIN length
		$GFFLG1 through $GFFLG2 are passed to the service in R15 and not in $PARMLST. These flags must match the register 3 value passed to branch entry GETMAIN/FREEMAIN			
12	(C)	BITSTRING	1	$GFFLG1	$GETMAIN/$FREEMAIN flag 1
		EQU B'10000000' Reserved EQU B'01000000' Reserved			
		..1.		$GF1AR15	"B'00100000'" AR 15 is in use
		...1		$GF1RS64	"B'00010000'" Indicate LOC=(,64)
		.... 1...		$GF1CHK0	"B'00001000'" Indicate CHECKZERO=YES
		EQU B'00000100' Reserved			
		....		$GF1OHOM	"B'00000000'" Indicate OWNER=HOME
		1		$GF1OPRI	"B'00000001'" Indicate OWNER=PRIMARY
		.... ..1.		$GF1OSEC	"B'00000010'" Indicate OWNER=SECONDARY
		11		$GF1OSYS	"B'00000011'" Indicate OWNER=SYSTEM
13	(D)	BITSTRING	1	$GFKEY	KEY STORAGE REQUESTED IN
14	(E)	BITSTRING	1	$GFSUBPL	SUBPOOL STORAGE REQUESTED IN
15	(F)	BITSTRING	1	$GFFLG2	$GETMAIN/$FREEMAIN flag 2
		EQU B'10000000' Reserved			
		.1..		$GF2RS31	"B'01000000'" Indicate LOC=(,31)
		..1.		$GF2LC31	"B'00100000'" Indicate LOC=31
		...1		$GF2LC24	"B'00010000'" Indicate LOC=24
		EQU B'00001000' Ind variable request			
		.... .1..		$GF2PGB	"B'00000100'" INDICATE BNDRY=PAGE
		.... ..1.		$GF2UNCD	"B'00000010'" INDICATE UNCONDITIONAL REQUEST
		1		$GF2FMN	"B'00000001'" INDICATE FREEMAIN
		MEMBER NAME --> $GETJLOK ROUTINE(S) ---> $GETJLOK in HASPJQS MACRO(S) -----> $GETJLOK $GETJLOK'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GJLFLG1	$GETJLOK FLAG 1
		1...		$GJL1JQA	"B'10000000'" RETJQA=YES
		.1..		$GJL1WAI	"B'01000000'" WAIT=YES

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $IBL ROUTINE(S) ---> $IOTBLD IN HASCSRDS MACRO(S) -----> $IOTBLD $IOTBLD'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$IBFLAG1	$IOTBLD OPTION FLAG 1
		1...		$IB1DPDB	"B'10000000'" INDICATE TYPE=PDDB
		.1..		$IB1DSPN	"B'01000000'" INDICATE TYPE=SPIN
		..1.		$IB1D2ND	"B'00100000'" INDICATE TYPE=SECOND
		...1		$IB1DPRI	"B'00010000'" Indicate TYPE=PRIMARY
		.... 1...		$IB1DAUG	"B'00001000'" Indicate SPIN=DAUGHTER
		.... .1..		$IB1DSJI	"B'00000100'" Indicate SJIOB provided
		.... ..1.		$IB1DNCH	"B'00000010'" Indicate skip chaining of new IOT of TYPE=PDDB
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $ICL ROUTINE(S) ---> $IOTCNT IN HASPNUC MACRO(S) -----> $IOTCNT $IOTCNT'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$ICFLAG1	$IOTBLD OPTION FLAG 1
		1...		$IC1LKNO	"B'10000000'" INDICATE LOCK=NO
		.1..		$IC1LOCK	"B'01000000'" INDICATE LOCK=YES
		..1.		$IC1IOT	"B'00100000'" IN STORAGE IOT ADDRESS IS SUPPLIED
		...1		$IC1JOE	"B'00010000'" R0 contains addr of JOE
		.... 1...		$IC1LFRE	"B'00001000'" LOCK=(YES,FREE) specified $IOTCNT should free lock
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $JCN ROUTINE(S) ---> $JCANR IN HASPCOMM MACRO(S) -----> $JCAN $JCAN'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$JCNFLG1	$JCAN Flag
		1...		$JCN1PRO	"B'10000000'" Output Is Protected
		.1..		$JCN1TST	"B'01000000'" ACTION=TEST
		..1.		$JCN1TSU	"B'00100000'" TSU=NO
		...1		$JCN1CJ	"B'00010000'" Cancel job requestor
		.... 1...		$JCN1CJO	"B'00001000'" Cancel processing only
		Options passed to $JCAN in R0. More oprions are defined in $JACN in HASPCOMM.			
4	(4)	BITSTRING	0	$JCN0PMG	"B'0000000100000000'" Request for email queue to purge messages on error
		Below are equates for parameters passed to the dilbert'd routine DILJCAN in AR1 that may be translated into inline parameters listed above.			
		1		$DJCA1TS	"B'00000001'" TSU=NO
		.... ..1.		$DJCA1CJ	"B'00000010'" Cancel job requestor
		.... .1..		$DJCA1CO	"B'00000100'" Cancel processing only

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		$DJCA1FL	"B'00001000'" Mark job as FLUSHED
		MEMBER NAME --> JOBCLASV ROUTINE(S) ---> JOBCLASV in HASCSRIP MACRO(S) -----> None JOBCLASV INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$JOBCLAV	JOBCLASV flag
		1...		$JCLSRM	"B'10000000'" Return SAF messages
		.1..		$JCLSNS	"B'01000000'" Do not check submitter
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $#ADD ROUTINE(S) ---> $#ADD in HASPJOS MACRO(S) -----> $#ADD $#ADD caller requested JOA address be returned verses a real work JOE address,			
4	(4)	BITSTRING	1	$#ADDFLG	
		1...		$#ADDJOA	"B'10000000'" Caller of $#ADD requested an update mode JOA be returned verses a real work JOE address. This JOA/JOE was added to the JOT.
		MEMBER NAME --> $#DISPRO ROUTINE(S) ---> $#DISPRO in HASPJOS MACRO(S) -----> $#DISPRO $#DISPRO routine inline parameter list.			
4	(4)	BITSTRING	1	$#DSPFLG	$#DISPRO parameter flag
		1...		$#DSFJOA	"B'10000000'" If caller supplied JOA then free it. Default is to free.
		MEMBER NAME --> $#JWEL ROUTINE(S) ---> $#JWEL in HASPJOS MACRO(S) -----> $#JWEL $#JWEL routine inline parameter list.			
4	(4)	BITSTRING	1	$#JWLFLG	$#JWEL parameter flag
		1...		$#JLONG	"B'10000000'" Long form of device number
		.1..		$#JSERCH	"B'01000000'" Search for existing JWEL
		..1.		$#JPURGE	"B'00100000'" Purge all JWELs for JOE
		...1		$#JADD	"B'00010000'" Add a JWEL
		.... 1...		$#JFORCE	"B'00001000'" Force purge of JWEL chain
		.... .1..		$#JCOND	"B'00000100'" ADD or PURGE conditional
		.... ..1.		$#JALL	"B'00000010'" Made SEARCH match all JWELs
		1		$#JANY	"B'00000001'" Made SEARCH find any JWEL
5	(5)	BITSTRING	1	$#JWLFL2	Second $#JWEL parameter flg
		1...		$#JDETCH	"B'10000000'" Detach JWEL chain
		.1..		$#JATTCH	"B'01000000'" Attach JWEL chain
		..1.		$#JINIT	"B'00100000'" INIT JWEL anchor
		...1		$#JANCHR	"B'00010000'" Determine JWEL anchor addr

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $#PUT ROUTINE(S) ---> $#PUT in HASPJOS MACRO(S) -----> $#PUT $#PUT routine inline parameter list.			
4	(4)	BITSTRING	1	$#PUTFLG	$#PUT parameter flag
		...1		$#PJWEL	"B'00010000'" Purge SAPI JWELs
		.... 1...		$#PFRJOA	"B'00001000'" If caller supplied JOA then free it. Default is to free.
		MEMBER NAME --> $LG ROUTINE(S) ---> $LOGMSG IN HASPSSRV MACRO(S) -----> $LOGMSG PLACING JOB RELATED MESSAGES INTO A JOB'S JOBLOG OR SYSMSG DATA SET. NOTE PARAMETER LIST VARIES IN LENGTH IN ORDER TO PHYSICALLY CONTAIN THE REQUESTOR'S EBCDIC NAME. THE LENGTH OF THE NAME IS IN FIELD $LG1TXTL.			
4	(4)	BITSTRING	1	$LGSUBP	SUBPOOL TO FREEMAIN MSGAREA
5	(5)	BITSTRING	1	$LGFLAG1	FLAG BYTE
		1...		$LG1MFRE	"B'10000000'" MSGFREE=YES WAS SPECIFIED
		.1..		$LG1WTO	"B'01000000'" WTO=YES WAS SPECIFIED
6	(6)	BITSTRING	1	$LG1TXTL	MACHINE LENGTH (LENGTH-1) OF REQUESTOR NAME
7	(7)	CHARACTER	1	$LGRQSTR	START OF REQUESTOR NAME
		MEMBER NAME --> $LV ROUTINE(S) ---> $TQLEVEL in HASPXCF MACRO(S) -----> $LEVEL			
4	(4)	BITSTRING	1	$LVFLAG1	Flag byte 1
		1...		$LV1QSE	"B'10000000'" QSE fields provided
		.1..		$LV1WAIT	"B'01000000'" Wait for homogeneity
5	(5)	BITSTRING	1	$LVQFLAG	QSE flag value to test
6	(6)	ADDRESS	2	$LVQOFF	Offset of QSE flag
		MEMBER NAME --> $BTM ROUTINE(S) ---> $BITMAP routine in HASCSRIC MACRO(S) -----> $BITMAP $BITMAP inline parameter list.			
4	(4)	SIGNED	1	$BTMACT	ACTION= requested
4	(4)	X'0'	0	$BTMCRT	"0" ACTION=CREATE
4	(4)	X'4'	0	$BTMDSTP	"4" ACTION=DESTROY_PRIVATE
4	(4)	X'8'	0	$BTMSET	"8" ACTION=SET
4	(4)	X'C'	0	$BTMRST	"12" ACTION=RESET
4	(4)	X'10'	0	$BTMTEST	"16" ACTION=TEST
4	(4)	X'14'	0	$BTMSON	"20" ACTION=SCANON
4	(4)	X'18'	0	$BTMSOFF	"24" ACTION=SCANOFF
4	(4)	X'1C'	0	$BTMCLR	"28" ACTION=CLEAR
4	(4)	X'20'	0	$BTMSETR	"32" ACTION=SETRANGE
4	(4)	X'24'	0	$BTMTSRO	"36" ACTION=TESTRANGE_ON
4	(4)	X'28'	0	$BTMTSRF	"40" ACTION=TESTRANGE_OFF
4	(4)	X'2C'	0	$BTMDSTC	"44" ACTION=DESTROY_COMMON
5	(5)	BITSTRING	1	$BTMFLG	$BITMAP option flags

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$BTMCRTC	"B'10000000'" For ACTION=CREATE: ON = (CREATE,COMMON) OFF = (CREATE,PRIVATE)
		.1..		$BTMCRON	"B'01000000'" For ACTION=CREATE: ON = (CREATE,..,INITON) OFF = (CREATE,..,INITOFF)
		..1.		$BTMNOAT	"B'00100000'" ATOMIC=NO was specified.
		...1		$BTMERCD	"B'00010000'" BOUNDARY_ABEND=CODE/ ABEND ON = Return error code for boundary errors OFF = $ERROR on boundary errors.
		MEMBER NAME --> RINTJOB ROUTINE(S) ---> RINTJOB in HASPRDR MACRO(S) -----> N/A Create internal job routine inline parameter list.			
4	(4)	BITSTRING	1	$RINFLG1	RINTJOB flag byte
		1...		$RINLOG	"B'10000000'" Create logging job / NET
		MEMBER NAME --> $JSMTSRV ROUTINE(S) ---> JSMTSRV in HASCSRDS MACRO(S) -----> $JSMTSRV			
4	(4)	BITSTRING	1	$JSMACTN	Action:
4	(4)	X'1'	0	$JSMACTA	"1" ACTION=ADD
4	(4)	X'2'	0	$JSMACTX	"2" ACTION=EXTRACT
5	(5)	BITSTRING	1	$JSMTBLF	Symbol table format:
5	(5)	X'1'	0	$JSMTBJS	"1" SYMTBLF=JESSYM
5	(5)	X'2'	0	$JSMTBCL	"2" SYMTBLF=JCLSYM
5	(5)	X'3'	0	$JSMTBSS	"3" SYMTBLF=SYSSYM
6	(6)	BITSTRING	1	$JSMSYMT	Symbol type:
6	(6)	X'1'	0	$JSMSYCV	"1" SYMTYPE=CNV
6	(6)	X'2'	0	$JSMSYIN	"2" SYMTYPE=INT
6	(6)	X'3'	0	$JSMSYAS	"3" SYMTYPE=ALTSYS
6	(6)	X'4'	0	$JSMSYNF	"4" SYMTYPE=NOTIFY
7	(7)	BITSTRING	1	$JSMFLGS	JSMTSRV options:
		1...		$JSMJQE	"B'10000000'" R0 points to JQE
		.1..		$JSMSJB	"B'01000000'" R0 points to SJB
		MEMBER NAME --> $JZDN ROUTINE(S) ---> PROCJZDN routine in HASCJZDN MACRO(S) -----> $JZDN PROCJZDN inline parameter list.			
4	(4)	SIGNED	1	$JDNOPER	OPERATION= requested :
4	(4)	X'0'	0	$JDNCRTZ	"0" CREATE_ZOD
4	(4)	X'4'	0	$JDNADZE	"4" ADD_ZODERROR
4	(4)	X'8'	0	$JDNADOE	"8" ADD_ONERROR
4	(4)	X'C'	0	$JDNIJOB	"12" INSERT_JOB
4	(4)	X'10'	0	$JDNCRJS	"16" CREATE_JOBSET
4	(4)	X'14'	0	$JDNJSJO	"20" INSERT_JOBSET_JOB
4	(4)	X'18'	0	$JDNENJS	"24" END_JOBSET
4	(4)	X'1C'	0	$JDNADFA	"28" ADD_FLUSHACTION

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'20'	0	$JDNIDEP	"32" INSERT_DEP
4	(4)	X'24'	0	$JDNADWH	"36" ADD_WHEN
4	(4)	X'28'	0	$JDNADEA	"40" ADD_ENDACTION
4	(4)	X'2C'	0	$JDNADOT	"44" ADD_OTHERWISE
4	(4)	X'30'	0	$JDNICON	"48" INSERT_CONCURRENT
4	(4)	X'34'	0	$JDNENDZ	"52" END_ZOD
4	(4)	X'38'	0	$JDNDESZ	"56" DESTROY_ZOD
4	(4)	X'3C'	0	$JDNCKZO	"60" CKPT_ZOD
4	(4)	X'40'	0	$JDNRJOB	"64" REGISTER_JOB
4	(4)	X'44'	0	$JDNPJOB	"68" PROCESS_JOB
4	(4)	X'48'	0	$JDNDELZ	"72" DELETE_ZOD
4	(4)	X'4C'	0	$JDNVERZ	"76" VERIFY_CKPT_ZOD
4	(4)	X'50'	0	$JDNDISZ	"80" DISPLAY_CKPT_ZOD
4	(4)	X'54'	0	$JDNCANZ	"84" CANCEL_ZOD
4	(4)	X'58'	0	$JDNPURZ	"88" PURGE_ZOD
4	(4)	X'5C'	0	$JDNCANJ	"92" CANCEL_JOB
4	(4)	X'60'	0	$JDNCHKJ	"96" CHECK_JOB
4	(4)	X'64'	0	$JDNCHKE	"100" CHECK_ELIGIBLE
4	(4)	X'68'	0	$JDNPURJ	"104" PURGE_JOB
4	(4)	X'6C'	0	$JDNZOST	"108" SET_ZOD_STATE
4	(4)	X'70'	0	$JDPRTRP	"112" PRINT_RPN
4	(4)	X'74'	0	$JDNPCON	"116" PROCESS_CONCUR_JOBS
4	(4)	X'78'	0	$JDNZAPZ	"120" ZAP_ZOD
4	(4)	X'7C'	0	$JDNSSC	"124" SET_SRVCLASS
4	(4)	X'80'	0	$JDVERZC	"128" VERIFY_ZJC_CTENT
4	(4)	X'84'	0	$JDNCRTN	"132" CREATE_NET_WORK_AREA
4	(4)	X'88'	0	$JDNDESN	"136" DESTROY_NET_WORK_AREA
4	(4)	X'8C'	0	$JDNINND	"140" INSERT_NET_DEP
4	(4)	X'90'	0	$JDNSDJC	"144" SUBMIT_DJC_JOB
4	(4)	X'94'	0	$JDNNTRL	"148" PROCESS_NETREL
4	(4)	X'98'	0	$JDNCRCZ	"152" CREATE_CKPT_ZOD
4	(4)	X'9C'	0	$JDNFREZ	"156" FREE_CKPT_ZOD
4	(4)	X'A0'	0	$JDNINCV	"160" INIT_NET_CVTERR_ZJI
5	(5)	BITSTRING	1	$JDNFLG	PROCJZDN option flags
		1...		$JDNDEPT	"B'10000000'" Specifies dependency type for INSERT_DEP operation: ON - BEFORE dependency OFF - AFTER dependency
		.1..		$JDNFACT	"B'01000000'" Specifies dependency type for FLUSHACTION= keyword: OFF - ALLFLUSH ON - ANYFLUSH
		..1.		$JDNPURG	"B'00100000'" CANCEL_ZOD ($JDNCANZ) operation purge option. OFF - Cancel only ON - Cancel with Purge VERIFY_ZJC_CTENT ($JDVERZC) operation purge option. OFF - Verify only (do not cleanup any anomalies found). ON - Verify and cleanup any anomalies found.

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$JDNSCAN	"B'00010000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD OFF - non-SCAN caller ON - pre/postscan caller
		.... 1...		$JDNMZOD	"B'00001000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD for SCAN caller OFF - no memory object ON - build in-memory MZOD w/ZOD data
		.... .1..		$JDNSUSP	"B'00000100'" Specifies suspend or flush for CANCEL_JOB operation: OFF - Input job will be FLUSHED. ON - Input job will be SUSPENDED.
		MEMBER NAME --> $MODCHK ROUTINE(S) ---> $MODCHK in HASPCSV MACRO(S) -----> $MODCHK			
4	(4)	BITSTRING	1	$MCFLAG1	Flag byte 1
		1...		$MCMSG	"B'10000000'" MESSAGE=YES specified
		.1..		$MCMSGS	"B'01000000'" MESSAGE=SUPPRESS specified
5	(5)	BITSTRING	1		Reserved
5	(5)	X'2'	0	$MCBYTES	"L'$MCTESTS" Number of bytes for test flags $MCBYTES*8 must be larger than or equal to $MCNTEST
6	(6)	BITSTRING	2	$MCTESTS	Test requested byte
6	(6)	BITSTRING	0	$MCRMD24	"B'1000000000000000'" Module below 16meg line
6	(6)	BITSTRING	0	$MCCOMMN	"B'0100000000000000'" Module in common storage
6	(6)	BITSTRING	0	$MCMIT	"B'0010000000000000'" Module large enough for MIT, MIT id valid, MITETBL in module
6	(6)	BITSTRING	0	$MCVERS	"B'0001000000000000'" HCT version=version in MIT
6	(6)	BITSTRING	0	$MCNAME	"B'0000100000000000'" Module name = name in MIT
6	(6)	BITSTRING	0	$MCPROPX	"B'0000010000000000'" Propagate $EXIT points to XIT table of defined exits
6	(6)	BITSTRING	0	$MCRSLVX	"B'0000001000000000'" Resolve exit routine addresses to XRT
6	(6)	BITSTRING	0	$MCTABL	"B'0000000100000000'" Process dynamic tables
		1...		$MCADDR	"B'0000000010000000'" Resolve routine addresses
		.1..		$MCDYNAM	"B'0000000001000000'" Supports dynamic commands
		..1.		$MCDELET	"B'0000000000100000'" Can the module be deleted
6	(6)	X'B'	0	$MCNTEST	"11" Number of tests now defined
		MEMBER NAME --> $MSTNTFY ROUTINE(S) ---> $MSTNTFY in HASPSSRV XCF PCE in HASPXCF MACRO(S) -----> $MSTNTFY			
4	(4)	BITSTRING	1	$MSTTYPE	Flag byte 1
4	(4)	X'1'	0	$MSTSET	"1" TYPE=SET specified
4	(4)	X'2'	0	$MSTCLR	"2" TYPE=CLEAR specified
5	(5)	BITSTRING	1	$MSTFLG1	Flag byte 2

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$MST1ECB	"B'10000000'" ECB was supplied
		.1..		$MST1EXT	"B'01000000'" EXITPGM was supplied
		..1.		$MST1EXP	"B'00100000'" EXITPRM was supplied
		MEMBER NAME --> $NATADD ROUTINE(S) ---> $NATADD in HASPNATS MACRO(S) -----> $NATADD Nodes Attached Table ADD routine's inline parameter list.			
4	(4)	BITSTRING	1	$NADSTAT	NAT queue to $NATADD element to (see NATCSTAT)
5	(5)	BITSTRING	1	$NADFLG1	$NATADD parameter flag
		1...		$NAD1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NAD1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NAD1STA	"B'00100000'" Add static connection
		...1		$NAD1CES	"B'00010000'" Bypass CES TIMETOL check
		MEMBER NAME --> $NATGET ROUTINE(S) ---> $NATGET in HASPNATS MACRO(S) -----> $NATGET Nodes Attached Table GET routine's inline parameter list.			
4	(4)	BITSTRING	1	$NGTSTAT	NAT queue to $NATGET element from (see NATCSTAT)
5	(5)	BITSTRING	1	$NGTFLG1	$NATGET parameter flag
		1...		$NGT1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NGT1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NGT1TOK	"B'00100000'" Token provided to routine
		...1		$NGT1FST	"B'00010000'" Use Fast Path $NATGET
		MEMBER NAME --> $NATMOD ROUTINE(S) ---> $NATMOD in HASPNATS MACRO(S) -----> $NATMOD Nodes Attached Table MODify routine's inline parameter list.			
4	(4)	BITSTRING	1	$NMDSTAT	NAT queue to $NATMOD element to (see NATCSTAT)
5	(5)	BITSTRING	1	$NMDFLG1	$NATMOD parameter flag 1
		1...		$NMD1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NMD1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NMD1FST	"B'00100000'" Use Fast Path $NATMOD
		...1		$NMD1STA	"B'00010000'" Modify STATIC connection
		.... 1...		$NMD1CES	"B'00001000'" Bypass CES TIMETOL check
		MEMBER NAME --> $NATNOT ROUTINE(S) ---> $NATNOT in HASPNATS MACRO(S) -----> $NATNOT Nodes Attached Table NOTify routine's inline parameter list.			
4	(4)	BITSTRING	1	$NNTFLG1	$NATNOT parameter flag 1

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$NNT1SET	"B'10000000'" TYPE=SET or TESTSET
		.1..		$NNT1TST	"B'01000000'" TYPE=TEST or TESTSET
		..1.		$NNT1NOT	"B'00100000'" NOTIFIED=YES
		...1		$NNT1FST	"B'00010000'" PATH=FAST
		.... 1...		$NNT1MTR	"B'00001000'" Update MASTER notify map
		.... .1..		$NNT1MMA	"B'00000100'" SCOPE=MAS was specified
MEMBER NAME --> $NATREM ROUTINE(S) ---> $NATREM in HASPNATS MACRO(S) -----> $NATREM Nodes Attached Table REMove routine's inline parameter list.					
4	(4)	BITSTRING	1	$NRMFLG1	$NATREM parameter flag 1
		1...		$NRM1STA	"B'10000000'" Remove static NAT
		.1..		$NRM1ALL	"B'01000000'" Remove all NATs
MEMBER NAME --> $NHR ROUTINE(S) ---> NJEHDRCV in HASPNET MACRO(S) -----> $NHDRCV Network Header Receive routine's inline parameter list.					
4	(4)	BITSTRING	1	$NHRFLG1	$NHDRCV parameter flag 1
		1...		$NHR1XIT	"B'10000000'" Invoke exit 47 after recv
5	(5)	BITSTRING	1	$NHRSRCB	SRCB of received header
MEMBER NAME --> $NHW ROUTINE(S) ---> NJEHDRWR in HASPNET MACRO(S) -----> $NHDWRT Network Header Write routine's inline parameter list.					
4	(4)	BITSTRING	1	$NHWFLG1	$NHDWRT parameter flag 1
		1...		$NHW1FRE	"B'10000000'" Free header after write
		.1..		$NHW1WAT	"B'01000000'" Wait for write to complete
MEMBER NAME --> $NHX ROUTINE(S) ---> NJEHDXMT in HASPNET MACRO(S) -----> $NHDXMT Network Header Transmit routine's inline parameter list.					
4	(4)	BITSTRING	1	$NHXFLG1	$NHDXMT parameter flag 1
		1...		$NHX1FRE	"B'10000000'" Free header after xmit
		.1..		$NHX1XIT	"B'01000000'" Invoke exit 46 before xmit
5	(5)	BITSTRING	1	$NHXSRCB	SRCB of xmitted header
MEMBER NAME --> $NSL ROUTINE(S) ---> $NSSTLOK in HASCNJAS MACRO(S) -----> $NSSTLOK Synchronize local and checkpointed NITs.					
4	(4)	BITSTRING	1	$NSLFLG1	$NSSTLOK parameter flag 1
		1...		$NSL1OBT	"B'10000000'" REQUEST=OBTAIN
		.1..		$NSL1WAT	"B'01000000'" WAIT=YES
		..1.		$NSL1SHR	"B'00100000'" SHARED=YES

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $NSY ROUTINE(S) ---> $NITSYNC in HASPNET MACRO(S) -----> $NITSYNC Synchronize local and checkpointed NITs.			
4	(4)	BITSTRING	1	$NSYFLG1	$NITSYNC parameter flag 1
		1...		$NSY1REF	"B'10000000'" ACTION=(REFRESH,)
		.1..		$NSY1CMP	"B'01000000'" ACTION=(COMPARE,)
		..1.		$NSY1LOC	"B'00100000'" ACTION=(,LOCAL)
		...1		$NSY1CKP	"B'00010000'" ACTION=(,CKPT)
		.... 1...		$NSY1MSG	"B'00001000'" MESSAGE=YES
		.... .1..		$NSY1NIT	"B'00000100'" Update single NIT
		MEMBER NAME --> $NOT ROUTINE(S) ---> $NOTIFY in HASCSIRQ MACRO(S) -----> $NOTIFY Send a NJE notify message			
4	(4)	BITSTRING	1	$NOTFLG1	$NOTIFY parameter flag 1
		1...		$NOT1NJB	"B'10000000'" JOB=NO was specified
		.1..		$NOT1NUM	"B'01000000'" NODENUM was specified
		..1.		$NOT1JQE	"B'00100000'" JQE was specified
		...1		$NOT1NUS	"B'00010000'" USERID=NONE
		.... 1...		$NOT1MEM	"B'00001000'" MEMBER= was specified
		.... .1..		$NOT1TKN	"B'00000100'" STOKEN= was specified
		.... ..1.		$NOT1EML	"B'00000010'" EMAIL= was specified
		MEMBER NAME --> $PBL ROUTINE(S) ---> $PDBBLD IN HASCDSAL MACRO(S) -----> $PDBBLD BUID AND INITIALIZE A PDDB ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$PBFLAG1	$PDBBLD MACRO OPTION FLAGS FOR USER ENVIRONMENT
		1...		$PB1DPDB	"B'10000000'" INDICATE TYPE=PDDB
		.1..		$PB1DSPN	"B'01000000'" INDICATE TYPE=SPIN
		..1.		$PB1DAUG	"B'00100000'" Indicate SPIN=DAUGHTER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		Member name --> $PGS Routine(s) ---> $PGSRVC in HASPNUC Macro(s) -----> $PGSRVC $PGSRVC routine inline parameter list			
4	(4)	BITSTRING	1	$PGSFLG1	Flag byte
		1...		$PGSRVRL	"B'10000000'" RELEASE specified
		.1..		$PGSFIX	"B'01000000'" FIX specified
		..1.		$PGSFREE	"B'00100000'" FREE specified
		...1		$PGSRPSL	"B'00010000'" PSL (Page Serv List) passed
		.... 1...		$PGSRSSL	"B'00001000'" SSL (Short PSL) passed
		.... .1..		$PGSPRO	"B'00000100'" PROTECT specified
		.... ..1.		$PGSUPRO	"B'00000010'" UNPROTECT specified
5	(5)	BITSTRING	1		Reserved for future use

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $PRG ROUTINE(S) ---> $PURGER IN HASPTRAK MACRO(S) -----> $PURGE PURGER routine inline parameter list			
4	(4)	BITSTRING	1	$PRGFLG1	Flag byte
		1...		$PRG1VFY	"B'10000000'" SAF verification required
		.1..		$PRG1ENF	"B'01000000'" Issue PURGE ENF
		..1.		$PRG1JOA	"B'00100000'" JOA address provided
		MEMBER NAME --> $PSQ ROUTINE(S) ---> XPOSTXEQ in HASPXEQ MACRO(S) -----> $POSTXEQ XPOSTXEQ routine inline parameter list			
4	(4)	BITSTRING	1	$PSQFLG1	Flag byte
		1...		$PSQ1MAS	"B'10000000'" Wake up all members of MAS
		.1..		$PSQ1JQE	"B'01000000'" Caller provided JQE in R1
		MEMBER NAME --> $PTA ROUTINE(S) ---> $PUTABLE in HASPTABS MACRO(S) -----> $PUTABLE $PUTABLE routine inline parameter list			
4	(4)	BITSTRING	1	$PTAFLG1	Flag byte
		1...		$PTA1MCT	"B'10000000'" Offset of $PAIR is in MCT
		.1..		$PTA1UCT	"B'01000000'" Offset of $PAIR is in UCT
		..1.		$PTA1CCT	"B'00100000'" Offset of $PAIR is in HCCT
		MEMBER NAME --> $QB ROUTINE(S) ---> $QBUSY in HASPJQS MACRO(S) -----> $QBUSY $QBUSY routines inline parameter list.			
4	(4)	BITSTRING	1	$QBSYFLG	$QBUSY parameter flag
		1...		$QBACTON	"B'10000000'" Set the busy bits for this JQE on
		.1..		$QBACTOF	"B'01000000'" Set the busy bits for this JQE off
		..1.		$QBTRACE	"B'00100000'" Trace this call
		...1		$QBREAL	"B'00010000'" Real JQE was passed
		.... 1...		$QBNALCT	"B'00001000'" Don't alter xeq class count
		.... .1..		$QBHVCAT	"B'00000100'" CAT passed in by caller
		.... ..1.		$QBDODEV	"B'00000010'" Set JQEDEVID from PCEDCT
		1		$QBDEVID	"B'00000001'" Set JQEDEVID from passed field
		MEMBER NAME --> $#B ROUTINE(S) ---> $#BUSY in HASPJOS MACRO(S) -----> $#BUSY $#BUSY routines inline parameter list.			
4	(4)	BITSTRING	1	$#BSYFLG	$#BUSY parameter flag

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$#BACTON	"B'10000000'" Set the busy bits for this JOE on
		.1..		$#BACTOF	"B'01000000'" Set the busy bits for this JOE off
		..1.		$#BTRACE	"B'00100000'" Trace this call
		...1		$#BREAL	"B'00010000'" Real JOE was passed
		.... 1...		$#BPOST	"B'00001000'" $#POST the JOE
		.... .1..		$#BDODEV	"B'00000100'" Set JOEDEVID from PCEDCT
		.... ..1.		$#BDEVID	"B'00000010'" Set JOEDEVID from passed field
		1		$#BCKPNO	"B'00000001'" No Checkpoint of JOE
5	(5)	BITSTRING	1	$#BSYFL2	Second inline flag byte
		1...		$#BCKPON	"B'10000000'" Checkpoint only JOEBUSY and JOEDEVID
		MEMBER NAME --> $QRBDCHK ROUTINE(S) ---> $QRBDCHK in HASPJQS MACRO(S) -----> $QRBDCHK $QRBDCHK routines inline parameter list.			
4	(4)	BITSTRING	1	$QRBDFLG	$QRBDCHK parameter flag
		1...		$QRQNONE	"B'10000000'" This JQE is currently not on a job queue
		.1..		$QRQOTH	"B'01000000'" This JQE is currently on an other queue
		..1.		$QRQRBLD	"B'00100000'" This JQE is currently on the rebuild queue
		MEMBER NAME --> $#RBDCHK ROUTINE(S) ---> $#RBDCHK in HASPJOS MACRO(S) -----> $#RBDCHK $#RBDCHK routines inline parameter list.			
4	(4)	BITSTRING	1	$#RBDFLG	$#RBDCHK parameter flag
		1...		$#RQNONE	"B'10000000'" This JOE is currently not on an output queue
		.1..		$#RQRBLD	"B'01000000'" This JOE is currently on the rebuild queue
		..1.		$#RQOTH	"B'00100000'" This JOE is on one of the normal output queues
		MEMBER NAME --> QJQEVER ROUTINE(S) ---> QJQEVER in HASPJQS MACRO(S) -----> None QJQEVER routine inline parameter list.			
4	(4)	BITSTRING	1	$QJVPFLG	QJQEVER parameter flag
		1...		$QJVALNF	"B'10000000'" Validate that this is not a free JQE
		.1..		$QJVRETC	"B'01000000'" Validate JQE and return RC(do not abend)
		..1.		$QJVNJQA	"B'00100000'" Do not allow if JQA
		MEMBER NAME --> $QSUSE ROUTINE(S) ---> $QSUSE in HASPNUC MACRO(S) -----> $QSUSE Obtain JES2 queues parameter list Note: Update both HASMPERF and the QSUCB DSECT in $PERFCB if this inline parameter list changes.			

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$QSUFLG1	$QSUSE parameter flag
		1...		$QSU1LUR	"B'10000000'" Passively wait for queues
		.1..		$QSU1NOI	"B'01000000'" Ensure no I/O active
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$QSUSECT	Control Section name
14	(E)	CHARACTER	8	$QSUSEQF	Invoking seq number
14	(E)	X'16'	0	$QSUPLEN	"*-PARMLIST" Length of this parm list

```
MEMBER NAME --> QTYPESET
ROUTINE(S) ---> QTYPESET in HASPJQS
MACRO(S) -----> None
QTYPESET routine inline parameter list.
```

4	(4)	BITSTRING	1	$QTYPFLG	QTYPESET parameter flag
		1...		$QTYALTE	"B'10000000'" Begin processing at the alternate spot (QTSTPRG)

```
MEMBER NAME --> $#REP
ROUTINE(S) ---> $#REP in HASPJOS
MACRO(S) -----> $#REP
$#REP routine inline parameter list.
```

4	(4)	BITSTRING	1	$#REPFLG	$#REP parameter flag
		1...		$#REPW	"B'10000000'" Wait if JOT is full
		.1..		$#REPC	"B'01000000'" Copy JWELs from orig JOE
		.... 1...		$#REPREM	"B'00001000'" REMJOE was specified.

```
MEMBER NAME --> $RET
ROUTINE(S) ---> $CRETRN IN HASCLINK
                $RETURN IN HASPNUC
                FSMRETRN IN HASPFSSM
MACRO(S) -----> $RETURN (assembler)
                $RETURNP (PL/X)
COMMON RETURN SERVICE ROUTINE'S INLINE PARAMETER LIST.
```

4	(4)	BITSTRING	1	$RETFLAG	$RETURN MACRO OPTION FLAGS FOR USER & SUBTASK ENVIRONMENT
		1...		$RETANY	"B'10000000'" (USER,ANY) ENVIRONMENT
		.1..		$RETPARM	"B'01000000'" PARM=YES WAS SPECIFIED
		..1.		$RETTRCD	"B'00100000'" Trace data passed
		 1111		$RETREG	"B'00001111'" Register in save area with return address (if not R14)
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	$RETTFLG	Trace data flags (see $SAVTFLG for bits)
7	(7)	BITSTRING	1	$RETTDAT	TRACE data address register
8	(8)	BITSTRING	1	$RETTLEN	TRACE data length
9	(9)	BITSTRING	1		Reserved

```
MEMBER NAME --> $ROLL
ROUTINE(S) ---> $ROLL in HASPEVTL
MACRO(S) -----> $ROLL (assembler)
$ROLL inline parameter list
```

4	(4)	BITSTRING	1	$ROLLSRV	Trace caller Service ID 1
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	$ROLLOFF	TED offset of Trace Tbl @

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		$ROLJQEI	"X'02000000'" CTRACE format ID for JQEs
		....		$ROLJOEI	"X'03000000'" CTRACE format ID for JOEs
		....		$ROLDSPI	"X'04000000'" CTRACE format ID for DISPs
		....		$ROLSAPI	"X'05000000'" CTRACE format ID for SAPI
		....		$ROLCKPT	"X'06000000'" CTRACE format ID for CKPT
		....		$ROLQGET	"X'07000000'" CTRACE format ID for QGET
		MEMBER NAME --> $RQGT ROUTINE(S) ---> $RQUEGET IN HASCRQUE MACRO(S) -----> $RQUE $RQUE 'GET' INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$RQGTFL1	Flag byte
		1...		$RQGT1RC	"B'10000000'" Recovery request
		.1..		$RQGT1VE	"B'01000000'" Veto routine provided
		MEMBER NAME --> $RRA ROUTINE(S) ---> $REROUTE IN HASPSERV MACRO(S) -----> $REROUTE REROUTE AUTHORIZATION INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$RRAFLG1	$RRA FLAG BYTE
		1...		$RRA1JOB	"B'10000000'" REROUTE JOB REQUEST
		MEMBER NAME --> $RTA ROUTINE(S) ---> $RETABLE in HASPTABS MACRO(S) -----> $RETABLE $RETABLE routine inline parameter list			
4	(4)	BITSTRING	1	$RTAFLG1	Flag byte
		1...		$RTA1MCT	"B'10000000'" Offset of $PAIR is in MCT
		.1..		$RTA1UCT	"B'01000000'" Offset of $PAIR is in UCT
		..1.		$RTA1CCT	"B'00100000'" Offset of $PAIR is in HCCT
		.... ..1.		$RTA1FRY	"B'00000010'" Free DYNT YES specified
		1		$RTA1FRN	"B'00000001'" Free DYNT NO specified Free DYNT COND both off
		MEMBER NAME --> $SAV ROUTINE(S) ---> $CSAVE IN HASCLINK $GETSAVE IN HASPNUC FSMSAVE IN HASPFSSM MACRO(S) -----> $SAVE (assembler) $SAVEP (PL/X) COMMON SAVE SERVICE ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SAVFLAG	$SAVE MACRO OPTION FLAGS FOR THE USER & SUBTASK ENVIRONMENT
		1...		$SAVTRC	"B'10000000'" TRACE THIS SAVE
		.1..		$SAVTRE	"B'01000000'" TRE WAS PROVIDED
		..1.		$SAVNRG	"B'00100000'" REGS=NO WAS PROVIDED
		...1		$SAVARS	"B'00010000'" SYSSTATE=AR at macro time

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		$SAVANY	"B'00001000'" SYSSTATE=ANY at macro time
		.... .1..		$SAVUANY	"B'00000100'" $ENVIRON (USER,ANY)
		.... ..1.		$SAVTRCD	"B'00000010'" Trace data passed
		1		$SAVNRLS	"B'00000001'" Registers in linkage stack (and REGS=NO)
5	(5)	BITSTRING	1	$SAVFLG2	More option flags
		1...		$SAVAM64	"B'10000000'" SYSSTATE AMODE64=YES at macro time
		.1..		$SAVNO$W	"B'01000000'" Prohibit main task $WAITs
6	(6)	CHARACTER	8	$SAVNAME	EBCDIC LABEL
14	(E)	BITSTRING	1	$SAVTFLG	Trace data flags
		1...		$SAVTLRR	"B'10000000'" $SAVTLEN low half of reg
		.1..		$SAVTLHR	"B'01000000'" $SAVTLEN high half of reg
		..1.		$SAVTLAR	"B'00100000'" $SAVTLEN access register
		...1		$SAVTLOF	"B'00010000'" $SAVTLEN is an offset
		.... 1...		$SAVTDRR	"B'00001000'" $SAVTDAT low half of reg
		.... .1..		$SAVTDHR	"B'00000100'" $SAVTDAT high half of reg
		.... ..1.		$SAVTDAR	"B'00000010'" $SAVTDAT access register
		1		$SAVTUSR	"B'00000001'" User data (use TRECKEY)
15	(F)	BITSTRING	1	$SAVTDAT	TRACE data address register
16	(10)	BITSTRING	1	$SAVTLEN	TRACE data length
17	(11)	BITSTRING	1	$SAVAREG	Access regs (of 0,1,15) to save
		MEMBER NAME --> $SCD ROUTINE(S) ---> SCANDIAG IN HASCSCAN MACRO(S) -----> $SCANDIA $SCAN Diagnostic message routine			
4	(4)	BITSTRING	1	$SCDFLG1	$SCANDIA MACRO OPTION FLAGS
		1...		$SCD1WAR	"B'10000000'" TYPE=WARN message
		Member name --> $SD Routine(s) ---> $SDUMP in HASPRAS MACRO(s) -----> $SDUMP $SDUMP service routine			
4	(4)	BITSTRING	1	$SDFLAG1	$SDUMP MACRO option flags
		1...		$SDHOME	"B'10000000'" Dump home address space
		.1..		$SDAPPND	"B'01000000'" Append passed title
		..1.		$SDDEFT	"B'00100000'" Generate only default title
		...1		$SDRETRN	"B'00010000'" If SDUMP fails, just return
		.... 1...		$SDWAIT	"B'00001000'" If SDUMP fails, WTOR/WAIT
		.... .1..		$SDXSYS	"B'00000100'" Dump other MAS members

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $SF ROUTINE(S) ---> $SJBFIND IN HASCSRJB MACRO(S) -----> $SJBFIND SUBSYSTEM JOB BLOCK FIND ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SFFLAG1	$SJBFIND MACRO OPTION FLAGS
		1...		$SF1LOJ	"B'10000000'" FIND THE LIFE OF JOB SJB
		.1..		$SF1SSIB	"B'01000000'" FIND THE SSIB SJB
		..1.		$SF1FRST	"B'00100000'" FIND THE FIRST SJB FOR THE A.S.
		...1		$SF1LAST	"B'00010000'" FIND THE LAST SJB FOR THE A.S.
		.... 1...		$SF1ASID	"B'00001000'" ASCB ASID PASSED IN R0
		MEMBER NAME --> $SJF ROUTINE(S) ---> $SJBFREE IN HASCSRJB MACRO(S) -----> $SJBFREE CLEANUP SJB RELATED STORAGE ROUTINE INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SJFLAG1	$SJBFREE MACRO OPTION FLAGS
		1...		$SJFNPVT	"B'10000000'" PRIVATE STORAGE NOT AVAILBL
		.1..		$SJFMEM	"B'01000000'" Dechain SJB, don't FREEMAIN
		MEMBER NAME --> $SIGIO ROUTINE(S) ---> $SIGIO in HASCSRDS and HASPSPOL MACRO(S) -----> $SIGIO Signature Record I/O parameter list			
4	(4)	BITSTRING	1	$SIGFLG1	$SIGIO parameter flag
		1...		$SIG1W	"B'10000000'" Write Signature record
		.1..		$SIG1R	"B'01000000'" Read Signature record
		..1.		$SIG1SKP	"B'00100000'" Skip invalid extents
		...1		$SIG1MQT	"B'00010000'" MQT= specified
		.... 1...		$SIG1VAV	"B'00001000'" Verify TG is available
		MEMBER NAME --> $SL ROUTINE(S) ---> $SJBLOCK IN HASCSRJB MACRO(S) -----> $SJBLOCK SUBSYSTEM JOB BLOCK LOCK ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SLFLAG1	$SJBLOCK MACRO OPTION FLAGS
		EQU B'10000000' RESERVED EQU B'01000000' RESERVED			
		..1.		$SL1RETN	"B'00100000'" RETURN TO CALLER IF SJB LOCK OWNER IS NON-DISPATCHABLE
		...1		$SL1WAIT	"B'00010000'" RETURN TO CALLER IF SJB LOCK IS NOT AVAILABLE (RC=16)
		.... 1...		$SL1ACPT	"B'00001000'" Return wih RC=4 if lock is already held by the same TCB
		MEMBER NAME --> $SPIN ROUTINE(S) ---> HFEXSPIN in HASCDSOC MACRO(S) -----> $SPIN Data set dynamic spin routine			
4	(4)	BITSTRING	1	$SPNFLG1	Option flags

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$SPN1CY	"B'10000000'" Spin companion file too
		.1..		$SPN1NL	"B'01000000'" SDB lock not held
		MEMBER NAME --> $STL ROUTINE(S) ---> NPLLOG in HASPIRPL MACRO(S) -----> $STMTLOG TYPE=FREE SJB Unlock routine's inline parameter list			
4	(4)	BITSTRING	1	$STLTYPE	Statement type
		1...		$STMT	"B'10000000'" Statement should be logged
		.1..		$STMTCOM	"B'01000000'" Diagnostic is a comment
		..1.		$STMTWAR	"B'00100000'" Diagnostic is a warning
		...1		$STMTERR	"B'00010000'" Diagnostic is an error MSG
		.... 1...		$STMTCON	"B'00001000'" Continuation of diagnostic
		.... .1..		$STMTRAW	"B'00000100'" Do not prefix diagnostic
		.... ..1.		$STMTWTO	"B'00000010'" Diagnostic is a WTO
		MEMBER NAME --> $SU ROUTINE(S) ---> $SJBUNLK in HASCSRJB MACRO(S) -----> $SJBLOCK TYPE=FREE SJB Unlock routine's inline parameter list			
4	(4)	BITSTRING	1	$SUFLAG1	$SJBLOCK macro option flags
		1...		$SU1FREE	"B'10000000'" FREESJB=YES, free the SJB after unlocking it
		MEMBER NAME --> $SYMTT ROUTINE(S) ---> $SYMTT in HASCSRDS MACRO(S) -----> none SYMREC creation for sniffer			
4	(4)	BITSTRING	1	$SYMTTF1	$SYMTT parameter flag
4	(4)	X'1'	0	$SYM1SNF	"1" Trackgroup falsely thought to be unavail.
4	(4)	X'2'	0	$SYM1ALT	"2" Trackgroup falsely thought to be available by $TRACK
4	(4)	X'3'	0	$SYM1ALS	"3" Trackgroup falsely thought to be available by $STRAK
4	(4)	X'4'	0	$SYM1UNA	"4" Trackgroup being purged not owned by purging job
4	(4)	X'5'	0	$SYM1BLO	"5" Trackgroup which was in BLOB returned to service
4	(4)	X'6'	0	$SYM1JQA	"6" JQASUMSK did not reflect sniffed track group
4	(4)	X'7'	0	$SYM1R0	"7" Key of first SPOOL block <> to signature key
		MEMBER NAME --> $SYSNCRT ROUTINE(S) ---> HASPRDDS in HASCSRIP MACRO(S) -----> $SYSNCRT SYSIN creation inline parameter list			
4	(4)	BITSTRING	1	SYSNCRT	$SYSNCRT macro option flags
		1...		SYSNORD	"B'10000000'" PDDB_ORDINALITY=YES

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $TGMSET ROUTINE(S) ---> $TGMSET in HASPTRAK MACRO(S) -----> $TGMSET $TGMSET routine inline parameter list. NOTE: - $TGFLAG AND $TGFLAG2 MUST STAY TOGETHER!			
		Option flags			
4	(4)	BITSTRING	1	$TGFLAG	$TGMSET parameter flag
		1...		$TGCNTYS	"B'10000000'" COUNT=YES, Upd DAS counts
		..1.		$TGTTEST	"B'00100000'" TYPE=TEST, Test bit only
		...1		$TGTPSET	"B'00010000'" TYPE=SET, Set the bit only
4	(4)	X'30'	0	$TGTTSET	"$TGTTEST+$TGTPSET" TYPE=TESTSET, Test and set
		.... 1...		$TGQSYES	"B'00001000'" QSUSE=YES, get the QSUSE
		.... .1..		$TGSETON	"B'00000100'" SET=ON Turn bit on in map
		.... ..1.		$TGMMQT	"B'00000010'" MQT= was specified
		Flags for TGMTYPE=			
5	(5)	BITSTRING	1	$TGFLAG2	$TGMSET parameter flag
		1...		$TG2MAP	"B'10000000'" TGMTYPE=TGMAP specified
		.1..		$TG2BAD	"B'01000000'" TGMTYPE=TGBAD specified
		..1.		$TG2BTRK	"B'00100000'" TGMTYPE=BADTRTG specified
		...1		$TG2OTHR	"B'00010000'" TGMTYPE=OTHER specified
		MEMBER NAME --> $#TJEV ROUTINE(S) ---> $#TJEV in HASPJOS MACRO(S) -----> $#TJEV $#TJEV routine inline parameter list.			
4	(4)	BITSTRING	1	$#TJVFLG	$#TJEV parameter flag
		1...		$#TADD	"B'10000000'" Add JOE to exclusion vector
		.1..		$#TSERCH	"B'01000000'" Search for JOE in excl list
		..1.		$#TSERAN	"B'00100000'" Search for JOE in all lists
		...1		$#TPURGE	"B'00010000'" Purge JOE from all lists
		.... 1...		$#TMOVE	"B'00001000'" Move excl bit to new JOE
		MEMBER NAME --> $TRK ROUTINE(S) ---> $TRACK IN HASPTRAK, $STRAK IN HASCSRIC MACRO(S) -----> $TRACK SPOOL SPACE ALLOCATION ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$TRFLAG1	$TRACK MACRO OPTION FLAGS
		.... 1...		$TR1SDB	"B'00001000'" SDB provided
		.... .1..		$TR1SJIO	"B'00000100'" SJIOB provided

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$TR1WRPM	"B'00000010'" WRPRIM=NO, DON'T WRITE PRIMARY IOT
		1		$TR1WTNO	"B'00000001'" WAIT=NO, DO NOT WAIT FOR BLOBBING
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> TRP ROUTINE(S) ---> $TRACER IN HASCSRIC, HA$PEVTL IN HASPEVTL MACRO(S) -----> $TRACE JES2 EVENT TRACE LOG PROCESSOR INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	TRPID	TRACE ID
5	(5)	BITSTRING	1	TRPFLAG1	ENVIRON/TYPE-MOVED TO TTETRPET
		1...		TRP1USER	"B'10000000'" ENVIRON=USER
		.1..		TRP1STSK	"B'01000000'" ENVIRON=SUBTASK
		..1.		TRP1JES2	"B'00100000'" ENVIRON=JES2
		...1		TRP1FSS	"B'00010000'" ENVIRON=FSS
		EQU B'00001000' RESERVED FOR FUTURE USE EQU B'00000100' RESERVED FOR FUTURE USE EQU B'00000010' RESERVED FOR FUTURE USE			
		1		TRP1SPIN	"B'00000001'" SPIN THE LOG AT CURRENT TABLE
6	(6)	CHARACTER	8	TRPNAME	TRACE SYMBOL
		MEMBER NAME --> TSR ROUTINE(S) ---> $TOKENSR IN HASCSRIC MACRO(S) -----> $TOKENSR Name/Token Service parameter list			
4	(4)	BITSTRING	1	$TSRFLG1	Flags
		1...		$TSR1RET	"B'10000000'" RETRIEVE
		.1..		$TSR1DEL	"B'01000000'" DELETE
		..1.		$TSR1CRE	"B'00100000'" CREATE
		...1		$TSR1PRS	"B'00010000'" PERSIST=YES
		.... 1...		$TSR1CBA	"B'00001000'" CBADDR= was specified
		MEMBER NAME --> VALSCQJQ ROUTINE(S) ---> VALSCQJQ IN HASPRTAM MACRO(S) -----> Passes inline parameter list for $SCQJQE validation			
4	(4)	ADDRESS	1	$VSJFLAG	VALSCQJQ parameter flag
		1...		$RCPINIT	"B'10000000'" Remote console processor initialization
		Member name --> $VFL Routine(s) ---> $VLFI in HASCSRIC Macro(s) -----> $VFL Passes inline parameter list for $VFL processing			
4	(4)	ADDRESS	1	$VFLOPCD	$VFL operation code
4	(4)	X'0'	0	$VFLOPNC	"0" NC - AND character
4	(4)	X'6'	0	$VFLOPOC	"6" OC - OR character
4	(4)	X'C'	0	$VFLOPXC	"12" XC - XOR character
4	(4)	X'12'	0	$VFLOPMV	"18" MVC - Move character

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $WT ROUTINE(S) ---> $WAIT IN HASPNUC MACRO(S) -----> $WAIT, $XECBSRV PCE WAIT MACRO INTERFACE TO THE JES2 DISPATCHER. Note: Update both HASMPERF and the WTCB DSECT in $PERFCB if this inline parameter list changes.			
4	(4)	BITSTRING	1	$WTFLAG1	$WAIT MACRO OPTION FLAGS
		1...		$WT1RES	"B'10000000'" $WAIT FOR A RESOURCE
		.1..		$WT1XECB	"B'01000000'" $WAIT ON AN EXTENDED ECB
		..1.		$WT1RETN	"B'00100000'" $WAIT IS TO RETURN WITHOUT WAITING (USED BY $XECBSRV)
		...1		$WT1INHN	"B'00010000'" INHIBIT=NO specified on $WAIT call (ie ignore $WTINHBT)
		.... 1...		$WT1MCLR	"B'00001000'" PERFDATA monitor caller id
5	(5)	BITSTRING	1	$WTINHBT	INHIBITOR (PREVENTS REDISPATCHING PCE BEFORE SPECIFIC $POST)
6	(6)	CHARACTER	8	$WTCSECT	Control Section name
14	(E)	CHARACTER	8	$WTSEQF	Invoking seq number
22	(16)	ADDRESS	2	$WTRESQO	RESOURCE QUEUE OFFSET OR 0
22	(16)	X'18'	0	$WTPLEN	"*-PARMLIST" Length of this parm list
		MEMBER NAME --> $WS ROUTINE(S) ---> SRVWSCAN IN HASPSERV MACRO(S) -----> $WSSCAN SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST			
4	(4)	ADDRESS	1	$WSLISTL	
		MEMBER NAME --> $WSU ROUTINE(S) ---> SRVSETUP IN HASPSERV MACRO(S) -----> $WSSETUP SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST			
4	(4)	ADDRESS	1	$VOLFLD	DEVICE VOLUME FIELD
5	(5)	ADDRESS	1	$VOLNMFD	DEVICE VOLUME NUMBER FIELD
6	(6)	ADDRESS	1	$WSFLGOF	Work selection flag offset
7	(7)	BITSTRING	1	$WSTYPE	CB type passed
7	(7)	X'0'	0	$WSTUNK	"0" Unknown CB type
7	(7)	X'1'	0	$WSTWSP	"1" WSP was passed
		MEMBER NAME --> $WR ROUTINE(S) ---> $WTOC or $WTOR in HASPCON MACRO(S) -----> $WTO JES2 Main task environment $WTO inline parameter list. The code in HASPCON depends on this parm list being in this order.			
4	(4)	ADDRESS	1	$WRPFLAG	WTO inline parm. flag byte
4	(4)	X'5'	0	$WREXEND	"*" End of execute form parameter list
5	(5)	ADDRESS	1	$WRTYPE	WTO type
6	(6)	ADDRESS	1	$WRCLSPR	Class (high order 4 bits), Priority (low order 4 bits)
7	(7)	ADDRESS	1	$WRROUTE	WTO Routing Information
8	(8)	ADDRESS	1	$WRLEN	Message Length

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
9	(9)	BITSTRING	1	$WRLINTP	MLWTO line type
9	(9)	X'A'	0	$WRSTEND	"*" End of standard form parameter list
		MEMBER NAME --> $WT ROUTINE(S) ---> $PREWTO IN HASCSRIC MACRO(S) -----> $WTO USER AND SUBTASK ENVIRONMENT $WTO INLINE PARAMETER LIST.			
4	(4)	ADDRESS	1	$WTPFLAG	JES2 Parameter flag byte
5	(5)	ADDRESS	1	$WTCLASS	JES2 DESCRIPTOR CODE
6	(6)	ADDRESS	1	$WTROUTE	JES2 ROUTE CODE
7	(7)	BITSTRING	1	$WTLINTP	MLWTO line type
		$WTO IN-LINE PARAMETER FLAGS $WRPFLAG and $WTPFLAG. For $WTPFLAG only $WTOJOBY and $WTODOMT are processed.			
		1...		$WTOSTDL	"B'10000000'" STANDARD OR LIST FORM $WTO, CMB TEMPLATE FOLLOWS DIRECTLY
		.1..		$WTOCMBL	"B'01000000'" MF=EX SPECIFIED (LONG CMB TMPL)
		..1.		$WTOJOBY	"B'00100000'" JOB=YES SPECIFIED
		...1		$WTOWAIT	"B'00010000'" WAIT=YES SPECIFIED
		...1		$WTOSJB	"B'00010000'" SJB is in R15 (User/subtask environment)
		.... 1...		$WTOLNR0	"B'00001000'" MESSAGE LENGTH IN R0 (BYTE 3)
		.... .1..		$WTODOMT	"B'00000100'" Delete outstanding action message if task terminates
		.... ..1.		$WTODMND	"B'00000010'" Use $GETCMB DEMANDCMB=YES if necessary
		.... ..1.		$WTOAJSB	"B'00000010'" Use address space level JSAB (User/subtask environment)
		1		$WTOTEXT	"B'00000001'" TEXT= specified on $WTO (implies R0 - CONNECT and R1 - TEXT)
		$WRROUTE - Logical console definitions			
		1		$LOG	"X'01'" SYSTEM LOG CONSOLE
		.... ..1.		$ERR	"X'02'" ERROR CONSOLE MCS ROUTING CODE=(10)
		.... .1..		$UR	"X'04'" UNIT RECORD OPERATIONS AREA MCS ROUTING CODE=(7)
		.... 1...		$TP	"X'08'" TELE-PROCESSING OPERATIONS MCS ROUTING CODE=(8)
		...1		$TAPE	"X'10'" TAPE HANDLING OPERATIONS MCS ROUTING CODE=(3,4,5,6)
		..1.		$MAIN	"X'20'" CHIEF OPERATORS AREA MCS ROUTING CODE=(1,2)
		.1..		$SEC	"X'40'" SYSTEM SECURITY MCS ROUTING CODE=(9)
		1...		$SPARE1	"X'80'" SPARE 1 MCS ROUTING CODE=(14)
		.111 1111		$ALL	"X'7F'" ALL UNRESERVED LOCAL CONS.

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$WTROUTE - Logical console definitions for user or JES2 subtask environment. $LOG EQU X'01' SYSTEM LOG CONSOLE (DEFINED ABOVE) $ERR EQU X'02' ERROR CONSOLE (DEFINED ABOVE)			
		.... .1..		$MCINFO	"X'04'" MASTER CONSOLE INFORMATION
		.... 1...		$PGINFO	"X'08'" PROGRAMMER INFORMATION
		$WTCLASS or $WRCLSPR Message Class Definitions - High order 4 bits. (Only those bits should be used to maintain network compatability due to this byte being part of the NJE architecture). In the main task, only $DOMACT has meaning, which determines whether the the message is descriptor code 2 (when on) or 4 (when off). Priority - Low order 4 bits. Only used by $WRCLSPR.			
		...1		$TRIVIA	"X'10'" NON-ESSENTIAL MESSAGES
		..11		$NORMAL	"X'30'" NORMAL MESSAGES
		.1..		$JOBSTAT	"X'40'" JOB STATUS MESSAGES
		.1.1		$ACTION	"X'50'" MESSAGES REQUIRING OPERATOR ACTION
		.111		$ALWAYS	"X'70'" MESSAGES WHICH SHOULD ALWAYS BE SENT
		1...		$DOMACT	"X'80'" ACTION REQUIRING A $DOM FLAG
7	(7)	X'1'	0	$LO	"1" LOW PRIORITY
7	(7)	X'4'	0	$ST	"4" STANDARD PRIORITY
7	(7)	X'7'	0	$HI	"7" HIGH PRIORITY
		MEMBER NAME --> $VWP ROUTINE(S) ---> VALWTOPL IN HASPCON MACRO(S) -----> PASSES THE MODULE NAME AND FUNCTION ID THRU THE INLINE PARAMETER LIST. FOR $SYMREC GENERATION			
4	(4)	CHARACTER	8	$VWPMODN	MODULE NAME PARAMETER 1
12	(C)	CHARACTER	8	$VWPFUNC	FUNCTION ID PARAMETER 2
		MEMBER NAME --> XGOALSYM ROUTINE(S) ---> XGOALSYM IN HASPXEQ MACRO(S) -----> N/A Passes the label and the WSC address where an anomaly was found. A "count" is passed when appropriate. The WSC address and counts are passed in registers. See XGOALSYM prologue.			
4	(4)	CHARACTER	8	$XGLABEL	Label where anomaly found
12	(C)	BITSTRING	1	$XGFLAG	Flags
		1...		$XGCOUNT	"B'10000000'" Old WSCIACT count provided
13	(D)	BITSTRING	1		Not used
		MEMBER NAME --> $XM ROUTINE(S) ---> $XMPOST IN HASCSRIC MACRO(S) -----> $XMPOST CROSS MEMORY POST SERVICE ROUTINE INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$XMFLAG1	FLAG 1
		1...		$XM1XMP	"B'10000000'" CROSS MEMORY PLIST WAS PASSED

Table 380. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$XM1QUIK	"B'01000000'" QUICK POSTING IS ALLOWED
		..1.		$XM1COMP	"B'00100000'" COMPLETION CODE WAS CODED
		...1		$XM1LPST	"B'00010000'" Parm list mapping that enables lost POST detection being used
		.... 1...		$XM1STKN	"B'00001000'" STOKEN= was specified
		.... .1..		$XM1TTKN	"B'00000100'" TTOKEN= was specified
		.... ..1.		$XM1NPST	"B'00000010'" TERM_TCB=NOPOST specified
		1		$XM1IRB	"B'00000001'" Perform POST via IRB
		ROUTINE(S) ---> $ZGLLMSG in HASCSRAX Equates for jobgroup log formatting options (in bits 0-31 of R15)			
		1		$ZGLLAMN	"B'00000001'" Add JES2 member name
		.... ..1.		$ZGLLASN	"B'00000010'" Add MVS system name
		.... .1..		$ZGLLALT	"B'00000100'" Add local time 'hh.mm.ss'
		.... 1...		$ZGLLAUT	"B'00001000'" Add UTC time 'hh.mm.ss'
		...1		$ZGLLWKA	"B'00010000'" Address of 256 byte work area is in R2
		..1.		$ZGLLTMS	"B'00100000'" Message timestamp is in R3 (bits 0-63)

Table 381. Cross Reference for $PARMLST

Name	Offset	Hex Tag
$$POFLG1	4	
$$PO1BRA	4	80
$$PO1BR3	4	8
$$PO1ELM	4	20
$$PO1RUN	4	10
$$PO1SYS	4	40
$#ADDFLG	4	
$#ADDJOA	4	80
$#BACTOF	4	40
$#BACTON	4	80
$#BCKPNO	4	1
$#BCKPON	5	80
$#BDEVID	4	2
$#BDODEV	4	4
$#BPOST	4	8
$#BREAL	4	10
$#BSYFLG	4	
$#BSYFL2	5	
$#BTRACE	4	20
$#DSFJOA	4	80
$#DSPFLG	4	
$#JADD	4	10

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$#JALL	4	2
$#JANCHR	5	10
$#JANY	4	1
$#JATTCH	5	40
$#JCOND	4	4
$#JDETCH	5	80
$#JFORCE	4	8
$#JINIT	5	20
$#JLONG	4	80
$#JPURGE	4	20
$#JSERCH	4	40
$#JWLFLG	4	
$#JWLFL2	5	
$#PFRJOA	4	8
$#PJWEL	4	10
$#PUTFLG	4	
$#RBDFLG	4	
$#REPC	4	40
$#REPFLG	4	
$#REPREM	4	8
$#REPW	4	80
$#RQNONE	4	80
$#RQOTH	4	20
$#RQRBLD	4	40
$#TADD	4	80
$#TJVFLG	4	
$#TMOVE	4	8
$#TPURGE	4	10
$#TSERAN	4	20
$#TSERCH	4	40
$ACTION	7	50
$AEOJFL1	4	
$AEOJ1EM	4	40
$AEOJ1JT	4	80
$ALL	7	7F
$ALWAYS	7	70
$ARCFLG1	5	
$ARCFLG2	6	
$ARCREST	4	
$ARC1ASI	5	80
$ARC1JQE	5	40
$ARC1SJB	5	20
$ARC2AR	6	80
$ARC2J2M	6	20
$ARC2TSK	6	8
$ARC2USR	6	10

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$ARC264	6	40
$ARTBERT	4	4
$ARTFLG1	5	
$ARTFLG2	6	
$ARTJOE	4	3
$ARTJQE	4	2
$ARTREST	4	
$ARTSPOL	4	1
$ART1ASI	5	80
$ART1JQE	5	40
$ART1SJB	5	20
$ART2AR	6	80
$ART2J2M	6	20
$ART2TSK	6	8
$ART2USR	6	10
$ART264	6	40
$BTGBMQR	4	20
$BTGBMTR	4	80
$BTGBTGM	4	40
$BTGFLG1	4	
$BTMACT	4	
$BTMCLR	4	1C
$BTMCRON	5	40
$BTMCRT	4	0
$BTMCRTC	5	80
$BTMDSTC	4	2C
$BTMDSTP	4	4
$BTMERCD	5	10
$BTMFLG	5	
$BTMNOAT	5	20
$BTMRST	4	C
$BTMSET	4	8
$BTMSETR	4	20
$BTMSOFF	4	18
$BTMSON	4	14
$BTMTEST	4	10
$BTMTSRF	4	28
$BTMTSRO	4	24
$CBCKPTB	7	
$CBCKPTF	C	
$CBIFLG1	4	
$CBIFLG2	5	
$CBISECT	16	
$CBISEQF	1E	
$CBLFLG1	4	
$CBL1NWA	4	80

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$CBSPOLP	A	
$CBSTORP	8	
$CBVERID	E	
$CBVERIX	12	
$CB1COND	4	1
$CB1EXIT	4	40
$CB1FREE	4	4
$CB1NOVF	4	20
$CB1NSJB	4	10
$CB1SJIO	4	8
$CB1WAIT	4	2
$CB2AM24	5	1
$CB2FSSM	5	20
$CB2MQTR	5	8
$CB2NORF	5	2
$CB2SPLQ	5	4
$CB2SUPM	5	10
$CB2TWAT	5	40
$CB2WRIT	5	80
$CDCFLG1	5	
$CDCTAPT	4	2
$CDCTCDC	4	5
$CDCTDCT	4	1
$CDCTLIM	4	7
$CDCTRAT	4	4
$CDCTSCK	4	3
$CDCTXRQ	4	6
$CDCTYPE	4	
$CDC1BRC	5	4
$CDC1BRO	5	20
$CDC1CRE	5	80
$CDC1DC2	5	1
$CDC1INV	5	10
$CDC1SYN	5	40
$CDC1VAL	5	8
$CDC164B	5	2
$CFXFLG1	4	
$CFX1RSP	4	80
$CKADEF	4	20
$CKANEW	4	40
$CKAOLD	4	80
$CKAPARF	4	
$CKPARMF	4	
$CKPID	6	
$CKPPOST	4	80
$CKPUNK	4	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$CKQRTN	4	
$CKSADDM	4	3
$CKSDELM	4	4
$CKSFLG1	5	
$CKSOPT	4	5
$CKSREQ	4	
$CKSSTOP	4	2
$CKSSTRT	4	1
$CKS1ALL	5	80
$CKS1LVC	5	40
$CKS1XRQ	5	20
$CMSFBTH	4	C0
$CMSFCMS	4	40
$CMSFFLG	4	
$CMSFLOC	4	80
$CMSGBTH	4	C0
$CMSGCMS	4	40
$CMSGFLG	4	
$CMSGLOC	4	80
$CPL1	4	
$CPL1CDY	4	80
$CPL1HXN	4	40
$CRJFLG1	4	
$CRJ1ALC	4	20
$CRJ1CLR	4	8
$CRJ1FRE	4	10
$CWTOFLG	4	
$CWTOLST	4	40
$CWTOMVC	4	80
$CWTONWT	4	20
$DGBACT	4	
$DGBCAT	6	2
$DGBCB	6	
$DGBCKPT	4	3
$DGBDYN	6	FF
$DGBFLAG	5	
$DGBFLG2	7	
$DGBFREE	4	5
$DGBFTCH	4	1
$DGBINT	6	0
$DGBJQE	6	1
$DGBNAME	5	10
$DGBNEXT	4	2
$DGBNRDD	5	1
$DGBNUPD	5	2
$DGBQSUS	5	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DGBRETN	4	4
$DGBSPEC	5	4
$DGBSTSP	4	6
$DGBTNAM	8	
$DGBTOKN	5	8
$DGBUPDT	5	20
$DGBWAIT	5	80
$DGBWSCQ	6	3
$DGB2CRE	7	80
$DGB2NEV	7	8
$DGB2PAD	7	20
$DGB2PBE	7	10
$DGB2UNC	7	4
$DGB2UNK	7	40
$DGDFLG1	4	
$DGDFLG2	5	
$DGD1BRO	4	4
$DGD1CRE	4	2
$DGD1FET	4	80
$DGD1FRE	4	8
$DGD1FTN	4	40
$DGD1NUP	4	10
$DGD1RES	4	1
$DGD1UPD	4	20
$DGD2ACC	5	80
$DGD2CAC	5	40
$DGD2FST	5	10
$DGD2WAI	5	20
$DGGFLG1	4	
$DGGFLG2	5	
$DGG1CKP	4	2
$DGG1CRE	4	80
$DGG1FET	4	20
$DGG1FRE	4	4
$DGG1NUP	4	8
$DGG1RED	4	40
$DGG1UPD	4	10
$DGG1WAI	4	1
$DGG2FTN	5	80
$DGTFLG1	4	
$DGTFLG2	5	
$DGT1AQR	4	2
$DGT1AQS	4	4
$DGT1FET	4	80
$DGT1FTN	4	40
$DGT1TYP	4	1

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DGT1UPD	4	20
$DGT2BCH	5	2
$DGT2BRO	5	80
$DGT2CPY	5	4
$DGT2CRE	5	10
$DGT2FRE	5	8
$DGT2JBC	5	20
$DGT2WAI	5	40
$DGVFLG1	4	
$DGV1CKP	4	2
$DGV1CRE	4	40
$DGV1FET	4	80
$DGV1FRE	4	4
$DGV1NUP	4	8
$DGV1RED	4	20
$DGV1UPD	4	10
$DGV1WAI	4	1
$DGWFLG1	4	
$DGWFLG2	5	
$DGW1BRO	4	1
$DGW1CKP	4	4
$DGW1CRE	4	2
$DGW1FET	4	80
$DGW1FRE	4	8
$DGW1FTN	4	40
$DGW1NUP	4	10
$DGW1UPD	4	20
$DGW2WAI	5	80
$DILCVER	5	1
$DILFLG1	6	
$DILFLG2	7	
$DILF1#P	6	1
$DILF1CL	6	80
$DILF1FL	6	10
$DILF1IM	6	40
$DILF1ND	6	4
$DILF1PO	6	8
$DILF1QP	6	2
$DILF1WA	6	20
$DILF2CK	7	10
$DILF2FN	7	4
$DILF2FP	7	2
$DILF2FT	7	1
$DILF2GM	7	8
$DILF2PA	7	80
$DILF2QS	7	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DILF2SP	7	20
$DILIMME	8	
$DILTJOE	4	2
$DILTJQE	4	1
$DILTYPE	4	
$DILVERS	5	
$DJACKPT	0	10
$DJACT	0	
$DJAFET	0	4
$DJAFETN	0	0
$DJAFLD	0	24
$DJAFREE	0	18
$DJALOCK	0	8
$DJAQLOK	0	20
$DJAREFR	0	14
$DJARET	0	C
$DJASETA	0	1C
$DJCA1CJ	4	2
$DJCA1CO	4	4
$DJCA1FL	4	8
$DJCA1TS	4	1
$DJCHAIN	6	
$DJCVER	3	2
$DJFLAG2	1	
$DJFLAG3	2	
$DJFLAG4	4	
$DJFLAG5	5	
$DJLEN	6	8
$DJVERS	3	
$DJXFJAX	5	40
$DJXFLGS	5	
$DJXFNCK	5	20
$DJXFWT	5	80
$DJXREQ	4	
$DJXRQCK	4	3
$DJXRQCR	4	1
$DJXRQFE	4	2
$DJXRQFR	4	5
$DJXRQRS	4	6
$DJXRQRT	4	4
$DJ2CONF	1	8
$DJ2DSRV	1	80
$DJ2KEEP	1	20
$DJ2NWAT	1	10
$DJ2POST	1	4
$DJ2SPCL	1	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DJ2UCON	1	2
$DJ2URFR	1	1
$DJ3#PSY	2	4
$DJ3MAX	2	2
$DJ3NUPD	2	10
$DJ3QPSY	2	8
$DJ3RCVY	2	1
$DJ3READ	2	80
$DJ3RELE	2	40
$DJ3WDEF	2	20
$DOACKPT	1	C
$DOACT	1	
$DOACTOR	6	
$DOAFET	1	4
$DOAFETN	1	0
$DOAFLD	1	10
$DOAFREE	1	18
$DOAQLOK	1	1C
$DOAREFR	1	14
$DOARET	1	8
$DOASETA	1	20
$DOCHAIN	6	
$DOCKLEN	8	
$DOCKOFF	6	
$DOCVER	0	1
$DOFLAG2	2	
$DOFLAG3	3	
$DOFLAG4	4	
$DOFLAG5	5	
$DOLEN	8	A
$DOMACT	7	80
$DOVERS	0	
$DO2CONF	2	4
$DO2DSRV	2	80
$DO2NROL	2	2
$DO2NWAT	2	10
$DO2RCVY	2	1
$DO2READ	2	20
$DO2SPCL	2	40
$DO2WDEF	2	8
$DO3KEEP	3	40
$DO3MAX	3	2
$DO3NUPD	3	10
$DO3POST	3	1
$DO3QLOB	3	8
$DO3RELE	3	80

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DO3UCON	3	20
$DO4#PSY	4	40
$DO4KPJW	4	20
$DO4MNJT	4	10
$DPREBER	5	4
$DPREJOE	5	8
$DPREJQE	5	10
$DPREMSG	5	1
$DPRETRK	5	2
$DPRFLGS	5	
$DPRFLG2	6	
$DPRFNCK	5	20
$DPRFPRA	5	40
$DPRFWT	5	80
$DPRREQ	4	
$DPRRINA	4	7
$DPRRQCK	4	3
$DPRRQCR	4	1
$DPRRQFE	4	2
$DPRRQFR	4	5
$DPRRQRS	4	6
$DPRRQRT	4	4
$DPRSMAL	6	80
$DSDFLG1	4	
$DSDFLG2	5	
$DSD2FOR	5	80
$DSRFLG1	4	
$DSR1FRE	4	40
$DSR1GET	4	80
$DSR1LIV	4	20
$DSR1RFR	4	10
$DSTCHAR	4	80
$DSTFLG1	4	
$DSTFLG2	5	
$DSTGNRC	4	20
$DSTNRP	4	8
$DSTNSPR	4	1
$DSTPRIM	4	4
$DSTRDT	4	40
$DSTUSER	4	2
$DST1EXP	4	10
$DST2DFM	5	40
$DST2IGN	5	80
$DST2IGS	5	8
$DST2IPD	5	4
$DST2IPY	5	10

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DST2NUS	5	20
$DST2NVU	5	2
$DTRFLG1	4	
$DTRMASD	4	2
$DTRMQTR	4	4
$DTRNAME	6	
$DTRRECV	1E	
$DTRRJCT	4	40
$DTRRJQE	4	80
$DTRRNAM	4	10
$DTRRND	4	20
$DTRRSIG	4	8
$DTRSECT	E	
$DTRSEQ	16	
$DVFLG1	4	
$DVLENG	5	
$DV1CHAR	4	40
$DV1JQE	4	80
$ERR	7	2
$ESTCRAT	4	80
$ESTDLET	4	40
$ESTFCN	4	
$ESTFLAG	5	
$ESTFNDM	5	80
$ESTNBR	A	
$ESTRECX	6	
$ESTRTYA	C	
$FACMOSQ	C	4
$FACSECT	4	
$FACSEQF	C	
$FBFLAG1	4	
$FBMCTAC	6	3
$FBMCTAD	6	1
$FBMCTAS	6	2
$FBMCTA8	6	12
$FBMCTDC	6	5
$FBMCTDS	6	4
$FBMCTEP	6	6
$FBMCTHX	6	7
$FBMCTKM	6	9
$FBMCTOF	6	A
$FBMCTPE	6	3
$FBMCTPN	6	1
$FBMCTPW	6	2
$FBMCTRH	6	8
$FBMCTSE	6	E

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FBMCTSI	6	B
$FBMCTSM	6	F
$FBMCTSR	6	C
$FBMCTST	6	D
$FBMCTUI	6	10
$FBMCTUR	6	11
$FBMCTYP	6	
$FBMFLG1	4	
$FBMFLG2	5	
$FBMID	7	
$FBMIDV	7	81
$FBMPLEN	10	14
$FBMSECT	8	
$FBMSEQF	10	
$FBM1ABA	4	1
$FBM1ABB	4	2
$FBM1ADD	4	40
$FBM1CNV	4	4
$FBM1INT	4	80
$FBM1LAS	4	20
$FBM1MFL	4	10
$FBM1TTB	4	8
$FBM2ADJ	5	2
$FBM2IFI	5	8
$FBM2INA	5	4
$FBM2IVA	5	10
$FBM2MTB	5	40
$FBM2RES	5	80
$FBM2TTZ	5	1
$FBM2WID	5	20
$FBSTORP	6	
$FB1HOLD	4	20
$FB1PROT	4	80
$FDISECT	6	
$FDISEQF	E	
$FDITCHR	4	1
$FDITHEX	4	2
$FDITUSI	4	3
$FDITYPE	4	
$FEVFLG1	7	
$FEVMOSQ	12	A
$FEVPVER	4	
$FEVRCC	5	3
$FEVRCU	5	1
$FEVRDC	5	4
$FEVRDU	5	2

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FEVREQ	5	
$FEVSECT	A	
$FEVSEQF	12	
$FEVUIFR	6	40
$FEVUIVE	6	80
$FEVUJDR	6	20
$FEVUNUL	6	10
$FEVUSE	6	
$FEVWVER	8	
$FEV1CSA	7	80
$FGAFLG1	4	
$FGAPLEN	E	12
$FGASECT	6	
$FGASEQF	E	
$FGA1ACM	4	4
$FGA1EYE	4	10
$FGA1GNS	4	40
$FGA1GTN	4	20
$FGA1LUP	4	80
$FGA1STD	4	E0
$FGA1ZPM	4	8
$FGFSECT	4	
$FGFSEQF	C	
$FIDCOFF	6	
$FIDFLG1	4	
$FID1ABN	4	40
$FID1CNT	4	80
$FIECOFF	6	
$FIEFLG1	4	
$FIE1ABN	4	40
$FIE1CNT	4	80
$FIE1HEA	4	20
$FIGCOFF	6	
$FIGFLG1	4	
$FIG1CNT	4	80
$FLEAPAR	16	
$FLEFLG1	4	
$FLESECT	6	
$FLESEQF	E	
$FLE1RC	4	80
$FMFLAG1	4	
$FMSFLG1	4	
$FMSPLEN	E	12
$FMSSECT	6	
$FMSSEQF	E	
$FMS1BLN	4	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FMS1CBL	4	20
$FMS1IND	4	10
$FMS1WID	4	80
$FM1$ERR	4	80
$FM1CLOS	4	40
$FPRFLG1	4	
$FPRSECT	6	
$FPRSEQF	E	
$FPR1MLT	4	80
$FREFLG1	4	
$FRE1JQA	4	20
$FRE1NTR	4	40
$FRE1NW	4	80
$FSAMOSQ	C	4
$FSASECT	4	
$FSASEQF	C	
$FSTFLG1	4	
$FSTFLG2	5	
$FSTSECT	6	
$FSTSEQF	E	
$FST1FRE	4	3
$FST1GTC	4	2
$FST1GTU	4	1
$FST2CTM	5	20
$FST2CTS	5	40
$FST2FAD	5	80
$FST2PTM	5	8
$FST2PTS	5	10
$FST2TAB	5	78
$FTBFLG1	4	
$FTB1CHN	4	80
$FTRFLG1	4	
$FTR1IOW	4	80
$FUCFLG1	4	
$FUC1UNP	4	80
$GCFLAG1	4	
$GCRSVRD	5	
$GCSIZE	6	
$GC1LPRM	4	80
$GFFLG1	C	
$GFFLG2	F	
$GFFLG3	4	
$GFFLG4	5	
$GFKEY	D	
$GFLENV	8	
$GFSUBPL	E	

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$GF1AR15	C	20
$GF1CHK0	C	8
$GF1OHOM	C	0
$GF1OPRI	C	1
$GF1OSEC	C	2
$GF1OSYS	C	3
$GF1RS64	C	10
$GF2FMN	F	1
$GF2LC24	F	10
$GF2LC31	F	20
$GF2PGB	F	4
$GF2RS31	F	40
$GF2UNCD	F	2
$GF3BUFR	4	40
$GF3FREE	4	10
$GF3HTCB	4	20
$GF3JTCB	4	4
$GF3LVR0	4	80
$GF3PSWK	4	1
$GF3TCBK	4	2
$GF3TCBY	4	8
$GF4BAKR	5	8
$GF4NOLV	5	10
$GF4OAUX	5	4
$GF4SPR0	5	80
$GF4STOR	5	40
$GF4TREG	5	2
$GF4ZERO	5	20
$GJLFLG1	4	
$GJL1JQA	4	80
$GJL1WAI	4	40
$GNHFLG1	4	
$GNH1WAT	4	80
$GTAFLG1	5	
$GTAH1ST	5	80
$GTATYPE	4	
$GTBFLG1	4	
$GTBFTYP	5	
$GTB1FIX	4	40
$GTB1LOW	4	10
$GTB1MUL	4	20
$GTB1WAT	4	80
$GTCFLG1	4	
$GTC1DMC	4	40
$GTC1WAT	4	80
$GTTBUSE	4	

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$GUCFLG1	4	
$GUC1CNT	4	80
$GUC1UNT	4	40
$HI	7	7
$IBFLAG1	4	
$IB1DAUG	4	8
$IB1DNCH	4	2
$IB1DPDB	4	80
$IB1DPRI	4	10
$IB1DSJI	4	4
$IB1DSPN	4	40
$IB1D2ND	4	20
$ICFLAG1	4	
$IC1IOT	4	20
$IC1JOE	4	10
$IC1LFRE	4	8
$IC1LKNO	4	80
$IC1LOCK	4	40
$JCLSNS	4	40
$JCLSRM	4	80
$JCNFLG1	4	
$JCN0PMG	4	100
$JCN1CJ	4	10
$JCN1CJO	4	8
$JCN1PRO	4	80
$JCN1TST	4	40
$JCN1TSU	4	20
$JDNADEA	4	28
$JDNADFA	4	1C
$JDNADOE	4	8
$JDNADOT	4	2C
$JDNADWH	4	24
$JDNADZE	4	4
$JDNCANJ	4	5C
$JDNCANZ	4	54
$JDNCHKE	4	64
$JDNCHKJ	4	60
$JDNCKZO	4	3C
$JDNCRCZ	4	98
$JDNCRJS	4	10
$JDNCRTN	4	84
$JDNCRTZ	4	0
$JDNDELZ	4	48
$JDNDEPT	5	80
$JDNDESN	4	88
$JDNDESZ	4	38

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$JDNDISZ	4	50
$JDNENDZ	4	34
$JDNENJS	4	18
$JDNFACT	5	40
$JDNFLG	5	
$JDNFREZ	4	9C
$JDNICON	4	30
$JDNIDEP	4	20
$JDNIJOB	4	C
$JDNINCV	4	A0
$JDNINND	4	8C
$JDNJSJO	4	14
$JDNMZOD	5	8
$JDNNTRL	4	94
$JDNOPER	4	
$JDNPCON	4	74
$JDNPJOB	4	44
$JDNPURG	5	20
$JDNPURJ	4	68
$JDNPURZ	4	58
$JDNRJOB	4	40
$JDNSCAN	5	10
$JDNSDJC	4	90
$JDNSSC	4	7C
$JDNSUSP	5	4
$JDNVERZ	4	4C
$JDNZAPZ	4	78
$JDNZOST	4	6C
$JDPRTRP	4	70
$JDVERZC	4	80
$JOBCLAV	4	
$JOBSTAT	7	40
$JSMACTA	4	1
$JSMACTN	4	
$JSMACTX	4	2
$JSMFLGS	7	
$JSMJQE	7	80
$JSMSJB	7	40
$JSMSYAS	6	3
$JSMSYCV	6	1
$JSMSYIN	6	2
$JSMSYMT	6	
$JSMSYNF	6	4
$JSMTBCL	5	2
$JSMTBJS	5	1
$JSMTBLF	5	

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$JSMTBSS	5	3
$LGFLAG1	5	
$LGRQSTR	7	
$LGSUBP	4	
$LG1MFRE	5	80
$LG1TXTL	6	
$LG1WTO	5	40
$LO	7	1
$LOG	7	1
$LVFLAG1	4	
$LVQFLAG	5	
$LVQOFF	6	
$LV1QSE	4	80
$LV1WAIT	4	40
$MAIN	7	20
$MCADDR	6	80
$MCBYTES	5	2
$MCCOMMN	6	4000
$MCDELET	6	20
$MCDYNAM	6	40
$MCFLAG1	4	
$MCINFO	7	4
$MCMIT	6	2000
$MCMSG	4	80
$MCMSGS	4	40
$MCNAME	6	800
$MCNTEST	6	B
$MCPROPX	6	400
$MCRMD24	6	8000
$MCRSLVX	6	200
$MCTABL	6	100
$MCTESTS	6	
$MCVERS	6	1000
$MSTCLR	4	2
$MSTFLG1	5	
$MSTSET	4	1
$MSTTYPE	4	
$MST1ECB	5	80
$MST1EXP	5	20
$MST1EXT	5	40
$NADFLG1	5	
$NADSTAT	4	
$NAD1CES	5	10
$NAD1NAT	5	80
$NAD1NCC	5	40
$NAD1STA	5	20

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$NGTFLG1	5	
$NGTSTAT	4	
$NGT1FST	5	10
$NGT1NAT	5	80
$NGT1NCC	5	40
$NGT1TOK	5	20
$NHRFLG1	4	
$NHRSRCB	5	
$NHR1XIT	4	80
$NHWFLG1	4	
$NHW1FRE	4	80
$NHW1WAT	4	40
$NHXFLG1	4	
$NHXSRCB	5	
$NHX1FRE	4	80
$NHX1XIT	4	40
$NMDFLG1	5	
$NMDSTAT	4	
$NMD1CES	5	8
$NMD1FST	5	20
$NMD1NAT	5	80
$NMD1NCC	5	40
$NMD1STA	5	10
$NNTFLG1	4	
$NNT1FST	4	10
$NNT1MMA	4	4
$NNT1MTR	4	8
$NNT1NOT	4	20
$NNT1SET	4	80
$NNT1TST	4	40
$NORMAL	7	30
$NOTFLG1	4	
$NOT1EML	4	2
$NOT1JQE	4	20
$NOT1MEM	4	8
$NOT1NJB	4	80
$NOT1NUM	4	40
$NOT1NUS	4	10
$NOT1TKN	4	4
$NRMFLG1	4	
$NRM1ALL	4	40
$NRM1STA	4	80
$NSLFLG1	4	
$NSL1OBT	4	80
$NSL1SHR	4	20
$NSL1WAT	4	40

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$NSYFLG1	4	
$NSY1CKP	4	10
$NSY1CMP	4	40
$NSY1LOC	4	20
$NSY1MSG	4	8
$NSY1NIT	4	4
$NSY1REF	4	80
$PBFLAG1	4	
$PB1DAUG	4	20
$PB1DPDB	4	80
$PB1DSPN	4	40
$PGINFO	7	8
$PGSFIX	4	40
$PGSFLG1	4	
$PGSFREE	4	20
$PGSPRO	4	4
$PGSRPSL	4	10
$PGSRSSL	4	8
$PGSRVRL	4	80
$PGSUPRO	4	2
$PRGFLG1	4	
$PRG1ENF	4	40
$PRG1JOA	4	20
$PRG1VFY	4	80
$PSQFLG1	4	
$PSQ1JQE	4	40
$PSQ1MAS	4	80
$PTAFLG1	4	
$PTA1CCT	4	20
$PTA1MCT	4	80
$PTA1UCT	4	40
$QBACTOF	4	40
$QBACTON	4	80
$QBDEVID	4	1
$QBDODEV	4	2
$QBHVCAT	4	4
$QBNALCT	4	8
$QBREAL	4	10
$QBSYFLG	4	
$QBTRACE	4	20
$QJVALNF	4	80
$QJVNJQA	4	20
$QJVPFLG	4	
$QJVRETC	4	40
$QRBDFLG	4	
$QRQNONE	4	80

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$QRQOTH	4	40
$QRQRBLD	4	20
$QSUFLG1	4	
$QSUPLEN	E	16
$QSUSECT	6	
$QSUSEQF	E	
$QSU1LUR	4	80
$QSU1NOI	4	40
$QTYALTE	4	80
$QTYPFLG	4	
$RCPINIT	4	80
$RETANY	4	80
$RETFLAG	4	
$RETPARM	4	40
$RETREG	4	F
$RETTDAT	7	
$RETTFLG	6	
$RETTLEN	8	
$RETTRCD	4	20
$RINFLG1	4	
$RINLOG	4	80
$ROLCKPT	6	0
$ROLDSPI	6	0
$ROLJOEI	6	0
$ROLJQEI	6	0
$ROLLOFF	6	
$ROLLSRV	4	
$ROLQGET	6	0
$ROLSAPI	6	0
$RQGTFL1	4	
$RQGT1RC	4	80
$RQGT1VE	4	40
$RRAFLG1	4	
$RRA1JOB	4	80
$RTAFLG1	4	
$RTA1CCT	4	20
$RTA1FRN	4	1
$RTA1FRY	4	2
$RTA1MCT	4	80
$RTA1UCT	4	40
$SAVAM64	5	80
$SAVANY	4	8
$SAVAREG	11	
$SAVARS	4	10
$SAVFLAG	4	
$SAVFLG2	5	

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$SAVNAME	6	
$SAVNO$W	5	40
$SAVNRG	4	20
$SAVNRLS	4	1
$SAVTDAR	E	2
$SAVTDAT	F	
$SAVTDHR	E	4
$SAVTDRR	E	8
$SAVTFLG	E	
$SAVTLAR	E	20
$SAVTLEN	10	
$SAVTLHR	E	40
$SAVTLOF	E	10
$SAVTLRR	E	80
$SAVTRC	4	80
$SAVTRCD	4	2
$SAVTRE	4	40
$SAVTUSR	E	1
$SAVUANY	4	4
$SCDFLG1	4	
$SCD1WAR	4	80
$SDAPPND	4	40
$SDDEFT	4	20
$SDFLAG1	4	
$SDHOME	4	80
$SDRETRN	4	10
$SDWAIT	4	8
$SDXSYS	4	4
$SEC	7	40
$SFFLAG1	4	
$SF1ASID	4	8
$SF1FRST	4	20
$SF1LAST	4	10
$SF1LOJ	4	80
$SF1SSIB	4	40
$SIGFLG1	4	
$SIG1MQT	4	10
$SIG1R	4	40
$SIG1SKP	4	20
$SIG1VAV	4	8
$SIG1W	4	80
$SJFLAG1	4	
$SJFMEM	4	40
$SJFNPVT	4	80
$SLFLAG1	4	
$SL1ACPT	4	8

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$SL1RETN	4	20
$SL1WAIT	4	10
$SPARE1	7	80
$SPNFLG1	4	
$SPN1CY	4	80
$SPN1NL	4	40
$ST	7	4
$STLTYPE	4	
$STMT	4	80
$STMTCOM	4	40
$STMTCON	4	8
$STMTERR	4	10
$STMTRAW	4	4
$STMTWAR	4	20
$STMTWTO	4	2
$SUFLAG1	4	
$SU1FREE	4	80
$SYMTTF1	4	
$SYM1ALS	4	3
$SYM1ALT	4	2
$SYM1BLO	4	5
$SYM1JQA	4	6
$SYM1R0	4	7
$SYM1SNF	4	1
$SYM1UNA	4	4
$TAPE	7	10
$TGCNTYS	4	80
$TGFLAG	4	
$TGFLAG2	5	
$TGMMQT	4	2
$TGQSYES	4	8
$TGSETON	4	4
$TGTPSET	4	10
$TGTTEST	4	20
$TGTTSET	4	30
$TG2BAD	5	40
$TG2BTRK	5	20
$TG2MAP	5	80
$TG2OTHR	5	10
$TP	7	8
$TRFLAG1	4	
$TRIVIA	7	10
$TR1SDB	4	8
$TR1SJIO	4	4
$TR1WRPM	4	2
$TR1WTNO	4	1

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$TSRFLG1	4	
$TSR1CBA	4	8
$TSR1CRE	4	20
$TSR1DEL	4	40
$TSR1PRS	4	10
$TSR1RET	4	80
$UR	7	4
$VFLOPCD	4	
$VFLOPMV	4	12
$VFLOPNC	4	0
$VFLOPOC	4	6
$VFLOPXC	4	C
$VFYCHK	1E	0
$VFYDSCA	1E	1
$VFYDSET	1E	C
$VFYDSIX	1E	2
$VFYEMQT	1E	B
$VFYHDB	1E	3
$VFYIOT	1E	4
$VFYJCT	1E	5
$VFYJSMT	1E	A
$VFYNHSB	1E	8
$VFYOCT	1E	6
$VFYSWBI	1E	7
$VFYTLBM	1E	9
$VOLFLD	4	
$VOLNMFD	5	
$VSJFLAG	4	
$VWPFUNC	C	
$VWPMODN	4	
$WRCLSPR	6	
$WREXEND	4	5
$WRLEN	8	
$WRLINTP	9	
$WRPFLAG	4	
$WRROUTE	7	
$WRSTEND	9	A
$WRTYPE	5	
$WSFLGOF	6	
$WSLISTL	4	
$WSTUNK	7	0
$WSTWSP	7	1
$WSTYPE	7	
$WTCLASS	5	
$WTCSECT	6	
$WTFLAG1	4	

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$WTINHBT	5	
$WTLINTP	7	
$WTOAJSB	7	2
$WTOCMBL	7	40
$WTODMND	7	2
$WTODOMT	7	4
$WTOJOBY	7	20
$WTOLNR0	7	8
$WTOSJB	7	10
$WTOSTDL	7	80
$WTOTEXT	7	1
$WTOWAIT	7	10
$WTPFLAG	4	
$WTPLEN	16	18
$WTRESQO	16	
$WTROUTE	6	
$WTSEQF	E	
$WT1INHN	4	10
$WT1MCLR	4	8
$WT1RES	4	80
$WT1RETN	4	20
$WT1XECB	4	40
$XGCOUNT	C	80
$XGFLAG	C	
$XGLABEL	4	
$XMFLAG1	4	
$XM1COMP	4	20
$XM1IRB	4	1
$XM1LPST	4	10
$XM1NPST	4	2
$XM1QUIK	4	40
$XM1STKN	4	8
$XM1TTKN	4	4
$XM1XMP	4	80
$ZGLLALT	4	4
$ZGLLAMN	4	1
$ZGLLASN	4	2
$ZGLLAUT	4	8
$ZGLLTMS	4	20
$ZGLLWKA	4	10
DSNRONLY	4	80
DSNVALL	4	0
EXITFLGS	C	
EXITFSS	C	8
EXITID	D	
EXITJES2	C	10

Table 381. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
EXITLNG	F	C
EXITMRC	E	
EXITNAME	4	
EXITRSVD	F	
EXITSTSK	C	20
EXITTR	C	80
EXITUSER	C	40
EXITXPL	C	4
PARMINST	0	
PARMLIST	0	
PARMSTRT	4	
SYSNCRT	4	
SYSNORD	4	80
TRPFLAG1	5	
TRPID	4	
TRPNAME	6	
TRP1FSS	5	10
TRP1JES2	5	20
TRP1SPIN	5	1
TRP1STSK	5	40
TRP1USER	5	80

$PARMWRK information

$PARMWRK heading information

Common name: PARMLIB Work Area

Macro ID: $PARMWRK

DSECT name: PRW

Owning component: JES2 (SC1BH)

Eye-catcher ID: PRW
Offset: PRWID
Length: L'PRWID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual storage is below the 16M line (contains DCB to read PARMLIB). Real storage is anywhere

Size: See PRWLEN

Created by: HASPSXIT for the INCLUDE initialization statement

Pointed to by: CIRPRMWR field of the CIRWORK data area
PRWPRW field of the PARMWRK data area

Serialization: None required

Function: The PARMWRK DSECT represents a data set used to read JES2 initialization statements from

$PARMWRK mapping

Table 382. Structure PRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRW	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PRWID	Eyecatcher
4	(4)	CHARACTER	54	PRWDSNMB	Data set name input area
58	(3A)	CHARACTER	1	PRWDSNEN	Work area for PSTINCDS
60	(3C)	SIGNED	4	(0)	Allignment
60	(3C)	CHARACTER	8	PRWUNIT	Data set unit
68	(44)	CHARACTER	6	PRWVOL	Data set VOLSER
74	(4A)	CHARACTER	44	PRWDSN(0)	Dataset name
74	(4A)	BITSTRING	58		DSN with work area
132	(84)	SIGNED	4	(0)	Allignment
132	(84)	CHARACTER	8	PRWMEMB(0)	Member name
132	(84)	BITSTRING	55		Member with work area
187	(BB)	CHARACTER	8	PRWIMEMB	Member of current dataset
195	(C3)	CHARACTER	8	PRWLMEMB	Logical Parmlib_member
204	(CC)	SIGNED	4	PRWSEND(0)	End of SCAN mapped areas
204	(CC)	X'CC'	0	PRWSLEN	"PRWSEND-PRW" Short PRW length (all fields referenced by SCAN)
204	(CC)	ADDRESS	4	PRWLDSB	Logical dataset Read buffer
208	(D0)	ADDRESS	4	PRWPRW	PRW chain pointer
212	(D4)	SIGNED	4	PRWLRCNT	Logical dataset rec counter
216	(D8)	BITSTRING	1	PRWFLAG1	General flags
		1...		PRW1DCON	"B'10000000'" Enter console mode when EOF
		.1..		PRW1DECN	"B'01000000'" Enter error console mode on EOF
217	(D9)	BITSTRING	1	PRWFLAG2	General flags
		1...		PRW2IDSN	"B'10000000'" DSNAME specified
		.1..		PRW2IVOL	"B'01000000'" VOLSER specified
		..1.		PRW2IUNT	"B'00100000'" UNIT specified
		...1		PRW2IMEM	"B'00010000'" Member field specified
		.... 1...		PRW2ILPM	"B'00001000'" Parmlib_member specified
		.... .1..		PRW2ISEQ	"B'00000100'" Dataset is sequential
		.... ..1.		PRW2INST	"B'00000010'" Nested INCLUDE
218	(DA)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	PRWINIDS	INIDSNE pointer for include
	Dynamic allocation work area				
228	(E4)	ADDRESS	4	PRWRBPTR	Request block pointer
232	(E8)	SIGNED	4	(0)	Ensure aligned
232	(E8)	BITSTRING	20	PRWRB	DYNALLOC request block
252	(FC)	SIGNED	4	(0)	Ensure aligned
252	(FC)	BITSTRING	36	PRWRBX	Request block Extension
288	(120)	SIGNED	4	PRWTXTPT(0)	Text pointers
288	(120)	ADDRESS	4	PRWTXTP1	Address of text unit 1

Table 382. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
292	(124)	ADDRESS	4	PRWTXTP2	Address of text unit 2
296	(128)	ADDRESS	4	PRWTXTP3	Address of text unit 3
300	(12C)	ADDRESS	4	PRWTXTP4	Address of text unit 4
304	(130)	ADDRESS	4	PRWTXTP5	Address of text unit 5
308	(134)	ADDRESS	4	PRWTXTP6	Address of text unit 5
	DYNAMIC Allocation text units: - Return DDNAME - DISP=SHR - DSNAME=dsname - UNIT=unit - VOLSER=volser				
312	(138)	SIGNED	4	PRWATX(0)	Text units
312	(138)	BITSTRING	6	PRWATX1	Text unit 1 (Return DDNAME)
318	(13E)	CHARACTER	8	PRWDDNM	Returned DD Name
326	(146)	BITSTRING	6	PRWATX2	Text unit 2 (DISP)
332	(14C)	BITSTRING	8	PRWATX2D	Text unit 2 parm
340	(154)	BITSTRING	6	PRWATX3	Text unit 3 (Data set name)
346	(15A)	CHARACTER	44	PRWDDSN	Data set name
390	(186)	BITSTRING	6	PRWATX4	Text unit 4 (member name)
396	(18C)	CHARACTER	8	PRWDMEMB	Data set member name
404	(194)	BITSTRING	6	PRWATX5	Text unit 5 (UNIT)
410	(19A)	CHARACTER	8	PRWDUNIT	Data set unit
418	(1A2)	BITSTRING	6	PRWATX6	Text unit 6 (VOLSER)
424	(1A8)	CHARACTER	6	PRWDVOL	Data set VOLSER
	DYNAMIC Unallocate text units: - DDNAME				
312	(138)	BITSTRING	6	PRWUTX1	Text unit 1 (DDNAME)
318	(13E)	BITSTRING	8	PRWUTX1D	Text unit 1 parm
326	(146)	BITSTRING	6	PRWUTX2	Text unit 2 unallocate perm
332	(14C)	BITSTRING	8	PRWUTX2D	Text unit 2 parm
	OPEN/CLOSE Work areas and DCB				
432	(1B0)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
432	(1B0)	SIGNED	4	PRWDCB(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
432	(1B0)	ADDRESS	4		DCBE ADDRESS
436	(1B4)	BITSTRING	12		FDAD, DVTBL
448	(1C0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
452	(1C4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
453	(1C5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
456	(1C8)	ADDRESS	2		BUFL, BUFFER LENGTH
458	(1CA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
460	(1CC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
464	(1D0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
465	(1D1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)

Table 382. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
468	(1D4)	BITSTRING	1		RECFM (RECORD FORMAT)
469	(1D5)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
472	(1D8)	CHARACTER	8		DDNAME
480	(1E0)	BITSTRING	1		OFLGS (OPEN FLAGS)
481	(1E1)	BITSTRING	1		IFLGS (IOS FLAGS)
482	(1E2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
484	(1E4)	BITSTRING	1		OPTCD, OPTION CODES
485	(1E5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
488	(1E8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
492	(1EC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
494	(1EE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
496	(1F0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
500	(1F4)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
504	(1F8)	ADDRESS	4		EOBAD
508	(1FC)	ADDRESS	4		RECAD
512	(200)	SIGNED	2		QSWS (FLAGS) AND EITHER DIRCT OR BUFOFF
514	(202)	ADDRESS	2		LRECL
516	(204)	BITSTRING	1		EROPT, ERROR OPTION
517	(205)	ADDRESS	3		CNTRL
520	(208)	SIGNED	2	(2)	RESERVED AND PRECL
524	(20C)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
528	(210)	SIGNED	4	PRWDCBE(0)	0 Alignment and identifier
532	(214)	SIGNED	2		4 Length of DCBE, minimum is 56
534	(216)	BITSTRING	2		6 Reserved, should be zero
536	(218)	ADDRESS	4		8 0 if not open, OPEN points to DCB
540	(21C)	BITSTRING	4		C Disk address of current member
544	(220)	BITSTRING	1		10 Flags set by system
545	(221)	BITSTRING	1		11 Flags set by user
546	(222)	SIGNED	2		12 Number of stripes if extended format
548	(224)	BITSTRING	1		14 Flags set by user
549	(225)	BITSTRING	3		15 Reserved
552	(228)	BITSTRING	4		18 Reserved
556	(22C)	SIGNED	4		1C Block size
560	(230)	BITSTRING	8		20 Reserved & number of blocks in ds
568	(238)	ADDRESS	4		28 End of data routine address or 0
572	(23C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
576	(240)	BITSTRING	6		30 Reserved, should be zero
582	(246)	ADDRESS	1	(2)	36 MULTACC and MULTSDN

Table 382. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
582	(246)	X'98'	0	PRWDCBL	"*-PRWDCB" DCB length
584	(248)	BITSTRING	1	PRWDCBFG	DCB EOF indicator X'FF' -> EOF
592	(250)	DBL WORD	8	(0)	Alignment
592	(250)	SIGNED	4	PRWOP(0)	ALIGN LIST TO WORD
592	(250)	ADDRESS	1		Option byte
593	(251)	ADDRESS	3		DCB or ACB address
593	(251)	X'250'	0	PRWOPEN	"PRWOP,*-PRWOP"
596	(254)	SIGNED	4	PRWCL(0)	ALIGN LIST TO FULLWORD
596	(254)	ADDRESS	1		OPTION BYTE
597	(255)	ADDRESS	3		DCB OR ACB ADDRESS
597	(255)	X'254'	0	PRWCLOSE	"PRWCL,*-PRWCL"
600	(258)	SIGNED	4	PRWEXJFC(0)	Alignment
600	(258)	BITSTRING	1		JFCB
601	(259)	ADDRESS	3		exit
604	(25C)	SIGNED	4	PRWJFCB(0)	JFCB
604	(25C)	BITSTRING	1	(176)	work area
784	(310)	DBL WORD	8	(0)	Ensure alignment
784	(310)	X'310'	0	PRWLEN	"*-PRW" PRW length

Table 383. Cross Reference for $PARMWRK

Name	Offset	Hex Tag
PRW	0	
PRWATX	138	
PRWATX1	138	
PRWATX2	146	
PRWATX2D	14C	
PRWATX3	154	
PRWATX4	186	
PRWATX5	194	
PRWATX6	1A2	
PRWCL	254	
PRWCLOSE	255	254
PRWDCB	1B0	
PRWDCBE	210	C4C3C2C5
PRWDCBFG	248	
PRWDCBL	246	98
PRWDDNM	13E	
PRWDDSN	15A	
PRWDMEMB	18C	
PRWDSN	4A	
PRWDSNEN	3A	
PRWDSNMB	4	
PRWDUNIT	19A	

Table 383. Cross Reference for $PARMWRK (continued)

Name	Offset	Hex Tag
PRWDVOL	1A8	
PRWEXJFC	258	
PRWFLAG1	D8	
PRWFLAG2	D9	
PRWID	0	D7D9E640
PRWIMEMB	BB	
PRWINIDS	E0	
PRWJFCB	25C	
PRWLDSB	CC	
PRWLEN	310	310
PRWLMEMB	C3	
PRWLRCNT	D4	
PRWMEMB	84	
PRWOP	250	
PRWOPEN	251	250
PRWPRW	D0	
PRWRB	E8	
PRWRBPTR	E4	
PRWRBX	FC	
PRWSEND	CC	
PRWSLEN	CC	CC
PRWTXTPT	120	
PRWTXTP1	120	
PRWTXTP2	124	
PRWTXTP3	128	
PRWTXTP4	12C	
PRWTXTP5	130	
PRWTXTP6	134	
PRWUNIT	3C	
PRWUTX1	138	
PRWUTX1D	13E	
PRWUTX2	146	
PRWUTX2D	14C	
PRWVOL	44	
PRW1DCON	D8	80
PRW1DECN	D8	40
PRW2IDSN	D9	80
PRW2ILPM	D9	8
PRW2IMEM	D9	10
PRW2INST	D9	2
PRW2ISEQ	D9	4
PRW2IUNT	D9	20
PRW2IVOL	D9	40

$PBLK information

$PBLK heading information

Common name:	HAM Protected Block DSECT
Macro ID:	$PBLK
DSECT name:	PBLK
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	PBLK Offset: PBLKID-PBLK Length: L'PBLKID
Storage attributes:	Subpool: 229 Key: 1 Residency: Virtual and Real storage are limited to 31 bit because to the channel programs generated to read data into these blocks.
Size:	See BATPBKSZ of the BAT that owns this PBLOCK
Created by:	HASCHAM GET processing
Pointed to by:	SDBPBLIN field of the SDB data area SDBPBLAC field of the SDB data area SDBPBLFL field of the SDB data area SDBAPBL field of the SDB data area PBLNEXT field of the PBL data area
Serialization:	Local lock held by EXCPVR serializes most updates to this data area. In some cases, the SDB lock of the owning SDB is used for serialization.
Function:	A PBLOCK contains control information, CCWs and data buffers used to read JES2 data sets from SPOOL. The size is dependant on the exact despooling method in use. Normal despooling uses 1 page of storage. Track cell despooling uses track cell (CCTTKCEL) number of 4K pages. Full track despooling uses 11 or 12 pages depending on buffer size (1944 vs 3992 bytes).

$PBLK mapping

Table 384. Structure PBLK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLK	, Protected block DSECT
0	(0)	CHARACTER	4	PBLKID	Eyecatcher
4	(4)	SIGNED	4	PBLSIZE	Size of data area
8	(8)	ADDRESS	4	PBLNEXT	Next PBLOCK on SDB chain
12	(C)	SIGNED	4	PBLUSECT	Use count for buffers
16	(10)	BITSTRING	1	PBLGFLG1	PBLOCK flag bytes
		1...		PBLGF1EL	"B'10000000'" At least one end record in this PBLOCK
17	(11)	SIGNED	1	PBLSTRBF	First MTTRE to process
18	(12)	ADDRESS	2	PBLBUFNM	Number of buffers in block
20	(14)	ADDRESS	4	PBLCCWA	Address of CCWs
24	(18)	ADDRESS	4	PBLBUFA	Address of first buffer
28	(1C)	SIGNED	4	PBLECB	ECB to post when I/O completes
32	(20)	DBL WORD	8	PBLMTTRT(0)	Start of MTTR/ADDRESS table

Table 385. Structure PBLMTTRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLMTTRE	, MTTR/ADDRESS table mapping

Table 385. Structure PBLMTTRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	PBLMTTR	MTTR of address (0 if not valid)
4	(4)	BITSTRING	1	PBLMFLG1	General flag byte
		1...		PBLMF1ER	"B'10000000'" I/O error on buffer
		.1..		PBLMF1VL	"B'01000000'" Logical error on buffer
		..1.		PBLMF1OK	"B'00100000'" Buffer verified OK
		...1		PBLMF1PR	"B'00010000'" Buffer processed (copied to UBUF)
		.... 1...		PBLMF1IP	"B'00001000'" Locate mode partly assigned buffer
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	PBLMADDR	Address of buffer for MTTR
12	(C)	ADDRESS	4	PBLMIDA1	IDAWs
16	(10)	ADDRESS	4	PBLMIDA2	to read
20	(14)	ADDRESS	4	PBLMIDA3	records
		If we are processing this PBLOCK in locate mode (FSS), then the IDAWs are used as work areas.			
12	(C)	ADDRESS	4	PBLMLOC	Next LRC to process
16	(10)	BITSTRING	8	PBLMRBA	RBA of current LRC
24	(18)	DBL WORD	8	PBLMTTRN(0)	Next entry (DWORD aligned)
24	(18)	X'18'	0	PBLMELEN	"*-PBLMTTRE" Length of an entry

Table 386. Structure PBLCCWS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLCCWS	, CCW and data areas
		CKD Data area and CCWs			
0	(0)	BITSTRING	6	PBLDADDR(0)	(00CCHH) Seek address (BBCCHH)
0	(0)	BITSTRING	2	PBLDBB	BB value (always zero)
2	(2)	BITSTRING	5	PBLDCHR(0)	CCHHR value
2	(2)	BITSTRING	4		CCHH calue
6	(6)	BITSTRING	1	PBLDREC	R value
7	(7)	BITSTRING	1	PBLDSECT	Sector number
8	(8)	DBL WORD	8	PBLCCWS1(0)	CKD CCW chain
32	(20)	X'20'	0	PBLCKDLN	"*-PBLCCWS1"
		ECKD Data area and CCWs			
8	(8)	BITSTRING	16	PBLDIPRM(0)	Locate record parameter list
8	(8)	BITSTRING	1	PBLDOPER	Operation byte
9	(9)	BITSTRING	1	PBLDAUX	Auxiliary byte
10	(A)	BITSTRING	1		Reserved (must be 0)
11	(B)	BITSTRING	1	PBLDNREC	Number of records to process
12	(C)	BITSTRING	4	PBLDCCHH	(CCHH) Seek address (CCHH)
16	(10)	BITSTRING	5	PBLDCHR1(0)	(CCHHR) Search address
16	(10)	BITSTRING	4	PBLDCH1	(CCHH) Cylinder and head numbers
20	(14)	BITSTRING	1	PBLDREC1	(R) Record number

Table 386. Structure PBLCCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
21	(15)	BITSTRING	1	PBLDSCT1	Sector number
22	(16)	BITSTRING	2	PBLDTLEN	Transfer length factor
32	(20)	DBL WORD	8	PBLCCWS2(0)	ECKD CCW chain
		Length fields. PBLSIZEC is the constant portion of the PBLOCK (base section plus positioning CCWs). PBLSIZEV is the length per input buffer for control areas and 1 read CCW.			
40	(28)	X'48'	0	PBLSIZEC	"(PBLMTTRT-PBLK)+(PBLCRW-PBLCCWS)"
40	(28)	X'20'	0	PBLSIZEV	"(PBLMTTRN-PBLMTTRE)+L'PBLCRW"

Table 387. Cross Reference for $PBLK

Name	Offset	Hex Tag
PBLBUFA	18	
PBLBUFNM	12	0
PBLCCWA	14	
PBLCCWS	0	
PBLCCWS1	8	
PBLCCWS2	20	
PBLCKDLN	20	20
PBLDADDR	0	
PBLDAUX	9	
PBLDBB	0	
PBLDCCHH	C	
PBLDCHR	2	
PBLDCHR1	10	
PBLDCH1	10	
PBLDIPRM	8	
PBLDNREC	B	
PBLDOPER	8	
PBLDREC	6	
PBLDREC1	14	
PBLDSCT1	15	
PBLDSECT	7	
PBLDTLEN	16	
PBLECB	1C	0
PBLGFLG1	10	0
PBLGF1EL	10	80
PBLK	0	
PBLKID	0	D7C2D3D2
PBLMADDR	8	
PBLMELEN	18	18
PBLMFLG1	4	
PBLMF1ER	4	80
PBLMF1IP	4	8
PBLMF1OK	4	20
PBLMF1PR	4	10

Table 387. Cross Reference for $PBLK (continued)

Name	Offset	Hex Tag
PBLMF1VL	4	40
PBLMIDA1	C	
PBLMIDA2	10	
PBLMIDA3	14	
PBLMLOC	C	
PBLMRBA	10	
PBLMTTR	0	
PBLMTTRE	0	
PBLMTTRN	18	
PBLMTTRT	20	
PBLNEXT	8	
PBLSIZE	4	0
PBLSIZEC	28	48
PBLSIZEV	28	20
PBLSTRBF	11	0
PBLUSECT	C	0

$PCE information

$PCE programming interface information

The following field is **NOT** programming interface information:

- PCEPRE

$PCE heading information

Common name: JES2 Processor Control Element DSECT

Macro ID: $PCE

DSECT name: PCE

Owning component: JES2 (SC1BH)

Eye-catcher ID:
'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes:
Subpool: 25
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.

Size:
The length of a PCE is the length of the base PCE (defined by the expression, PCEWORK-PCE) plus the length of a variable length work area beginning at symbol PCEWORK.
The length of the work area depends on the type of PCE. These work areas and their lengths are defined in separate mapping macros and are extensions of the PCE DSECT. See the definitions for PCEID byte 2 in this macro ($PCE) for the names of the work area mapping macros.
The overall length of the PCE is stored in field PCELENG.

Created by:
The $PCEDYN service. Most PCEs are created during JES2 initialization, others are created as needed (for example, PCEs for remote devices are created when a remote starts).

Pointed to by:

The $PCEORG field of the $HCT data area points to a chain containing all PCEs. This is a double threaded chain (see PCEPREV and PCENEXT below).
The $PCELAST field of the $HCT data area points to the last PCE on the $PCEORG chain.
The PCENEXT and PCEPREV fields of the $PCE data area points to the next/previous PCE on the $PCEORG chain.
The $CURPCE field of the $HCT data area points to the PCE currently dispatched by the JES2 dispatcher. $CURPCE is set to zero when a PCE gives up control with a $WAIT.
The $READY field of the $HCT data area is the head of a circular queue of PCEs ready to be dispatched by the JES2 dispatcher. $READYF (forward chain pointer) and $READYL (backward chain pointer) are defined at the $READY location. The PCEs on the queue are chained through the PCEPCEA (forward) and PCEPCEB (backward) fields. The queue head itself has a virtual origin in $HCT at the offset defined by the expression $READY-(PCEPCEA-PCE) so that the queue head is a dummy PCE called "PCE zero". When the ready queue is empty (that is, no PCEs are ready to be dispatched), the forward and backward pointers point to PCE zero. When the queue is not empty, $READYF either points to a currently dispatched PCE or $READYF points to the next PCE to be dispatched ($CURPCE is zero).
The $DRQUES field of the $HCT data area points to the JES2 dispatcher resource wait queues, a table of double-word queue heads ordered by resource number. These queues are similar to the ready queue (above), e.g., a queue is empty when it points to PCE zero.
PCEPCEA and PCEPCEB fields of the $PCE data area are used to chain PCEs on the ready queue or resource wait queues. A PCE is waiting for a specific $POST when these fields point to the PCE itself.
DCTPCE field of the $DCT data area.
XECBPCE field of the $XECB data area.
In addition to the pointer fields described here, the PCE work area mapping macros describe additional pointers specific to the PCE type(s) of the work areas.

Serialization:

Normal PCE dispatch serialization

Function:

The Processor Control Element (PCE) represents an instance of a "process" running under the control of the JES2 main task. The JES2 main task runs under a single TCB that is sub-dispatched by the JES2 dispatcher. The JES2 dispatcher uses the PCE as its dispatchable unit.
There are one or more PCEs for each JES2 processor type ID, as defined by the second byte of the PCEID field. Each of the ID types has a mapping macro that defines an extension to the PCE DSECT that begins at field PCEWORK. The names of the extension macros are given with the PCExxxID symbol definitions.
PCEs are related to JES2 devices in the following ways:
For non device related PCEs, PCEDCT is zero and no DCTPCE fields point to the PCE.
For a PCE that controls a single device, PCEDCT points to the Device Control Table (DCT) of the device the PCE manages.
For a PCE that controls multiple devices, PCEDCT is zero, but the DCTPCE field points to the PCE in each Device Control Table (DCT) that the PCE manages.

$PCE mapping

Table 388. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Processor Control Element
0	(0)	CHARACTER	4	PCEEYE(0)	Eye catcher
0	(0)	BITSTRING	1	(0)	$SAVE area (see $PSV)
0	(0)	X'A0'	0	PCELPSV	"PSVLABAD-PSV+PCE,4,C'A'" Last $SAVE area
0	(0)	X'99'	0	PCEXITID	"PSVEXID-PSV+PCE,1,C'F'" Exit ID last invoked
0	(0)	X'9C'	0	PCEDOM68	"PSVADDR-PSV+PCE,4,C'F'" Domid for $HASP068
176	(B0)	ADDRESS	4	PCEPREV	ADDRESS OF PREVIOUS PCE
180	(B4)	ADDRESS	4	PCENEXT	ADDRESS OF NEXT PCE
184	(B8)	ADDRESS	4	PCEPCEA	NEXT READY/WAITING PCE
188	(BC)	ADDRESS	4	PCEPCEB	PREVIOUS READY/WAITING PCE
192	(C0)	ADDRESS	4	PCEERA	ADDR OF ERA FOR ERROR FROM WHICH PCE IS ATTEMPTING TO RECOVER
196	(C4)	ADDRESS	4	PCEPRE	ADDRESS OF NEWEST PRE
200	(C8)	BITSTRING	1	PCEEWF	PROCESSOR EVENT WAIT FIELD
201	(C9)	BITSTRING	1	PCEFLAGS	PROCESSOR FLAGS
		1...		PCETRACE	"B'10000000'" Processor eligible for tracing
		.1..		PCEDSPXP	"B'01000000'" Processor permanently exempt from non-dispatchability
		..1.		PCEDSPXT	"B'00100000'" Processor temporarily exempt from non-dispatchability
		...1		PCENWIOP	"B'00010000'" Implicit $WAITs in I/O processing should be prohibited (currently used only by $IOERROR)
		.... 1...		PCETRPSF	"B'00001000'" Short $TRACE requested
		.... .1..		PCETRLDS	"B'00000100'" Relds indicator
		.... ..1.		PCEPRIO	"B'00000010'" High priority pce
		1		PCEREQIR	"B'00000001'" PCE is required (terminate JES2 if PCE abends).
202	(CA)	BITSTRING	1	PCEFLAG2	More PCE flags
		1...		PCE2ENDD	"B'10000000'" PCE has been terminated & will never be dispatched
		.1..		PCE2EBUF	"B'01000000'" Emergency buffers allowed
		..1.		PCE2EVNT	"B'00100000'" An exception event has occured for PCE this dispatcher cycle
		...1		PCE2INIT	"B'00010000'" PCE has initialized far enough to allow DETACH
		.... 1...		PCE2QSUS	"B'00001000'" PCE needed CKPT queues last time it ran
		.... .1..		PCE2XWTR	"B'00000100'" PCE is a PSO or SAPI PCE
		.... ..1.		PCE2SJID	"B'00000010'" Maintain PCEJOBID
		1		PCE2SJIX	"B'00000001'" Maintain PCEJQEIX
203	(CB)	BITSTRING	1	PCEFLGCS	PCE 'compare-and-swap' flag Flags in this byte may be manipulated by subtasks and therefore must use CS logic (OIL and NIL) to set/reset the bits.

Table 388. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		PCEGEMOK	"B'10000000'" PCE is allowed to obtain emergency CMBs
		.1..		PCECEMER	"B'01000000'" PCE currently owns an emergency CMB
		..1.		PCEPRIVI	"B'00100000'" PCE can may only be used by privileged jobs
204	(CC)	SIGNED	2	PCENDSPC	NON-DISPATCHABILITY COUNT - IF NON-ZERO PROCESSOR NOT DISPATCHED UNLESS EXEMPT VIA PCEDSPXP/XT
206	(CE)	SIGNED	2	PCEID	PROCESSOR TYPE
208	(D0)	SIGNED	4	PCEUSER0	RESERVED FOR USER
212	(D4)	SIGNED	4	PCEUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	PCEPOSTD(0)	PCE Post EWF fullword
216	(D8)	BITSTRING	3		Reserved for future use
219	(DB)	BITSTRING	1	PCEPSTEW	PCE POST EWF value
220	(DC)	ADDRESS	4	PCEPSTCH	PCE POST chain pointer
224	(E0)		1	PCEWTTIM	Time PCE $WAITed (STCKE)
NOTE THAT THE FOLLOWING FIELDS (THROUGH PCEDEVTP) MUST CORRESPOND TO THE DCT FIELDS (THROUGH DCTDEVTP)					
240	(F0)	DBL WORD	8	(0)	Ensure DWORD alignment
ORG -(DCTPCE-DCT) ESTABLISH THE PCEDADCT					
232	(E8)	DBL WORD	8	PCEDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
240	(F0)	ADDRESS	4	PCEDCTPC	DA DCT - DCTPCE
244	(F4)	SIGNED	4	PCEDCTFL	DCTSTAT-DCTFLAGS-DCTFLAG2
248	(F8)	BITSTRING	4	PCESEEK	MTTR value for $EXCP
252	(FC)	BITSTRING	4		Reserved (part of MQTR)
248	(F8)	DBL WORD	8	PCEMQTRD(0)	8 byte addr for STG
248	(F8)	BITSTRING	1	PCESEEKF	'FF'x if MQTR is set
249	(F9)	BITSTRING	1		Reserved (part of MTTR)
250	(FA)	BITSTRING	6	PCEMQTR	MQTR value for $EXCP
256	(100)	ADDRESS	4	PCEBUFAD	BUFFER ADDRESS FOR $EXCP
260	(104)	ADDRESS	4	PCEIOEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
264	(108)	SIGNED	2	PCEBUFCN	Active buffer count
266	(10A)	BITSTRING	1	PCEDEVTP	DA DCT FLAGS FOR $EXCP
		....		PCEDARD	"B'00000000'" Direct access read request
		1		PCEDAWR	"B'00000001'" Direct access write request
267	(10B)	BITSTRING	1	PCEDAFL3	DA DCT flag byte (see DCTFLAG3 for bits)
267	(10B)	X'1C'	0	PCEDALEN	"*-PCEDCTPC" Length of DA DCT in PCE
268	(10C)	SIGNED	2	PCELENG	PCE LENGTH
270	(10E)	ADDRESS	1	PCEROLOQ	Holding area for JQE/JOE 'prior' queue type
271	(10F)	SIGNED	1	PCESEQ	PCE sequence number
272	(110)	ADDRESS	4	PCEDCT	ADDRESS OF DCT (IF ANY)
276	(114)	ADDRESS	4	PCEJQE	ADDRESS OF JQE (IF ANY)

Table 388. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JOBID or JQE index of the current job. This is maintained by $DOGJQE for use by the monitor. If the first 4 bytes of PCEJOBID is zero, then either there is no current job or the second 4 bytes is a JQE index.			
280	(118)	CHARACTER	8	PCEJOBID	JOB ID of current job
280	(118)	SIGNED	4		Zero
284	(11C)	SIGNED	4	PCEJQEIX	JOB index of current job
288	(120)	ADDRESS	4	PCEPTAB	Addr of PCETAB
292	(124)	ADDRESS	4	PCEFSACB	ADDRESS OF FSACB, IF ANY
296	(128)	ADDRESS	4	PCEWAVE	ADDRESS OF WAVE (IF ANY)
300	(12C)	ADDRESS	4	PCENTITY	ADR OF ENTITY AREA (IF ANY)
304	(130)	SIGNED	2	PCEASID	Associated address space
306	(132)	BITSTRING	1	PCEFLAG3	More PCE flags
		1...		PCE3HPFL	"B'10000000'" PCE invoked HPUTFULL
		.1..		PCE3NO$W	"B'01000000'" $WAIT prohibited
		..1.		PCE3PST1	"B'00100000'" $$POST ELEM= looks for available PCE to post
		...1		PCE3SQSU	"B'00010000'" PCE low prio for $QSUSE
307	(133)	BITSTRING	1		Reserved for future use
308	(134)	ADDRESS	4	PCEACTCT	PCE active count
312	(138)	ADDRESS	4	PCEPCECT	Ptr to PCE counters (see $PCEHCTD/ $PCEHCTA)
316	(13C)	ADDRESS	4	PCEBKLCT	Ptr to backlog counter
320	(140)	SIGNED	2	PCEPNADJ	PCE pain adjustment
322	(142)	BITSTRING	2		Reserved for future use
324	(144)	ADDRESS	4	PCEWORKA	ADDRESS OF PCE WORK AREA
328	(148)	DBL WORD	8	PCEWORK(0)	VARIABLE LENGTH PROCESSOR WORK AREA
		PCEID - BYTE1			
		....		PCENODEV	"X'00'" PCEID BYTE1 = 0 INDICATES NON- DEVICE PROCESSOR
		1		PCELCLID	"X'01'" LOCAL SPECIAL PCE ID
		.... ..1.		PCERJEID	"X'02'" REMOTE SPECIAL PCE ID
		.... .1..		PCENJEID	"X'04'" NETWORK SPECIAL PCE ID, INDICATES NJE OR XFR JT/JR/ST/SR
		.... 1...		PCEINRID	"X'08'" INTERNAL SPECIAL PCE ID
		1...		PCEPRSID	"X'80'" PRINT SPECIAL PCE ID
		.1..		PCEPUSID	"X'40'" PUNCH SPECIAL PCE ID
		..1.		PCEXFRID	"X'20'" XFR SPECIAL PCE ID
		PCEID - BYTE2 (UNIQUE PCE ID) - HASP DEFINITIONS HASP PCE IDS ARE ASSIGNED FROM 1 AND INCREASE. USER PCE IDS PCE IDS SHOULD BE ASSIGNED FROM 255 AND DECREASE. EACH PCE TYPE IS DEFINED IN THE HASP OR USER PCE TABLE, WITH POSSIBLY MULTIPLE ENTRIES FOR EACH UNIQUE PCE ID (WITH DIFFERENT VALUES FOR PCEID BYTE1). Work Area Macro Descriptive name			
328	(148)	X'1'	0	PCERDRID	"1" $RDRWORK - Input Services
328	(148)	X'2'	0	PCEASYID	"2" $ASYWORK - Asynchronous I/O

Table 388. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
328	(148)	X'3'	0	PCECNVID	"3" $CNVWORK - Converter
328	(148)	X'4'	0	PCEXEQID	"4" $XEQWORK - Execution
328	(148)	X'5'	0	PCEPSOID	"5" $PSOWORK - Process SYSOUT
328	(148)	X'6'	0	PCEOUTID	"6" $OUTWORK - Output
328	(148)	X'7'	0	PCEPRTID	"7" $PPPWORK - Print $FSSWORK - FSS Print Support
328	(148)	X'8'	0	PCEPUNID	"8" $PPPWORK - Punch
328	(148)	X'9'	0	PCEPRGID	"9" $PRGWORK - Purge
328	(148)	X'A'	0	PCECONID	"10" $COMWORK - Command
328	(148)	X'B'	0	PCEMLMID	"11" $MLMWORK - Multi-leaving Line Mgr
328	(148)	X'C'	0	PCETIMID	"12" $TIMWORK - STIMER/TTIMER
328	(148)	X'D'	0	PCECKPID	"13" $CKPWORK - Checkpoint
328	(148)	X'E'	0	PCEJPAID	"14" $JPAWORK - Priority Aging
328	(148)	X'F'	0	PCEWRMID	"15" $WARMWRK - Warm Start
328	(148)	X'10'	0	PCENJTID	"16" $NJTWORK - NJE Job Transmitter
328	(148)	X'11'	0	PCENJRID	"17" $RDRWORK - NJE Job Receiver
328	(148)	X'12'	0	PCENSTID	"18" $NSTWORK - NJE SYSOUT Transmitter
328	(148)	X'13'	0	PCENSRID	"19" $NSRWORK - NJE SYSOUT Receiver
328	(148)	X'14'	0	PCENPMID	"20" $NPMWORK - NJE Path Manager
328	(148)	X'15'	0	PCERCPID	"21" $RCPWORK - Remote Console
328	(148)	X'16'	0	PCETEXID	"22" $TEXWORK - Time Excession Monitor
328	(148)	X'17'	0	PCEINTID	"23" $CIRWORK - Initialization
328	(148)	X'18'	0	PCEVTLID	"24" $TLGWORK - Event Trace Log
328	(148)	X'19'	0	PCEXFMID	"25" $XFMWORK - SPOOL Transfer I/O Mgr
328	(148)	X'1A'	0	PCESPMID	"26" $SPMWORK - SPOOL Manager
328	(148)	X'1B'	0	PCENRRID	"27" $RDRWORK - NJE Route Receiver
328	(148)	X'1C'	0	PCENRTID	"28" $NJTWORK - NJE Route Transmitter
328	(148)	X'1D'	0	PCESNFID	"29" $SNFWORK - SPOOL sniffer
328	(148)	X'1E'	0	PCERESID	"30" $RESWORK - Resource Manager
328	(148)	X'1F'	0	PCESTCID	"31" $STCWORK - STATUS/CANCEL
328	(148)	X'20'	0	PCESPNID	"32" $SPNWORK - Spin Services
328	(148)	X'21'	0	PCESFSID	"33" $SFRWORK - Scheduler Services
328	(148)	X'22'	0	PCEOPAID	"34" $OPAWORK - Output Priority Aging
328	(148)	X'23'	0	PCEFCLID	"35" $FCLWORK - FSS Cleanup on EOM
328	(148)	X'24'	0	PCEXCFID	"36" $XPWORK - Coupling
328	(148)	X'25'	0	PCEJCMID	"37" $JCMWORK - Job Command Processor
328	(148)	X'26'	0	PCEARMID	"38" $ARMWORK - ARM support processor
328	(148)	X'27'	0	PCEXCMID	"39" $XCMWORK - XCF Command Processor
328	(148)	X'28'	0	PCESPIID	"40" $SPIWORK - Sysout API Processor
328	(148)	X'29'	0	PCEDILID	"41" $DILWORK - 'Do It Later' processor
328	(148)	X'2A'	0	PCEENFID	"42" $ENFWORK - ENF LISTEN processor
328	(148)	X'2B'	0	PCEALIID	"43" $ALIWORK - Acquire lock & cleanup

Table 388. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
328	(148)	X'2C'	0	PCEMSCID	"44" $MSCWORK - Miscellaneous processor
328	(148)	X'2D'	0	PCEEOMID	"45" $EOMWORK - End-of-Memory processor
328	(148)	X'2E'	0	PCEJQRID	"46" $JQRWORK - JQE Request processor
328	(148)	X'2F'	0	PCEIRCID	"47" $IRCWORK - Internal reader cleanup
328	(148)	X'30'	0	PCEDWNID	"48" $DAWNWRK - DAWN processor
328	(148)	X'31'	0	PCENRMID	"49" $NRMWORK - NJE Resource Monitor
328	(148)	X'32'	0	PCECDCID	"50" $CDCWORK - Cross-system Device
328	(148)	X'33'	0	PCEDLSID	"51" $DLSWORK - Deadline scheduling
328	(148)	X'34'	0	PCEJOIID	"52" $JOEIWRK - JOEI processor
328	(148)	X'35'	0	PCEEDSID	"53" $EDSWORK - Email Delivery services
328	(148)	X'36'	0	PCEPCYID	"54" $PCYWORK - Policy services

Table 389. Cross Reference for $PCE

Name	Offset	Hex Tag
PCE	0	
PCEACTCT	134	
PCEALIID	148	2B
PCEARMID	148	26
PCEASID	130	
PCEASYID	148	2
PCEBKLCT	13C	
PCEBUFAD	100	
PCEBUFCN	108	
PCECDCID	148	32
PCECEMER	CB	40
PCECKPID	148	D
PCECNVID	148	3
PCECONID	148	A
PCEDADCT	E8	
PCEDAFL3	10B	
PCEDALEN	10B	1C
PCEDARD	10A	0
PCEDAWR	10A	1
PCEDCT	110	
PCEDCTFL	F4	
PCEDCTPC	F0	
PCEDEVTP	10A	
PCEDILID	148	29
PCEDLSID	148	33
PCEDOM68	0	9C
PCEDSPXP	C9	40
PCEDSPXT	C9	20
PCEDWNID	148	30

Table 389. Cross Reference for $PCE (continued)

Name	Offset	Hex Tag
PCEEDSID	148	35
PCEENFID	148	2A
PCEEOMID	148	2D
PCEERA	C0	
PCEEWF	C8	
PCEEYE	0	
PCEFCLID	148	23
PCEFLAGS	C9	
PCEFLAG2	CA	
PCEFLAG3	132	
PCEFLGCS	CB	
PCEFSACB	124	
PCEGEMOK	CB	80
PCEID	CE	
PCEINRID	148	8
PCEINTID	148	17
PCEIOEWF	104	
PCEIRCID	148	2F
PCEJCMID	148	25
PCEJOBID	118	
PCEJOIID	148	34
PCEJPAID	148	E
PCEJQE	114	
PCEJQEIX	11C	
PCEJQRID	148	2E
PCELCLID	148	1
PCELENG	10C	
PCELPSV	0	A0
PCEMLMID	148	B
PCEMQTR	FA	
PCEMQTRD	F8	
PCEMSCID	148	2C
PCENDSPC	CC	
PCENEXT	B4	
PCENJEID	148	4
PCENJRID	148	11
PCENJTID	148	10
PCENODEV	148	0
PCENPMID	148	14
PCENRMID	148	31
PCENRRID	148	1B
PCENRTID	148	1C
PCENSRID	148	13
PCENSTID	148	12
PCENTITY	12C	
PCENWIOP	C9	10

Table 389. Cross Reference for $PCE (continued)

Name	Offset	Hex Tag
PCEOPAID	148	22
PCEOUTID	148	6
PCEPCEA	B8	
PCEPCEB	BC	
PCEPCECT	138	
PCEPCYID	148	36
PCEPNADJ	140	
PCEPOSTD	D8	
PCEPRE	C4	
PCEPREV	B0	
PCEPRGID	148	9
PCEPRIO	C9	2
PCEPRIVI	CB	20
PCEPRSID	148	80
PCEPRTID	148	7
PCEPSOID	148	5
PCEPSTCH	DC	
PCEPSTEW	DB	
PCEPTAB	120	
PCEPUNID	148	8
PCEPUSID	148	40
PCERCPID	148	15
PCERDRID	148	1
PCEREQIR	C9	1
PCERESID	148	1E
PCERJEID	148	2
PCEROLOQ	10E	
PCESEEK	F8	
PCESEEKF	F8	
PCESEQ	10F	
PCESFSID	148	21
PCESNFID	148	1D
PCESPIID	148	28
PCESPMID	148	1A
PCESPNID	148	20
PCESTCID	148	1F
PCETEXID	148	16
PCETIMID	148	C
PCETRACE	C9	80
PCETRLDS	C9	4
PCETRPSF	C9	8
PCEUSER0	D0	
PCEUSER1	D4	
PCEVTLID	148	18
PCEWAVE	128	
PCEWORK	148	

Table 389. Cross Reference for $PCE (continued)

Name	Offset	Hex Tag
PCEWORKA	144	
PCEWRMID	148	F
PCEWTTIM	E0	
PCEXCFID	148	24
PCEXCMID	148	27
PCEXEQID	148	4
PCEXFMID	148	19
PCEXFRID	148	20
PCEXITID	0	99
PCE2EBUF	CA	40
PCE2ENDD	CA	80
PCE2EVNT	CA	20
PCE2INIT	CA	10
PCE2QSUS	CA	8
PCE2SJID	CA	2
PCE2SJIX	CA	1
PCE2XWTR	CA	4
PCE3HPFL	132	80
PCE3NO$W	132	40
PCE3PST1	132	20
PCE3SQSU	132	10

$PCL information

$PCL heading information

Common name: Persistent Connection Line element

Macro ID: $PCL

DSECT name: PCL

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCL '
Offset: PCLID-PCL
Length: 4

Storage attributes: Subpool: n/a
Key: 1
Residency: In the jesxPCL data space in cpool PCL

Size: See PCLLEN

Created by: JES2 line manager

Pointed to by: MDCTPCL field of the $DCT data area
NSCSPCL field of the $NSCT data area
NSSLPCL field of the $NSST data area
PCTPCLAQ field of the $PCT data area
PCTPCLSQ field of the $PCT data area
PCLPCL field of the $PCL data area
PCLPCLSV field of the $PCL data area
PCLNEXT field of the $PCL data area
PCLPREV field of the $PCL data area
PCLSNEXT field of the $PCL data area
PCLSPREV field of the $PCL data area
TBFPCL field of the $TBUF data area
TBFLNPCL field of the $TBUF data area

Serialization: Most fields require only JES2 main task serialization. Chaining fields generally are serialized by the FIFOENQ service.

Function: Contains parameters for a line or NETSRV device which are shared between the JES2 address space and the NJE server address space.

$PCL mapping

Table 390. Structure PCL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCL	
0	(0)	CHARACTER	4	PCLID	PCL eyecatcher
4	(4)	ADDRESS	1	PCLVER	PCL version number
4	(4)	X'1'	0	PCLVERN	"1" PCL version
5	(5)	BITSTRING	1	PCLDTYPE	PCL Device type
5	(5)	X'1'	0	PCLDTLNE	"1" PCL associated with Line
5	(5)	X'2'	0	PCLDTSRV	"2" PCL associated with Server
6	(6)	BITSTRING	1	PCLTTYPE	PCL Connection type
6	(6)	X'1'	0	PCLTTCP	"1" TCP/IP connection
8	(8)	ADDRESS	4	PCLNEXT	Address of next PCL
12	(C)	ADDRESS	4	PCLPREV	Address of prior PCL
		The node definitions below define the local node (for server PCLs) or the adjacent node node (for line PCLs)			
16	(10)	CHARACTER	8	PCLNNAME	Node name
24	(18)	SIGNED	2	PCLNNUM	Node number
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	PCLDCT	DCT address (JES2 Private)
32	(20)	SIGNED	2	PCLDNUM	Device number of DCT
34	(22)	BITSTRING	1	PCLFLAG1	Common PCL Flags
		1...		PCL1TRAC	"B'10000000'" JES tracing active
		.1..		PCL1CTRC	"B'01000000'" NETSRV tracing active
		..1.		PCL1VERB	"B'00100000'" Verbose diagnostics
35	(23)	BITSTRING	1		Reserved
		Outbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.			
36	(24)	ADDRESS	4	PCLOBUFH	Outbound buffer queue head
40	(28)	ADDRESS	4	PCLOBUFT	Outbound buffer queue tail
		Inbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.			
44	(2C)	ADDRESS	4	PCLIBUFH	Inbound buffer queue head
48	(30)	ADDRESS	4	PCLIBUFT	Inbound buffer queue tail
52	(34)	SIGNED	4	PCLICNT	Inbound buffer queue count
56	(38)	DBL WORD	8	PCLEXORG(0)	Origins for PCL extension
		Extension for LINE type PCLs			
56	(38)	BITSTRING	2	PCLREST	Connection resistance

Table 390. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	BITSTRING	1	PCLQUAL	Member # of adjacent node
60	(3C)	ADDRESS	4	PCLSNEXT	Next line on server chain
64	(40)	ADDRESS	4	PCLSPREV	Prior line on server chain
68	(44)	ADDRESS	4	PCLPCLSV	Pointer to server PCL
72	(48)	BITSTRING	1	PCLLFLG1	Flags
		1...		PCLL1DED	"B'10000000'" A dedicated packet of subdevices is associated with this line
		.1..		PCLL1DND	"B'01000000'" Line is dedicated to node
		..1.		PCLL1DSC	"B'00100000'" Line is dedicated to socket
		...1		PCLL1CON	"B'00010000'" This line is connected
		.... 1...		PCLL1NET	"B'00001000'" Networking has started
		.... .1..		PCLL1DPR	"B'00000100'" Default port used
		.... ..1.		PCLL1KIL	"B'00000010'" Disconnect line
		1		PCLL1STR	"B'00000001'" Subtask requested
73	(49)	BITSTRING	1	PCLLFLG2	Flags
		1...		PCLL2SSL	"B'10000000'" Secure socket used
		.1..		PCLL2NTY	"B'01000000'" Non-retryable error
74	(4A)	BITSTRING	2		Reserved
76	(4C)	ADDRESS	4	PCLNLDV(0)	Subdevice counts
76	(4C)	ADDRESS	1	PCLJTNM	Number of job xmitters
77	(4D)	ADDRESS	1	PCLJRNM	Number of job receivers
78	(4E)	ADDRESS	1	PCLSTNM	Number of SYSOUT xmitters
79	(4F)	ADDRESS	1	PCLSRNM	Number of sysout receivers
	Data specific to each subdevice (line counts, etc)				
80	(50)	DBL WORD	8	PCLELM(0)	Force alignment
80	(50)	BITSTRING	112	PCLJTELM(7)	Data for 7 job xmitters
192	(C0)	BITSTRING	112	PCLJRELM(7)	Data for 7 job receivers
304	(130)	BITSTRING	168	PCLSTELM(7)	Data for 7 SYSOUT xmitters
472	(1D8)	BITSTRING	1	PCLSRELM(7)	Data for 7 SYSOUT receivers
472	(1D8)	X'1F8'	0	PCLELML	"*-PCLELM" Composite area length
584	(248)	DBL WORD	8	PCLDATA(0)	Variable data, based on PCLTYPE
	TCP/IP Line specific data				
584	(248)	ADDRESS	4	PCLNSST	Address of NSST (in netsrv address space)
588	(24C)	CHARACTER	8	PCLLSCKN	Name of associated SCK
596	(254)	CHARACTER	255	PCLLIPNM	IP address (EBCDIC)
851	(353)	CHARACTER	1		Reserved
852	(354)	BITSTRING	16	PCLLIPAD	IP address (binary)
868	(364)	CHARACTER	16	PCLLPRTN	Port name (EBCDIC)
884	(374)	SIGNED	2	PCLLPORT	Port number (binary)
886	(376)	SIGNED	2	PCLLOPRT	Original port # from socket
888	(378)	BITSTRING	4	PCLLFEAT	Signon feature flags

Table 390. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
892	(37C)	SIGNED	4	PCLLSKID	Socket id (assigned by IAZNJSTK)
896	(380)	BITSTRING	16	PCLLSTTT	NETSRV subtask TCB token
912	(390)	ADDRESS	4	PCLLSTKA	Addr of IAZNJSTK module
916	(394)	CHARACTER	8	PCLLAPAR	APAR number from module
924	(39C)	CHARACTER	8	PCLLDATE	Date of assembly
932	(3A4)	CHARACTER	5	PCLLTIME	Time of assembly
937	(3A9)	BITSTRING	7		Reserved
944	(3B0)	CHARACTER	255	PCLLIIPN	Initial IP address (EBCDIC)
1199	(4AF)	BITSTRING	1		Reserved
1200	(4B0)	CHARACTER	16	PCLLIPRN	Initial Port name (EBCDIC)
1216	(4C0)	SIGNED	4	(4)	Reserved for future use
1232	(4D0)	DBL WORD	8	(0)	
	Extension for SERVER type PCLs				
56	(38)	CHARACTER	8	PCLPGM	Program to start
64	(40)	CHARACTER	8	PCLPROC	Proc to use
72	(48)	CHARACTER	8	PCLNAME	Address space name
80	(50)	CHARACTER	8	PCLSTACK	TCP/IP Stack to listen on
88	(58)	BITSTRING	8	PCLASCBT	Address Space Token
96	(60)	ADDRESS	4	PCLASCB	ASCB address
100	(64)	SIGNED	2	PCLASID	ASID
102	(66)	SIGNED	2	PCLSBFSZ	Maximum buffer size
104	(68)	BITSTRING	4	PCLSFEAT	Signon feature flags
108	(6C)	ADDRESS	2	PCLKEEPI	Keepalive interval
110	(6E)	BITSTRING	2		Reserved for future use
	Queue heads for line DCTs running under this server				
112	(70)	ADDRESS	4	PCLLPCLH	Line PCL queue head
116	(74)	ADDRESS	4	PCLLPCLT	Line PCL queue tail
120	(78)	DBL WORD	8	PCLSDATA(0)	Server dependent data
	TCP/IP Server specific data				
120	(78)	ADDRESS	4	PCLTCT	Address of IAZYTCT (in netsrv address space)
124	(7C)	ADDRESS	4	PCLNCPE	Address of post element
128	(80)	CHARACTER	8	PCLSSCKN	Name of associated SCK
136	(88)	CHARACTER	255	PCLSIPNM	Server IP address (EBCDIC)
391	(187)	CHARACTER	1		Reserved
392	(188)	BITSTRING	16	PCLSIPAD	Server IP address (binary)
408	(198)	CHARACTER	16	PCLSPRTN	Server Port name (EBCDIC)
424	(1A8)	SIGNED	2	PCLSPORT	Server Port number (binary)
426	(1AA)	BITSTRING	1	PCLSFLG1	Server Flags
		1...		PCLS1SSL	"B'10000000'" Secure socket
		.1..		PCLS1SLO	"B'01000000'" Secure socket only
		..1.		PCLS1SLD	"B'00100000'" TLS defaulted from socket

Table 390. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		PCLS1SOS	"B'00010000'" SOCKET ind SECURE=YES
		.... 1...		PCLS1DIP	"B'00001000'" Default PORT value used
		.... .1..		PCLS1DPR	"B'00000100'" Default IP address used
		.... ..1.		PCLS1DRN	"B'00000010'" $P NETSRV issued
428	(1AC)	ADDRESS	4	PCLSTCPA	Addr of IAZNJTCP module
432	(1B0)	CHARACTER	8	PCLSAPAR	APAR number from module
440	(1B8)	CHARACTER	8	PCLSDATE	Date of assembly
448	(1C0)	CHARACTER	5	PCLSTIME	Time of assembly
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	CHARACTER	255	PCLSIIPN	Initial IP address (EBCDIC)
711	(2C7)	BITSTRING	1		Reserved
712	(2C8)	CHARACTER	16	PCLSIPRN	Initial Port name (EBCDIC)
728	(2D8)	DBL WORD	8	(0)	End of type dependent data
1232	(4D0)	X'4D0'	0	PCLLEN	"*-PCL"

Table 391. Structure PCLJT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLJT	Job Transmitter data
0	(0)	SIGNED	4	PCLJTJID	Job # of active job
4	(4)	BITSTRING	1	PCLJTFG1	Status flags
		1...		PCLJTF1C	"B'10000000'" Job complete
		.1..		PCLJTF1R	"B'01000000'" Restart job
		..1.		PCLJTF1H	"B'00100000'" Hold job
		...1		PCLJTF1D	"B'00010000'" Drain transmitter
		.... 1...		PCLJTF1S	"B'00001000'" Start transmitter
		.... .1..		PCLJTF1E	"B'00000100'" $C/$E of xmitter issued
		.... ..1.		PCLJTF1F	"B'00000010'" EOF sent for current job
		1		PCLJTF1W	"B'00000001'" Wake up xmitter PCE
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLJTRCT	Records sent so far
12	(C)	SIGNED	4	PCLJTRTO	Total records in job stream
12	(C)	X'10'	0	PCLJTLEN	"*-PCLJT" Size

Table 392. Structure PCLJR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLJR	Job Receiver data
0	(0)	SIGNED	4	PCLJRJID	Job # of active job
4	(4)	BITSTRING	1	PCLJRFG1	Status flags
		1...		PCLJRF1D	"B'10000000'" Receiver is drained
		.1..		PCLJRF1C	"B'01000000'" $C of receiver issued
		..1.		PCLJRF1E	"B'00100000'" $E of receiver issued
		...1		PCLJRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use

Table 392. Structure PCLJR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	PCLJRRCT	Records received so far
12	(C)	SIGNED	4	PCLJRRTO	Total records in job stream
12	(C)	X'10'	0	PCLJRLEN	"*-PCLJR" Size

Table 393. Structure PCLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLST	SYSOUT Transmitter data
0	(0)	SIGNED	4	PCLSTJID	Job # of active job
4	(4)	SIGNED	4	PCLSTNCH	Offset of first JOE
8	(8)	BITSTRING	1	PCLSTFG1	Status flags
		1...		PCLSTF1C	"B'10000000'" Job complete
		.1..		PCLSTF1R	"B'01000000'" Restart job
		..1.		PCLSTF1H	"B'00100000'" Hold job
		...1		PCLSTF1D	"B'00010000'" Drain transmitter
		.... 1...		PCLSTF1S	"B'00001000'" Start transmitter
		.... .1..		PCLSTF1E	"B'00000100'" $C/$E of xmitter issued
		.... ..1.		PCLSTF1F	"B'00000010'" EOF sent for current job
		1		PCLSTF1W	"B'00000001'" Wake up xmitter PCE
9	(9)	BITSTRING	1	PCLSTFG2	Status flags - Flags to be serialized by OIL & NIL
		1...		PCLSTF2O	"B'10000000'" Hold Joes
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	SIGNED	4	PCLSTRCT	Records sent so far
16	(10)	SIGNED	4	PCLSTRTO	Total records in SYSOUT stream
20	(14)	SIGNED	4	PCLSTEXC	# of logical puts to line
20	(14)	X'18'	0	PCLSTLEN	"*-PCLST" Size

Table 394. Structure PCLSR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLSR	SYSOUT Receiver data
0	(0)	SIGNED	4	PCLSRJID	Job # of active job
4	(4)	BITSTRING	1	PCLSRFG1	Status flags
		1...		PCLSRF1D	"B'10000000'" Receiver is drained
		.1..		PCLSRF1C	"B'01000000'" $C of receiver issued
		..1.		PCLSRF1E	"B'00100000'" $E of receiver issued
		...1		PCLSRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLSRRCT	Records received so far
12	(C)	SIGNED	4	PCLSRRTO	Total records in SYSOUT stream
12	(C)	X'10'	0	PCLSRLEN	"*-PCLSR" Size

Table 395. Cross Reference for $PCL

Name	Offset	Hex Tag
PCL	0	

Table 395. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLASCB	60	
PCLASCBT	58	
PCLASID	64	
PCLDATA	248	
PCLDCT	1C	
PCLDNUM	20	
PCLDTLNE	5	1
PCLDTSRV	5	2
PCLDTYPE	5	
PCLELM	50	
PCLELML	1D8	1F8
PCLEXORG	38	
PCLFLAG1	22	
PCLIBUFH	2C	
PCLIBUFT	30	
PCLICNT	34	
PCLID	0	D7C3D340
PCLJR	0	
PCLJRELM	C0	
PCLJRFG1	4	
PCLJRF1C	4	40
PCLJRF1D	4	80
PCLJRF1E	4	20
PCLJRF1F	4	10
PCLJRJID	0	
PCLJRLEN	C	10
PCLJRNM	4D	
PCLJRRCT	8	
PCLJRRTO	C	
PCLJT	0	
PCLJTELM	50	
PCLJTFG1	4	
PCLJTF1C	4	80
PCLJTF1D	4	10
PCLJTF1E	4	4
PCLJTF1F	4	2
PCLJTF1H	4	20
PCLJTF1R	4	40
PCLJTF1S	4	8
PCLJTF1W	4	1
PCLJTJID	0	
PCLJTLEN	C	10
PCLJTNM	4C	
PCLJTRCT	8	
PCLJTRTO	C	
PCLKEEPI	6C	

Table 395. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLLAPAR	394	
PCLLDATE	39C	
PCLLEN	4D0	4D0
PCLLFEAT	378	
PCLLFLG1	48	
PCLLFLG2	49	
PCLLIIPN	3B0	
PCLLIPAD	354	
PCLLIPNM	254	
PCLLIPRN	4B0	
PCLLOPRT	376	
PCLLPCLH	70	
PCLLPCLT	74	
PCLLPORT	374	
PCLLPRTN	364	
PCLLSCKN	24C	
PCLLSKID	37C	
PCLLSTKA	390	
PCLLSTTT	380	
PCLLTIME	3A4	
PCLL1CON	48	10
PCLL1DED	48	80
PCLL1DND	48	40
PCLL1DPR	48	4
PCLL1DSC	48	20
PCLL1KIL	48	2
PCLL1NET	48	8
PCLL1STR	48	1
PCLL2NTY	49	40
PCLL2SSL	49	80
PCLNAME	48	9185A2A7
PCLNCPE	7C	
PCLNEXT	8	
PCLNLDV	4C	
PCLNNAME	10	
PCLNNUM	18	
PCLNSST	248	
PCLOBUFH	24	
PCLOBUFT	28	
PCLPCLSV	44	
PCLPGM	38	C9C1E9D5
PCLPREV	C	
PCLPROC	40	C9C5C5E2
PCLQUAL	3A	
PCLREST	38	
PCLSAPAR	1B0	

Table 395. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLSBFSZ	66	
PCLSDATA	78	
PCLSDATE	1B8	
PCLSFEAT	68	
PCLSFLG1	1AA	
PCLSIIPN	1C8	
PCLSIPAD	188	
PCLSIPNM	88	
PCLSIPRN	2C8	
PCLSNEXT	3C	
PCLSPORT	1A8	
PCLSPREV	40	
PCLSPRTN	198	
PCLSR	0	
PCLSRELM	1D8	
PCLSRFG1	4	
PCLSRF1C	4	40
PCLSRF1D	4	80
PCLSRF1E	4	20
PCLSRF1F	4	10
PCLSRJID	0	
PCLSRLEN	C	10
PCLSRNM	4F	
PCLSRRCT	8	
PCLSRRTO	C	
PCLSSCKN	80	
PCLST	0	
PCLSTACK	50	40404040
PCLSTCPA	1AC	
PCLSTELM	130	
PCLSTEXC	14	
PCLSTFG1	8	
PCLSTFG2	9	
PCLSTF1C	8	80
PCLSTF1D	8	10
PCLSTF1E	8	4
PCLSTF1F	8	2
PCLSTF1H	8	20
PCLSTF1R	8	40
PCLSTF1S	8	8
PCLSTF1W	8	1
PCLSTF2O	9	80
PCLSTIME	1C0	
PCLSTJID	0	
PCLSTLEN	14	18
PCLSTNCH	4	

Table 395. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLSTNM	4E	
PCLSTRCT	C	
PCLSTRTO	10	
PCLS1DIP	1AA	8
PCLS1DPR	1AA	4
PCLS1DRN	1AA	2
PCLS1SLD	1AA	20
PCLS1SLO	1AA	40
PCLS1SOS	1AA	10
PCLS1SSL	1AA	80
PCLTCT	78	
PCLTTCP	6	1
PCLTTYPE	6	
PCLVER	4	
PCLVERN	4	1
PCL1CTRC	22	40
PCL1TRAC	22	80
PCL1VERB	22	20

$PCT information

$PCT programming interface information

The following fields are **NOT** programming interface information:

- PCTPCLAH
- PCTPCLAQ
- PCTPCLAT
- PCTPCLSH
- PCTPCLSQ
- PCTPCLST

$PCT heading information

Common name:	Path Manager Control Table
Macro ID:	$PCT
DSECT name:	PCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCT ' Offset: PCTID-PCT Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in CSA
Size:	See PCTLEN
Created by:	Routine IRSSI during JES2 initialization
Pointed to by:	CCTPCT field of the $HCCT data area

Serialization: Most fields require only JES2 main task serialization. However, some fields also require serialization with a general purpose subtask if it is possible to affect the field while a "full path" analysis is in progress.

Function: Contains the main parameters for, and anchors the work queues for, the JES2 network path manager.

$PCT mapping

Table 396. Structure PCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCT	
0	(0)	CHARACTER	4	PCTID	PCT eyecatcher
4	(4)	ADDRESS	1	PCTVER	PCT version number
4	(4)	X'3'	0	PCTVERN	"3" PCT version
5	(5)	BITSTRING	3		Reserved for future use
	NAT queue heads and other fields are maintained across a hot start				
8	(8)	ADDRESS	4	PCTNATAH	Ptr to head of active NAT queue
12	(C)	ADDRESS	4	PCTNATAT	Ptr to tail of active NAT queue
16	(10)	ADDRESS	4	PCTNATUH	Ptr to head of unconnected NAT que
20	(14)	ADDRESS	4	PCTNATUT	Ptr to tail of unconnected NAT que
24	(18)	ADDRESS	4	PCTNATHH	Ptr to head of held NAT queue
28	(1C)	ADDRESS	4	PCTNATHT	Ptr to tail of held NAT queue
32	(20)	ADDRESS	4	PCTNATNH	Head of temp ACTIVE NAT que
36	(24)	ADDRESS	4	PCTNATNT	Tail of temp ACTIVE NAT que
36	(24)	X'8'	0	PCTNATQS	"PCTNATAH,*-PCTNATAH" All NAT queue heads/tails
40	(28)	SIGNED	4	PCTTTOL	TOD tolerance for connections
40	(28)	X'15180'	0	PCTTTOLD	"1440*60" Default TOD tolerance
44	(2C)	ADDRESS	4	PCTTINQ(0)	TCP/IP NPM buffer queue
44	(2C)	ADDRESS	4	PCTTINQH	TCP/IP NPM buffer q head
48	(30)	ADDRESS	4	PCTTINQT	TCP/IP NPM buffer q tail
52	(34)	ADDRESS	4	PCTTRCPQ(0)	TCP/IP RCP buffer chain
52	(34)	ADDRESS	4	PCTTRCPH	TCP/IP RCP buffer q head
56	(38)	ADDRESS	4	PCTTRCPT	TCP/IP RCP buffer q tail
60	(3C)	ADDRESS	4	PCTTMPIQ(0)	Temp inbound TCP buf q
60	(3C)	ADDRESS	4	PCTTMPIH	Temp inbound TCP buf q head
64	(40)	ADDRESS	4	PCTTMPIT	Temp inbound TCP buf q tail
68	(44)	SIGNED	4	PCTTBFCT	Count of allocated TBUFs
72	(48)	ADDRESS	4		
76	(4C)	BITSTRING	4	PCTNALET	ALET for NAT cell pool
80	(50)	BITSTRING	4	PCTPALET	ALET for PCL cell pool
84	(54)	BITSTRING	4	PCTTALET	ALET for TBUF cell pool
88	(58)	ADDRESS	4	PCTPCLAQ(0)	Active line PCL queue
88	(58)	ADDRESS	4	PCTPCLAH	Active line PCL head
92	(5C)	ADDRESS	4	PCTPCLAT	Active line PCL tail
96	(60)	ADDRESS	4	PCTPCLSQ(0)	Active Server PCL queue
96	(60)	ADDRESS	4	PCTPCLSH	Active Server PCL head

Table 396. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	ADDRESS	4	PCTPCLST	Active Server PCL tail
104	(68)	CHARACTER	16	PCTMBNAM	NPM Mail box name
		Line manager post flags. These flags correspond directly to the flags define in MLMSCNR1, MLMSCNR2, and MLMEVNTR and must be maintained in this order. OIL and NIL should be used to set the flags; Compare-and-swap is used in the line manager PCE to clear them.			
120	(78)	SIGNED	4	PCTMLMSC(0)	MLM SCAN flag bits
120	(78)	BITSTRING	1	PCTMLMR1	Corresponds to MLMSCNR1
121	(79)	BITSTRING	1	PCTMLMR2	Corresponds to MLMSCNR2
122	(7A)	BITSTRING	1	PCTMLMER	Corresponds to MLMEVNTR
123	(7B)	BITSTRING	1		Fourth byte of PCTMLMSC
124	(7C)	SIGNED	2	PCTNPATH	Number of paths
126	(7E)	SIGNED	2	PCTMXHOP	Maximum NJE hop count
128	(80)	SIGNED	2	PCTANINT	Default NJE retry interval (minutes)
130	(82)	SIGNED	2		Reserved for future use
132	(84)	SIGNED	4	(3)	Reserved for future use
		Pointers to private areas, work fields, etc. must be cleared on a hot start			
132	(84)	X'90'	0	PCTHOTC	"*" Start of area to clear on hot start
144	(90)	ADDRESS	1	PCTFLAG1	NPM process control flags
		1...		PCT1PATH	"B'10000000'" Full path required
		.1..		PCT1FPNP	"B'01000000'" Full path in progress
		..1.		PCT1NTUP	"B'00100000'" A NAT update has occured
		...1		PCT1NOT	"B'00010000'" Notify required
		.... 1...		PCT1NERR	"B'00001000'" NAT error detected
		.... .1..		PCT1NREC	"B'00000100'" NRECEIVE in progress
		.... ..1.		PCT1DOWN	"B'00000010'" NPM is down
145	(91)	ADDRESS	1	PCTFLAG2	Flags
		1...		PCT2NSUB	"B'10000000'" NSETSUBS recovery is in progress
		.1..		PCT2NSSS	"B'01000000'" NETSRV SUBSYS switch
		1		PCT2NSIM	"B'00000001'" NPMSIM flag (used for internal JES2 testing)
146	(92)	BITSTRING	6		Reserved for future use
152	(98)	DBL WORD	8	PCTFPTIM	Time last fullpath started
160	(A0)	ADDRESS	4	PCTPATHS	NPMNITPs used by full path
164	(A4)	ADDRESS	4	PCTWORKQ	Queue of nodes for full path to process
168	(A8)	ADDRESS	4	PCTNTQUQ	Unprocessed NTQ chain
172	(AC)	ADDRESS	4	PCTNTQPQ	Processed NTQ chain
176	(B0)	ADDRESS	4	PCTSONQ	Signon queue anchor
180	(B4)	ADDRESS	4	PCTRESPQ	Response queue anchor
184	(B8)	ADDRESS	4	PCTACTL	Active net line DCTs anchor
188	(BC)	ADDRESS	4	PCTRSTL	DCT line restart queue head

Table 396. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	ADDRESS	4	PCTRSTN	DCT NJE restart queue head
196	(C4)	ADDRESS	4	PCTINQ	BSC input buffer queue anchor
200	(C8)	ADDRESS	4	PCTVINQ	VTAM input buffer queue anchor
204	(CC)	ADDRESS	4	PCTMASDN	MAS line drain queue
208	(D0)	ADDRESS	4	PCTPRPIQ	I/J across MAS pending DCT
212	(D4)	SIGNED	2	PCTLNENM	Total number of lines that can do NJE
214	(D6)	SIGNED	2	PCTMAPLN	Length of notify maps
216	(D8)	ADDRESS	4	PCTMINX	Master notify map anchor
220	(DC)	ADDRESS	4	PCTMINXM	MAS master notify map addr
224	(E0)	ADDRESS	4	PCTWINX	Work notify map anchor
228	(E4)	ADDRESS	4	PCTMAPQ	Queue of available notify maps
232	(E8)	ADDRESS	4	PCTNSAAQ	Active net subnet ct head
	Addresses of MAS line DCTs for Nodal SPOOLing				
236	(EC)	SIGNED	4	(0)	
236	(EC)	SIGNED	4	PCTDCT1(0)	MAS line DCT address for members 1 through n
364	(16C)	SIGNED	4	PCTMTIME	Time of last NMAINT call
368	(170)	ADDRESS	4	PCTNTW	NPM $TRACE work area
	The following fields are used by routine NPDDMSG to build a symptom record.				
372	(174)	CHARACTER	44	PCTNCC	Current NCC record being received and processed
416	(1A0)	ADDRESS	4	PCTNTQ	Address of current NTQ being processed
420	(1A4)	ADDRESS	4	PCTEDCT	Address of DCT that is related to the error
424	(1A8)	ADDRESS	4	PCTENIT	Address of NIT that is related to the error
	The following fields are used by NPEVENT to set CES values for signons.				
432	(1B0)	DBL WORD	8	PCTTOD	Time of day clock value
440	(1B8)	SIGNED	4	PCTEVENT	Current CES value
	The following field contains NJE feature flags for features supported by this system				
444	(1BC)	SIGNED	4	PCTIFEAT	NJE feature flags supported by JES2
448	(1C0)	SIGNED	4	PCTNSFEA	NJE feature flags owned by NETSRV, not JES2
452	(1C4)	SIGNED	4	PCTTFEAT	Feature flags to be turned off (test purposes only)
452	(1C4)	X'138'	0	PCTHOTCL	"*-PCTHOTC" Length to be cleared
452	(1C4)	X'1C8'	0	PCTLEN	"*-PCT" Length of the PCT

Table 396. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Input error reason codes from all the NAT service routines. These reason codes are provided here to ensure that they are consistent from routine to routine. The reason codes are returned in register 0 when an input error has been detected in a service routine. Note that the RETURN code for input errors varies from routine to routine, but the reason codes associated with that return code are the same for all routines.			
452	(1C4)	X'0'	0	PCT$RC00	"0" A required control block address was not provided
452	(1C4)	X'4'	0	PCT$RCN1	"4" The primary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'8'	0	PCT$RCM1	"8" The primary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'C'	0	PCT$RCN2	"12" The 2ndary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'10'	0	PCT$RCM2	"16" The 2ndary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'14'	0	PCT$RCRS	"20" The resistance specified in the prototype NAT was invalid
452	(1C4)	X'18'	0	PCT$RCDP	"24" The primary and secondary node and member of the prototype were identical ($NATADD only)
452	(1C4)	X'1C'	0	PCT$RCST	"28" The status of the NAT was not one of ACTIVE, INACTIVE, or HELD, or was invalid for that NAT

Table 397. Cross Reference for $PCT

Name	Offset	Hex Tag
PCT	0	
PCT$RCDP	1C4	18
PCT$RCM1	1C4	8
PCT$RCM2	1C4	10
PCT$RCN1	1C4	4
PCT$RCN2	1C4	C
PCT$RCRS	1C4	14
PCT$RCST	1C4	1C
PCT$RC00	1C4	0
PCTACTL	B8	
PCTANINT	80	
PCTDCT1	EC	
PCTEDCT	1A4	
PCTENIT	1A8	
PCTEVENT	1B8	
PCTFLAG1	90	
PCTFLAG2	91	
PCTFPTIM	98	
PCTHOTC	84	90
PCTHOTCL	1C4	138
PCTID	0	D7C3E340

Table 397. Cross Reference for $PCT (continued)

Name	Offset	Hex Tag
PCTIFEAT	1BC	
PCTINQ	C4	
PCTLEN	1C4	1C8
PCTLNENM	D4	
PCTMAPLN	D6	
PCTMAPQ	E4	
PCTMASDN	CC	
PCTMBNAM	68	E2E8E2D1
PCTMINX	D8	
PCTMINXM	DC	
PCTMLMER	7A	
PCTMLMR1	78	
PCTMLMR2	79	
PCTMLMSC	78	
PCTMTIME	16C	
PCTMXHOP	7E	
PCTNALET	4C	
PCTNATAH	8	
PCTNATAT	C	
PCTNATHH	18	
PCTNATHT	1C	
PCTNATNH	20	
PCTNATNT	24	
PCTNATQS	24	8
PCTNATUH	10	
PCTNATUT	14	
PCTNCC	174	
PCTNPATH	7C	
PCTNSAAQ	E8	
PCTNSFEA	1C0	
PCTNTQ	1A0	
PCTNTQPQ	AC	
PCTNTQUQ	A8	
PCTNTW	170	
PCTPALET	50	
PCTPATHS	A0	
PCTPCLAH	58	
PCTPCLAQ	58	
PCTPCLAT	5C	
PCTPCLSH	60	
PCTPCLSQ	60	
PCTPCLST	64	
PCTPRPIQ	D0	
PCTRESPQ	B4	
PCTRSTL	BC	
PCTRSTN	C0	

Table 397. Cross Reference for $PCT (continued)

Name	Offset	Hex Tag
PCTSONQ	B0	
PCTTALET	54	
PCTTBFCT	44	
PCTTFEAT	1C4	
PCTTINQ	2C	
PCTTINQH	2C	
PCTTINQT	30	
PCTTMPIH	3C	
PCTTMPIQ	3C	
PCTTMPIT	40	
PCTTOD	1B0	
PCTTRCPH	34	
PCTTRCPQ	34	
PCTTRCPT	38	
PCTTTOL	28	
PCTTTOLD	28	15180
PCTVER	4	
PCTVERN	4	3
PCTVINQ	C8	
PCTWINX	E0	
PCTWORKQ	A4	
PCT1DOWN	90	2
PCT1FPNP	90	40
PCT1NERR	90	8
PCT1NOT	90	10
PCT1NREC	90	4
PCT1NTUP	90	20
PCT1PATH	90	80
PCT2NSIM	91	1
PCT2NSSS	91	40
PCT2NSUB	91	80

$PCTAB information

$PCTAB programming interface information

$PCTAB is a programming interface.

$PCTAB heading information

Common name: PC table entry

Macro ID: $PCTAB

DSECT name: PCRT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes:	Subpool: N/A Key: N/A Residency: These table entries are part of the HASJES20 load module and are located below 16M. Real storage can be anywhere.
Size:	See PCRTELEN
Created by:	$PCTAB macro expantion in HASPTAB
Pointed to by:	MCTPCRTU field of the $MCT data area MCTPCRTH field of the $MCT data area
Serialization:	None required
Function:	This DSECT maps entries in the PC routine table pairs which describe JES2 main task and user address space PC routines.

$PCTAB mapping

Table 398. Structure PCRT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCRT	
0	(0)	CHARACTER	8	PCRTNAME	PC routine name
8	(8)	CHARACTER	24	PCRTDESC	PC routine description
32	(20)	BITSTRING	1	PCRTFLG1	PC table flags
		1...		PCRT1PCU	"B'10000000'" Entry is USER PC routine
		.1..		PCRT1PCH	"B'01000000'" Entry is HASP PC routine
		..1.		PCRT1SLX	"B'00100000'" System LX to be used
		...1		PCRT1CKA	"B'00010000'" CALLKEY=ANY specified
33	(21)	BITSTRING	1	PCRTFLG2	PC address locations
		EQU B'000000xx' ENTRYPT field in PADDR			
		1...		PCRT2EPU	"B'10000000'" ENTRYPT field in the UCT
		.1..		PCRT2EPM	"B'01000000'" ENTRYPT field in MODMAP
		..1.		PCRT2EPC	"B'00100000'" ENTRYPT field in CADDR
		...1		PCRT2EPD	"B'00010000'" ENTRYPT field in UCADDR
		.... 1...		PCRT2EPN	"B'00001000'" ENTRYPT field is RTN name
		.... .1..		PCRT2EAV	"B'00000100'" ENTRYPT field is ADDR/VCON
34	(22)	BITSTRING	1	PCRTFLG3	PC routine flags
		1...		PCRT3SUP	"B'10000000'" Routine runs in supervisor state
		EQU B'x000000x' RECOVPT field in PADDR			
		.1..		PCRT3RVU	"B'01000000'" RECOVPT filed in the UCT
		..1.		PCRT3RVM	"B'00100000'" RECOVPT field in MODMAP
		...1		PCRT3RVC	"B'00010000'" RECOVPT field in CADDR
		.... 1...		PCRT3RVD	"B'00001000'" RECOVPT field in UCADDR
		.... .1..		PCRT3RVN	"B'00000100'" RECOVPT field is RTN name
		.... ..1.		PCRT3RAV	"B'00000010'" RECOVPT field is ADDR/VCON

Table 398. Structure PCRT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
35	(23)	ADDRESS	1	PCRTKEY	PC routine run key
36	(24)	ADDRESS	4	PCRTENTY	Offset/Addr ENTRYPT field
40	(28)	ADDRESS	4	PCRTRECV	Offset/Addr RECOVPT field
44	(2C)	ADDRESS	2	PCRTADDR	Offset in xADDR/UxADDR to store PC #
46	(2E)	ADDRESS	1	PCRTNAML	Length-1 for name in PCRTNAME
47	(2F)	ADDRESS	1	PCRTDESL	Length-1 for description in PTABDESC
48	(30)	ADDRESS	4	PCRTPCNM	PC number for this service
52	(34)	CHARACTER	8	PCRTENTN	ENTRYPT routine name
60	(3C)	CHARACTER	8	PCRTRECN	RECOVPT routine name
68	(44)	BITSTRING	4		RESERVED
72	(48)	SIGNED	4	(0)	Align PCRT entry
72	(48)	X'48'	0	PCRTELEN	"*-PCRT" Length of PCRT entry DSECT

Table 399. Cross Reference for $PCTAB

Name	Offset	Hex Tag
PCRT	0	
PCRTADDR	2C	
PCRTDESC	8	
PCRTDESL	2F	
PCRTELEN	48	48
PCRTENTN	34	40404040
PCRTENTY	24	
PCRTFLG1	20	
PCRTFLG2	21	
PCRTFLG3	22	
PCRTKEY	23	
PCRTNAME	0	
PCRTNAML	2E	
PCRTPCNM	30	
PCRTRECN	3C	40404040
PCRTRECV	28	
PCRT1CKA	20	10
PCRT1PCH	20	40
PCRT1PCU	20	80
PCRT1SLX	20	20
PCRT2EAV	21	4
PCRT2EPC	21	20
PCRT2EPD	21	10
PCRT2EPM	21	40
PCRT2EPN	21	8
PCRT2EPU	21	80
PCRT3RAV	22	2
PCRT3RVC	22	10
PCRT3RVD	22	8
PCRT3RVM	22	20

Table 399. Cross Reference for $PCTAB (continued)

Name	Offset	Hex Tag
PCRT3RVN	22	4
PCRT3RVU	22	40
PCRT3SUP	22	80

$PDDB information

$PDDB programming interface information

$PDDB is a programming interface.

$PDDB heading information

Common name: JES2 Peripheral Data Definition Block

Macro ID: $PDDB

DSECT name: PDB

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: Same as the $IOT that contains the PDDB
Key: Same as the $IOT that contains the PDDB
Residency: See $IOT

Size: See PDBLEN1 and PDBLENM

Created by: $PDBBLD creates a PDDB within an IOT. Storage is obtained when the IOT in which it resides is created. See $IOT for additional information.

Pointed to by: IOTPDDB field of the $IOT data area contains the offset from the beginning of the IOT to the first PDDB within the IOT.
Various fields in the processor work areas.
Various fields in the exit parameter lists ($XPL).

Serialization: JES2 reentrancy techniques for PDDBs in the JES2 main task environment. SJB lock for PDDBs in the USER environment.

Function: The Peripheral Data Set Definition Block ($PDDB) contains or points to all characteristics, known at the time of creation of the PDDB, of each sybsystem data set known to JES2. PDDBs are contained in the Input/Output Table ($IOT), which is a spool resident JES2 job control block.
There is a PDDB for each instance of a spool data set. An instance is defined as a set of characteristics combined with a set of data. For example, a single data set may have 5 JCL output cards and 5 PDDBs will be created.

$PDDB mapping

Table 400. Structure PDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PDB	HASP PDDB DSECT
0	(0)	BITSTRING	1	PDBFLAG1(0)	Flag byte
1	(1)	BITSTRING	1	PDBRECFM	Data set record format
2	(2)	SIGNED	2	PDBLRECL	Maximum data set LRECL
4	(4)	BITSTRING	4	PDBMTTR	Starting track address of data set
8	(8)	BITSTRING	4	PDBMTTRL	Last track address of DS
12	(C)	SIGNED	4	PDBDSKEY	Data set number of data set

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	2	PDBSIZE	Size of a PDDB
18	(12)	CHARACTER	1	PDBCLASS	Output class of data set
19	(13)	ADDRESS	1	PDBCOPYS	Copies of this data set
20	(14)	SIGNED	4	PDBDEST(0)	Data set output dest
20	(14)	SIGNED	2	PDBDNODE	Node number (binary)
22	(16)	SIGNED	2	PDBDRMT	Remote number (binary)
24	(18)	CHARACTER	8	PDBUSER(0)	Dataset dest USERID/rmtid
32	(20)	BITSTRING	1		Reserved for future use
	PDDB version number Version 0 - Old style PDDB of length PDBLEN1 Version 1 - Newer style PDDD of length PDBLENM				
33	(21)	BITSTRING	1	PDBVER	PDDB Version number - default is version 1
33	(21)	X'0'	0	PDBVER0	"0" Small size PDDB
33	(21)	X'1'	0	PDBVER1	"1" Larger size PDDB
34	(22)	BITSTRING	1	PDBFLAG2	Second flag byte
35	(23)	BITSTRING	1	PDBCPTN	Compaction table number
36	(24)	SIGNED	4	PDBRECCT	Data set record count
40	(28)	SIGNED	4	PDBPGCT	Page data page count
44	(2C)	SIGNED	4	PDBBYTCT	Actual byte count
48	(30)	CHARACTER	8	PDBFORMS(0)	Eight-byte forms number
48	(30)	X'30'	0	PDBLOGDD	"PDBFORMS,8,C'C'" DD name of logging dataset (see PDBYLOG)
56	(38)	CHARACTER	4	PDBFCB(0)	Four-byte 3211 FCB id
60	(3C)	CHARACTER	4	PDBUCS(0)	Four-byte 1403 or 3211 UCS id
64	(40)	CHARACTER	8	PDBDSID(0)	3540 dataset id
64	(40)	X'40'	0	PDBWTRID	"PDBDSID,,C'C'" 8-byte output writer id
72	(48)	BITSTRING	8	PDBRBA	8-byte checkpoint record
THE FOLLOWING FIELDS MUST BE KEPT TOGETHER FOR SJF UPDATE					
80	(50)	CHARACTER	4	PDBCHAR1(0)	N/I Printer xlate tab 1
84	(54)	CHARACTER	4	PDBCHAR2(0)	N/I Printer xlate tab 2
88	(58)	CHARACTER	4	PDBCHAR3(0)	N/I Printer xlate tab 3
92	(5C)	CHARACTER	4	PDBCHAR4(0)	N/I Printer xlate tab 4
END OF THE FIELDS NEEDED FOR SJF UPDATE					
96	(60)	CHARACTER	4	PDBFLASH(0)	N/I Printer flash cart id
100	(64)	CHARACTER	4	PDBMODF(0)	N/I Printer copy mod image
104	(68)	BITSTRING	1	PDBFLSHC	N/I printer # flash copies
105	(69)	BITSTRING	1	PDBMODFT	N/I printer tbl ref char
106	(6A)	BITSTRING	8	PDBCOPYG(0)	N/I Printer copy groups
114	(72)	BITSTRING	2	PDBCKPTP	Nr of logical page/ckpt
116	(74)	BITSTRING	2	PDBCKPTL	Nr of lines/logical page
118	(76)	BITSTRING	1	PDBFLAG3	The third flag byte
119	(77)	BITSTRING	1	PDBFLAGY	Symbol substitution flags for DD * and DD DATA

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	CHARACTER	2	PDBID(0)	Output id qualifier for JOE
122	(7A)	CHARACTER	8	PDBNAME(0)	Output name for this PDDB
132	(84)	SIGNED	4	PDBCRTME	Create Time
136	(88)	SIGNED	4	PDBSEGID	Segment identifier
140	(8C)	SIGNED	4	PDBGGTOK	Generic grouping token
	WHEN USED AS A SPIN PDDB				
144	(90)	ADDRESS	4	PDBPLIOT	Pointer to normal IOT place holder
148	(94)	SIGNED	4	PDBPLOFF	The offset to related PDDB
	WHEN USED AS A PLACE HOLDER PDDB				
144	(90)	SIGNED	4	PDBSPTTR	MTTR of spin IOT
152	(98)	CHARACTER	4	PDBSSOFM(0)	Save forms at allocation
156	(9C)	CHARACTER	8	PDBPNAME(0)	Proc step name
164	(A4)	CHARACTER	8	PDBSNAME(0)	Step name
172	(AC)	CHARACTER	8	PDBDDNAM(0)	DD name
180	(B4)	CHARACTER	8	PDBPRMD(0)	PRMODE name
188	(BC)	BITSTRING	80	PDBTOKEN(0)	Security tkn
268	(10C)	CHARACTER	8	PDBCRUID(0)	Creator userid
276	(114)	CHARACTER	8	PDBSECLB(0)	Security label
284	(11C)	BITSTRING	1	PDBLINCT	Dataset line cnt (LINECNT)
285	(11D)	BITSTRING	1	PDBINDEX	3211 FCB index value
286	(11E)	BITSTRING	1	PDBFUNC	3525 function byte
287	(11F)	BITSTRING	1	PDBPRIO	Data set priority
	All PDDB flags should be cleared on return from exit 47 in module HASPNSR.				
288	(120)	BITSTRING	1	PDBFLAG4	The fourth flag byte
289	(121)	BITSTRING	1	PDBFLAG5	The fifth flag byte
290	(122)	BITSTRING	1	PDBFLAG6	The sixth flag byte
291	(123)	BITSTRING	1	PDBFLAG7	The seventh flag byte
292	(124)	SIGNED	4	PDBSWBOT	Starting trk output SWBs
296	(128)	BITSTRING	8	PDBOUTOK(0)	Data sets output SWB token
304	(130)	CHARACTER	8	PDBCPTNM(0)	Compact table name
312	(138)	SIGNED	1	PDBSTPN	Job step number where SYSOUT data set allocated
313	(139)	BITSTRING	1	PDBFLAGA	Tenth flag byte
314	(13A)	SIGNED	2		Reserved for future use
316	(13C)	SIGNED	4	PDBNDHTR	MTTR of dataset header
320	(140)	BITSTRING	1	PDBFLAG8	Eighth flag byte
321	(141)	BITSTRING	1	PDBFLAG9	Ninth flag byte
322	(142)	SIGNED	2	PDBDSINS	Multi-dest instance count
324	(144)	SIGNED	4		Reserved for future use
328	(148)	BITSTRING	6	PDBINDXM	MQTR of 1st data set index
334	(14E)	BITSTRING	6	PDBCATLM	MQTR of data set catalog
340	(154)	CHARACTER	44	PDBDSNAM(0)	Data set name

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	SIGNED	4	(0)	
384	(180)	X'180'	0	PDBLEN1	"*-PDB" Base PDDB length (should never change)
PDDB version 1 extension					
384	(180)	BITSTRING	6	PDBMQTR	Starting track address of data set (MQTR)
390	(186)	BITSTRING	6	PDBMQTRL	Last track address of DS (MQTR)
396	(18C)	BITSTRING	6	PDBSPQTR	MQTR of spin IOT
402	(192)	BITSTRING	6	PDBNDQTR	MQTR of dataset header
408	(198)	BITSTRING	6	PDBSWBQT	MQTR Starting trk outp SWBs
414	(19E)	BITSTRING	6	PDBDLQTR	MQTR of data set LVL info
420	(1A4)	SIGNED	4	PDBUSER1	User field #1
424	(1A8)	SIGNED	4	PDBUSER2	User field #2
428	(1AC)	BITSTRING	52		Reserved for future use
480	(1E0)	SIGNED	4	(0)	
480	(1E0)	X'1E0'	0	PDBLENM	"*-PDB" Maximum PDDB length (can change rel to rel)
PDBFLAG1					
		1...		PDB1NEWS	"B'10000000'" JESNEWS DATA SET
		.1..		PDB1NULL	"B'01000000'" THIS IS A NULL PDDB
		..1.		PDB1LOG	"B'00100000'" THIS PDDB IS FOR THE HASP JOB LOG
		...1		PDB1MOC	"B'00010000'" Multiple Output Characteristic(MOC) Spin data set indicator
		.... 1...		PDB1NSOT	"B'00001000'" DATA SET IS NOT FOR SYSOUT
		.... .1..		PDB1SPIN	"B'00000100'" THIS PDDB IS FOR A SPIN DATA SET
		.... ..1.		PDB1USER	"B'00000010'" This PDDB is for a user
		1		PDB1DAUG	"B'00000001'" This is a daughter spin IOT
PDBFLAG2					
		1...		PDB2TCEL	"B'10000000'" DATA SET IS TRAKCELL'ED
		.1..		PDB2OPTJ	"B'01000000'" OPTCD=J SPECIFIED
		..1.		PDB2BRST	"B'00100000'" BURST=YES SPECIFIED
		...1		PDB2PRIO	"B'00010000'" Installation set JOE prio. Or dataset re-loaded.
		.... 1...		PDB2JFMS	"B'00001000'" PDBFORMS SET FROM JCTFORMS
		.... .1..		PDB2HLDS	"B'00000100'" HOLD= SPECIFIED ON DD
		.... ..1.		PDB2PSOR	"B'00000010'" PSO ROUTE CHANGE
		1		PDB2FOLD	"B'00000001'" JFCFOLD WAS SPECIFIED
PDBFLAG3					
		1...		PDB3PLHD	"B'10000000'" PLACE HOLDER PDDB
		.1..		PDB3PSOC	"B'01000000'" PSO CLASS CHANGE

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PDBLNCTF	"B'00100000'" LINECT SPECIFIED
		...1		PDB3STAT	"B'00010000'" JOB STATISTICS IN JOB LOG
		.... 1...		PDB3LINE	"B'00001000'" DATA SET HAS LINE MODE RECORDS
		.... .1..		PDB3PAGE	"B'00000100'" DATA SET HAS PAGE DATA RECORDS
		.... ..1.		PDB3SP2	"B'00000010'" FORCED DOUBLE SPACING
		1		PDB3SP1	"B'00000001'" FORCED SINGLE SPACING
	PDBFLAG4				
		1...		PDB4OUTJ	"B'10000000'" PDDB IS REFERENCE BY OUTPUT JCL
		.1..		PDB4BRST	"B'01000000'" BURST (Y OR N) IN DD CARD
		..1.		PDB4JFCB	"B'00100000'" MERGE JFCB INTO THIS PDDB
		...1		PDB4SYSN	"B'00010000'" SYSTEM GENERATED NAME
		.... 1...		PDB4OCLS	"B'00001000'" CLASS SET FROM OUTPUT JCL
		.... .1..		PDB4OCPY	"B'00000100'" COPY SET FROM OUTPUT JCL
		.... ..1.		PDBPLNUL	"B'00000010'" NULLIFIED PLACEHOLDER PDDB
		1		PDB4SDBT	"B'00000001'" FORCE SDB TO TRACKCELL
	PDBFLAG5				
		1...		PDB5OPEN	"B'10000000'" DATASET IS OPEN FOR OUTPUT
		.1..		PDB5NUNK	"B'01000000'" Token is NJE unknown user
		..1.		PDB5SPAU	"B'00100000'" DATA SET FAILED SPOOL OFFLOAD AUTHORIZATION
		...1		PDB5PTKN	"B'00010000'" Token to be propagated
		.... 1...		PDB5AODS	"B'00001000'" Use abnormal disp for spin
		.... .1..		PDB5XBM2	"B'00000100'" Data set is SYSIN for XBM/2
		.... ..1.		PDB5PRGA	"B'00000010'" $PURGE auth check required
		1		PDB5SAFD	"B'00000001'" $PURGE auth check footprint
	PDBFLAG6				
		..1.		PDB6AOSO	"B'00100000'" ABNORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
480	(1E0)	X'10'	0	PDB6AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
480	(1E0)	X'8'	0	PDB6AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
480	(1E0)	X'4'	0	PDB6AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
480	(1E0)	X'2'	0	PDB6AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
480	(1E0)	X'1'	0	PDB6AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
480	(1E0)	X'1F'	0	PDB6AODA	"$ODANYWP" CHECK ALL BIT SETTINGS

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	PDBFLAG7				
		1...		PDB7DSWB	"B'10000000'" OUTPUT SWB to be deleted
		.1..		PDB7HOPX	"B'01000000'" SYSTEM HOLD DATASET DUE TO HOP COUNT EXCESSION
		..1.		PDB7NOSO	"B'00100000'" NORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
480	(1E0)	X'10'	0	PDB7NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
480	(1E0)	X'8'	0	PDB7NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
480	(1E0)	X'4'	0	PDB7NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
480	(1E0)	X'2'	0	PDB7NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
480	(1E0)	X'1'	0	PDB7NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
480	(1E0)	X'1F'	0	PDB7NODA	"$ODANYWP" CHECK ALL BIT SETTINGS
	PDBFLAG8				
		1...		PDB8DSID	"B'10000000'" DSID IN PDBDSID
		.1..		PDB8FORM	"B'01000000'" FORM was explicitly coded either on the DD, OUTPUT JCL or inherited from JOBPARM FORM=
		..1.		PDB8UNDF	"B'00100000'" Userid is undefined
		...1		PDB8NREU	"B'00010000'" THE SPIN IOT REPRESENTED BY THIS PLACE HOLDER PDDB IS NOT REUSABLE
		.... 1...		PDB8UPRI	"B'00001000'" PRTY was specified on the OUTPUT JCL statement
		.... .1..		PDB8UNAL	"B'00000100'" SYSOUT data set has been unallocated (not set for any special data sets)
		.... ..1.		PDB8SYIN	"B'00000010'" SYSIN data set (from input services)
		1		PDB8RERT	"B'00000001'" Dataset was rerouted by SYSOUT receiver
	PDBFLAG9 The following flag is set only at sysout data set allocation time and later used in setting the corresponding bit JOE2IPAD in $JOE during output grouping. Subsequent processing will only use the $JOE flag.				
		1...		PDB9IPAD	"B'10000000'" Dataset's dest in IP-format
	PDB9CTKN indicates that a client token was returned as part of the dynamic allocation for the dataset. PDB9CTKN is only turned on for the first data set for MOCHA. PDB9CTKN is never turned off.				
		.1..		PDB9CTKN	"B'01000000'" Client token returned for data set
		..1.		PDB9JESL	"B'00100000'" SPIN-ANY spin data set
		...1		PDB9SALC	"B'00010000'" Separate track group map used to create data set
		.... 1...		PDB9TRC	"B'00001000'" TRC was specified on the OUTPUT JCL statement
		.... .1..		PDB9CRTM	"B'00000100'" PDBCRTME is from JOE (spool reload)

Table 400. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		PDB9ONOT	"B'00000010'" Issue NOTIFY from HOPE
		1		PDB9INDX	"B'00000001'" Data set is indexed
	PDBFLAGA				
		1...		PDBARCNP	"B'10000000'" Received this data set as non-printable SYSOUT that should transmit via NJE
		.1..		PDBAVDS	"B'01000000'" Volatile dataset (data can be appended)
		..1.		PDBAENCR	"B'00100000'" Contained dataset is encrypted
		...1		PDBACOMP	"B'00010000'" Contained dataset is compressed
		.... 1...		PDBABOTH	"B'00001000'" Contained dataset is encrypted and compressed
	PDBFLAGY PDBFLAGY flag byte is used to control instream symbol substitution. PDBYSCTL defines the substitution control bits. PDBYJCL/PDBYEXEC/PDBYCNVT should be compared for equality, not as individual bits.				
		111.		PDBYSCTL	"B'11100000'" Substitution type: 000 - no substitution
		..1.		PDBYJCL	"B'00100000'" SYMBOLS=JCLONLY
		.1..		PDBYEXEC	"B'01000000'" SYMBOLS=EXECSYS
		.11.		PDBYCNVT	"B'01100000'" SYMBOLS=CNVTSYS
		...1		PDBYLOG	"B'00010000'" substitution logging requested
	DATA SET KEYS FOR SPECIAL DATA SETS				
480	(1E0)	X'1'	0	PDBINJCL	"1" INPUT JCL STATEMENTS
480	(1E0)	X'2'	0	PDBOUHJL	"2" HASP JOB LOG
480	(1E0)	X'3'	0	PDBOUJCI	"3" JCL IMAGES
480	(1E0)	X'4'	0	PDBOUMSG	"4" SYSTEM MESSAGES
480	(1E0)	X'5'	0	PDBINTXT	"5" INTERNAL TEXT
480	(1E0)	X'6'	0	PDBINJNL	"6" JOB JOURNAL
480	(1E0)	X'7'	0	PDBSWABL	"7" SWA blocks
480	(1E0)	X'8'	0	PDBEVTLG	"8" EVENTLOG
480	(1E0)	X'64'	0	PDBUISKY	"100" INITIAL DATA SET KEY NUMBER

Table 401. Cross Reference for $PDDB

Name	Offset	Hex Tag
PDB	0	
PDBABOTH	1E0	8
PDBACOMP	1E0	10
PDBAENCR	1E0	20
PDBARCNP	1E0	80
PDBAVDS	1E0	40
PDBBYTCT	2C	0
PDBCATLM	14E	0

Table 401. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDBCHAR1	50	5C5C5C5C
PDBCHAR2	54	5C5C5C5C
PDBCHAR3	58	5C5C5C5C
PDBCHAR4	5C	5C5C5C5C
PDBCKPTL	74	FFFF
PDBCKPTP	72	FFFF
PDBCLASS	12	C1
PDBCOPYG	6A	0
PDBCOPYS	13	
PDBCPTN	23	FF
PDBCPTNM	130	0
PDBCRTME	84	0
PDBCRUID	10C	40404040
PDBDDNAM	AC	40404040
PDBDEST	14	
PDBDLQTR	19E	0
PDBDNODE	14	0
PDBDRMT	16	0
PDBDSID	40	40404040
PDBDSINS	142	0
PDBDSKEY	C	0
PDBDSNAM	154	40404040
PDBEVTLG	1E0	8
PDBFCB	38	5C5C5C5C
PDBFLAGA	139	0
PDBFLAGY	77	0
PDBFLAG1	0	40
PDBFLAG2	22	0
PDBFLAG3	76	0
PDBFLAG4	120	0
PDBFLAG5	121	0
PDBFLAG6	122	0
PDBFLAG7	123	0
PDBFLAG8	140	0
PDBFLAG9	141	0
PDBFLASH	60	5C5C5C5C
PDBFLSHC	68	FF
PDBFORMS	30	0
PDBFUNC	11E	0
PDBGGTOK	8C	0
PDBID	78	0
PDBINDEX	11D	0
PDBINDXM	148	0
PDBINJCL	1E0	1
PDBINJNL	1E0	6
PDBINTXT	1E0	5

Table 401. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDBLENM	1E0	1E0
PDBLEN1	180	180
PDBLINCT	11C	0
PDBLNCTF	1E0	20
PDBLOGDD	30	30
PDBLRECL	2	0
PDBMODF	64	5C5C5C5C
PDBMODFT	69	0
PDBMQTR	180	0
PDBMQTRL	186	0
PDBMTTR	4	0
PDBMTTRL	8	0
PDBNAME	7A	0
PDBNDHTR	13C	0
PDBNDQTR	192	0
PDBOUHJL	1E0	2
PDBOUJCI	1E0	3
PDBOUMSG	1E0	4
PDBOUTOK	128	0
PDBPGCT	28	0
PDBPLIOT	90	
PDBPLNUL	1E0	2
PDBPLOFF	94	0
PDBPNAME	9C	40404040
PDBPRIO	11F	0
PDBPRMD	B4	40404040
PDBRBA	48	0
PDBRECCT	24	0
PDBRECFM	1	0
PDBSECLB	114	40404040
PDBSEGID	88	0
PDBSIZE	10	
PDBSNAME	A4	40404040
PDBSPQTR	18C	0
PDBSPTTR	90	0
PDBSSOFM	98	0
PDBSTPN	138	0
PDBSWABL	1E0	7
PDBSWBOT	124	0
PDBSWBQT	198	0
PDBTOKEN	BC	0
PDBUCS	3C	5C5C5C5C
PDBUISKY	1E0	64
PDBUSER	18	0
PDBUSER1	1A4	0
PDBUSER2	1A8	0

Table 401. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDBVER	21	1
PDBVER0	21	0
PDBVER1	21	1
PDBWTRID	40	40
PDBYCNVT	1E0	60
PDBYEXEC	1E0	40
PDBYJCL	1E0	20
PDBYLOG	1E0	10
PDBYSCTL	1E0	E0
PDB1DAUG	1E0	1
PDB1LOG	1E0	20
PDB1MOC	1E0	10
PDB1NEWS	1E0	80
PDB1NSOT	1E0	8
PDB1NULL	1E0	40
PDB1SPIN	1E0	4
PDB1USER	1E0	2
PDB2BRST	1E0	20
PDB2FOLD	1E0	1
PDB2HLDS	1E0	4
PDB2JFMS	1E0	8
PDB2OPTJ	1E0	40
PDB2PRIO	1E0	10
PDB2PSOR	1E0	2
PDB2TCEL	1E0	80
PDB3LINE	1E0	8
PDB3PAGE	1E0	4
PDB3PLHD	1E0	80
PDB3PSOC	1E0	40
PDB3SP1	1E0	1
PDB3SP2	1E0	2
PDB3STAT	1E0	10
PDB4BRST	1E0	40
PDB4JFCB	1E0	20
PDB4OCLS	1E0	8
PDB4OCPY	1E0	4
PDB4OUTJ	1E0	80
PDB4SDBT	1E0	1
PDB4SYSN	1E0	10
PDB5AODS	1E0	8
PDB5NUNK	1E0	40
PDB5OPEN	1E0	80
PDB5PRGA	1E0	2
PDB5PTKN	1E0	10
PDB5SAFD	1E0	1
PDB5SPAU	1E0	20

Table 401. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDB5XBM2	1E0	4
PDB6AODA	1E0	1F
PDB6AODH	1E0	4
PDB6AODK	1E0	2
PDB6AODL	1E0	1
PDB6AODP	1E0	10
PDB6AODW	1E0	8
PDB6AOSO	1E0	20
PDB7DSWB	1E0	80
PDB7HOPX	1E0	40
PDB7NODA	1E0	1F
PDB7NODH	1E0	4
PDB7NODK	1E0	2
PDB7NODL	1E0	1
PDB7NODP	1E0	10
PDB7NODW	1E0	8
PDB7NOSO	1E0	20
PDB8DSID	1E0	80
PDB8FORM	1E0	40
PDB8NREU	1E0	10
PDB8RERT	1E0	1
PDB8SYIN	1E0	2
PDB8UNAL	1E0	4
PDB8UNDF	1E0	20
PDB8UPRI	1E0	8
PDB9CRTM	1E0	4
PDB9CTKN	1E0	40
PDB9INDX	1E0	1
PDB9IPAD	1E0	80
PDB9JESL	1E0	20
PDB9ONOT	1E0	2
PDB9SALC	1E0	10
PDB9TRC	1E0	8

$PERFCB information

$PERFCB heading information

Common name: Performance data anchor CB

Macro ID: $PERFCB

DSECT name: PERFCB INITSTAT QSUCB PPB PTPB WTCB PSCBD EVENT PCBCKIO PCBSBST PMIG

Owning component: JES2 (SC1BH)

Eye-catcher ID: PCB
Offset: PCBID
Length: L'PCBID

Storage attributes: Subpool: 24 (Except PPB which are subpool 25)
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See PCBLEN for PERFCB
L'INITRENT for INITSTAT
QSUCBLEN for QSUCB
PPBLEN for PPB
PTPBLEN for PTPB
WTCBLEN for WTCB
PSCBLEN for PSCBD
EVNTLEN for EVENT
PCBCKIOL for PCBCKIO
PCBSBSTL for PCBSBST
PMIGLEN for PMIG

Created by: HASPIRA for the PCB and INITSTAT
HASPDYN for the PPB and PTPB
HASPNUC for the QSUCB, WTCB and PSCB
HASPSUBS for the PCBSBST
HASPSPOL for the PMIG

Pointed to by: PERFCB
- $PERFCB field of the HCT data area
INITSTAT
- PCBINITS field of the PERFCB data area
QSUCB
- PCBQSUHD field of the PERFCB data area
- PCBQSUTL field of the PERFCB data area
- PCBQSNDX field of the PERFCB data area
- QSUCBANX field of the QSUCB data area
- QSUCBUNX field of the QSUCB data area
- QSUCBUPR field of the QSUCB data area
PPB
- Prefix area in front of every PCE
PTPB
- PCBPTPB field of the PERFCB data area
- PPBPTPB field of the PPB data area
- PCBNEXT field of the PTPB data area
WTCB
- PTPBWTCB field of the PTPB data area
- WTCBNEXT field of the WTCB data area
PSCBD
- QTCBPSCB field of the WTCB data area
- PSCBNEXT field of the PSCBD data area
EVENT
- PCBEVNTF field of the PERFCB data area
- PCBEVNTL field of the PERFCB data area
- EVNTNEXT field of the EVENT data area
PCBSBST
- PCBSBQUE field of the PERFCB data area
PMIG
- PCBMIGR field of the PERFCB data area

Serialization: Normal PCE dispatch serialization

Function: The $PERFCB is the anchor control block for performance related data colected by JES2. This macro also contains DSECTs that describe areas that the PERFCB points to.

$PERFCB mapping

Table 402. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Performance anchor CB
0	(0)	CHARACTER	4	PCBID	Control block id
4	(4)	ADDRESS	1	PCBVERSN	Control block version
4	(4)	X'2'	0	PCBVERN	"2" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	PCBWORK	Double word work area

Table 402. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JES2 Initialization performance information. PCBINITS points to a vector of entries, one per 'initialization' routine. The last entry in the list is all zero. The DSECT maps the data within each vector element. All times are in micro-seconds.			
16	(10)	ADDRESS	4	PCBINITS	Pointer to the init stats

Table 403. Structure INITSTAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INITSTAT	, DSECT for initstats
0	(0)	CHARACTER	8	INITRNAM	Routine name
8	(8)	BITSTRING	8	INITRTIM	Run time for routine
16	(10)	BITSTRING	8	INITRCPU	CPU time for routine
16	(10)	X'0'	0	INITRENT	"INITSTAT,*-INITSTAT" Equate for entire entry

Table 404. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
		$QSUSE wait statistics. PCBQSNDX is a vector that of $QSUSE statistics control blocks. Each element on the list represents a $QSUSE macro that was called when JES2 did not own the CKPT data set queues. Each vector slot corresponds to a hashed address where the $QSUSE was invoked. PCBQSUHC is another chain through the same control blocks, sorted with the most frequently used $QSUSE entries first.			
20	(14)	ADDRESS	4	PCBQSUHD	Head for use sorted chain
24	(18)	ADDRESS	4	PCBQSUTL	Tail for use sorted chain
28	(1C)	ADDRESS	4	PCBQSNDX(32)	Index into address chain
156	(9C)	ADDRESS	4		Reserved
160	(A0)		1	PCBQSLRS	STCKE time at last reset
176	(B0)	DBL WORD	8	PCBQSINT	Interval since reset (microseconds)

Table 405. Structure QSUCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QSUCB	, QSUSE performance CB
0	(0)	CHARACTER	4	QSUCBID	Eyecatcher
4	(4)	BITSTRING	1	QSUCBVRN	Version number
4	(4)	X'1'	0	QSUCBVR	"1" Current version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	QSUCBANX	Next entry address chain
12	(C)	ADDRESS	4	QSUCBUNX	Next entry use chain
16	(10)	ADDRESS	4	QSUCBUPR	Previous entry use chain
20	(14)	ADDRESS	4	QSUCBADR	Addr of $QSUSE parmlist
24	(18)	SIGNED	4		Reserved
28	(1C)	SIGNED	4	QSUCBCNT	Use count

Table 405. Structure QSUCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	8	QSUCBTIM	Wait time (microseconds)
40	(28)	SIGNED	4	QSUCBPLT(0)	Copy of $QSUSE parmlist:
40	(28)	BITSTRING	4	QSUCBPIN	(Instruction after BASR)
44	(2C)	BITSTRING	1	QSUCBPFL	$QSUSE parameter flag -see $PARMLST/ $QSUFLG1
45	(2D)	BITSTRING	1		Reserved for future use
46	(2E)	CHARACTER	8	QSUCBPSC	Control section name
54	(36)	CHARACTER	8	QSUCBPSQ	Invoking seq number
62	(3E)	BITSTRING	1	QSUCBXIT	Exit number in control
63	(3F)	BITSTRING	1		Reserved for future use
64	(40)	DBL WORD	8	(0)	Alignment
64	(40)	X'40'	0	QSUCBLEN	"*-QSUCB" Length of element

Table 406. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

PCE performance information. Information is tracked for each PCE and for each type of PCE. The PCE performance block (PPB) is located before each PCE in storage. The PCE type performance blocks (PTPB) represents a type of PCE and tracks information based on PCE types (as defined by $PCETABs). The WTCB track $WAIT based on $WAIT invocation. The PSCBD tracks $POSTs based on $POST type.

184	(B8)	DBL WORD	8	PCBCPULD	CPU time of last dispatch
192	(C0)		1	PCBRUNLD	STCKE time of last dispatch
208	(D0)	DBL WORD	8	PCBCPULW	CPU time of last $WAIT
216	(D8)		1	PCBRUNLW	STCKE time of last $WAIT
232	(E8)	DBL WORD	8	PCBLSTRS	CPU time at last reset
240	(F0)		1	PCBLSTRT	STCKE time at last reset
256	(100)	DBL WORD	8	PCBRSTIS	CPU reset interval (micro)
264	(108)	DBL WORD	8	PCBRSTIT	STCK reset interval (micro)
272	(110)	ADDRESS	4	PCBPTPB	PTPB chain pointer
276	(114)	ADDRESS	4	PCBPTPBS	Sorted chain anchor
280	(118)	BITSTRING	2	PCBPCEID	PCEID of last disp PCE
282	(11A)	BITSTRING	2		Reserved
284	(11C)	CHARACTER	8	PCBPCNAM	PCE name of last disp PCE

Table 407. Structure PPB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPB	, PCE performance block
0	(0)	CHARACTER	4	PPBID	Eyecatcher
4	(4)	BITSTRING	1	PPBVERN	Version number
4	(4)	X'1'	0	PPBVER	"1" Current version
5	(5)	BITSTRING	1		Reserved

Table 407. Structure PPB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		This 2 byte code is post code for the last post of this PCE. Byte 1 is the post type (equates below). Byte 2 is the specific event post that placed the PCE on the ready queue. An event $POST with byte 2 = 0 indicates a $POST xx,FORCE.			
6	(6)	BITSTRING	2	PPBLPOST	Last post type (valid only when PCE is on the ready Q)
6	(6)	X'0'	0	PPBLPRES	"0" Resource post (Must be 0)
6	(6)	X'1'	0	PPBLPEVN	"1" Event post (Must be 1)
6	(6)	X'2'	0	PPBLPXEC	"2" XECB post
6	(6)	X'3'	0	PPBLPSSI	"3" $$POST of a event
6	(6)	X'4'	0	PPBLPSUB	"4" $POST from a subtask
8	(8)	ADDRESS	4	PPBPTPB	Addr of related PTPB
12	(C)	SIGNED	4	PPBWAITC	$WAIT count for this PCE
16	(10)	DBL WORD	8	PPBCPUT	CPU time used by this PCE
24	(18)	DBL WORD	8	PPBRUNT	Run time used by this PCE
32	(20)	DBL WORD	8	PPBWAITT	Total $WAIT time for PCE
40	(28)	DBL WORD	8	PPBQSUSE	$QSUSE time used by PCE (in microseconds)
48	(30)	SIGNED	4	PPBIOCNT	I/O count for this PCE
52	(34)	SIGNED	4	PPBCKPTN	Num of $CKPTs for this PCE
56	(38)	SIGNED	4	PPBPAWCT	Num of $PAWSs for this PCE
60	(3C)	SIGNED	4		Reserved
64	(40)	SIGNED	4		Reserved
72	(48)	DBL WORD	8	(0)	Ensure alignment
72	(48)	X'48'	0	PPBLEN	"*-PPB" Length of control block

Table 408. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 409. Structure GTPTDAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTPTDAT	GETPTIME output area DSECT
0	(0)	DBL WORD	8	GTPTCPUT	CPU time for PCE (microsec)
8	(8)	DBL WORD	8	GTPTRUNT	Run time for PCE (microsec)
16	(10)	DBL WORD	8	GTPTQSUS	QSUSE run time for PCE (microsec)
24	(18)	DBL WORD	8	GTPTSTCK	Time GETPTIME was called (TOD units)
24	(18)	X'20'	0	GTPTLEN	"*-GTPTDAT" Length of output area

Table 410. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 411. Structure PTPB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PTPB	, PCE type performance block
0	(0)	CHARACTER	4	PTPBID	Eyecatcher
4	(4)	ADDRESS	4	PTPBNEXT	Chain pointer
8	(8)	ADDRESS	4	PTPBNXT2	2ndary chain word
12	(C)	ADDRESS	4	PTPBTAB	Address of PCETAB
16	(10)	SIGNED	4	PTPBIOCT	I/O count for PCE type
24	(18)	DBL WORD	8	PTPBRUNT	Total run time for all PCEs
32	(20)	DBL WORD	8	PTPBCPUT	Total CPU time for all PCEs
40	(28)	DBL WORD	8	PTPBQSUS	Total $QSUSE time for all PCEs (in microseconds)
48	(30)	ADDRESS	4	PTPBWTCH	Chain of $WAIT CBs
52	(34)	SIGNED	4	PTPBCKPT	Num of $CKPTs for all PCEs
56	(38)	SIGNED	4	PTPBPAWC	Num of $PAWSs for all PCEs
60	(3C)	SIGNED	4		Reserved
64	(40)	SIGNED	4		Reserved
72	(48)	DBL WORD	8	(0)	Ensure alignment
72	(48)	X'48'	0	PTPBLEN	"*-PTPB" Length of control block

Table 412. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 413. Structure WTCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WTCB	, Wait performance block
0	(0)	CHARACTER	4	WTCBID	Eyecatcher
4	(4)	ADDRESS	4	WTCBNEXT	Pointer to next WTCB
8	(8)	DBL WORD	8	WTCBINFO(0)	Wait address information
8	(8)	ADDRESS	4	WTCBADR	Address of $WAIT parmlist
12	(C)	ADDRESS	4	WTCBADR2	2ndary parmlst pointer
16	(10)	ADDRESS	4	WTCBPSCB	Address of PSCB chain
20	(14)	SIGNED	4	WTCBWCNT	Wait count
24	(18)	DBL WORD	8	WTCBWAIT	Total $WAIT time for PCEs
32	(20)	DBL WORD	8	WTCBPLST(0)	Copy of $WAIT parmlist:
32	(20)	BITSTRING	4	WTCBPINS	(Instruction after BASR)
36	(24)	BITSTRING	1	WTCBPFL1	$WAIT macro option flags -see $PARMLST/$WTFLAG1
37	(25)	BITSTRING	1	WTCBPINH	Inhibitor: prevs PCE redispatch before specific $POST
38	(26)	CHARACTER	8	WTCBPSEC	Control section name
46	(2E)	CHARACTER	8	WTCBPSEQ	Invoking seq number
54	(36)	ADDRESS	2	WTCBPRQO	Resource queue offset/0
56	(38)	SIGNED	4	WTCB2PLT(0)	Copy of 2ndary parmlst:
56	(38)	CHARACTER	8	WTCB2SEC	Control section name
64	(40)	CHARACTER	8	WTCB2SEQ	Invoking seq number
72	(48)	ADDRESS	4	WTCB2PLA	Addr of copy of 2ndary parmlst

Table 413. Structure WTCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	BITSTRING	1	WTCBXIT	Exit number for wait
77	(4D)	BITSTRING	3		Reserved for future use
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	WTCBLEN	"*-WTCB" Length of control block
80	(50)	X'10'	0	WTCB2PLL	"L'WTCB2SEC+L'WTCB2SEQ" Len of 2ndary parmlst

Table 414. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 415. Structure PSCBD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSCBD	, $POST performance block
0	(0)	CHARACTER	4	PSCBID	Eyecatcher
4	(4)	ADDRESS	4	PSCBNEXT	Pointer to next PSCB
8	(8)	SIGNED	2	PSCBTYPE	$POST Type (see PPBLPOST)
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	PSCBWCNT	Wait count
16	(10)	DBL WORD	8	PSCBWAIT	Total $WAIT time for PCEs
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	X'18'	0	PSCBLEN	"*-PSCBD" Length of control block

Table 416. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
292	(124)	BITSTRING	12		Reserved

```
Event reporting information. Every time an note
worthy event is noticed, a record is created to
note the time and PCE that had the event. These
are then displayed by $D PERFDATA(EVENT). As new
event types are added (EVNTTYPE), the $SCANTAB in
HASPSTAB must be updated.
```

304	(130)		1	PCBEVNTX(0)	Cumulative area to clear
304	(130)	ADDRESS	4	PCBEVNTF	1st event control block
308	(134)	ADDRESS	4	PCBEVNTL	Last (newest) event CB
312	(138)	SIGNED	4	PCBEVCNT	Count of exception CBs
316	(13C)	SIGNED	4		Reserved
316	(13C)	X'64'	0	PCBEVNLM	"100" Limit of events tracked
320	(140)		1	PCBEVLRS	STCKE time at last reset
336	(150)	DBL WORD	8	PCBEVINT	STCK reset interval (micro)

Table 417. Structure EVENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVENT	, Exception description

Table 417. Structure EVENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	EVNTID	Eyecatcher
4	(4)	ADDRESS	4	EVNTNEXT	Next exception
8	(8)	DBL WORD	8	EVNTTIME	STCK of exception
16	(10)	DBL WORD	8	EVNTDUR	Duration of event or 0 (micro seconds)
24	(18)	CHARACTER	8	EVNTPNAM	PCE/DCT name
32	(20)	CHARACTER	8	EVNTMODN	Related module name
40	(28)	CHARACTER	8	EVNTSEQN	Related seq number/offset
48	(30)	CHARACTER	8	EVNTJID	Related job id
56	(38)	SIGNED	1	EVNTTYPE	Type of event
56	(38)	X'1'	0	EVNTRUN	"1" Excessive run time
56	(38)	X'2'	0	EVNTABND	"2" ABEND/$ERROR
56	(38)	X'3'	0	EVNTDIST	"3" $DISTERR
56	(38)	X'4'	0	EVNTLIMT	"4" HASPLIM Subtask
57	(39)	BITSTRING	1	EVNTXIT	Current exit number
58	(3A)	BITSTRING	1	EVNTFLG1	EVENT flag byte 1
		1...		EVNT1DEL	"B'10000000'" use DELTA= keyword
		.1..		EVNT1CNT	"B'01000000'" use COUNT= keyword
59	(3B)	BITSTRING	1		Reserved
60	(3C)	CHARACTER	8	EVNTDATA	Additional data
68	(44)	ADDRESS	4	EVNTPCE	PCE address
72	(48)	SIGNED	4	EVNTDELT	HASPLIM CPU Delta or Count of instances, depending on EVNTFLG1
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	EVNTLEN	"*-EVENT" Length of control block

Table 418. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
	CKPT reporting information.				
344	(158)		1	PCBCKLRS	STCKE time at last reset
360	(168)	DBL WORD	8	PCBCKINT	STCK reset interval (micro)
368	(170)	DBL WORD	8	PCBCKTHL	Total hold time (STCK)
376	(178)	DBL WORD	8	PCBCKAHL	Average hold time (micro)
384	(180)	SIGNED	4	PCBCKCHL	Hold time count
388	(184)	SIGNED	4	PCBCKCDR	Dormancy time count
392	(188)	DBL WORD	8	PCBCKTDR	Total dormancy time (STCK)
400	(190)	DBL WORD	8	PCBCKADR	Avg dormancy time (micro)
408	(198)	SIGNED	4	PCBCKCNT	$CKPT count
412	(19C)	SIGNED	4	PCBCKOCK	$CKPT optimization count
416	(1A0)	SIGNED	4	PCBCKO4K	4K page optimization count
420	(1A4)	SIGNED	4	PCBCK4KC	Count of 4K pages written (in IW and FW)
424	(1A8)	SIGNED	4	PCBCKCBC	Count of control blocks written (in IW and FW)

Table 418. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
428	(1AC)	SIGNED	4	PCBCKNAD	Nr of adjustments
432	(1B0)	DBL WORD	8	PCBCKTPN	Total pain value
432	(1B0)	X'1B4'	0	PCBCKTP1	"PCBCKTPN+4,4" 32-bit subset
440	(1B8)	DBL WORD	8	PCBCKTPM	Total pain value for this member
440	(1B8)	X'1BC'	0	PCBCKTP2	"PCBCKTPM+4,4" 32-bit subset
448	(1C0)	SIGNED	4	PCBCKHHI	Highest HOLD set
452	(1C4)	SIGNED	4	PCBCKHLO	Lowest HOLD set
456	(1C8)	SIGNED	4	PCBCKDHI	Highest DORMANCY
460	(1CC)	SIGNED	4	PCBCKDLO	Lowest DORMANCY
464	(1D0)	DBL WORD	8	PCBCKQDF	Difference between HOLD and longest QSUSE time (in microseconds)
472	(1D8)	DBL WORD	8	PCBCKQDA	Average difference (in microseconds)

Table 419. Structure PCBCKIO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCBCKIO	
0	(0)	CHARACTER	4	PCBCKION	Name of the I/O
4	(4)	SIGNED	4	PCBCKIOC	Count of I/Os
8	(8)	DBL WORD	8	PCBCKIOT	Total I/O time (STCK)
16	(10)	DBL WORD	8	PCBCKIOA	Average I/O time (micro)
24	(18)	DBL WORD	8	PCBCKIO4	Total 4K page count
32	(20)	DBL WORD	8	PCBCKIOB	Total CB count
40	(28)	DBL WORD	8	PCBCKIST_CPU	Total subtask CPU (micro)
48	(30)	DBL WORD	8	PCBCKIST_ACPU	Average subtask CPU
56	(38)	DBL WORD	8	PCBCKIST_TIM	Total subtask time (micro)
64	(40)	DBL WORD	8	PCBCKIST_ATIM	Average subtask time
72	(48)	DBL WORD	8	PCBCKIST_IOS	Total subtask I/Os
80	(50)	DBL WORD	8	PCBCKIST_AIOS	Average subtask I/Os
88	(58)	DBL WORD	8	PCBCKIST_REC	Total subtask records
96	(60)	DBL WORD	8	PCBCKIST_AREC	Average subtask records
96	(60)	X'68'	0	PCBCKIOL	"*-PCBCKIO" Length of area

Table 420. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
480	(1E0)	DBL WORD	8	(0)	Align I/O data areas
480	(1E0)	BITSTRING	104	PCBCKR1	Data area for read 1
584	(248)	BITSTRING	104	PCBCKR2	Data area for read 2
688	(2B0)	BITSTRING	104	PCBCKPW	Data area for Primary Write
792	(318)	BITSTRING	104	PCBCKIW	Data area for Intermediate
896	(380)	BITSTRING	104	PCBCKFW	Data area for Final Write
1000	(3E8)	BITSTRING	1	PCBCKFMT	Data area for formats
1000	(3E8)	X'6'	0	PCBCKIO#	"(*-PCBCKR1)/PCBCKIOL" Number of I/O entries

Table 420. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
General subtask statistics.					
1104	(450)		1	PCBSBLRS	STCKE time at last reset
1120	(460)	DBL WORD	8	PCBSBINT	STCK reset interval (micro)
1128	(468)	ADDRESS	4	PCBSBQUE	Queue of subtask statistics
1132	(46C)	SIGNED	4		Reserved

Table 421. Structure PCBSBST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCBSBST	
0	(0)	CHARACTER	4	PCBSBID	Eyecatcher
4	(4)	CHARACTER	8	PCBSBNAM	Routine name
12	(C)	ADDRESS	4	PCBSBNXT	Chain field
16	(10)	SIGNED	4	PCBSBCNT	Count of requests
20	(14)	SIGNED	4		Reserved
24	(18)	DBL WORD	8	PCBSBQTM	Total queue time (micro)
32	(20)	DBL WORD	8	PCBSBQTA	Average queue time (micro)
40	(28)	DBL WORD	8	PCBSBRTM	Total run time (micro)
48	(30)	DBL WORD	8	PCBSBRTA	Average run time (micro)
56	(38)	DBL WORD	8	PCBSBCTM	Total CPU time (micro)
64	(40)	DBL WORD	8	PCBSBCTA	Average CPU time (micro)
64	(40)	X'48'	0	PCBSBSTL	"*-PCBSBST" Length of area

Table 422. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
Device gatherer performance information.					
1136	(470)		1	PCBDGLRS	STCKE time at last reset
1152	(480)	DBL WORD	8	PCBDGINT	STCK reset interval (micro)
1160	(488)	SIGNED	4	PCBDGSYN	SYNCH count
1164	(48C)	SIGNED	4	PCBDGUPS	Updates sent count
1168	(490)	SIGNED	4	PCBDGUPR	Updates received count
1172	(494)	SIGNED	4	PCBDGNTS	NITs sent
1176	(498)	SIGNED	4	PCBDGNTB	NIT broadcasts
1180	(49C)	SIGNED	4	PCBDGCNR	CNIT updates received
1184	(4A0)	SIGNED	4	PCBDGCNU	CNITs updated
1188	(4A4)	SIGNED	4		Reserved
SPOOL Migration performance information.					
1192	(4A8)	ADDRESS	4	PCBMIGR	Newest migration CB

Table 423. Structure PMIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMIG	, Migration information
0	(0)	CHARACTER	4	PMIGID	Eyecatcher
4	(4)	ADDRESS	4	PMIGNEXT	Next migration
8	(8)	CHARACTER	6	PMIGSORC	Source vol being migrated
14	(E)	CHARACTER	6	PMIGTARG	Target vol of migration
20	(14)	BITSTRING	1	PMIGFLG1	Flag byte
		1...		PMIG1MOV	"B'10000000'" Move migration
21	(15)	BITSTRING	3		Reserved
24	(18)	DBL WORD	8	PMIGSTRT	STCK time migration started
32	(20)	DBL WORD	8	PMIGINTT	Init phase time (micro)
40	(28)	DBL WORD	8	PMIGSETT	Setup phase time (micro)
48	(30)	DBL WORD	8	PMIGCPYT	Copy phase time (micro)
56	(38)	SIGNED	4	PMIGCPYC	Copy phase track count
60	(3C)	SIGNED	4	PMIGCPYM	Copy phase message count
64	(40)	DBL WORD	8	PMIGCUPT	Catchup phase time (micro)
72	(48)	SIGNED	4	PMIGCUPC	Catchup phase track count
76	(4C)	SIGNED	4	PMIGCUPM	Catchup phase message count
80	(50)	DBL WORD	8	PMIGCLNT	Cleanup phase time (micro)
88	(58)	DBL WORD	8	PMIGOVRT	Overall time for migration (micro)
96	(60)	DBL WORD	8	(0)	Alignment
96	(60)	X'60'	0	PMIGLEN	"*-PMIG" Length of control block

Table 424. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
	Work selection performance information (WSSTAT)				
1196	(4AC)	SIGNED	4	PCB#PNUM	Number of calls to $#POST
1200	(4B0)	DBL WORD	8	PCB#PCPU	$#POST tot CPU time
1208	(4B8)	DBL WORD	8	PCB#PCAV	and average (micro)
	Normal $#GET work found				
1216	(4C0)	DBL WORD	8	PCB#GCPU	$#GET tot CPU time
1224	(4C8)	DBL WORD	8	PCB#GCAV	and average (micro)
1232	(4D0)	SIGNED	4	PCB#GNUM	Number of $#GETs that returned a JOE
	Normal $#GET no work found				
1236	(4D4)	SIGNED	4	PCB#GZNM	Number of $#GETs that did not find work
1240	(4D8)	DBL WORD	8	PCB#GZCP	$#GET tot CPU time
1248	(4E0)	DBL WORD	8	PCB#GZAV	and average (micro)
	Fast path $#GET work found				
1256	(4E8)	DBL WORD	8	PCB#GFCP	$#GET tot CPU time
1264	(4F0)	DBL WORD	8	PCB#GFAV	and average (micro)

Table 424. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1272	(4F8)	SIGNED	4	PCB#GFPN	Number of fast path $#GETs that found work
	Fast path $#GET no work found				
1276	(4FC)	SIGNED	4	PCB#GFPZ	Number of fast path $#GETS that did not find work
1280	(500)	DBL WORD	8	PCB#GFZC	$#GET tot CPU time
1288	(508)	DBL WORD	8	PCB#GFZV	and average (micro)
	Indexed $#GET work found				
1296	(510)	DBL WORD	8	PCB#GXCP	$#GET tot CPU time
1304	(518)	DBL WORD	8	PCB#GXAV	and average (micro)
1312	(520)	SIGNED	4	PCB#GXNM	Number of indexed $#GETs that found work
	Indexed $#GET No work found				
1316	(524)	SIGNED	4	PCB#GXZN	Number of indexed $#GETs that did not find work
1320	(528)	DBL WORD	8	PCB#GXZC	$#GET tot CPU time
1328	(530)	DBL WORD	8	PCB#GXZV	and average (micro)
1336	(538)		1	PCB#WLRS	STCKE time at last reset
1352	(548)	DBL WORD	8	PCB#WINT	STCK reset interval (micro)
1360	(550)	ADDRESS	4	PCBTEWA	Address of TEWA (Timed Event Work Area)
1364	(554)	SIGNED	4	(3)	Reserved
1376	(560)		1	(0)	Alignment
1376	(560)	X'560'	0	PCBLEN	"*-PERFCB" Length of PERFCB

Table 425. Cross Reference for $PERFCB

Name	Offset	Hex Tag
EVENT	0	
EVNTABND	38	2
EVNTDATA	3C	
EVNTDELT	48	
EVNTDIST	38	3
EVNTDUR	10	
EVNTFLG1	3A	
EVNTID	0	C5E5D5E3
EVNTJID	30	
EVNTLEN	50	50
EVNTLIMT	38	4
EVNTMODN	20	
EVNTNEXT	4	
EVNTPCE	44	
EVNTPNAM	18	
EVNTRUN	38	1
EVNTSEQN	28	

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
EVNTTIME	8	
EVNTTYPE	38	
EVNTXIT	39	
EVNT1CNT	3A	40
EVNT1DEL	3A	80
GTPTCPUT	0	
GTPTDAT	0	
GTPTLEN	18	20
GTPTQSUS	10	
GTPTRUNT	8	
GTPTSTCK	18	
INITRCPU	10	
INITRENT	10	0
INITRNAM	0	
INITRTIM	8	
INITSTAT	0	
PCB#GCAV	4C8	
PCB#GCPU	4C0	
PCB#GFAV	4F0	
PCB#GFCP	4E8	
PCB#GFPN	4F8	
PCB#GFPZ	4FC	
PCB#GFZC	500	
PCB#GFZV	508	
PCB#GNUM	4D0	
PCB#GXAV	518	
PCB#GXCP	510	
PCB#GXNM	520	
PCB#GXZC	528	
PCB#GXZN	524	
PCB#GXZV	530	
PCB#GZAV	4E0	
PCB#GZCP	4D8	
PCB#GZNM	4D4	
PCB#PCAV	4B8	
PCB#PCPU	4B0	
PCB#PNUM	4AC	
PCB#WINT	548	
PCB#WLRS	538	
PCBCKADR	190	
PCBCKAHL	178	
PCBCKCBC	1A8	
PCBCKCDR	184	
PCBCKCHL	180	
PCBCKCNT	198	
PCBCKDHI	1C8	

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PCBCKDLO	1CC	
PCBCKFMT	3E8	
PCBCKFW	380	
PCBCKHHI	1C0	
PCBCKHLO	1C4	
PCBCKINT	168	
PCBCKIO	0	
PCBCKIO#	3E8	6
PCBCKIOA	10	
PCBCKIOB	20	
PCBCKIOC	4	
PCBCKIOL	60	68
PCBCKION	0	
PCBCKIOT	8	
PCBCKIO4	18	
PCBCKIST_ACPU	30	
PCBCKIST_AIOS	50	
PCBCKIST_AREC	60	
PCBCKIST_ATIM	40	
PCBCKIST_CPU	28	
PCBCKIST_IOS	48	
PCBCKIST_REC	58	
PCBCKIST_TIM	38	
PCBCKIW	318	
PCBCKLRS	158	
PCBCKNAD	1AC	
PCBCKOCK	19C	
PCBCKO4K	1A0	
PCBCKPW	2B0	
PCBCKQDA	1D8	
PCBCKQDF	1D0	
PCBCKR1	1E0	
PCBCKR2	248	
PCBCKTDR	188	
PCBCKTHL	170	
PCBCKTPM	1B8	
PCBCKTPN	1B0	
PCBCKTP1	1B0	1B4
PCBCKTP2	1B8	1BC
PCBCK4KC	1A4	
PCBCPULD	B8	
PCBCPULW	D0	
PCBDGCNR	49C	
PCBDGCNU	4A0	
PCBDGINT	480	
PCBDGLRS	470	

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PCBDGNTB	498	
PCBDGNTS	494	
PCBDGSYN	488	
PCBDGUPR	490	
PCBDGUPS	48C	
PCBEVCNT	138	
PCBEVINT	150	
PCBEVLRS	140	
PCBEVNLM	13C	64
PCBEVNTF	130	
PCBEVNTL	134	
PCBEVNTX	130	
PCBID	0	D7C3C240
PCBINITS	10	
PCBLEN	560	560
PCBLSTRS	E8	
PCBLSTRT	F0	
PCBMIGR	4A8	
PCBPCEID	118	
PCBPCNAM	11C	
PCBPTPB	110	
PCBPTPBS	114	
PCBQSINT	B0	
PCBQSLRS	A0	
PCBQSNDX	1C	
PCBQSUHD	14	
PCBQSUTL	18	
PCBRSTIS	100	
PCBRSTIT	108	
PCBRUNLD	C0	
PCBRUNLW	D8	
PCBSBCNT	10	
PCBSBCTA	40	
PCBSBCTM	38	
PCBSBID	0	E2C2E2E3
PCBSBINT	460	
PCBSBLRS	450	
PCBSBNAM	4	
PCBSBNXT	C	
PCBSBQTA	20	
PCBSBQTM	18	
PCBSBQUE	468	
PCBSBRTA	30	
PCBSBRTM	28	
PCBSBST	0	
PCBSBSTL	40	48

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PCBTEWA	550	
PCBVERN	4	2
PCBVERSN	4	
PCBWORK	8	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PMIG	0	
PMIGCLNT	50	
PMIGCPYC	38	
PMIGCPYM	3C	
PMIGCPYT	30	
PMIGCUPC	48	
PMIGCUPM	4C	
PMIGCUPT	40	
PMIGFLG1	14	
PMIGID	0	D7D4C9C7
PMIGINTT	20	
PMIGLEN	60	60
PMIGNEXT	4	
PMIGOVRT	58	
PMIGSETT	28	
PMIGSORC	8	
PMIGSTRT	18	
PMIGTARG	E	
PMIG1MOV	14	80
PPB	0	
PPBCKPTN	34	
PPBCPUT	10	
PPBID	0	
PPBIOCNT	30	
PPBLEN	48	48
PPBLPEVN	6	1
PPBLPOST	6	
PPBLPRES	6	0
PPBLPSSI	6	3
PPBLPSUB	6	4

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PPBLPXEC	6	2
PPBPAWCT	38	
PPBPTPB	8	
PPBQSUSE	28	
PPBRUNT	18	
PPBVER	4	1
PPBVERN	4	
PPBWAITC	C	
PPBWAITT	20	
PSCBD	0	
PSCBID	0	
PSCBLEN	18	18
PSCBNEXT	4	
PSCBTYPE	8	
PSCBWAIT	10	
PSCBWCNT	C	
PTPB	0	
PTPBCKPT	34	
PTPBCPUT	20	
PTPBID	0	
PTPBIOCT	10	
PTPBLEN	48	48
PTPBNEXT	4	
PTPBNXT2	8	
PTPBPAWC	38	
PTPBQSUS	28	
PTPBRUNT	18	
PTPBTAB	C	
PTPBWTCH	30	
QSUCB	0	
QSUCBADR	14	
QSUCBANX	8	
QSUCBCNT	1C	
QSUCBID	0	
QSUCBLEN	40	40
QSUCBPFL	2C	
QSUCBPIN	28	
QSUCBPLT	28	
QSUCBPSC	2E	
QSUCBPSQ	36	
QSUCBTIM	20	
QSUCBUNX	C	
QSUCBUPR	10	
QSUCBVR	4	1
QSUCBVRN	4	
QSUCBXIT	3E	

Table 425. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
WTCB	0	
WTCBADR	8	
WTCBADR2	C	
WTCBID	0	
WTCBINFO	8	
WTCBLEN	50	50
WTCBNEXT	4	
WTCBPFL1	24	
WTCBPINH	25	
WTCBPINS	20	
WTCBPLST	20	
WTCBPRQO	36	
WTCBPSCB	10	
WTCBPSEC	26	
WTCBPSEQ	2E	
WTCBWAIT	18	
WTCBWCNT	14	
WTCBXIT	4C	
WTCB2PLA	48	
WTCB2PLL	50	10
WTCB2PLT	38	
WTCB2SEC	38	
WTCB2SEQ	40	

$PIT information

$PIT programming interface information

$PIT is a programming interface.

$PIT heading information

Common name: Partition Information Table dsect

Macro ID: $PIT

DSECT name: PIT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PIT '
Offset: LMT-$CSBPRFX+$CSBID
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA), once JES2 has been initialized. During a non-hot start JES2 initialization, temporary PITs exist in JES2 extended private in subpool 6.

Size: See the PITLEN equate.

Created by: Temporary PITs are created during JES2 initialization for the maximum number possible (the $MAXINIT equate). Permanent PITs are created by JES2 initialization in CSA, and kept across possible JES2 outages, after the installation's INITDEF PARTNUM parameter is defined.

Pointed to by:

- The CCTPIT field of the $HCCT data area in CSA points to the first PIT.
- The $PITABLE field of the $HCT data area in the JES2 address space points to the first PIT.
- The PITNEXT field of the previous $PIT data area points to the next numbered PIT.
- The SJBPIT field of a batch-job $SJB data area points to the PIT representing the initiator under which that job is running.

Serialization:

Serialization of the PITs is implicit in the status flags in the PITs, and the way they are used by the JES2 main task. Except for the PITSTAT2 flag byte only the main task can alter the fields in the PITs.

Function:

The Partition Information Table (PIT) represents a logic batch-job initiator. JES2 manages multiple logical initiators, which can be separately started, drained, and halted. Each can separately define the ordered list of job classes they will select from. When an initiator is started by an operator, via a $S I command, JES2 submits a START command to create a started task address space, running the MVS Initiator program. As that address space is started up, it is associated with the PIT for which it was started. The Initiator then makes generic subsystem-interface calls for any batch job to be run, without care to what job class or other criteria they have. JES2 applies the checks of criteria based on the logical initiator, the PIT.
Logical initiators can be managed as groups. That is, multiple PITs may have the same value in PITPATID. If, for example, 25 PITs are defined during initialization to have NAME= (PITPATID) XYZ, then commands to start, drain, display, etc 'I XYZ' will apply to all 25, and messages will indicate only XYZ (not the original number). The current ASID for the initiator is the only qualifying information.

$PIT mapping

Table 426. Structure PIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PIT	HASP PARTITION INFORMATION TBL DSECT
0	(0)	ADDRESS	4	PITNEXT	ADDRESS OF NEXT PIT
4	(4)	ADDRESS	4	PITSJB	ADDRESS OF SJB FOR EXECUTING JOB
8	(8)	ADDRESS	4	PITASCB	Address of initiator's ASCB
12	(C)	BITSTRING	8	PITASCBT	Address Space Token
20	(14)	ADDRESS	4	PITJQOFF	Offset of initiator's JQE
24	(18)	BITSTRING	1	PITFLAGS	PIT FLAG BYTE
		EQU B'10000000' Was PITDUPJ			
		.1..		PITSMVER	"B'01000000'" Waiting for memory create
		..1.		PITSIVER	"B'00100000'" PIT Awaiting $SI verification
		...1		PITSRSOK	"B'00010000'" Initiator start-up has progressed far enough to allow automatic restart
		.... 1...		PITCLFMT	"B'00001000'" PITCLASS format : OFF = PITCLASS contains up to 36 one char class names. ON = PITCLASS contains a mixture of up to 8 eight char class names and class group names.
25	(19)	BITSTRING	1	PITSTAT	LOGICAL PARTITION STATUS BYTE
		1...		PITHOLDA	"B'10000000'" PIT is drained ($P I)
		.1..		PITHOLD1	"B'01000000'" PIT is drained ($P IN)

Table 426. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PITHOLDR	"B'00100000'" PIT is stopped, but not via a command. PIT will automatically be restarted if PITHOLDA and PITHOLD1 are not on.
25	(19)	X'E0'	0	PITHOLD	"PITHOLDA+PITHOLD1+PITHOLDR" PIT is drained
		...1		PITBUSY	"B'00010000'" Partition busy indicator
		.... 1...		PITHALTA	"B'00001000'" PIT is halted ($Z I)
		.... .1..		PITHALT1	"B'00000100'" PIT is halted ($Z IN)
		.... ..1.		PITINIT	"B'00000010'" OS initiator exists for PIT
		1		PITIDLE	"B'00000001'" PIT 'Idle' message sent and no jobs are executing on this started initiator
26	(1A)	BITSTRING	1	PITSTAT2	PIT status byte that may be updated outside JES2 address space and needs proper serialization. Update to this field should be via OIL/NIL
		1...		PIT2NSJB	"B'10000000'" Init with no SJB needs to be cleaned up
27	(1B)	SIGNED	1	PITCLEAN	ID of PIT cleaner
27	(1B)	X'1'	0	PITCLN1	"1" PIT cleanup routine
27	(1B)	X'2'	0	PITCLN2	"2" Pending by class
27	(1B)	X'3'	0	PITCLN3	"3" XPITTERM
27	(1B)	X'4'	0	PITCLN4	"4" XINSTART (ASCRE failed)
27	(1B)	X'5'	0	PITCLN5	"5" XDRINIT
27	(1B)	X'6'	0	PITCLN6	"6" XREENQ
27	(1B)	X'7'	0	PITCLN7	"7" XINSTART (Before ASCRE)

```
The PITPATID is the initiator's 'name' or 'id'.
1) If NAME= was not coded on an INIT(n) init stmt
    for the initiator, PITPATID is the character
    value for its number, left-justified.
2) If NAME= was coded on an initialization stmt
    for the initiator, PITPATID is that NAME=
    value, left-justified. The value does not
    have to be unique (and probably is not).
Commands against PITs can be done with subscript
compares in character format, or with numerical
indices. For example, $SI(1-20) starts all
initiators in the numerical range 1-20 regardless
of the value of PITPATID. $SI(ABC), on the other
hand, starts all initiators with a name of ABC
in PITPATID.
Normal $SCAN rules apply when determining whether
the specified subscript corresponds to the
symbolic name or the numerical index.
```

28	(1C)	CHARACTER	4	PITPATID	Initiator partition 'id'
32	(20)	CHARACTER	64	PITCLASS	Class list. Contents depend on the PITCLFMT bit.
32	(20)	CHARACTER	36	PITCLS1	1 character class list (PITCLFMT bit off)
32	(20)	CHARACTER	8	PITCLS8(0)	8 character class list (PITCLFMT bit on)
96	(60)	BITSTRING	4	PITJBKEY	Job key for INIT STC
100	(64)	SIGNED	2	PITASID	Initiator ASID
102	(66)	SIGNED	2	PITNUMB	Initiator number
104	(68)	BITSTRING	4		Reserved
112	(70)	DBL WORD	8	(0)	Ensure doubleword length

Table 426. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
112	(70)	X'70'	0	PITLEN	"*-PIT" PIT LENGTH

Table 427. Cross Reference for $PIT

Name	Offset	Hex Tag
PIT	0	
PITASCB	8	
PITASCBT	C	
PITASID	64	
PITBUSY	19	10
PITCLASS	20	
PITCLEAN	1B	
PITCLFMT	18	8
PITCLN1	1B	1
PITCLN2	1B	2
PITCLN3	1B	3
PITCLN4	1B	4
PITCLN5	1B	5
PITCLN6	1B	6
PITCLN7	1B	7
PITCLS1	20	
PITCLS8	20	
PITFLAGS	18	
PITHALTA	19	8
PITHALT1	19	4
PITHOLD	19	E0
PITHOLDA	19	80
PITHOLDR	19	20
PITHOLD1	19	40
PITIDLE	19	1
PITINIT	19	2
PITJBKEY	60	
PITJQOFF	14	
PITLEN	70	70
PITNEXT	0	
PITNUMB	66	
PITPATID	1C	
PITSIVER	18	20
PITSJB	4	
PITSMVER	18	40
PITSRSOK	18	10
PITSTAT	19	
PITSTAT2	1A	
PIT2NSJB	1A	80

$PPPWORK information

$PPPWORK programming interface information

$PPPWORK is a programming interface.

$PPPWORK heading information

Common name: JES2 Print/Punch PCE Work Area

Macro ID: $PPPWORK

DSECT name: PCE ($PPPWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol PPPLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE for local printers and punches
Created by $PCEDYN when RJE devices sign on

Pointed to by: The $PRTPCE field of the $HCT data area, and the $PUNPCE field of the $HCT data area, and the $TPPRPCE field of the $HCT data area, and the $TPPUPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Print/Punch PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
The DCTPCE field of the $DCT data area (see "Function" below)
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Print/Punch Processor and by its support routines and exits. $PPPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PPPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRTID or PCEPUNID in the second byte of field PCEID.
The $PPPWORK mapping is used for printers in JES mode. The PCE work area for printers in FSS mode is mapped by $FSSWORK.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$PPPWORK mapping

Table 428. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP PRINT/PUNCH PROCESSOR
328	(148)	BITSTRING	1	PPPFLAG1	PRINT/PUNCH FLAG BYTE
		1...		PPP1WRTS	"X'80'" PRINT/PUNCH WRITE SWITCH
		.1..		PPP1SUSP	"X'40'" PRINT/PUNCH SUSPEND SWITCH
		..1.		PPP1NSKP	"X'20'" No Skip-to-channel-1
		...1		PPP1TERM	"X'10'" PRINT/PUNCH TERMINATION SWITCH

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		PPP1FNCI	"X'08'" PUNCH INTERPRET REQUESTED
		.... .1..		PPP1DRER	"X'04'" PRINT/PUNCH DATA READ ERROR
		.... ..1.		PPP1JIRE	"X'02'" PRINT/PUNCH JCT/IOT READ ERROR
329	(149)	BITSTRING	1	PPPFLAG2	PRINT/PUNCH FLAG BYTE
		1...		PPP2TCEL	"X'80'" TRACK-CELL DE-SPOOLING SWITCH
		.1..		PPP2READ	"X'40'" PRINT/PUNCH READ SWITCH
		..1.		PPP2CKPN	"X'20'" PRINT/PUNCH CKPT-NEEDED SWITCH
		...1		PPP2CKPA	"X'10'" PRINT/PUNCH CKPT-ALLOWED SWITCH
		.... 1...		PPP2PCIW	"X'08'" PRINT/PUNCH PCI WAIT SWITCH
		.... .1..		PPP2OPTJ	"X'04'" PRINTER OPTCD=J SWITCH
		.... ..1.		PPP2FDS	"X'02'" FIRST SYSOUT DATA SET SWITCH
		1		PPP2SMFE	"X'01'" DATA BUFFER ERROR FLAG FOR SMF
330	(14A)	BITSTRING	1	PPPFLAG3	PRINT/PUNCH FLAG BYTE 3
		1...		PPP3TRNC	"X'80'" TRUNCATE OUTPUT
		.1..		PPP3RECV	"X'40'" RECOVERY IN PROCESS
		..1.		PPP3NAVL	"X'20'" DEVICE NO LONGER AVAILABLE
		...1		PPP3CK38	"X'10'" 3800 CHECKPOINT FLAG
		.... 1...		PPP3CKRP	"X'08'" 3800 REPOSITION BIT
		.... .1..		PPP3CKSU	"X'04'" 3800 PPQ SUSPEND BIT
		.... ..1.		PPP3CKRS	"X'02'" 3800 RESTART BIT G38E
		1		PPP3INIT	"X'01'" FIRST USE BIT
331	(14B)	BITSTRING	1	PPPS6DCI	PRINT/PUNCH SMF FLAGS (SMF6DCI)
332	(14C)	BITSTRING	1	PPPDCTFL	PR/PU/RMT DCT FLAGS (DCTFLAGS)
333	(14D)	BITSTRING	1	PPPBFOPT	PRINT/PUNCH BUFFERING OPTION
334	(14E)	SIGNED	2		Reserved
336	(150)	SIGNED	4	PPPUCB	ADDRESS OF OUTPUT DEVICE UCB
340	(154)	SIGNED	4	PPPXTCCW(0)	3800 SELECT-XTAB CCW OP-CODES
340	(154)	SIGNED	4	PPPUECCW	ADDRESS OF PUNCH ERROR CCW
344	(158)	SIGNED	8	PPPTIMON	PRT/PUN SIGN-ON TIME/DATE
352	(160)	SIGNED	4	PPPBFADR	ADDR OF 1ST DATA BUFFER CHAIN
356	(164)	SIGNED	4	PPPBFSAV	ADDR OF NEXT DATA BUFFER CHAIN
360	(168)	SIGNED	4	PPPJCTBF	ADDRESS OF JCT BUFFER
364	(16C)	SIGNED	4	PPPLCCWA	ADDRESS OF LAST CCW
368	(170)	SIGNED	2	PPPLCCWO	OFFSET TO LAST CCW IN CHAIN
370	(172)	BITSTRING	1	PPPRMSEL	SNA REMOTE SELECT BYTE SAVE AREA
371	(173)	BITSTRING	1	PPP3211I	3211 INDEX VALUE
372	(174)	BITSTRING	1	PPPFLAG4	PRINT/PUNCH FLAG BYTE 4
		1...		PPP4PS38	"X'80'" 3800 PATH SET INDICATOR
		.1..		PPP43081	"X'40'" WCS PATH INDICATOR
		..1.		PPP4EX15	"X'20'" EXIT 15 SWITCH
		...1		PPP4RPBS	"X'10'" REPOSITION DUE TO BSPACE
		.... 1...		PPP4QSMF	"X'08'" $QUESMFB INDICATOR
		.... .1..		PPP4FPRD	"X'04'" $F PRTN,D IN PROGRESS

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		PPP4FAUT	"X'02'" A PDDB within the work JOE failed the authorization check
		1		PPP4CALL	"X'01'" All skips to channel treated as new page
373	(175)	BITSTRING	1	PPPFLAG5	PRPU FLAG BYTE 5, HASP185 USE
		1...		PPP5DSOP	"B'10000000'" DATASET OPEN, NOT CLOSED
		.1..		PPP5IJBK	"B'01000000'" INVALID JOB KEY FOR BUFFER
		..1.		PPP5IDSK	"B'00100000'" INVALID DATASET KEY FOR BUFFER
		...1		PPP5IOER	"B'00010000'" I/O ERROR ON CNTRL BLOCK READ
		.... 1...		PPP5IMTT	"B'00001000'" INVALID TRACK ADDR FOR READ
		.... .1..		PPP5OJOE	"B'00000100'" PRINT/PUNCH OBSOLETE JOE SWITCH
		.... ..1.		PPP5AUTF	"B'00000010'" AUTHORIZATION FAILED
		1		PPP5T185	"B'00000001'" ERROR ENCOUNTERED WHEN DATASET WAS CLOSED
374	(176)	BITSTRING	1	PPPFLAG6	Print/Punch Flag byte 6
		1...		PPP6LERR	"B'10000000'" Logical error during SWBTUREQ service
		.1..		PPP6NEWS	"B'01000000'" JESNEWS requested and available
		..1.		PPP6SWBD	"B'00100000'" Unsuccessful I/O for SWBITs
		...1		PPP6NODS	"B'00010000'" No data set found in IOT
		.... 1...		PPP6BFER	"B'00001000'" Large SMF buffer is too small to hold type 6 with SWBTU
		.... .1..		PPP6DSMR	"B'00000100'" PDSMRSWB routine entered
		.... ..1.		PPP6MRGR	"B'00000010'" $SWBMERG invoked
		1		PPP6ABND	"B'00000001'" Abend in PDSMRSWB and/or $SWBMERG service
375	(177)	BITSTRING	1	PPPFLAG7	Print/Punch Flag byte 7
		1...		PPP7RTRI	"B'10000000'" Recovering from abend in $SWBMERG service
		.1..		PPP7SMRC	"B'01000000'" Abend in $SWBMERG cleanup call
		..1.		PPP7SMFU	"B'00100000'" SMF RECORD UPDATED
		...1		PPP7TRAN	"B'00010000'" Translate lines
		.... 1...		PPP71PPF	"B'00001000'" In case of impact printer restarting from backspace
		.... .1..		PPP7TRLR	"B'00000100'" Printing job trailer page
376	(178)	BITSTRING	1		RESERVED FOR FUTURE USE
377	(179)	BITSTRING	1	PPPSAVDF	WORK AREA FOR SPACING FLAG
378	(17A)	BITSTRING	1	PPPJOEFL	COPY OF JOEFLAG1
379	(17B)	BITSTRING	2	PPPFCBMP	FCB BIT MAP
381	(17D)	BITSTRING	1	PPPERCNT	PERM ERP ERROR COUNT
382	(17E)	SIGNED	2	PPPBFLRC	NO. OF LRC WITHIN CURRENT BUFFR

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	SIGNED	4	PPPRCBSV	RCB WORK AREA
392	(188)	DBL WORD	8	PPPCCWRK	CCW ANALYSIS SAVE AREA
400	(190)	SIGNED	4	PPPPNUMR	PAGE NUMBER FOR RE-POSITIONING
404	(194)	BITSTRING	1	PPPBUFRO	BUFFER OFFSET FOR RE-POSITIONING
405	(195)	BITSTRING	1	PPPBUFAV	COUNT OF AVAILABLE INPUT BUFFERS
406	(196)	BITSTRING	1	PPPDSCPY	DATA SET COPY COUNT
407	(197)	BITSTRING	1	PPPPDIRI	PDIR IDENTIFIER
408	(198)	ADDRESS	4	PPPCHKBF	ADDRESS OF CHK BUFFER
412	(19C)	ADDRESS	4	PPPSESSA	Address of the ES section in the SMF type 24 record
416	(1A0)	SIGNED	2	PPPNSWB	Number of SWBITS for a PDDB
418	(1A2)	SIGNED	2	PPPTUSUM	Total size of all SWBTUs
420	(1A4)	BITSTRING	1	PPPRESP	Copy of the response byte returned from Exit 1 & 15
421	(1A5)	BITSTRING	1	PPPSEPPG	Copy of $SEPPAGE from HCT
422	(1A6)	SIGNED	2	PPPSPCTR	Separator page counter
424	(1A8)	BITSTRING	6	PPPFIOTK	Track address (MQTR) of the IOT for the 1st PDDB of the JOE
430	(1AE)	BITSTRING	2		Reserved
432	(1B0)	ADDRESS	4	PPPFIOTA	Buffer address of the IOT for the 1st PDDB of the JOE
436	(1B4)	SIGNED	4	PPPFPDDB	Address of the 1st PDDB of the JOE
440	(1B8)	SIGNED	4	PPPFSWTR	Address of the 1st SWBIT MTTR of the JOE
444	(1BC)	SIGNED	4	PPPSWBIT	Address of SWBIT chain
448	(1C0)	SIGNED	4	PPPTURET	Address of TU Pointer List for SWBTUREQ RETRIEVE
452	(1C4)	SIGNED	4	PPPTUSPL	Address of TU Pointer List for SWBTUREQ SPLICE
456	(1C8)	SIGNED	4	PPPKYLST	Address of the Key List used for SWBTUREQ SERVICE
460	(1CC)	SIGNED	4	PPPTUADR	Address of TU output area used for SWBTUREQ SERVICE
464	(1D0)	ADDRESS	4	PPPJSWBT	Address of JOE SWBIT chain
468	(1D4)	SIGNED	2	PPPMOSZ	Modify SWBTU size
470	(1D6)	SIGNED	2	PPPMESZ	Merged SWBTU size
472	(1D8)	ADDRESS	4	PPPMEST	Merged SWBTU address
476	(1DC)	ADDRESS	4	PPPSBMPL	Address of $SWBMERG parameter list
480	(1E0)	SIGNED	2	PPPTUSZ	Size of the TU output area used for SWBTUREQ SERVICE
482	(1E2)	SIGNED	2	PPPADNUM	Number of lines of ADDRESS
484	(1E4)	ADDRESS	4	PPPIIOB2	Save field for the IIOB
488	(1E8)	ADDRESS	4	PPPBFSV2	Buffer save field
492	(1EC)	ADDRESS	4	PPPBFAD2	Buffer save field
496	(1F0)	SIGNED	4	PPPSEGID	Segment ID for SPIN data sets
500	(1F4)	ADDRESS	4	PPPXPARM	Exit point parameter list
504	(1F8)	BITSTRING	6	PPPWKPTN	Segment number work area
510	(1FE)	BITSTRING	2	PPPSWBRC	Logical error return code
512	(200)	BITSTRING	4	PPPSWBRS	Logical error reason code

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
516	(204)	BITSTRING	1	PPPHRSN	JOE hold reason
517	(205)	BITSTRING	3		Reserved for future use
520	(208)	CHARACTER	36	PPPERMSG	Logical error message
556	(22C)	ADDRESS	4	PPPIOTAD	Address of IOT buffer save area
560	(230)	CHARACTER	80	PPPBUFSV	PCOMMENT WORK AREA
560	(230)	DBL WORD	8	PPPSSRWK	SEPARATOR SERVICE RTN WORK
		BEGIN PRINT/PUNCH CHECKPOINT DATA AREA. THESE FIELDS MUST CORRESPOND EXACTLY TO THE CHKJESWK FIELDS MAPPED IN THE $CHK DSECT.			
640	(280)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
640	(280)	SIGNED	2	PPPEBRCB	NUMBER OF LAST EJECT RCB
642	(282)	SIGNED	2	PPPDDBDS	CURRENT PDDB DISPLACEMENT
644	(284)	SIGNED	4	PPPDDBPC	CURRENT PDDB PAGE COUNTER
648	(288)	SIGNED	4	PPPLCCNT	CURRENT LINE OR CARD COUNT
652	(28C)	SIGNED	4	PPPPAGCT	CURRENT PAGE COUNT (PHYSICAL)
656	(290)	SIGNED	4		Unused - for alignment
660	(294)	SIGNED	4		Unused - for alignment
664	(298)	BITSTRING	1	PPPCOPCT	COPY COUNTER
665	(299)	BITSTRING	1	PPPLEBOF	LAST EJECT BUFFER OFFSET
666	(29A)	BITSTRING	1	PPPCGCNT	CURRENT COPY GROUP COUNT
667	(29B)	BITSTRING	1	PPPDSCT	CURRENT DATA SET COUNT
		KEEP NEXT TWO FIELDS TOGETHER FOR $DU COMMAND			
668	(29C)	SIGNED	4	PPPRECNM	CURRENT RECORD NUMBER
672	(2A0)	SIGNED	4	PPPPAGNM	CURRENT PAGE NUMBER
676	(2A4)	CHARACTER	13		Unused - for alignment
689	(2B1)	BITSTRING	1	PPPCVERS	CHK version - see $CHK
690	(2B2)	SIGNED	2	PPPBPHPC	PDDB PHYSICAL PAGE COUNT
692	(2B4)	BITSTRING	6	PPPLEBTK	LAST EJECT BUFFER MQTR
698	(2BA)	BITSTRING	6	PPPIOTTK	CURRENT IOT MQTR
698	(2BA)	X'280'	0	PPPCKPTD	"PPPEBRCB,*-PPPEBRCB" CKPT-DATA EQUATE AND LENGTH
		END PRINT/PUNCH CHECKPOINT DATA AREA.			
704	(2C0)	SIGNED	4	(0)	ESTABLISH THE
696	(2B8)	SIGNED	4	PPPDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
704	(2C0)	SIGNED	4	(0)	DA DCT FOR $EXCP
732	(2DC)	SIGNED	4	PPPDEVTP	PRINT/PUNCH DEVICE TYPE
732	(2DC)	X'2DF'	0	PPPDEVB1	"PPPDEVTP+3,1" UCB BYTE4 HAS 1BYTE DEV CODE
732	(2DC)	X'2DE'	0	PPPDEVB2	"PPPDEVTP+2,1" UCB BYTE3 HAS 1BYTE CODE
736	(2E0)	SIGNED	4	PPPLSAVE	LINK REGISTER SAVE WORD
740	(2E4)	SIGNED	4	PPPLNECT	MAXIMUM LINES PER PAGE
744	(2E8)	SIGNED	4	PPPPLC	PRINT/PUNCH PAGE LINE COUNTER

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
748	(2EC)	BITSTRING	2	PPPPLC2	Continuation of PPPPLC for when we use PPPPLC as an MQTR save area.
750	(2EE)	SIGNED	2	PPPCKPPS	LOG PAGES/CKPT SAVE AREA
752	(2F0)	SIGNED	2	PPPCKPP	LOG PAGES/CKPT COUNTER
754	(2F2)	SIGNED	2	PPPCKPLS	LINES/LOG PAGE SAVE AREA
756	(2F4)	SIGNED	2	PPPCKPL	LINES/LOG PAGE COUNTER
760	(2F8)	ADDRESS	4	PPPWKJOE	Address of real work JOE
764	(2FC)	ADDRESS	4	PPPJOAA	Address of JOA that corresponds to PPPWKJOE
768	(300)	CHARACTER	8	PPPWKFRM	WORK AREA FOR DEVICE FORMS
776	(308)	CHARACTER	0	PPPWKWFM(0)	BACKUP AREA FOR LIST OF FORMS
840	(348)	CHARACTER	8	PPPBLKWK(0)	WORK AREA FOR BLOCK ROUTINE
840	(348)	CHARACTER	4	PPPWKFCB	WORK AREA FOR DEVICE FCB
844	(34C)	CHARACTER	4	PPPWKUCS	WORK AREA FOR DEVICE UCS
848	(350)	SIGNED	4	PPPBSPCT	BSP FRAME PAGE COUNTER
NOTE: Keep PPPCCWPU,PPPPURCB, and PPPPUBFO together					
852	(354)	SIGNED	4	PPPLNDSP(0)	PRT BLK LETTER NEW LINE DISPL'T
852	(354)	BITSTRING	6	PPPCCWPU	MQTR OF LAST PU CCW
858	(35A)	SIGNED	2	PPPLNCTR(0)	PRT BLK LETTER LINE COUNTER
858	(35A)	BITSTRING	2	PPPPURCB	RCB OF LAST PU CCW
860	(35C)	BITSTRING	1	PPPPUBFO	BUFFER OFFSET OF LAST PU CCW
861	(35D)	BITSTRING	1	PPPL3625	LAST 3525 PRINT LINE COMMAND
862	(35E)	BITSTRING	1	PPPRSC38	MOST RECENT 3800 SELECT CCW
863	(35F)	BITSTRING	1	PPPTRC38	MAXIMUM 3800 TABLE REF CHAR VALUE
864	(360)	CHARACTER	80	PPPMSG	MESSAGE WORK AREA
864	(360)	X'360'	0	PPPMSFRM	"PPPMSG,L'PDBFORMS" SAVE AREA FOR FORMS
864	(360)	X'368'	0	PPPMSFCB	"PPPMSG+L'PDBFORMS,L'PDBFCB" SAVE AREA FOR FCB
864	(360)	X'36C'	0	PPPMSUCS	"PPPMSG+L'PDBFORMS+L'PDBFCB,L'PDBUCS" SAVE AREA UCS
944	(3B0)	CHARACTER	8	PPPSFORM	SETUP FORM NUMBER
952	(3B8)	CHARACTER	4	PPPSFCB	SETUP FCB IMAGE
956	(3BC)	CHARACTER	4	PPPSCHR1	SETUP TRANSLATE TABLE 1
960	(3C0)	CHARACTER	4	PPPSCHR2	SETUP TRANSLATE TABLE 2
964	(3C4)	CHARACTER	4	PPPSCHR3	SETUP TRANSLATE TABLE 3
968	(3C8)	CHARACTER	4	PPPSCHR4	SETUP TRANSLATE TABLE 4
972	(3CC)	CHARACTER	4	PPPSFLSH	SETUP FLASH ID
976	(3D0)	CHARACTER	4	PPPSMODI	SETUP MODIFICATION IMAGE
980	(3D4)	BITSTRING	1	PPPSFLSC	SETUP FLASH COUNT
981	(3D5)	BITSTRING	1	PPPSMODT	SETUP MODIFICATION TRC
982	(3D6)	BITSTRING	1	PPPSSCOP	SETUP STARTING COPY NUMBER
983	(3D7)	BITSTRING	1	PPPSCOPN	SETUP NO. COPIES THIS XMISSION
984	(3D8)	BITSTRING	1	PPPSFL38	3800 SETUP FLAG
		1...		PPPSBRST	"B'10000000'" SETUP BURST=YES FLAG
		.1..		PPPSREXM	"B'01000000'" RETRANSMISSION FLAG

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PPPSSEP	"B'00100000'" SETUP FOR SEPARATORS
		...1		PPPSNFLS	"B'00010000'" SETUP FLASH=NO FLAG
		.... 1...		PPPSPCMD	"B'00001000'" SETUP FOR CMD MSG
985	(3D9)	BITSTRING	1		Reserved for future use
986	(3DA)	CHARACTER	8	PPPKEY(0)	JOB KEY AND DATA SET KEY
986	(3DA)	CHARACTER	4	PPPJKEY	JOB KEY FROM JCT
990	(3DE)	CHARACTER	4	PPPDSKEY	DATA SET KEY FROM PDDB
994	(3E2)	BITSTRING	2	PPPDSORT	Sort key generation field (low order two bytes of PDBCRTME)
996	(3E4)	BITSTRING	2	PPPDSINS	Instance id from PDDB
1000	(3E8)	SIGNED	4	PPPFBPGC	$F/$B PAGE COUNT
1004	(3EC)	SIGNED	4	PPPOIOB	OUTPUT IOB ADDRESS
1008	(3F0)	SIGNED	4	PPPIIOB	INPUT IOB ADDRESS
1012	(3F4)	SIGNED	4	PPPOCCWP	PRIMARY OUTPUT CCW AREA
1016	(3F8)	SIGNED	4	PPPOCCWS	SECONDARY OUTPUT CCW AREA
1020	(3FC)	BITSTRING	6	PPPNXTCL	MQTR OF NEXT TRAKCELL
1026	(402)	BITSTRING	2		Reserved
1028	(404)	SIGNED	4	PPPTRBFT	ADDR OF MTTR/BUFFER ADDR TABLE
1032	(408)	SIGNED	4	PPPCKPTP	CHECKPOINT DATA POINTER
1036	(40C)	ADDRESS	4	PPPIMDTE	ADDR OF HASPIMAG TASK DTE
1040	(410)	SIGNED	4	PPPRATAD(0)	SAVE AREA FOR RAT ADDRESS
1040	(410)	SIGNED	4	PPPPQH38	3800 PAGE QUEUE HEADER ADR G38E
1044	(414)	SIGNED	4	PPPDSRCT	DATA SET RECORD COUNT
1048	(418)	SIGNED	4	PPPNBLK	NUMBER OF DATA BLOCKS READ
1052	(41C)	SIGNED	4	PPPSMFBF	SMF BUFFER SAVE AREA
1056	(420)	SIGNED	4	PPPSMFPQ	SMF BUFS ON PAGE QUEUE
1060	(424)	BITSTRING	1	PPPPSC38	PREVIOUS 3800 STARTING COPY NO.
1061	(425)	BITSTRING	1	PPPPCC38	PREVIOUS 3800 COPY COUNT
1062	(426)	BITSTRING	8	PPPCGR28	3800 COPY GROUPS DISTRIBUTION
1070	(42E)	BITSTRING	1	PPPFLC38	3800 FLASH COUNT
1071	(42F)	BITSTRING	1	PPPPRFLC	PREVIOUS FLASH COUNT
1072	(430)	CHARACTER	28	PPPBSPT	FOUR ENTRY BACKSPACE TABLE
1100	(44C)	ADDRESS	4	PPPBUFER	BUFFER OBTAINED IN $#GET
		PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPPRPU. THIS MATCHES THE ONE DEFINED IN $FSACB.			
1104	(450)	SIGNED	4	PPPAPARM(0)	PARM LIST FOR PRTAUTH
1104	(450)	ADDRESS	4	PPPJCTAD	JCT ADDRESS
1108	(454)	ADDRESS	4	PPPPDDBA	PDDB ADDRESS
1112	(458)	ADDRESS	4	PPPANEWS	JESNEWS ADDRESS
1116	(45C)	CHARACTER	40	PPPLOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
1156	(484)	ADDRESS	4		RESERVED FOR FUTURE USE
1156	(484)	X'38'	0	PPPAPLEN	"*-PPPAPARM" LENGTH OF PRTAUTH PARMLIST END OF PRTAUTH PARM LIST

Table 428. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Work area for ASAXWC macros MACDATE -12/21/18-<0>			
0	(0)	X'488'	0	M00M1405	"PPPLIST" ++ ASAXWC NAME
1160	(488)	SIGNED	4	PPPLIST(0)	++ ASAXWC PARM LIST
1160	(488)	CHARACTER	4	PPPLIST_XPARMAREA1	++ FIELD_LABEL
1164	(48C)	CHARACTER	24	PPPLIST_XPARMAREA2	++ FIELD_LABEL
1164	(48C)	X'4A4'	0	PPPLIST_PL_END	"*" ++ END OF BASE PLIST
1160	(488)	ADDRESS	4	PPPLIST_XPATTERNSTR_ADDR	++ ADDR
1164	(48C)	SIGNED	4	PPPLIST_XPATTERNSTRLEN	++
1168	(490)	ADDRESS	4	PPPLIST_XSTRING_ADDR	++ ADDR
1172	(494)	SIGNED	4	PPPLIST_XSTRINGLEN	++
1176	(498)	ADDRESS	4	PPPLIST_XZEROORMORE_ADDR	++ ADDR
1180	(49C)	ADDRESS	4	PPPLIST_XONECHAR_ADDR	++ ADDR
1184	(4A0)	ADDRESS	4	PPPLIST_XDELIMITER_ADDR	++ ADDR
1160	(488)	ADDRESS	4	PPPLIST_XPPPATTERNINFO_ADDR	++ ADDR
1164	(48C)	ADDRESS	4	PPPLIST_XPPPATTERNSTR_ADDR	++ ADDR
1168	(490)	SIGNED	4	PPPLIST_XPPPATTERNSTRLEN	++
1172	(494)	ADDRESS	4	PPPLIST_XPPZEROORMORE_ADDR	++ ADDR
1176	(498)	ADDRESS	4	PPPLIST_XPPONECHAR_ADDR	++ ADDR
1180	(49C)	ADDRESS	4	PPPLIST_XPPDELIMITER_ADDR	++ ADDR
1164	(48C)	ADDRESS	4	PPPLIST_XPPSTRING_ADDR	++ ADDR
1168	(490)	SIGNED	4	PPPLIST_XPPSTRINGLEN	++
1188	(4A4)	X'1C'	0	PPPLISTL	"*-PPPLIST" ++ LENGTH OF PLIST
		ASAXWC-0			
1188	(4A4)	BITSTRING	256	PPPAREA	Work area passed to ASAXWC
1188	(4A4)	X'4A4'	0	PPPWRK18	"PPPAREA,18,C'C'" 18-byte work area
1444	(5A4)	SIGNED	4	PPPOILNL(3)	OIL/NIL regs save area
1456	(5B0)	DBL WORD	8	(0)	
1456	(5B0)	X'468'	0	PPPLEN	"*-PCEWORK" SIZE OF PPU PCE WORK AREA

Table 429. Cross Reference for $PPPWORK

Name	Offset	Hex Tag
M00M1405	0	488
PCE	0	
PPPADNUM	1E2	
PPPANEWS	458	
PPPAPARM	450	
PPPAPLEN	484	38
PPPAREA	4A4	
PPPBFADR	160	
PPPBFAD2	1EC	
PPPBFLRC	17E	
PPPBFOPT	14D	

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPBFSAV	164	
PPPBFSV2	1E8	
PPPBLKWK	348	
PPPBPHPC	2B2	
PPPBSPCT	350	
PPPBSPT	430	
PPPBUFAV	195	
PPPBUFER	44C	
PPPBUFRO	194	
PPPBUFSV	230	
PPPCCWPU	354	
PPPCCWRK	188	
PPPCGCNT	29A	
PPPCGR28	426	
PPPCHKBF	198	
PPPCKPL	2F4	
PPPCKPLS	2F2	
PPPCKPP	2F0	
PPPCKPPS	2EE	
PPPCKPTD	2BA	280
PPPCKPTP	408	
PPPCOPCT	298	
PPPCVERS	2B1	
PPPDADCT	2B8	
PPPDCTFL	14C	
PPPDDBDS	282	
PPPDDBPC	284	
PPPDEVB1	2DC	2DF
PPPDEVB2	2DC	2DE
PPPDEVTP	2DC	
PPPDSCPY	196	
PPPDSCT	29B	
PPPDSINS	3E4	
PPPDSKEY	3DE	
PPPDSORT	3E2	
PPPDSRCT	414	
PPPEBRCB	280	
PPPERCNT	17D	
PPPERMSG	208	
PPPFBPGC	3E8	
PPPFCBMP	17B	
PPPFIOTA	1B0	
PPPFIOTK	1A8	
PPPFLAG1	148	
PPPFLAG2	149	
PPPFLAG3	14A	

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPFLAG4	174	
PPPFLAG5	175	
PPPFLAG6	176	
PPPFLAG7	177	
PPPFLC38	42E	
PPPFPDDB	1B4	
PPPFSWTR	1B8	
PPPHRSN	204	
PPPIIOB	3F0	
PPPIIOB2	1E4	
PPPIMDTE	40C	
PPPIOTAD	22C	
PPPIOTTK	2BA	
PPPJCTAD	450	
PPPJCTBF	168	
PPPJKEY	3DA	
PPPJOAA	2FC	
PPPJOEFL	17A	
PPPJSWBT	1D0	
PPPKEY	3DA	
PPPKYLST	1C8	
PPPLCCNT	288	
PPPLCCWA	16C	
PPPLCCWO	170	
PPPLEBOF	299	
PPPLEBTK	2B4	
PPPLEN	5B0	468
PPPLIST	488	
PPPLIST_PL_END	48C	4A4
PPPLIST_XDELIMITER_ADDR	4A0	
PPPLIST_XONECHAR_ADDR	49C	
PPPLIST_XPARMAREA1	488	
PPPLIST_XPARMAREA2	48C	
PPPLIST_XPATTERNSTR_ADDR	488	
PPPLIST_XPATTERNSTRLEN	48C	
PPPLIST_XPPDELIMITER_ADDR	49C	
PPPLIST_XPPONECHAR_ADDR	498	
PPPLIST_XPPPATTERNINFO_ADDR	488	
PPPLIST_XPPPATTERNSTR_ADDR	48C	
PPPLIST_XPPPATTERNSTRLEN	490	
PPPLIST_XPPSTRING_ADDR	48C	
PPPLIST_XPPSTRINGLEN	490	
PPPLIST_XPPZEROORMORE_ADDR	494	
PPPLIST_XSTRING_ADDR	490	
PPPLIST_XSTRINGLEN	494	
PPPLIST_XZEROORMORE_ADDR	498	

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPLISTL	4A4	1C
PPPLNCTR	35A	
PPPLNDSP	354	
PPPLNECT	2E4	
PPPLOGST	45C	
PPPLSAVE	2E0	
PPPL3625	35D	
PPPMEST	1D8	
PPPMESZ	1D6	
PPPMOSZ	1D4	
PPPMSFCB	360	368
PPPMSFRM	360	360
PPPMSG	360	
PPPMSUCS	360	36C
PPPNBLK	418	
PPPNSWB	1A0	
PPPNXTCL	3FC	
PPPOCCWP	3F4	
PPPOCCWS	3F8	
PPPOILNL	5A4	
PPPOIOB	3EC	
PPPPAGCT	28C	
PPPPAGNM	2A0	
PPPPCC38	425	
PPPPDDBA	454	
PPPPDIRI	197	
PPPPLC	2E8	
PPPPLC2	2EC	
PPPPNUMR	190	
PPPPQH38	410	
PPPPRFLC	42F	
PPPPSC38	424	
PPPPUBFO	35C	
PPPPURCB	35A	
PPPRATAD	410	
PPPRCBSV	180	
PPPRECNM	29C	
PPPRESP	1A4	
PPPRMSEL	172	
PPPRSC38	35E	
PPPSAVDF	179	
PPPSBMPL	1DC	
PPPSBRST	3D8	80
PPPSCHR1	3BC	
PPPSCHR2	3C0	
PPPSCHR3	3C4	

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPSCHR4	3C8	
PPPSCOPN	3D7	
PPPSEGID	1F0	
PPPSEPPG	1A5	
PPPSESSA	19C	
PPPSFCB	3B8	
PPPSFLSC	3D4	
PPPSFLSH	3CC	
PPPSFL38	3D8	
PPPSFORM	3B0	
PPPSMFBF	41C	
PPPSMFPQ	420	
PPPSMODI	3D0	
PPPSMODT	3D5	
PPPSNFLS	3D8	10
PPPSPCMD	3D8	8
PPPSPCTR	1A6	
PPPSREXM	3D8	40
PPPSSCOP	3D6	
PPPSSEP	3D8	20
PPPSSRWK	230	
PPPSWBIT	1BC	
PPPSWBRC	1FE	
PPPSWBRS	200	
PPPS6DCI	14B	
PPPTIMON	158	
PPPTRBFT	404	
PPPTRC38	35F	
PPPTUADR	1CC	
PPPTURET	1C0	
PPPTUSPL	1C4	
PPPTUSUM	1A2	
PPPTUSZ	1E0	
PPPUCB	150	
PPPUECCW	154	
PPPWKFCB	348	
PPPWKFRM	300	
PPPWKJOE	2F8	
PPPWKPTN	1F8	
PPPWKUCS	34C	
PPPWKWFM	308	
PPPWRK18	4A4	4A4
PPPXPARM	1F4	
PPPXTCCW	154	
PPP1DRER	148	4
PPP1FNCI	148	8

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPP1JIRE	148	2
PPP1NSKP	148	20
PPP1SUSP	148	40
PPP1TERM	148	10
PPP1WRTS	148	80
PPP2CKPA	149	10
PPP2CKPN	149	20
PPP2FDS	149	2
PPP2OPTJ	149	4
PPP2PCIW	149	8
PPP2READ	149	40
PPP2SMFE	149	1
PPP2TCEL	149	80
PPP3CKRP	14A	8
PPP3CKRS	14A	2
PPP3CKSU	14A	4
PPP3CK38	14A	10
PPP3INIT	14A	1
PPP3NAVL	14A	20
PPP3RECV	14A	40
PPP3TRNC	14A	80
PPP3211I	173	
PPP4CALL	174	1
PPP4EX15	174	20
PPP4FAUT	174	2
PPP4FPRD	174	4
PPP4PS38	174	80
PPP4QSMF	174	8
PPP4RPBS	174	10
PPP43081	174	40
PPP5AUTF	175	2
PPP5DSOP	175	80
PPP5IDSK	175	20
PPP5IJBK	175	40
PPP5IMTT	175	8
PPP5IOER	175	10
PPP5OJOE	175	4
PPP5T185	175	1
PPP6ABND	176	1
PPP6BFER	176	8
PPP6DSMR	176	4
PPP6LERR	176	80
PPP6MRGR	176	2
PPP6NEWS	176	40
PPP6NODS	176	10
PPP6SWBD	176	20

Table 429. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPP7RTRI	177	80
PPP7SMFU	177	20
PPP7SMRC	177	40
PPP7TRAN	177	10
PPP7TRLR	177	4
PPP71PPF	177	8

$PQE information

$PQE programming interface information

$PQE is a programming interface.

$PQE heading information

Common name: JES2 3800 Page Queue Entry

Macro ID: $PQE

DSECT name: PQE

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.

Size: See PQELENG

Created by: JES2 Print/Punch PCE for a 3800 printer

Pointed to by: PQENEXT field of the PQE data area
PQEPREV field of the PQE data area
PQECPQED field of the PQE data area
PQEJNEXT field of the PQE data area
PQHFIRST field of the PQH data area
PQHLAST field of the PQH data area
PQHFREE field of the PQH data area
PQHOPQE field of the PQH data area
PQHTPQE field of the PQH data area
PQHPQEJ field of the PQH data area

Serialization: Serialized under the JES2 TCB

Function: The PQEs contain 3800 printer page information

$PQE mapping

Table 430. Structure PQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PQE	3800 PAGE QUEUE ENTRY G38E
0	(0)	SIGNED	4	PQENEXT	ADDRESS OF NEXT PQE G38E
4	(4)	SIGNED	4	PQEPREV	ADDRESS OF PREVIOUS PQE G38E
8	(8)	SIGNED	4	PQEHDR	ADDRESS OF EXTENT HEADER
12	(C)	BITSTRING	1	PQETYPE	TYPE OF PQE G38E
		1...		PQEC	"B'10000000'" CHECKPOINT PQE G38E
		.1..		PQES	"B'01000000'" SMF TYPE 6 PQE G38E
		..1.		PQEJ	"B'00100000'" JOB START PQE G38E

Table 430. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		PQED	"B'00010000'" DATA SET PQE G38E
13	(D)	BITSTRING	1	PQESPEC(0)	START OF SPECIFIC SECTION G38E
PQE FIELDS -- USED AS A CHECKPOINT ENTRY G38E					
13	(D)	BITSTRING	1	PQECFLAG	CHECKPOINT PQE FLAG G38E
		1...		PQECFPG	"B'10000000'" FIRST PAGE OF DATA SET G38E
		.1..		PQECLPG	"B'01000000'" LAST PAGE OF DATA SET G38E
		..1.		PQECBSP	"B'00100000'" PQE SAVED FOR BACKSPACE G38E
14	(E)	SIGNED	2	PQECPGID	CHANNEL PAGE ID G38E
16	(10)	SIGNED	4	PQECSENS(0)	ADR OF SENSED ID AND FCBLN G38E
16	(10)	SIGNED	2	PQERPGID	REPOSITION PAGE ID G38E
18	(12)	SIGNED	2	PQEFCBLN	FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQECPQED	ADDRESS OF DATA SET PQE G38E
24	(18)	SIGNED	4	PQECPPCT	PDDB LOGICAL PAGE COUNT G38E
28	(1C)	SIGNED	4	PQECTLNC	TOTAL JOE LINE COUNT G38E
32	(20)	SIGNED	4	PQECTPCT	TOTAL JOE PAGE COUNT G38E
36	(24)	BITSTRING	6	PQECMQTR	Track address (MQTR) of spool data.
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	PQECRECN	# RECORDS PRINTED SO FAR G38E
48	(30)	SIGNED	2	PQECJRCB	DISP INTO EJECT BUFFER G38E
PQE FIELDS -- USED AS AN SMF TYPE 6 PQE G38E					
13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQESBUF	ADDRESS OF SMF BUFFER G38E
PQE FIELDS -- USED AS A JOB START PQE G38E					
13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQEJWJOE	ADDRESS OF WORK JOE G38E
24	(18)	SIGNED	4	PQEJNEXT	ADR OF NEXT PQEJ ON QUEUE G38E
PQE FIELDS -- USED AS A DATA SET PQE G38E					
13	(D)	BITSTRING	1	PQEDCOPY	COPY NUMBER IN PROGRESS G38E
14	(E)	BITSTRING	1	PQEDCPYG	OFFSET INTO COPY GROUP G38E
15	(F)	BITSTRING	1	PQEDTNDS	TOTAL JOE DATA SET COUNT G38E
16	(10)	SIGNED	4	PQEDWJOE	ADDRESS OF WORK JOE G38E
20	(14)	BITSTRING	6	PQEDIOTK	Current IOT track address (MQTR).
26	(1A)	BITSTRING	2		Reserved

Table 430. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	PQEDJBNO	Job number
32	(20)	BITSTRING	4	PQEDJKEY	JOB IDENTIFIER KEY G38E
36	(24)	SIGNED	2	PQEDPDDB	DISP OF PDDB INTO IOT G38E
38	(26)	BITSTRING	1	PQEDCGCT	COPY GROUP CT FOR DATA SET G38E
39	(27)	BITSTRING	1	PQEDFLAG	DATA SET PQE FLAG BYTE G38E
		1...		PQEDLAST	"B'10000000'" LAST DATA SET OF JOE G38E
		.1..		PQEDCAN	"B'01000000'" JOE CANCELLED G38E
		..1.		PQEDINT	"B'00100000'" JOE INTERRUPTED G38E
		...1		PQEDRPT	"B'00010000'" JOE REPEATED G38E
		.... 1...		PQEDRST	"B'00001000'" JOE RESTARTED G38E
		.... .1..		PQEDALOC	"B'00000100'" ALLOCATION IOT G38E
		.... ..1.		PQEDCJP	"B'00000010'" JOE CANCELLED BY $CJP
		1		PQEDADD	"B'00000001'" JOE ADDED FOR $EPRT
40	(28)	BITSTRING	8	PQEDCGRP	DATASET COPY GROUPS
48	(30)	BITSTRING	1	PQEDSCPY	DATASET COPY COUNT
49	(31)	BITSTRING	4	PQEDSKEY	DATASET KEY
53	(35)	BITSTRING	2	PQEDSINS	Dataset multi-dest instance
55	(37)	BITSTRING	2	PQEDSORT	Sort key generation field (low order two bytes of PDBCRTME)
57	(39)	CHARACTER	64	PQEDJCOR	Job Correlator
121	(79)	BITSTRING	1	PQEFLAGF	FREE PQE INDICATOR
		1111 1111		PQEFFREE	"X'FF'" ON FREE QUEUE
124	(7C)	SIGNED	4	PQEEND(0)	END OF PQEC G38E
124	(7C)	X'C'	0	PQEDATA	"PQETYPE,PQEEND-PQETYPE" START OF PQE DATA
124	(7C)	X'7C'	0	PQELENG	"PQEEND-PQE" LENGTH OF PQEC G38E

Table 431. Cross Reference for $PQE

Name	Offset	Hex Tag
PQE	0	
PQEC	C	80
PQECBSP	D	20
PQECFLAG	D	
PQECFPG	D	80
PQECJRCB	30	
PQECLPG	D	40
PQECMQTR	24	
PQECPGID	E	
PQECPPCT	18	
PQECPQED	14	
PQECRECN	2C	
PQECSENS	10	
PQECTLNC	1C	
PQECTPCT	20	
PQED	C	10
PQEDADD	27	1

Table 431. Cross Reference for $PQE (continued)

Name	Offset	Hex Tag
PQEDALOC	27	4
PQEDATA	7C	C
PQEDCAN	27	40
PQEDCGCT	26	
PQEDCGRP	28	
PQEDCJP	27	2
PQEDCOPY	D	
PQEDCPYG	E	
PQEDFLAG	27	
PQEDINT	27	20
PQEDIOTK	14	
PQEDJBNO	1C	
PQEDJCOR	39	
PQEDJKEY	20	
PQEDLAST	27	80
PQEDPDDB	24	
PQEDRPT	27	10
PQEDRST	27	8
PQEDSCPY	30	
PQEDSINS	35	
PQEDSKEY	31	
PQEDSORT	37	
PQEDTNDS	F	
PQEDWJOE	10	
PQEEND	7C	
PQEFCBLN	12	
PQEFFREE	79	FF
PQEFLAGF	79	
PQEHDR	8	
PQEJ	C	20
PQEJNEXT	18	
PQEJWJOE	14	
PQELENG	7C	7C
PQENEXT	0	
PQEPREV	4	
PQERPGID	10	
PQES	C	40
PQESBUF	14	
PQESPEC	D	
PQETYPE	C	

$PREBERT information

$PREBERT heading information

Common name: Prefix for BERT processing

Macro ID:	$PREBERT
DSECT name:	PREBERT and PBEUSER
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	Varies according to block being mapped Offset: 0 Length: 4
Storage attributes:	Subpool: 0 Key: 1 or 8 (Depends upon whether the control block following this prefix is READONLY or UPDATE Residency: JES2 address space, above or below the line
Size:	See PBESIZE and PBEUSIZE
Created by:	Any service routine which in turn uses the $DOGBERT service routine.
Pointed to by:	$PBELST field of the $HCT data area points to chain of locked PREBERTs in UPDATE mode PBEUSERS field of the PREBERT points to first PBEUSER PBEUPBEU field of the PBEUSER points to next PBEUSER Implicitly pointed to by anyone calling the $DOGBERT service. The PREBERT is always in front of the block of memory specified via $CBADDR keyword
Serialization:	None
Function:	The PREBERT is used by the $DOGBERT service to control and record access to data in the BERT. The PBEUSER is used by $DOGJQE service to control stack of users using a given PREBERT in UPDATE mode.

$PREBERT mapping

Table 432. Structure PREBERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PREBERT	, Prefix for BERT processing
0	(0)	CHARACTER	4	PBEID	Identity of block following
4	(4)	BITSTRING	4	PBETOKEN	BERT token
8	(8)	BITSTRING	1	PBEUSERS	Owner information (see PBEUSER DSECT for mapping)
		PBEPCE points to the PCE that owns this element. If the high bit is on in the word, that indicates that TERM should never free this if the PCE ABENDs. This is because the PCE may be serving multiple non-main task requestors.			
28	(1C)	ADDRESS	4	PBEPCE	PCE address or zero
		1...		PBEPCED	"X'80'" If set in PBEPCE, then PCE has been DETACHed
28	(1C)	X'1C'	0	PBETCB	"PBEPCE,4,C'A'" TCB addr if not main task
32	(20)		1	PBETTOKN	Owning TTOKEN (if $JQESERV)
48	(30)	SIGNED	4	PBEINDEX	Index into CTENT for block
52	(34)	SIGNED	4	PBEINDX2	2ndary control block index
56	(38)	ADDRESS	4	PBENEXT	Address of next PREBERT on PCE chain
60	(3C)	ADDRESS	4	PBEPREV	Address of previous PREBERT on PCE chain
64	(40)		1	PBEPWAIT	Time PCE last $WAITed when $DOGBERT called for FETCH - or - Time PCE ABENDed while owning the BERT lock
80	(50)	BITSTRING	1	PBEUSEQ	Update sequence field (managed by $DOGBERT)
81	(51)	BITSTRING	1	PBEDGBF1	In line flag $DGBFLAG moved here if $DGB2PBE on

Table 432. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

					`DGBWAIT EQU B'10000000' $WAIT is allowed`
					`DGBQSUS EQU B'01000000' Get the queues`
					`DGBUPDT EQU B'00100000' Update access needed`
					`DGBNAME EQU B'00010000' NAME= was passed`
					`DGBTOKN EQU B'00001000' TOKEN= was passed`
					`DGBSPEC EQU B'00000100' SPECIAL=YES was specified`
					`DGBNUPD EQU B'00000010' No write update requested`
					`DGBNRDD EQU B'00000001' No read data requested`

82	(52)	BITSTRING	1	PBEDGBF2	In line flag $DGBFLG2 moved here if $DGB2PBE on

					`DGB2CRE EQU B'10000000' ACTION=(,CREATE) spec`
					`DGB2UNK EQU B'01000000' CB type unknown`
					`DGB2PAD EQU B'00100000' ACTION=(CKPT,PAD)`
					`DGB2PBE EQU B'00010000' Reserved`
					`DGB2NEV EQU B'00001000' MOREBERTS=NEVER`

83	(53)	BITSTRING	1	PBEMVERS	$MSTRVER level when built
84	(54)	BITSTRING	1	PBEFLAG1	Access flags (managed by DOGBERT, INIT, and TERM)
		1...		PBE1UPDT	"B'10000000'" UPDATE mode
		.1..		PBE1READ	"B'01000000'" READ mode
		..1.		PBE1SPEC	"B'00100000'" SPECIAL mode
		...1		PBE1DOGB	"B'00010000'" DOGBERT used to construct block
		.... 1...		PBE1NEWB	"B'00001000'" New BERT was obtained
		.... .1..		PBE1ABND	"B'00000100'" Owned by ABENDing PCE
		1		PBE1PAD	"B'00000001'" Retain maximum BERTs
85	(55)	BITSTRING	1	PBEFLAG2	Flags (managed by services at a higher level than DOGBERT)
		1...		PBE2UPDT	"B'10000000'" Data orig. update mode
		.1..		PBE2PSEU	"B'01000000'" Pseudo-BERT (does not contain real BERT data)
		..1.		PBE2FREB	"B'00100000'" BERT lock freed via (MANAGELOCK,RELEASE)
		...1		PBE2LONG	"B'00010000'" GETWORK area includes JQO
		.... 1...		PBE2EMPT	"B'00001000'" Block following is empty
		.... .1..		PBE2FREE	"B'00000100'" Memory for block freed
		1		PBE2DSTK	"B'00000001'" When creating a stack element, turn on PBEU1PCE
					`DOGDJB managed bits`
		1...		PBE2CACH	"B'10000000'" DJB in read cache
		.1..		PBE2INV	"B'01000000'" Cached DJB invalidated
		..1.		PBE2PXEQ	"B'00100000'" Pretend job in family is executing
		...1		PBE2CACE	"B'00010000'" DJB eligible for caching
86	(56)	BITSTRING	1	PBEBTYPE	BERT type (same as BRTTYPE)
87	(57)	BITSTRING	1	PBEFLAG3	Flags (managed by services at a higher level than DOGBERT)
		1...		PBE3QPSY	"B'10000000'" Perform QPOST when JQA returned no matter what

Table 432. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		PBE3#PSY	"B'01000000'" Perform $#POST when JQA returned no matter what
		..1.		PBE3#KPJ	"B'00100000'" $#POST to be done with CLEAR_JWEL=NO
		...1		PBE3#JOT	"B'00010000'" $#POST required to manage JOECRTME
		.... 1...		PBE3CTCI	"B'00001000'" 'CAT Cache' element indicator. Denotes if an element in the 'CAT Cache' is a CAT(OFF) or a GRPOBJ(ON). See $CAT 'CAT Cache' info.
		.... .1..		PBE3ALLQ	"B'00000100'" If PBE2PSEU=ON, this indicates if $DOGCAT/ CATREAD is processing 'Pseudo CATs' (NON-execution queues) for ALLQUES=YES.
		.... ..1.		PB3PRIV	"B'00000010'" Privileged resource
88	(58)	SIGNED	2	PBEDLEN	Size of the BERT data area
90	(5A)	BITSTRING	1	PBEFLAG4	Concurrent set flags
		1...		PBE4SCSP	"B'10000000'" Skip concurrent set post processing
		.1..		PBE4DCSP	"B'01000000'" Do concurrent set processing in DILBERT
		..1.		PBE4FCSP	"B'00100000'" Force concurrent set processing in DILBERT
91	(5B)	BITSTRING	1	PBE#FBRT	Num BERTs at DOGBERT FETCH or FETCHNEXT
92	(5C)	SIGNED	4	PBE#BRTS	Number of BERTs used to store this block's data Odd bndry for non-atomic
92	(5C)	X'60'	0	PBEDATA	"*" Beginning of actual data
92	(5C)	X'60'	0	PBESIZE	"*-PREBERT"

Table 433. Structure PBEUSER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBEUSER	, PREBERT user stack element
0	(0)	CHARACTER	4	PBEUID	Eye catcher
4	(4)	ADDRESS	4	PBEUPBEU	Address of prior user block
8	(8)	ADDRESS	4	PBEUPBE	Address of PREBERT
12	(C)	ADDRESS	4	PBEULINK	R14 value of $DOGxxx caller
16	(10)	BITSTRING	1	PBEUFLG1	Flags
		1...		PBEU1USE	"B'10000000'" User block in use
		.1..		PBEU1PCE	"B'01000000'" An existing PREBERT for this PCE was used
		..1.		PBEU1RD	"B'00100000'" Caller wanted read mode
17	(11)	SIGNED	1	PBEUEXID	Exit ID in control when built (0 if IBM code)
18	(12)	BITSTRING	2		Reserved for future use
18	(12)	X'14'	0	PBEUSIZE	"*-PBEUSER" Size of User block

Table 434. Cross Reference for $PREBERT

Name	Offset	Hex Tag
PBE#BRTS	5C	
PBE#FBRT	5B	

Table 434. Cross Reference for $PREBERT (continued)

Name	Offset	Hex Tag
PBEBTYPE	56	
PBEDATA	5C	60
PBEDGBF1	51	
PBEDGBF2	52	
PBEDLEN	58	
PBEFLAG1	54	
PBEFLAG2	55	
PBEFLAG3	57	
PBEFLAG4	5A	
PBEID	0	
PBEINDEX	30	
PBEINDX2	34	
PBEMVERS	53	
PBENEXT	38	
PBEPCE	1C	
PBEPCED	1C	80
PBEPREV	3C	
PBEPWAIT	40	
PBESIZE	5C	60
PBETCB	1C	1C
PBETOKEN	4	
PBETTOKN	20	
PBEUEXID	11	
PBEUFLG1	10	
PBEUID	0	D7E4E2D9
PBEULINK	C	
PBEUPBE	8	
PBEUPBEU	4	
PBEUSEQ	50	
PBEUSER	0	
PBEUSERS	8	
PBEUSIZE	12	14
PBEU1PCE	10	40
PBEU1RD	10	20
PBEU1USE	10	80
PBE1ABND	54	4
PBE1DOGB	54	10
PBE1NEWB	54	8
PBE1PAD	54	1
PBE1READ	54	40
PBE1SPEC	54	20
PBE1UPDT	54	80
PBE2CACE	55	10
PBE2CACH	55	80
PBE2DSTK	55	1
PBE2EMPT	55	8

Table 434. Cross Reference for $PREBERT (continued)

Name	Offset	Hex Tag
PBE2FREB	55	20
PBE2FREE	55	4
PBE2INV	55	40
PBE2LONG	55	10
PBE2PSEU	55	40
PBE2PXEQ	55	20
PBE2UPDT	55	80
PBE3#JOT	57	10
PBE3#KPJ	57	20
PBE3#PSY	57	40
PBE3ALLQ	57	4
PBE3CTCI	57	8
PBE3QPSY	57	80
PBE4DCSP	5A	40
PBE4FCSP	5A	20
PBE4SCSP	5A	80
PB3PRIV	57	2
PREBERT	0	

$PRGWORK information

$PRGWORK programming interface information

$PRGWORK is a programming interface.

$PRGWORK heading information

Common name: JES2 Purge PCE Work Area

Macro ID: $PRGWORK

DSECT name: PCE ($PRGWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol PRGWLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $PURGPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Purge PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Purge Processor and by its support routines and exits. $PRGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PRGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRGID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$PRGWORK mapping

Table 435. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	ADDRESS	4	PRGWPRM	NODE TABLE ADDRESS
332	(14C)	ADDRESS	4		CONTROL BLOCK ADDRESS
336	(150)	ADDRESS	4		ADDRESS OF JQE
340	(154)	ADDRESS	1		QUEUE TYPE SPECIFIED
341	(155)	ADDRESS	1		WORK SELECTION TYPE FLAG
342	(156)	ADDRESS	1		Response byte flags
343	(157)	ADDRESS	1		Reserved
343	(157)	X'148'	0	PRGWLST	"PRGWPRM,*-PRGWPRM" QGET PARAMETER LIST STORAGE
344	(158)	SIGNED	4	PRGBLD(0)	Control block ID
348	(15C)	BITSTRING	4		Console ID
352	(160)	ADDRESS	4		Address of the CART
356	(164)	ADDRESS	4		Pointer for JOBID
360	(168)	ADDRESS	4		Control block address
364	(16C)	ADDRESS	4		Display routine address
368	(170)	ADDRESS	4	(6)	6 word work area
392	(188)	ADDRESS	4		Caller's R11 value
396	(18C)	BITSTRING	2		ROUT code for Message
398	(18E)	BITSTRING	2		Not used
400	(190)	CHARACTER	4		Message ID
404	(194)	CHARACTER	1		Separator character
405	(195)	ADDRESS	1		Flag byte 1
406	(196)	ADDRESS	1		'DISPER'
407	(197)	ADDRESS	1		Flag byte 2
408	(198)	ADDRESS	1		Flag byte 3
409	(199)	ADDRESS	1		Severity of message
410	(19A)	CHARACTER	8		Symbolic name of dest.
418	(1A2)	BITSTRING	14		Not used
432	(1B0)	ADDRESS	4	(0)	Ensure multiple of 4
432	(1B0)	ADDRESS	2	(0)	
432	(1B0)	BITSTRING	1	PRGFLAG1	Flags
		1...		PRG1DUPL	"B'10000000'" Job held for duplicate jobname at least once
		.1..		PRG1JCTR	"B'01000000'" The JCT for the currently purging job has been read
		..1.		PRG1LSPN	"B'00100000'" Job went thru unspun
		...1		PRG1XWTR	"B'00010000'" At lease one work JOE was removed by external dev.

Table 435. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		PRG1EXJO	"B'00001000'" Exited JOE loop early
433	(1B1)	BITSTRING	1	PRGJQEF	JQEFLAG1 saved here
434	(1B2)	BITSTRING	1	PRGJQEF5	JQEFLAG5 saved here
435	(1B3)	BITSTRING	1		Reserved
436	(1B4)	ADDRESS	4	PRGSNFL	Anchor for MTT list
440	(1B8)	CHARACTER	64	PRGJCOR	Job correlator for SMF
504	(1F8)	DBL WORD	8	(0)	Ensure double word length
504	(1F8)	X'B0'	0	PRGWLEN	"*-PCEWORK" WORK AREA LENGTH

Table 436. Cross Reference for $PRGWORK

Name	Offset	Hex Tag
PCE	0	
PRGBLD	158	C2D3C440
PRGFLAG1	1B0	
PRGJCOR	1B8	
PRGJQEF	1B1	
PRGJQEF5	1B2	
PRGSNFL	1B4	
PRGWLEN	1F8	B0
PRGWLST	157	148
PRGWPRM	148	
PRG1DUPL	1B0	80
PRG1EXJO	1B0	8
PRG1JCTR	1B0	40
PRG1LSPN	1B0	20
PRG1XWTR	1B0	10

$PSO information

$PSO heading information

Common name: HASP Process Sysout Work Area DSECT

Macro ID: $PSO

DSECT name: PSO

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$PSO'
Offset: PSOID-PSO
Length: 4

Storage attributes: Subpool: n/a
Key: 1
Residency: In the jesxPSO data space

Size: See PSOLNGTH

Created by: Process Sysout Subsystem Interface code running in the requestor's address space.

Pointed to by: SJBPSO field of the $SJB data area
CCTPSO field of the $HCCT data area
PSONEXT field of the $PSO data area
MTRBPARM field of the $MTRB data area

Serialization: Compare and Swap

Function: The PSO contains an image of the IEFSSSO SSOB extension in order that data set selection for External Writers and the TSO OUTPUT command can be supported in the JES2 address space.

$PSO mapping

Table 437. Structure PSO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSO	PSO PARAMETER LIST DSECT
0	(0)	CHARACTER	4	PSOID	Eye catcher
4	(4)	ADDRESS	4	PSONEXT	Addr of next PSO on queue
8	(8)	SIGNED	4	PSOCRDT	ELLIGIBILITY CUT-OFF DATE
12	(C)	BITSTRING	1	PSOPFLAG	FLAG USED BY PSO PROCESSOR
		1...		PSOPFSWT	"B'10000000'" READ BOTH IOT CHAINS
		.1..		PSOPFREQ	"B'01000000'" NEW SELECTION REQUIREMENTS
		.... 1...		PSOPFHLD	"B'00001000'" HOLD AT UNALLOC SPECIFIED
		.... .1..		PSOPFDAU	"B'00000100'" PROCESSING A DAUGHTER CHAIN
		.... ..1.		PSOPFACT	"B'00000010'" Accounting cell addr valid
		1		PSOPFUSR	"B'00000001'" Userid included in PSODEST
13	(D)	BITSTRING	1	PSOPFLG2	Flag used by PSO processor
		1...		PSOP2E58	"B'10000000'" ENF58 Select issued, ENF58 Deselect not yet issued
14	(E)	BITSTRING	18		Reserved for future use
32	(20)	SIGNED	4	PSORSVD2	RESERVED
36	(24)	BITSTRING	960	PSOPDDB	Work area for PDDB
998	(3E6)	BITSTRING	1	PSOUFLG	GROUP REQUEST OPTIONS BYTE
999	(3E7)	CHARACTER	1		RESERVED
1000	(3E8)	BITSTRING	1	PSOFLG1	DATA SET SELECTION CONTROL FLAGS
1001	(3E9)	BITSTRING	1	PSOFLG2	DATA SET DISPOSITION AND CTL FLAGS
1002	(3EA)	SIGNED	2	PSOCOPY	NUMBER OF DATA SET COPIES
1004	(3EC)	CHARACTER	8	PSOJOBN	JOB NAME
1012	(3F4)	CHARACTER	8	PSOJOBI	HASP JOB ID (JOBNNNNN)
1020	(3FC)	CHARACTER	1	PSOCLS	NEW SYSOUT CLASS (GROUP REQ ONLY)
1021	(3FD)	SIGNED	2	PSOMLRL	Maximum Logical record length
		Prior to OY64290, userid was not allowed to be included in destination (SSSODEST) on a Process SYSOUT request. Therefore, flag SSSOUSER was assumed to indicate a TSO RECEIVE request by HASPPSO processing. With OY64290, userid is now allowed: - If SSSOUSER is ON and PSOPFUSR is OFF, the userid in PSOPGMN is for a TSO RECEIVE call. - If both PSOPFUSR and SSSOUSER are ON, then the userid in PSOPGMN is the userid included in the input destination SSSODEST/PSODEST.			
1023	(3FF)	BITSTRING	1	PSOFLGA	Flag byte
1024	(400)	CHARACTER	8	PSODEST	REMOTE USER ID FOR SELECTION
1032	(408)	CHARACTER	8	PSOPGMN	USER WRITER NAME
1040	(410)	CHARACTER	8	PSORBA	RBA OF SYSOUT DATA SET

Table 437. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1048	(418)	CHARACTER	44	PSODSN	SYSOUT DATA SET NAME
1092	(444)	CHARACTER	4	PSOFORM	DATA SET FORM NAME (first 4 bytes if 8 byte form name)
1096	(448)	CHARACTER	8	PSOCLAS	CLASS(ES) TO BE PROCESSED
1104	(450)	ADDRESS	4	PSOWTRC	ADDR OF XWTR PARAMETER LIST
1108	(454)	CHARACTER	8	PSODSID	DATA SET IDENT CHAR STRING
PROCESS SYSOUT EXTENSION (This section is present if flag SSSOPSEE is on in byte PSOFLG2)					
1108	(454)	X'45C'	0	PSOPSE	"*" PROCESS SYSOUT EXTENSION
1116	(45C)	BITSTRING	1	PSOFLG3	BDT CONTROL BYTE
1117	(45D)	BITSTRING	1	PSOFLG4	USER JOB OPTION FLAG
The first release of support for security tokens provided the field SSSOSECT as the address of the security token area which was to be provided by the caller. There was no requirement that the caller provide the length or version that was expected to be returned. It was assumed that the caller would provide an area large enough for the version one form of the SAF token. This new support will allow the caller to specify the length and version of the SAF token. The token will be transformed from the current version and length to the version and length requested by the caller via the TOKENMAP service of the SAF interface. In order to allow migration of process sysout users, a two stage 'commit' is provided. The PSO user can ask that the length and version in the area pointed to by SSSOSECT be used for TOKENMAP by setting SSSOTKNR. If the JES servicing the request has had the other half of this update, it will return the data in the requested format and set SSSOTKNG that says it did so. If the process sysout user does not ask for this service, (by not setting SSSOTKNR), the JES will copy the token to the address specified in SSSOSECT assuming that the length of the area is the same as the SAF version one token length					
1118	(45E)	BITSTRING	1	PSOFLG5	Flags
1119	(45F)	CHARACTER	1	PSORSV6	RESERVED
1120	(460)	CHARACTER	8		JES3 use only
1128	(468)	SIGNED	4	PSOLNCT	DATASET LINE COUNT
1132	(46C)	CHARACTER	8	PSOPRCD	DATASET PROC NAME
1140	(474)	CHARACTER	8	PSOSTPD	DATASET STEP NAME
1148	(47C)	CHARACTER	8	PSODDND	DATASET DD NAME
1156	(484)	ADDRESS	4	PSOSECT	Address of SAF token
1160	(488)	CHARACTER	8	PSOFOR8	Form number
1168	(490)	ADDRESS	4	PSOACCT	Address of acctng string
The following field has the 26 character JES2 JOE name (Job Output Element name). The string can be used as given in JES2 commands which require OUTGRP= specifications. Flag SSSOGNVA (in SSSOFLG5) is set if the field is valid. The data set returned with a given output group name will not necessarily continue to have the given output group name if this request (or a later request) asks for held data sets (SSSOUFLG on) and data set characteristics are changed (via a non-zero SSSOUFLG).					
1172	(494)	CHARACTER	26	PSOOGNM	JES2 output group name

Table 437. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1198	(4AE)	CHARACTER	14		Reserved for future use
1212	(4BC)	ADDRESS	4	PSOTCB	TCB ADDRESS OF LAST PSO USER
1216	(4C0)	BITSTRING	4	PSORETN	SUB-SYSTEM RETURN CODE
1220	(4C4)	BITSTRING	6	PSOIOTTK	Track address (MQTR) of IOT
1226	(4CA)	BITSTRING	2		Reserved
1228	(4CC)	BITSTRING	6	PSOIOTCH	MQTR FOR IOT CHAIN
1234	(4D2)	BITSTRING	2		Reserved
1236	(4D4)	ADDRESS	4	PSOSJB	ADDRESS OF SJB
1240	(4D8)	ADDRESS	4	PSOECBP	Address of ECB for JOT WAIT
1244	(4DC)	BITSTRING	4	PSORDRON	TIME ON INPUT PROCESSOR
1248	(4E0)	BITSTRING	4	PSORDTON	DATE ON INPUT PROCESSOR
1252	(4E4)	CHARACTER	8	PSOUSEID	JMR installation data field
1260	(4EC)	ADDRESS	4	PSOWKOFF	OFFSET OF WORK JOE
1264	(4F0)	ADDRESS	4	PSOCHOFF	OFFSET OF CHAR JOE
1268	(4F4)	BITSTRING	1	PSOJOEFL	COPY OF JOEFLAG1
1269	(4F5)	BITSTRING	1	PSOFLGR	DATA SET SECURITY ATTR FLGS
		1...		PSORSEL	"B'10000000'" SELECT REQUEST (NON-DISP)
1270	(4F6)	CHARACTER	1	PSOMCLAS	MESSAGE CLASS FOR JOB
1271	(4F7)	BITSTRING	1		RESERVED FOR FUTURE USE
1272	(4F8)	BITSTRING	4	PSOJBKEY	JOB IDENTIFIER KEY
1276	(4FC)	ADDRESS	4	PSOMTRB	Address of MTRB
1280	(500)	ADDRESS	4	PSOPCE	Address of current or last PCE that processed
1284	(504)	ADDRESS	4	PSOJQEP	HASP JQE OFFSET
1288	(508)	SIGNED	4	PSOJBNUM	HASP job number (binary)
1292	(50C)	SIGNED	4	PSOROUTE	SELECTION ROUTE CODE (BINARY)
1296	(510)	SIGNED	2	PSOHDOFF	IOT offset of selected held PDDB and held support indicator
1298	(512)	SIGNED	2	PSOXDOFF	IOT offset of selected non-held PDDB
1300	(514)	CHARACTER	80	PSOTOKEN	PSO SECURITY TOKEN FOR REQUESTOR
1380	(564)	CHARACTER	80	PSODSTOK	DATA SET TOKEN
1460	(5B4)	BITSTRING	148	PSOACCT2	Accounting string
1608	(648)	ADDRESS	4	PSOACTGC	Address of accounting cell
1612	(64C)	BITSTRING	2		Reserved for future use
1614	(64E)	BITSTRING	1	PSOFLG6	Flags (use CS to serialize)
		1...		PSO6FFGX	"B'10000000'" XWTR wait for JOT post
		.1..		PSO6FFGJ	"B'01000000'" PSO wait for JOT post
1614	(64E)	X'C0'	0	PSO6FFGW	"PSO6FFGJ+PSO6FFGX" Waiting for JOT processing
		..1.		PSO6JWEL	"B'00100000'" A JWEL created
		...1		PSO6SJID	"B'00010000'" PSO application is an STC
1615	(64F)	BITSTRING	1	PSOFLG7	Flags (use CS to serialize)
		...1		PSO7ABRT	"B'00010000'" PSO request aborted
		.... 1...		PSO7XPST	"B'00001000'" Application has been POSTed
		.... .1..		PSO7PCE	"B'00000100'" PCE is processisng

Table 437. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1616	(650)	BITSTRING	8	PSOASCBT	Address space token
1624	(658)	SIGNED	2	PSOASID	Address space ID
1626	(65A)	BITSTRING	2		Reserved
1628	(65C)	ADDRESS	4	PSOSDB	SDB address
1632	(660)	CHARACTER	8	PSOJOBID	Job ID of PSO application
1640	(668)	CHARACTER	8	PSOJOBNM	Job name of PSO applicaiton
1648	(670)	CHARACTER	8	PSOCHKEY	CHKEY from CSCB
1656	(678)	DBL WORD	8	(0)	
1656	(678)	X'678'	0	PSOLNGTH	"*-PSO" LENGTH OF PSO DSECT

Table 438. Cross Reference for $PSO

Name	Offset	Hex Tag
PSO	0	
PSOACCT	490	
PSOACCT2	5B4	
PSOACTGC	648	
PSOASCBT	650	
PSOASID	658	
PSOCHKEY	670	
PSOCHOFF	4F0	
PSOCLAS	448	
PSOCLS	3FC	
PSOCOPY	3EA	
PSOCRDT	8	
PSODDND	47C	
PSODEST	400	
PSODSID	454	C3C3C3C3
PSODSN	418	
PSODSTOK	564	
PSOECBP	4D8	
PSOFLGA	3FF	
PSOFLGR	4F5	
PSOFLG1	3E8	
PSOFLG2	3E9	
PSOFLG3	45C	
PSOFLG4	45D	
PSOFLG5	45E	
PSOFLG6	64E	
PSOFLG7	64F	
PSOFORM	444	
PSOFOR8	488	
PSOHDOFF	510	
PSOID	0	5BD7E2D6
PSOIOTCH	4CC	
PSOIOTTK	4C4	

Table 438. Cross Reference for $PSO (continued)

Name	Offset	Hex Tag
PSOJBKEY	4F8	
PSOJBNUM	508	
PSOJOBI	3F4	
PSOJOBID	660	
PSOJOBN	3EC	
PSOJOBNM	668	
PSOJOEFL	4F4	
PSOJQEP	504	
PSOLNCT	468	
PSOLNGTH	678	678
PSOMCLAS	4F6	
PSOMLRL	3FD	
PSOMTRB	4FC	
PSONEXT	4	
PSOOGNM	494	
PSOPCE	500	
PSOPDDB	24	
PSOPFACT	C	2
PSOPFDAU	C	4
PSOPFHLD	C	8
PSOPFLAG	C	
PSOPFLG2	D	
PSOPFREQ	C	40
PSOPFSWT	C	80
PSOPFUSR	C	1
PSOPGMN	408	
PSOPRCD	46C	
PSOPSE	454	45C
PSOP2E58	D	80
PSORBA	410	
PSORDRON	4DC	
PSORDTON	4E0	
PSORETN	4C0	
PSOROUTE	50C	
PSORSEL	4F5	80
PSORSVD2	20	
PSORSV6	45F	
PSOSDB	65C	
PSOSECT	484	
PSOSJB	4D4	
PSOSTPD	474	
PSOTCB	4BC	
PSOTOKEN	514	
PSOUFLG	3E6	
PSOUSEID	4E4	
PSOWKOFF	4EC	

Table 438. Cross Reference for $PSO (continued)

Name	Offset	Hex Tag
PSOWTRC	450	
PSOXDOFF	512	
PSO6FFGJ	64E	40
PSO6FFGW	64E	C0
PSO6FFGX	64E	80
PSO6JWEL	64E	20
PSO6SJID	64E	10
PSO7ABRT	64F	10
PSO7PCE	64F	4
PSO7XPST	64F	8

$PSOWORK information

$PSOWORK heading information

Common name: JES2 Process SYSOUT Work Area

Macro ID: $PSOWORK

DSECT name: PCE ($PSOWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol PSPWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $PSOPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Process SYSOUT PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
PSOPCE of the $PSO data area

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Process SYSOUT Processor and by its support routines and exits. $PSOWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PSOWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPSOID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$PSOWORK mapping

Table 439. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	ADDRESS	4	PSPCKPTB	OUTPUT CKPT I/O BUFFER ADDRESS

Table 439. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	ADDRESS	4	PSPCHARJ	Addr of current Char JOE (only valid if SSSOSPGM is on and SSSOSCLS off in PSOFLG1)
336	(150)	BITSTRING	1	PSPMCLAS	SYSOUT MESSAGE CLASS (FROM JCT)
337	(151)	BITSTRING	1		Reserved for future use
338	(152)	SIGNED	2	PSPWORKA	PSO PROCESSING WORK AREA
340	(154)	SIGNED	4	PSPRSVD2	RESERVED
344	(158)	BITSTRING	3	PSPHDSCT	HELD DATA SET COUNT
347	(15B)	BITSTRING	1		RESERVED
348	(15C)	CHARACTER	18	PSPDEST	PSO DESTINATION WORK AREA
366	(16E)	BITSTRING	12	PSPXWTRE	SAVE XWTR ECB
378	(17A)	BITSTRING	1	PSPFLAG1	FLAGS
		1...		PSP1RLSE	"B'10000000'" BUFFER WAS PAGE RELEASED, HENCE NEEDS IOB BUILD
		.1..		PSP1RACR	"B'01000000'" RACROUTE HAS BEEN DONE
		..1.		PSP1FSAM	"B'00100000'" PDDB is repeated
		...1		PSP1JRUL	"B'00010000'" SET OFF USE JOE BUILD RULE 1 SET ON USE JOE BUILD RULE 2
		.... 1...		PSP1IOTR	"B'00001000'" IOT is in memory (flag bit is only valid for xwtr)
379	(17B)	BITSTRING	1	PSPFLAG2	FLAGS FOR PSO QUEUE PROC
		1...		PSP2LQUE	"B'10000000'" PROCESS LOCAL QUEUE
		.1..		PSP2UQUE	"B'01000000'" PROCESS USERID QUEUE
		..1.		PSP2RQUE	"B'00100000'" PROCESS REMOTE QUEUE
		...1		PSP2UQP	"B'00010000'" USERID Q HAS BEEN PROCESSED
		.... 1...		PSP2RQP	"B'00001000'" REMOTE Q HAS BEEN PROCESSED
		.... .1..		PSP2CQP	"B'00000100'" CHAR Q IS BEING PROCESSED
380	(17C)	ADDRESS	4	PSPBUFAD	Buffer address $EXCP
384	(180)	BITSTRING	192	PSPRGRPM	TREGROUP Parm list
576	(240)	ADDRESS	4	PSPCLASS	Current class list address
580	(244)	ADDRESS	4	PSPCALET	and its ALET
584	(248)	BITSTRING	4	PSPJBKEY	Job key
	PSPPSO is populated just prior to $SEAS requests. Do not use this copy of the PSO in other circumstances.				
592	(250)	DBL WORD	8	(0)	Ensure double word aligned
592	(250)	BITSTRING	1656	PSPPSO	Copy of PSO (See above)
2248	(8C8)	SIGNED	4	PSPROUTE	Selection route code (bin)
2252	(8CC)	BITSTRING	1	PSPTOKEN	Data set token field
	The following fields are needed for HASP186 message.				
2332	(91C)	CHARACTER	8	PSPJOBID	Job id of PSO application
2340	(924)	CHARACTER	8	PSPJOBNM	Job name of PSO application
2348	(92C)	ADDRESS	4	PSPCHKEY	CHKEY from CSCB

Table 439. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
End of HASP186 fields					
2352	(930)	BITSTRING	8	PSPASCBT	Application ASCB token
2360	(938)	CHARACTER	18	PSPRTXT	Reason text area for ENF58
--BLDM $BLDMSG MF=L List form of $BLDMSG					
2380	(94C)	SIGNED	4	PSPBLDM(0)	Control block ID
2384	(950)	BITSTRING	4		Console ID
2388	(954)	ADDRESS	4		Address of the CART
2392	(958)	ADDRESS	4		Pointer for JOBID
2396	(95C)	ADDRESS	4		Control block address
2400	(960)	ADDRESS	4		Display routine address
2404	(964)	ADDRESS	4	(6)	6 word work area
2428	(97C)	ADDRESS	4		Caller's R11 value
2432	(980)	BITSTRING	2		ROUT code for Message
2434	(982)	BITSTRING	2		Not used
2436	(984)	CHARACTER	4		Message ID
2440	(988)	CHARACTER	1		Separator character
2441	(989)	ADDRESS	1		Flag byte 1
2442	(98A)	ADDRESS	1		'DISPER'
2443	(98B)	ADDRESS	1		Flag byte 2
2444	(98C)	ADDRESS	1		Flag byte 3
2445	(98D)	ADDRESS	1		Severity of message
2446	(98E)	CHARACTER	8		Symbolic name of dest.
2454	(996)	BITSTRING	14		Not used
2468	(9A4)	ADDRESS	4	(0)	Ensure multiple of 4
2468	(9A4)	ADDRESS	2	(0)	
2472	(9A8)	DBL WORD	8	(0)	Ensure double word aligned
2472	(9A8)	X'860'	0	PSPWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 440. Cross Reference for $PSOWORK

Name	Offset	Hex Tag
PCE	0	
PSPASCBT	930	
PSPBLDM	94C	C2D3C440
PSPBUFAD	17C	
PSPCALET	244	
PSPCHARJ	14C	
PSPCHKEY	92C	
PSPCKPTB	148	
PSPCLASS	240	
PSPDEST	15C	
PSPFLAG1	17A	
PSPFLAG2	17B	
PSPHDSCT	158	

Table 440. Cross Reference for $PSOWORK (continued)

Name	Offset	Hex Tag
PSPJBKEY	248	
PSPJOBID	91C	
PSPJOBNM	924	
PSPMCLAS	150	
PSPPSO	250	
PSPRGRPM	180	
PSPROUTE	8C8	
PSPRSVD2	154	
PSPRTXT	938	
PSPTOKEN	8CC	
PSPWKSIZ	9A8	860
PSPWORKA	152	
PSPXWTRE	16E	
PSP1FSAM	17A	20
PSP1IOTR	17A	8
PSP1JRUL	17A	10
PSP1RACR	17A	40
PSP1RLSE	17A	80
PSP2CQP	17B	4
PSP2LQUE	17B	80
PSP2RQP	17B	8
PSP2RQUE	17B	20
PSP2UQP	17B	10
PSP2UQUE	17B	40

$PSV information

$PSV programming interface information

$PSV is a programming interface.

$PSV heading information

Common name: JES2 save area DSECT

Macro ID: $PSV

DSECT name: PSV and PSVAREGS

Owning component: JES2 (SC1BH)

Eye-catcher ID: SAVE, CSAV, and ARSA
Offset: PSVID-PSV and PSVARID-PSVAREGS
Length: L'PSVID and L'PSVARID

Storage attributes: Subpool: 0 or 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 or user address space.

Size: See PSVLENG and PSVARLEN

Created by: $SAVE service

Pointed to by: $SAVAREA field of the $HCT data area
$SAVALST field of the $HCT data area
PCELPSV field of the $PCE data area
PREPSVAD field of the $PRE data area
PSVNEXT field of the $PSV data area
PSVPREV field of the $PSV data area
PSVARPTR field of the $PSV data area
PSVARCHN field of the $PSV data area
TRERSAVE field of the $TRE data area

Serialization: None required

Function: This macro generates an MVS style save area DSECT mapping with JES2 extensions added on the end. The DSECT generated is dependent on the caller's environment.

$PSV mapping

Table 441. Structure PSV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSV	
0	(0)	CHARACTER	4	PSVID	SAVE AREA IDENTIFIER
4	(4)	ADDRESS	4	PSVPREV	PREVIOUS SAVE AREA ADDRESS
8	(8)	ADDRESS	4	PSVNEXT	NEXT SAVE AREA ADDRESS
12	(C)	SIGNED	4	PSVR14	REGISTER 14 STORAGE
16	(10)	SIGNED	4	PSVR15	REGISTER 15 STORAGE
20	(14)	SIGNED	4	PSVR0	REGISTER 0 STORAGE
24	(18)	SIGNED	4	PSVR1	REGISTER 1 STORAGE
28	(1C)	SIGNED	4	PSVR2	REGISTER 2 STORAGE
32	(20)	SIGNED	4	PSVR3	REGISTER 3 STORAGE
36	(24)	SIGNED	4	PSVR4	REGISTER 4 STORAGE
40	(28)	SIGNED	4	PSVR5	REGISTER 5 STORAGE
44	(2C)	SIGNED	4	PSVR6	REGISTER 6 STORAGE
48	(30)	SIGNED	4	PSVR7	REGISTER 7 STORAGE
52	(34)	SIGNED	4	PSVR8	REGISTER 8 STORAGE
56	(38)	SIGNED	4	PSVR9	REGISTER 9 STORAGE
60	(3C)	SIGNED	4	PSVR10	REGISTER 10 STORAGE
64	(40)	SIGNED	4	PSVR11	REGISTER 11 STORAGE
68	(44)	SIGNED	4	PSVR12	REGISTER 12 STORAGE
72	(48)	BITSTRING	8		Reserved
The offset of the following fields are referenced in PLAS code. The offset is frozen					
80	(50)	ADDRESS	2	(0)	
80	(50)	ADDRESS	2	(0)	
80	(50)	SIGNED	4	PSVHR13	High half register 13
84	(54)	SIGNED	4	PSVHR14	High half Register 14
88	(58)	SIGNED	4	PSVHR15	High half Register 15
92	(5C)	SIGNED	4	PSVHR0	High half Register 0
96	(60)	SIGNED	4	PSVHR1	High half Register 1
100	(64)	SIGNED	4	PSVHR2	High half Register 2
104	(68)	SIGNED	4	PSVHR3	High half Register 3
108	(6C)	SIGNED	4	PSVHR4	High half Register 4
112	(70)	SIGNED	4	PSVHR5	High half Register 5

Table 441. Structure PSV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	SIGNED	4	PSVHR6	High half Register 6
120	(78)	SIGNED	4	PSVHR7	High half Register 7
124	(7C)	SIGNED	4	PSVHR8	High half Register 8
128	(80)	SIGNED	4	PSVHR9	High half Register 9
132	(84)	SIGNED	4	PSVHR10	High half Register 10
136	(88)	SIGNED	4	PSVHR11	High half Register 11
140	(8C)	SIGNED	4	PSVHR12	High half Register 12
End of 144-byte save area for 64-bit applications					
144	(90)	ADDRESS	4	PSVLSPTR	LINKAGE STACK POINTER (AT TIME OF $SAVE)
148	(94)	ADDRESS	4	PSVARPTR	Pointer to AR save area (or zero if none)
152	(98)	BITSTRING	1	PSVMODE	AR mode and key of caller Bits 0-3 - ASC mode 4-7 - PSW key
153	(99)	SIGNED	1	PSVEXID	Exit number when $SAVE done
154	(9A)	BITSTRING	1	PSVAMODE	AMODE of caller/flags
		1...		PSVAM31	"B'10000000'" AMODE 31
		.1..		PSVANO$W	"B'01000000'" $WAITs prohibited when $SAVE was done
		1		PSVAM64	"B'00000001'" AMODE 64
155	(9B)	BITSTRING	1		Reserved
156	(9C)	ADDRESS	4	PSVADDR	ENVIRONMENT DEPENDENT ADDRS (CSAV area in USER env.)
156	(9C)	X'9C'	0	PSVPCE	"PSVADDR,4,C'A'" PCE addr (main task only)
160	(A0)	ADDRESS	4	PSVLABAD	ADDRESS OF $SAVE IDENTIFIER
164	(A4)	ADDRESS	4	PSVADDR2	Environ dependent addr 2 (TRX in USER environment) (SQD for $SUBIT routine)
168	(A8)	DBL WORD	8	PSVSTCK	Time PSV was created
168	(A8)	X'B0'	0	PSVLENG	"*-PSV" LENGTH OF SAVE AREA

Table 442. Structure PSVAREGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSVAREGS	, Start of access registers
0	(0)	CHARACTER	4	PSVARID	Eyecatcher
4	(4)	ADDRESS	4	PSVARCHN	Pointer to real save area
8	(8)	SIGNED	4	PSVAR0	Access register 0 storage
12	(C)	SIGNED	4	PSVAR1	Access register 1 storage
16	(10)	SIGNED	4	PSVAR2	Access register 2 storage
20	(14)	SIGNED	4	PSVAR3	Access register 3 storage
24	(18)	SIGNED	4	PSVAR4	Access register 4 storage
28	(1C)	SIGNED	4	PSVAR5	Access register 5 storage
32	(20)	SIGNED	4	PSVAR6	Access register 6 storage
36	(24)	SIGNED	4	PSVAR7	Access register 7 storage
40	(28)	SIGNED	4	PSVAR8	Access register 8 storage
44	(2C)	SIGNED	4	PSVAR9	Access register 9 storage
48	(30)	SIGNED	4	PSVAR10	Access register 10 storage

Table 442. Structure PSVAREGS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	PSVAR11	Access register 11 storage
56	(38)	SIGNED	4	PSVAR12	Access register 12 storage
60	(3C)	SIGNED	4	PSVAR13	Access register 13 storage
64	(40)	SIGNED	4	PSVAR14	Access register 14 storage
68	(44)	SIGNED	4	PSVAR15	Access register 15 storage
72	(48)	BITSTRING	1	PSVARFLG	Access register flags
		1...		PSVARF15	"B'10000000'" Restore access register 15
		.1..		PSVARF0	"B'01000000'" Restore access register 0
		..1.		PSVARF1	"B'00100000'" Restore access register 1
73	(49)	BITSTRING	7		Reserved
73	(49)	X'50'	0	PSVARLEN	"*-PSVAREGS" Length of access registers

Table 443. Structure PSV64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSV64	, Start of 64 bit save area
0	(0)	CHARACTER	4	P64EYE	Eyecatcher
4	(4)	CHARACTER	4	P64ID	Save area type
8	(8)	DBL WORD	8	P64R14	64 bit register 14 area
16	(10)	DBL WORD	8	P64R15	64 bit register 15 area
24	(18)	DBL WORD	8	P64R0	64 bit register 0 area
32	(20)	DBL WORD	8	P64R1	64 bit register 1 area
40	(28)	DBL WORD	8	P64R2	64 bit register 2 area
48	(30)	DBL WORD	8	P64R3	64 bit register 3 area
56	(38)	DBL WORD	8	P64R4	64 bit register 4 area
64	(40)	DBL WORD	8	P64R5	64 bit register 5 area
72	(48)	DBL WORD	8	P64R6	64 bit register 6 area
80	(50)	DBL WORD	8	P64R7	64 bit register 7 area
88	(58)	DBL WORD	8	P64R8	64 bit register 8 area
96	(60)	DBL WORD	8	P64R9	64 bit register 9 area
104	(68)	DBL WORD	8	P64R10	64 bit register 10 area
112	(70)	DBL WORD	8	P64R11	64 bit register 11 area
120	(78)	DBL WORD	8	P64R12	64 bit register 12 area
128	(80)	ADDRESS	8	P64PREV	Addr of previous save area
136	(88)	ADDRESS	8	P64NEXT	Addr of next save area
136	(88)	X'90'	0	P64LEN	"*-PSV64" Length of save area

Table 444. Cross Reference for $PSV

Name	Offset	Hex Tag
PSV	0	
PSVADDR	9C	
PSVADDR2	A4	
PSVAMODE	9A	
PSVAM31	9A	80

Table 444. Cross Reference for $PSV (continued)

Name	Offset	Hex Tag
PSVAM64	9A	1
PSVANO$W	9A	40
PSVARCHN	4	
PSVAREGS	0	
PSVARFLG	48	
PSVARF0	48	40
PSVARF1	48	20
PSVARF15	48	80
PSVARID	0	
PSVARLEN	49	50
PSVARPTR	94	
PSVAR0	8	
PSVAR1	C	
PSVAR10	30	
PSVAR11	34	
PSVAR12	38	
PSVAR13	3C	
PSVAR14	40	
PSVAR15	44	
PSVAR2	10	
PSVAR3	14	
PSVAR4	18	
PSVAR5	1C	
PSVAR6	20	
PSVAR7	24	
PSVAR8	28	
PSVAR9	2C	
PSVEXID	99	
PSVHR0	5C	
PSVHR1	60	
PSVHR10	84	
PSVHR11	88	
PSVHR12	8C	
PSVHR13	50	
PSVHR14	54	
PSVHR15	58	
PSVHR2	64	
PSVHR3	68	
PSVHR4	6C	
PSVHR5	70	
PSVHR6	74	
PSVHR7	78	
PSVHR8	7C	
PSVHR9	80	
PSVID	0	C3E2C1E5
PSVLABAD	A0	

Table 444. Cross Reference for $PSV (continued)

Name	Offset	Hex Tag
PSVLENG	A8	B0
PSVLSPTR	90	
PSVMODE	98	
PSVNEXT	8	
PSVPCE	9C	9C
PSVPREV	4	
PSVR0	14	
PSVR1	18	
PSVR10	3C	
PSVR11	40	
PSVR12	44	
PSVR14	C	
PSVR15	10	
PSVR2	1C	
PSVR3	20	
PSVR4	24	
PSVR5	28	
PSVR6	2C	
PSVR7	30	
PSVR8	34	
PSVR9	38	
PSVSTCK	A8	
PSV64	0	
P64EYE	0	
P64ID	4	
P64LEN	88	90
P64NEXT	88	
P64PREV	80	
P64R0	18	
P64R1	20	
P64R10	68	
P64R11	70	
P64R12	78	
P64R14	8	
P64R15	10	
P64R2	28	
P64R3	30	
P64R4	38	
P64R5	40	
P64R6	48	
P64R7	50	
P64R8	58	
P64R9	60	

$QSE information

$QSE programming interface information

$QSE is a programming interface.

$QSE heading information

Common name: Multi-access SPOOL shared communications queue control element

Macro ID: $QSE

DSECT name: QSE

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0 or 231
Key: 1
Residency: Virtual and Real storage are anywhere

Size: See QSELEN

Created by: HASPIRDA

Pointed to by: $QSE1 field of the $HCT data area
$AQSE field of the $HCT data area

Serialization: Fields are updated only when the JES2 checkpoint is owned by the member updating.

Function: One QSE exists for each member of a multi-access spool. The QSE describes this potential member of the complex.
The QSEs are checkpointed control blocks. This means there are two or more copies of each QSE in storage at any one time. The actual and I/O copies are always there and reside in subpool 0. If the system is running with an application copy of the checkpoint a third copy will be in subpool 0 if the application copy is in private, and in subpool 231 if the application copy is in common. If the system is running with checkpoint versioning, then zero or more copies will be in a data space.
Note: the QSEs are contiguous in storage and must stay that way since the way to get to the QSE for a system is to use the system busy byte to index into the QSE table which begins at the address held in $QSE1.

$QSE mapping

Table 445. Structure QSE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QSE	
0	(0)	DBL WORD	8	QSESITIM	TOD of last CKPT access for this member
8	(8)	CHARACTER	4	QSESID	Member name-default SMF ID
12	(C)	BITSTRING	1	QSERSTID	Id of member doing $ESYS
13	(D)	BITSTRING	1		Reserved for future IBM use
14	(E)	BITSTRING	1	QSESIBSY	Member id for busy indicators and equal to the member number
15	(F)	BITSTRING	3	QSEAFFIN	This members affinity token
18	(12)	BITSTRING	6		Reserved for future use
Beginning of fields zeroed at all member warm start					
24	(18)	BITSTRING	8	QSEPLXID	Sysplex id

Table 445. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	8	QSEMEMTK	XCF member token
40	(28)	DBL WORD	8	QSEECF(0)	CROSS-SYSTEM RESOURCE $POST ECF
48	(30)	CHARACTER	8	QSEPLXNM	MVS sysplex name
End of fields zeroed at all member warm start					
48	(30)	X'18'	0	QSEWARM1	"QSEPLXID,*-QSEPLXID" Zeroed at all-mbr wrmstart
56	(38)	CHARACTER	8	QSEMVSNM	MVS system name
Beginning of fields zeroed at all member warm start					
64	(40)	CHARACTER	8	QSEJ2VRN	The JES2 version that last warmstarted this member
72	(48)	BITSTRING	4	QSESYTOK	System token of the MVS system
76	(4C)	BITSTRING	1	QSEPOSTS	CROSS-SYSTEM $POST FLAG BYTES
		1...		QSEPXEQ	"B'10000000'" Cross-system $POST execution
		.1..		QSEPJOT	"B'01000000'" Cross-member $#POST for JOE/JQE
EQU B'00100000' Reserved (was QSEPSOST)					
77	(4D)	BITSTRING	1	QSEJCMD	JCMD processor post
		1...		QSEJWRK	"B'10000000'" Batch work for JCMD
End of fields zeroed at all member warm start					
77	(4D)	X'40'	0	QSEWARM2	"QSEJ2VRN,*-QSEJ2VRN" Zeroed at all-mbr wrmstart
78	(4E)	BITSTRING	1	QSESTAT	SYSTEM STATUS BYTE

```
Valid states for QSEQUICK and QSE$EMEM:
QSEQUICK QSE$EMEM Explanation
off off no $EMEMBER nor AMWS ever done
                    This is normal state for a
                    running member or a crashed
                    member for which no warmstart
                    has been attempted.
off on $EMEMBER or AMWS has completed,
                    but at least one JQE was not
                    processed because of inability
                    to get BERT lock. The ALICE
                    PCE will set QSEQUICK on when
                    all JQEs have been processed.
                    This setting can also occur if
                    SMWS is done after an AMWS by
                    a member with OW35410 installed.
on off An AMWS or $EMEMBER has been
                    done before OW35410 was
                    installed. This will disappear
                    after the first ALICE processor
                    successfully scans the jobqueue
                    and should never appear in the
                    MAS again unless an AMWS or
                    $EMEMBER is performed by a
                    member without OW35410
                    installed.
on on Member has been successfully
                    warmstarted by an AMWS or via
                    $EMEMBER with no BERT problems.
  Note: AMWS = All Member Warm Start
        SMWS = Single Member Warm Start
```

		1...		QSEACTIV	"B'10000000'" Member is active
		.1..		QSEQUICK	"B'01000000'" Member is warm started
		..1.		QSELAST	"B'00100000'" Last QSE

Table 445. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		QSE$PCMD	"B'00010000'" $P command in effect
		.... 1...		QSE$PXEQ	"B'00001000'" $P XEQ command in effect
		.... .1..		QSEBOSS	"B'00000100'" This member is boss
		.... ..1.		QSE$EMEM	"B'00000010'" $E MEMBER finished
		1		QSECKPT2	"B'00000001'" QSECPKLV is for CKPT2
79	(4F)	BITSTRING	1	QSESTAT2	ADDITIONAL SYSTEM STATUS BYTE
		1...		QSE2EDEL	"B'10000000'" Member deleted, ESYS'D required
		.1..		QSE2$IND	"B'01000000'" Member in ind mode
		..1.		QSE2LRGB	"B'00100000'" Member has large (z22) size TGR entries
		...1		QSE2NMAL	"B'00010000'" This member has two ckpt datasets allocated
		.... 1...		QSE2EGON	"B'00001000'" XCF system gone, ESYS,SID required
EQU B'00000100' Reserved (was QSE2NPST)					
		.... ..1.		QSE2PRIM	"B'00000010'" Member is a primary subsystem
		1		QSE2SPLX	"B'00000001'" Command Prefix has SYSplex scope.
Beginning of fields zeroed at all member warm start					
80	(50)	BITSTRING	4	QSEMAXMS	Members that ceased sending msgs because of $MAXMSGQ
84	(54)	BITSTRING	1	QSESCMSK	SHRD COMM QUE SPLS USED MSK
The following fields are used by SDSF on their MEMBER display. QSEHOLD, QSEMIND, and QSEMAXD are in hundredths of a second. QSESYNC is in seconds. QSEAHOLD and QSEADORM are bits 16-47 of a STCK value. Bit 47 of a STCK is incremented every 0.000016 seconds.					
116	(74)	SIGNED	4	QSEHOLD	MASDEF HOLD=
120	(78)	SIGNED	4	QSEMIND	MASDEF DORMANCY=(xxxx)
124	(7C)	SIGNED	4	QSEMAXD	MASDEF DORMANCY=(,xxxx)
128	(80)	SIGNED	4	QSESYNC	MASDEF SYNCTOL=
132	(84)	SIGNED	4	QSEAHOLD	Actual HOLD value
136	(88)	SIGNED	4	QSEADORM	Actual dormancy value
End of section for SDSF MEMBER display					
140	(8C)	CHARACTER	1	QSECCHAR	CONDEF CONCHAR=
141	(8D)	BITSTRING	1	QSESTYPE	Last start type - see flag definitions in $WARMTYP
142	(8E)	SIGNED	2		Possible number of lost TGs (not used in SP 5.2)
144	(90)	SIGNED	4	QSESTIME	STCK time of last start
148	(94)	BITSTRING	3		Reserved (was QSESNIFF)
151	(97)	SIGNED	1	QSEJ2VR2	JES2 version last active on this member
152	(98)	SIGNED	1	QSEHIVER	Highest compatible JES2 version

Table 445. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
153	(99)	BITSTRING	3	QSEFEAT	Reserved for future use as feature flags
EQU B'10000000' Reserved (was QSEFXMT)					
		.1..		QSEFLVLS	"B'01000000'" Service level fields set (QSEJ2PLV/QSEJ2SLV)
		..1.		QSEFXNNM	"B'00100000'" QSEXLNNM field set
		...1		QSEFDASA	"B'00010000'" OA18783 applied
		.... 1...		QSEFXGNM	"B'00001000'" Use XCFGRPNM for SYSJ2$XD
End of fields zeroed at all member warm start					
153	(99)	X'50'	0	QSEWARM3	"QSEMAXMS,*-QSEMAXMS" Zeroed at all-mbr warmstart
156	(9C)	SIGNED	4	QSESYSLG	Current SYSLOG job index
160	(A0)	SIGNED	1	QSEJ2PLV	Product level of JES2 last active on this member (&J2PLVL)
161	(A1)	SIGNED	1	QSEJ2SLV	Service level of JES2 last active on this member (&J2SLVL)
162	(A2)	SIGNED	2		Reserved for future use
Beginning of fields zeroed at all member warm start					
164	(A4)	CHARACTER	4	QSESSNAM	Subsys name (JES2/JESA...)
168	(A8)	SIGNED	4	QSECKPLV	Last CKPT level number
End of fields zeroed at all member warm start					
168	(A8)	X'A4'	0	QSEWARM4	"QSESSNAM,*-QSESSNAM" Zeroed at all-mbr wrmstart
QSEGMTOF allows to compare local times from different members.					
172	(AC)	SIGNED	4	QSEGMTOF	GMT offset of this member
Beginning of fields zeroed at all member warm start					
176	(B0)	CHARACTER	4	QSEMVSID	SMF id of MVS system
180	(B4)	CHARACTER	8	QSEXLNNM	Local node name at time of XCF join
188	(BC)	BITSTRING	5	QSESNFMT	MQT this memb is sniffing - 1 byte M and 4 byte TTTT
End of fields zeroed at all member warm start					
188	(BC)	X'B0'	0	QSEWARM5	"QSEMVSID,*-QSEMVSID" Zeroed at all-mbr warmstart
193	(C1)	BITSTRING	3		Reserved
196	(C4)	SIGNED	4		Reserved (as of HJE7705)
196	(C4)	X'C8'	0	QSELEN	"*-QSE" LENGTH OF QSE
200	(C8)	ADDRESS	4	QSEEND(0)	End of QSE

Table 446. Cross Reference for $QSE

Name	Offset	Hex Tag
QSE	0	

Table 446. Cross Reference for $QSE (continued)

Name	Offset	Hex Tag
QSE$EMEM	4E	2
QSE$PCMD	4E	10
QSE$PXEQ	4E	8
QSEACTIV	4E	80
QSEADORM	88	
QSEAFFIN	F	
QSEAHOLD	84	
QSEBOSS	4E	4
QSECCHAR	8C	
QSECKPLV	A8	
QSECKPT2	4E	1
QSEECF	28	
QSEEND	C8	
QSEFDASA	99	10
QSEFEAT	99	
QSEFLVLS	99	40
QSEFXGNM	99	8
QSEFXNNM	99	20
QSEGMTOF	AC	
QSEHIVER	98	
QSEHOLD	74	
QSEJCMD	4D	
QSEJWRK	4D	80
QSEJ2PLV	A0	
QSEJ2SLV	A1	
QSEJ2VRN	40	
QSEJ2VR2	97	
QSELAST	4E	20
QSELEN	C4	C8
QSEMAXD	7C	
QSEMAXMS	50	
QSEMEMTK	20	
QSEMIND	78	
QSEMVSID	B0	
QSEMVSNM	38	
QSEPJOT	4C	40
QSEPLXID	18	
QSEPLXNM	30	
QSEPOSTS	4C	
QSEPXEQ	4C	80
QSEQUICK	4E	40
QSERSTID	C	
QSESCMSK	54	
QSESIBSY	E	
QSESID	8	
QSESITIM	0	

Table 446. Cross Reference for $QSE (continued)

Name	Offset	Hex Tag
QSESNFMT	BC	
QSESSNAM	A4	
QSESTAT	4E	
QSESTAT2	4F	
QSESTIME	90	
QSESTYPE	8D	
QSESYNC	80	
QSESYSLG	9C	
QSESYTOK	48	
QSEWARM1	30	18
QSEWARM2	4D	40
QSEWARM3	99	50
QSEWARM4	A8	A4
QSEWARM5	BC	B0
QSEXLNNM	B4	
QSE2$IND	4F	40
QSE2EDEL	4F	80
QSE2EGON	4F	8
QSE2LRGB	4F	20
QSE2NMAL	4F	10
QSE2PRIM	4F	2
QSE2SPLX	4F	1

$RAT information

$RAT programming interface information

$RAT is a programming interface.

$RAT heading information

Common name: Remote Attribute Table

Macro ID: $RAT

DSECT name: RAT

Owning component: JES2 (SC1BH)

Eye-catcher ID: The permanent RATs are in contiguous storage with an eyecatcher 'RAT ' and storage length before the RAT table.
Offset: -8 from value of $RATABLE
Length: 4

Storage attributes: Subpool: 23 (temporary RAT during initialization),
0 (permanent RAT after initialization)
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: RATTLE * $MAXRJE (temporary RAT during initialization)
RATTLE * $RMTNUM (permanent RAT after initialization)

Created by: HASPIRMA (temporary RAT during initialization)
HASPIRRE (permanent RAT after initialization)

Pointed to by: $RATABLE field of the $HCT data area
MDCTRAT field of the $DCT data area

Serialization: Logon of a remote is not permitted on an MAS member if the remote is logged on another member (which is indicated in the $RMTSON vector).

Function: The RAT describes the attributes of a JES2 remote. Remotes are devices (remote workstations) or pseudo devices (e.g. programs emulating RJE protocols connected to JES2 via an SNA line). The protocol defines a single transmission mechanism (the line), with single transmitter/receivers at either end (e.g. the JES2 Line Manager PCE, and an RJE workstation CPU or RJE emulation program). Multiple streams of data records can be interleaved in the traffic to/from the MLLM and the workstation, which are broken out at each end as data to/for workstation peripherals (PRTs, RDRs, PUNs, CON) and the matching JES2 logical processors.
The RAT is a set of contiguous entries, one for each remote (the first is for remote 1, not 0). The size of each entry is RATTLE, and you can index into the RAT to find the desired entry using a remote number. The number of entries is $RMTNUM, which is the largest allowed remote number (may be different on each MAS member). This is the RAT definition after initialization - during parmlib processing there is a temporary RAT with $MAXRJE entries.

$RAT mapping

Table 447. Structure RAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RAT	REMOTE ATTRIBUTE TABLE DSECT
0	(0)	CHARACTER	8	RATNAME	REMOTE NAME
8	(8)	ADDRESS	4	RATRDCT	ADDRESS OF FIRST REMOTE DCT
12	(C)	ADDRESS	4	RATLDCT	ADDRESS OF LINE DCT
16	(10)	ADDRESS	4	RATTOKA	Address of SAF token
20	(14)	SIGNED	4	RATROUTE(0)	REMOTES ROUTE CODE
20	(14)	SIGNED	2	RATNODE	NODE NUMBER
22	(16)	SIGNED	2	RATRTE	REMOTE ROUTE
24	(18)	BITSTRING	1	RATTYPE	TERMINAL TYPE (SEE MDCTTYPE)
25	(19)	BITSTRING	1	RATFMT	TERMINAL DATA FORMAT
26	(1A)	BITSTRING	1	RATFEAT	TERMINAL FEATURES
27	(1B)	ADDRESS	1	RATNUMRD	NUMBER OF READERS
28	(1C)	ADDRESS	1	RATNUMPR	NUMBER OF PRINTERS
29	(1D)	ADDRESS	1	RATNUMPU	NUMBER OF PUNCHES
30	(1E)	BITSTRING	1	RATCONF	REMOTE CONSOLE FLAGS
31	(1F)	BITSTRING	1		RESERVED FOR FUTURE USE
32	(20)	SIGNED	4	RATCONRT	REMOTE CONSOLE ROUTE CODE
36	(24)	SIGNED	2	RATBUFSZ	TERMINAL BUFFER SIZE
38	(26)	SIGNED	2	RATWTIME	TERMINAL WAIT TIME
40	(28)	BITSTRING	1	RATFLAGS	REMOTE FLAGS
41	(29)	BITSTRING	1	RATFLAG2	REMOTE FLAGS
42	(2A)	SIGNED	2	RATDINTV	REMOTE DISCONNECT INTERVAL
44	(2C)	SIGNED	4	RATIMER	REMOTE CLOCK VALUE
48	(30)	CHARACTER	8	RATSYMB	REMOTES PRIMARY LUNAME
56	(38)	CHARACTER	8	RATPSWD	REMOTE PASSWORD
64	(40)	ADDRESS	4	RATRMJQE	RMT MSG DS JQE OFFSET - IF NON- ZERO, MSGS EXIST FOR PRT
68	(44)	SIGNED	2	RATLOGN	LOGON DCT NUMBER TO USE

Table 447. Structure RAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
70	(46)	SIGNED	2	RATRMTNO	Remote number
72	(48)	ADDRESS	8	RATCDCT	CDCT address
80	(50)	SIGNED	4	RATEND(0)	END OF RAT DSECT
80	(50)	X'50'	0	RATTLE	"*-RAT" LENGTH OF RAT
		RATCONF			
		1...		RATCONFT	"B'10000000'" DISPLAY TIME STAMP, JOB ID, TEXT
		.1..		RATCONFJ	"B'01000000'" DISPLAY JOB ID, TEXT
		..1.		RATCONFC	"B'00100000'" REMOTE HAS A CONSOLE
		ATCONFO EQU B'00010000' REMOTE CONSOLE OPERATIONAL			
		.... 1...		RATCONFI	"B'00001000'" ISSUE SETUP MSGS AS 'INFO'
		.... .1..		RATCONFD	"B'00000100'" ISSUE HASP150 ON-DEVICE MSG TO RMT CONSOLE AS WELL AS OPERATOR, INEFFECTIVE IF IF CONFC IS OFF
		.... ..1.		RATCONFS	"B'00000010'" SUPPRESS RMT MSG PRINTING (MSGPRT=NO ON RMTNN STMT)
		RATFLAGS			
		1...		RATALM	"B'10000000'" REMOTE IS IN AUTOLOGON MODE
		.1..		RATSRMT	"B'01000000'" REMOTE SHOULD BE STARTED
		..1.		RATTINT	"B'00100000'" TEMP DISC INTERVAL IN EFFECT
		...1		RATPILUN	"B'00010000'" RATSYMB PERMANENTLY INITIALIZED
		EQU B'00001000' Reserved for future use EQU B'00000100' Reserved for future use			
		.... ..1.		RATVALID	"B'00000010'" RAT ENTRY IS VALID, IF FLAG IS OFF NO RDR/PRT/PUN DCTS ARE ALLOCATED, SIGNON IS NOT BE PERMITTED
		1		RATOUTPT	"B'00000001'" OUTPUT EXISTS FOR THIS RMT
		RATFLAG2 RAT2NSHR and RAT2SHRE are mutually exclusive flags, and are meaningless if RATLDCT contains zero or if remote is signed on to an unleased line.			
		1...		RAT2QSCN	"B'10000000'" AUTOLG FULL Q SCAN REQUIRED
		.1..		RAT2NSHR	"B'01000000'" RATLDCT holds nonshared lne
		..1.		RAT2SHRE	"B'00100000'" RATLDCT holds shared line

Table 448. Cross Reference for $RAT

Name	Offset	Hex Tag
RAT	0	
RATALM	50	80

Table 448. Cross Reference for $RAT (continued)

Name	Offset	Hex Tag
RATBUFSZ	24	
RATCDCT	48	
RATCONF	1E	
RATCONFC	50	20
RATCONFD	50	4
RATCONFI	50	8
RATCONFJ	50	40
RATCONFS	50	2
RATCONFT	50	80
RATCONRT	20	
RATDINTV	2A	
RATEND	50	
RATFEAT	1A	
RATFLAGS	28	
RATFLAG2	29	
RATFMT	19	
RATIMER	2C	
RATLDCT	C	
RATLOGN	44	
RATNAME	0	
RATNODE	14	
RATNUMPR	1C	
RATNUMPU	1D	
RATNUMRD	1B	
RATOUTPT	50	1
RATPILUN	50	10
RATPSWD	38	
RATRDCT	8	
RATRMJQE	40	
RATRMTNO	46	
RATROUTE	14	
RATRTE	16	
RATSRMT	50	40
RATSYMB	30	
RATTINT	50	20
RATTLE	50	50
RATTOKA	10	
RATTYPE	18	
RATVALID	50	2
RATWTIME	26	
RAT2NSHR	50	40
RAT2QSCN	50	80
RAT2SHRE	50	20

$RCPWORK information

$RCPWORK programming interface information

$RCPWORK is a programming interface.

$RCPWORK heading information

Common name:	JES2 Remote Console Processor
Macro ID:	$RCPWORK
DSECT name:	PCE ($RCPWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol RCPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $MCONPCE field of the $HCT data area points to the remote console PCE. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 remote console processor. $RCPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RCPWORK are actually part of the PCE DSECT, but only map the PCE with the value PCERCPID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$RCPWORK mapping

Table 449. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP REMOTE CONSOLE PROCESSOR
REMOTE CONSOLE DEVICE CONTROL TABLE (WITH COMBINED BSC AND SNA FOUNDATION EXTENSIONS					
328	(148)	DBL WORD	8	(0)	BEGINNING OF DCT
328	(148)	BITSTRING	1	RCPDCT	BSC RMT DCT & EXTNSN
END OF REMOTE CONSOLE DEVICE CONTROL TABLE					
464	(1D0)	ADDRESS	1	RCPWF	WORK/WAIT FLAGS
465	(1D1)	BITSTRING	1	RCPWF2	MORE WORK/WAIT FLAGS
466	(1D2)	ADDRESS	1	RCPMF	MESSAGE PENDING FLAGS
467	(1D3)	BITSTRING	1		Reserved
468	(1D4)	ADDRESS	4	RCPJQTMR	WAITING FOR JOB QUEUE TIMER
472	(1D8)	DBL WORD	8	RCPEXTPL	RCP EXTP PARAMETER LIST AREA
480	(1E0)	DBL WORD	8	RCPBASET	TIME OF SCAN

Table 449. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CURRENT CONCURRENT FUNCTION EXIT ADDRESSES			
488	(1E8)	SIGNED	4	RCPXIT(0)	
488	(1E8)	ADDRESS	4	RCPMSXIT	EXIT TO MESSAGE SPOOLING CHECK RTN
492	(1EC)	ADDRESS	4	RCPSOXIT	EXIT TO SPOOLING OUT FUNCTION
496	(1F0)	ADDRESS	4	RCPSIXIT	EXIT TO SPOOLING IN FUNCTION
500	(1F4)	ADDRESS	4	RCPIOXIT	EXIT TO INPUT FUNCTION
500	(1F4)	X'1E8'	0	RCPDMXCN	"RCPXIT,*-RCPXIT"
504	(1F8)	SIGNED	4	RCPREGSV(16)	INTERNAL RCP SAVE/WORK AREA
568	(238)	ADDRESS	4	RCPIOT	IOT BUFFER
572	(23C)	ADDRESS	4	RCPSWELQ	Pending SAF requests
		MESSAGE SPOOLING CONTROLS			
576	(240)	ADDRESS	4	RCPMSB1	FIRST MESSAGE BUFFER ADDRESS
580	(244)	ADDRESS	4	RCPMSBL	LAST MESSAGE BUFFER ADDRESS
584	(248)	ADDRESS	4	RCPMSLBW	LAST BUFFER WRITTEN TO MSG DS + 1
588	(24C)	ADDRESS	4	RCPMSCB	NEXT MESSAGE SPOOL BUFFER TO CHECK
592	(250)	ADDRESS	4	RCPMSBSV	NEXT MSG BUFFER TO PROCESS
596	(254)	ADDRESS	4	RCPMSRRD	BFR CURRENTLY BEING REREAD
600	(258)	ADDRESS	4	RCPMSIOT	ADDRESS OF CURRENT RMT MSG IOT
604	(25C)	ADDRESS	4	RCPMSBAT	BAT for IOT buffer
608	(260)	ADDRESS	4	RCPMSRAT	ADDRESS OF CURRENT RAT ELEMENT
612	(264)	ADDRESS	4	RCPMSNTK	MTTR OF NEXT MSG REC TO WRITE
616	(268)	ADDRESS	4	RCPMSCMB	CMB address
620	(26C)	ADDRESS	4	RCPMSHDR	SAVE AREA FOR CMB HEADER
624	(270)	ADDRESS	4	RCPMSRTE	RMT NO. OF CMB BEING SPOOLED
628	(274)	ADDRESS	4	RCPROUT	SCANNED OUTPUT REMOTE NUMBER
632	(278)	CHARACTER	8	RCPMSKEY(0)	REMOTE MESSAGE DS KEY
632	(278)	SIGNED	4	RCPMSKJK	JOB IDENTIFIER KEY
636	(27C)	SIGNED	4	RCPMSKDK	DATA SET KEY
640	(280)	ADDRESS	2	RCPBFSZ	CONSOLE BUFFER SIZE
642	(282)	BITSTRING	1	RCPCFLG	CMB processing flags
		1...		RCPCFQCH	"B'10000000'" CMB has been dechained from $BUSYRQ, OK to run entire chain
		.1..		RCPCFVTS	"B'01000000'" SNA buffer shortage HASP248 has been issued
		..1.		RCPCFBSS	"B'00100000'" BSC buffer shortage HASP248 has been issued
		...1		RCPCFMLM	"B'00010000'" MLLM suspended HASP248 has been issued
		.... 1...		RCPCFPLF	"B'00001000'" All CMBs dequeued from CCTNOUSQ
643	(283)	ADDRESS	1		RESERVED FOR FUTURE USE
		SPOOL OUT CONTROLS			
644	(284)	ADDRESS	4	RCPSOBAK	BACK UP ADDRESS TO SPOOL OUT BUFFER
648	(288)	ADDRESS	4	RCPSOOUT	SHARED QUEUE OUTPUT BUFFER ADDRESS

Table 449. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
652	(28C)	ADDRESS	4	RCPSOLR	LOCATION OF LOGICAL RECORD
656	(290)	ADDRESS	2	RCPSOFRE	FREE DATA COUNT
658	(292)	ADDRESS	2	RCPSOCTR	COUNTER
660	(294)	ADDRESS	4	RCPSOQSE	CURRENT OUTPUT QSE ADDRESS
660	(294)	X'C'	0	RCPTABBL	"L'IOTRCPBA+L'TABRCPBA" BACK-UP AREA FOR 1 SYSTEM
664	(298)	BITSTRING	1	RCPTABBA(0)	Work data for $TRACK
1048	(418)	ADDRESS	3	RCPSORT	CURRENT NODE-QUALIFIER TO SPOOL
	NODAL OUTPUT CONTROL				
1051	(41B)	ADDRESS	3	RCPNORT	CURRENT NODE TO NODE OUT
1054	(41E)	BITSTRING	3	RCPNMRP	3-BYTE PREFACE TO NODAL MSG REC
NOTE: MUST ALWAYS PRECEDE NMR ASSEMBLY AREA --- USED BY $EXTP PUT TO BUILD RID					
1057	(421)	BITSTRING	178	RCPNMR	ASSEMBLY AREA FOR NODAL MESSAGE RECS
1235	(4D3)	ADDRESS	1	RCPAUTH	NODAL COMMAND AUTHORITY RESTRICTIONS
1236	(4D4)	ADDRESS	4	RCPNODCT	CURRENT NODAL OUTPUT DCT ADDR
1240	(4D8)	ADDRESS	4	RCPNPMB	DELAY TIMER FOR BUSY PATH MANAGER
	SHARED QUEUE INPUT CONTROL				
1244	(4DC)	ADDRESS	4	RCPSIIN	SHARED QUEUE INPUT BUFFER
1248	(4E0)	ADDRESS	4	RCPSILR	LOCATION OF LOGICAL RECORD
1252	(4E4)	ADDRESS	2	RCPSICTR	COUNTER
1254	(4E6)	ADDRESS	2	RCPSICTA	COUNTER
1256	(4E8)	ADDRESS	4	RCPSIQSQ	CURRENT INPUT QSE CONTROL ELEMENT
1260	(4EC)	ADDRESS	4	RCPMTTR	SAVE AREA - CURRENT INPUT MTTR
1264	(4F0)	ADDRESS	2	RCPSID	System id number
1266	(4F2)	BITSTRING	48	RCPSIRT	CMB SPOOL HEADER IN MLWTO
1314	(522)	ADDRESS	2	RCPSIQCT	QSE SEARCH COUNTER SAVE AREA
1316	(524)	BITSTRING	5	RCPTGAE	TGAE work area
1321	(529)	BITSTRING	3		Reserved
	INPUT FUNCTION SPOOL OUT CONTROL				
1324	(52C)	ADDRESS	4	RCPIOOUT	INPUT OVERFLOW OUTPUT BUFFER ADDRESS
1328	(530)	ADDRESS	4	RCPIOLR	LOCATION OF LOGICAL RECORD
1332	(534)	ADDRESS	2	RCPIOFRE	FREE DATA COUNT
1334	(536)	ADDRESS	2	RCPIOCTR	COUNTER
1336	(538)	ADDRESS	4	RCPIOTTR	ACTIVE INPUT SPOOL OUTPUT RECRD
	NODAL INPUT CONTROL				
1340	(53C)	ADDRESS	4	RCPININ	INPUT OVERFLOW INPUT BUFFER
1344	(540)	ADDRESS	4	RCPINLNE	CURRENT INPUT SOURCE DCT ADDR
1348	(544)	ADDRESS	4	RCPINTME	LINE INPUT DELAY TIMER

Table 449. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Area to receive commands from RJEs and NJE nodes Note that RCPTOKN is not referred to by name; the token is moved to the next available byte after the command.			
1352	(548)	BITSTRING	232	RCPIN	Cmd/msg input work area
1584	(630)	BITSTRING	256	RCPINA	AREA TO RECEIVE DATA
1840	(730)	BITSTRING	1	RCPTOKN	Area for token
		MISCELLANEOUS			
1920	(780)	SIGNED	4	(0)	Ensure alignment
1920	(780)	CHARACTER	64	RCPSAFPM	Parameters for MSAFCHK
1984	(7C0)	ADDRESS	1	RCPFL	FLAGS
1985	(7C1)	ADDRESS	1	RCPFI	FLAGS FOR INPUT FUNCTIONS
1986	(7C2)	ADDRESS	2	RCPSCQOF	Offset of this member's SCQ
1988	(7C4)	ADDRESS	4	RCPSCQAD	Addr of this member's SCQS
1992	(7C8)	ADDRESS	4	RCPRESV	RESERVED BUFFER
1996	(7CC)	BITSTRING	48	RCPLSAV	MLWTO CNTRL FOR INPUT LNES
2044	(7FC)	CHARACTER	18	RCPDSTWK	DEST WORK AREA
2062	(80E)	CHARACTER	2	RCPRSV1	RESERVED FOR FUTURE USE
2064	(810)	ADDRESS	4	RCPXSAV(3)	EXIT ROUTINE ACTIVATOR SAVE AREA
2076	(81C)	ADDRESS	2	RCPSIDEL(0)	Offsets for interrupted READs
2140	(85C)	ADDRESS	4	RCPSIDLP	CURRENT INTERRUPTED READ OFFSET
2144	(860)	SIGNED	4	RCPREGS(16)	Save area for $SETAFF macro
		Parameter list and other work areas for MVS Cloning translation service routine.			
2208	(8A0)	SIGNED	4	RCPSYMBP(0)	Parameter List
2236	(8BC)	SIGNED	4	RCPSYMLN	Length of translated cmd
2240	(8C0)	SIGNED	4	RCPSYMRC	RC from translation service
2244	(8C4)	ADDRESS	4	RCPSYMBF	Addr of trans output bfr
-------		$BLDMSG MF=L List form of $BLDMSG			
2248	(8C8)	SIGNED	4	RCPBLMSG(0)	Control block ID
2252	(8CC)	BITSTRING	4		Console ID
2256	(8D0)	ADDRESS	4		Address of the CART
2260	(8D4)	ADDRESS	4		Pointer for JOBID
2264	(8D8)	ADDRESS	4		Control block address
2268	(8DC)	ADDRESS	4		Display routine address
2272	(8E0)	ADDRESS	4	(6)	6 word work area
2296	(8F8)	ADDRESS	4		Caller's R11 value
2300	(8FC)	BITSTRING	2		ROUT code for Message
2302	(8FE)	BITSTRING	2		Not used
2304	(900)	CHARACTER	4		Message ID
2308	(904)	CHARACTER	1		Separator character
2309	(905)	ADDRESS	1		Flag byte 1
2310	(906)	ADDRESS	1		'DISPER'

Table 449. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2311	(907)	ADDRESS	1		Flag byte 2
2312	(908)	ADDRESS	1		Flag byte 3
2313	(909)	ADDRESS	1		Severity of message
2314	(90A)	CHARACTER	8		Symbolic name of dest.
2322	(912)	BITSTRING	14		Not used
2336	(920)	ADDRESS	4	(0)	Ensure multiple of 4
2336	(920)	ADDRESS	2	(0)	
2336	(920)	CHARACTER	8	RCPSOURC	HASP551 command source
2344	(928)	CHARACTER	8	RCPADJND	HASP551 adjacent node
2352	(930)	BITSTRING	1	RCPDUBIE	HASP551 rejection reason
2352	(930)	X'4'	0	RCPDOWN	"4" Command from own node
2352	(930)	X'8'	0	RCPDUNKN	"8" Command from unknown node
2352	(930)	X'C'	0	RCPDSUB	"12" Subnet command arrived from outside subnet
2352	(930)	X'10'	0	RCPDDIR	"16" Direct origin via S & F
2352	(930)	X'14'	0	RCPDADJX	"20" Adjacent and exec node same
2353	(931)	BITSTRING	1		Reserved
2354	(932)	SIGNED	2	RCPNMRSZ	Inbound NMR size
2356	(934)	BITSTRING	4		Reserved
2360	(938)	SIGNED	8	(0)	Align
2360	(938)	X'7F0'	0	RCPPCEWS	"*-PCEWORK"
RCPWF DEFINITIONS					
		1...		RCPWFCMB	"B'10000000'" WAIT ON CMB
		.1..		RCPWFQX	"B'01000000'" WAIT ON JOB QUEUE IN EXIT
		..1.		RCPWFQO	"B'00100000'" WAIT ON JOB QUEUE FOR OUTPUT
		...1		RCPWFTRK	"B'00010000'" WAIT ON $TRACK
		.... 1...		RCPWFPCB	"B'00001000'" PURGE CMB (CMB SHORTAGE)
		.... .1..		RCPWFBUF	"B'00000100'" WAIT ON TP BUFFER
		.... ..1.		RCPWFIBF	"B'00000010'" WAIT ON INPUT TP BUFFER
		1		RCPWFPSO	"B'00000001'" PURGE SPOOL OUTPUT BUFFER
RCPWF2 DEFINITIONS					
		.1..		RCPWF2ML	"B'01000000'" MLWTO IN PROGRESS
RCPFL DEFINITIONS					
		1...		RCPFLSOM	"B'10000000'" SPOOLING OUT WORKING ON MLWTO
		.1..		RCPFLSOE	"B'01000000'" SPOOLING OUT DISASTROUS ERROR FLAG
		..1.		RCPFLNOM	"B'00100000'" NODAL OUT WORKING ON MLWTO
EQU B'00010000' Reserved for future use					

Table 449. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		RCPFLTML	"B'00001000'" WE ARE CURRENTLY TRANSMITTING MLWTO
		.... .1..		RCPFLT	"B'00000100'" TEMPORARY CONDITION INDICATOR
		.... ..1.		RCPFLMXM	"B'00000010'" &SPOLMSG MAX MSG RECS REACHED
		1		RCPFLIOE	"B'00000001'" I/O ERROR SPOOLING RMT MSGS
	RCPMF DEFINITIONS				
		1...		RCPMFSPF	"B'10000000'" MTTRVAL error
		.1..		RCPMFRRD	"B'01000000'" ERROR READING REMOTE MSGS
		..1.		RCPMFRWR	"B'00100000'" ERROR WRITING REMOTE MSGS
		...1		RCPMFMNU	"B'00010000'" SPOOL MEM NOT UP-MSGS DISCARDED
		.... 1...		RCPMFMAX	"B'00001000'" MSG LIMIT REACHED ON INPUT
		.... .1..		RCPMFMQE	"B'00000100'" MAX MSGS TO SPOOL Q EXCEEDED
		.... ..1.		RCPMFSMP	"B'00000010'" SPOOL OUT ERROR MESSAGE PENDING
		1		RCPMFIMP	"B'00000001'" INPUT ERROR MESSAGE PENDING
		.111 1111		RCPMFPND	"B'01111111'" Bits used in RCPMF - used to determine if a message needs to be issued.
	RCPFI DEFINITIONS				
		1...		RCPFIIE	"B'10000000'" ERROR ON INPUT
		.1..		RCPFIM	"B'01000000'" NODE INPUT IS PROCESSING MLWTO
		..1.		RCPFISP	"B'00100000'" INPUT SPOOLING IS ACTIVE
		...1		RCPFIOE	"B'00010000'" INPUT SPOOL OUT ERROR
		.... 1...		RCPFISID	"B'00001000'" SPOOL BUFFER HAS DATA
		.... .1..		RCPFINUL	"B'00000100'" INPUT SPOOL DISCARDING
		.... ..1.		RCPFIA	"B'00000010'" INPUT SPOOL WRITING
		1		RCPFIR	"B'00000001'" PAGE RELEASE REQUIRED ON SPOOL INPUT

Table 450. Cross Reference for $RCPWORK

Name	Offset	Hex Tag
PCE	0	
RCPADJND	928	
RCPAUTH	4D3	
RCPBASET	1E0	0
RCPBFSZ	280	
RCPBLMSG	8C8	C2D3C440
RCPCFBSS	282	20
RCPCFLG	282	

Table 450. Cross Reference for $RCPWORK (continued)

Name	Offset	Hex Tag
RCPCFMLM	282	10
RCPCFPLF	282	8
RCPCFQCH	282	80
RCPCFVTS	282	40
RCPDADJX	930	14
RCPDCT	148	0
RCPDDIR	930	10
RCPDMXCN	1F4	1E8
RCPDOWN	930	4
RCPDSTWK	7FC	
RCPDSUB	930	C
RCPDUBIE	930	
RCPDUNKN	930	8
RCPEXTPL	1D8	0
RCPFI	7C1	
RCPFIA	938	2
RCPFIIE	938	80
RCPFIM	938	40
RCPFINUL	938	4
RCPFIOE	938	10
RCPFIR	938	1
RCPFISID	938	8
RCPFISP	938	20
RCPFL	7C0	
RCPFLIOE	938	1
RCPFLMXM	938	2
RCPFLNOM	938	20
RCPFLSOE	938	40
RCPFLSOM	938	80
RCPFLT	938	4
RCPFLTML	938	8
RCPIN	548	0
RCPINA	630	0
RCPININ	53C	
RCPINLNE	540	
RCPINTME	544	
RCPIOCTR	536	0
RCPIOFRE	534	0
RCPIOLR	530	
RCPIOOUT	52C	
RCPIOT	238	
RCPIOTTR	538	
RCPIOXIT	1F4	
RCPJQTMR	1D4	
RCPLSAV	7CC	0
RCPMF	1D2	

Table 450. Cross Reference for $RCPWORK (continued)

Name	Offset	Hex Tag
RCPMFIMP	938	1
RCPMFMAX	938	8
RCPMFMNU	938	10
RCPMFMQE	938	4
RCPMFPND	938	7F
RCPMFRRD	938	40
RCPMFRWR	938	20
RCPMFSMP	938	2
RCPMFSPF	938	80
RCPMSBAT	25C	
RCPMSBL	244	
RCPMSBSV	250	
RCPMSB1	240	
RCPMSCB	24C	
RCPMSCMB	268	
RCPMSHDR	26C	
RCPMSIOT	258	
RCPMSKDK	27C	
RCPMSKEY	278	
RCPMSKJK	278	
RCPMSLBW	248	
RCPMSNTK	264	
RCPMSRAT	260	
RCPMSRRD	254	
RCPMSRTE	270	
RCPMSXIT	1E8	
RCPMTTR	4EC	
RCPNMR	421	0
RCPNMRP	41E	0
RCPNMRSZ	932	
RCPNODCT	4D4	
RCPNORT	41B	
RCPNPMB	4D8	
RCPPCEWS	938	7F0
RCPREGS	860	
RCPREGSV	1F8	
RCPRESV	7C8	
RCPROUT	274	
RCPRSV1	80E	
RCPSAFPM	780	
RCPSCQAD	7C4	
RCPSCQOF	7C2	0
RCPSICTA	4E6	0
RCPSICTR	4E4	0
RCPSID	4F0	0
RCPSIDEL	81C	0

Table 450. Cross Reference for $RCPWORK (continued)

Name	Offset	Hex Tag
RCPSIDLP	85C	
RCPSIIN	4DC	
RCPSILR	4E0	
RCPSIQCT	522	0
RCPSIQSQ	4E8	
RCPSIRT	4F2	0
RCPSIXIT	1F0	
RCPSOBAK	284	
RCPSOCTR	292	0
RCPSOFRE	290	0
RCPSOLR	28C	
RCPSOOUT	288	
RCPSOQSE	294	
RCPSORT	418	
RCPSOURC	920	
RCPSOXIT	1EC	
RCPSWELQ	23C	
RCPSYMBF	8C4	
RCPSYMBP	8A0	
RCPSYMLN	8BC	
RCPSYMRC	8C0	
RCPTABBA	298	0
RCPTABBL	294	C
RCPTGAE	524	0
RCPTOKN	730	0
RCPWF	1D0	
RCPWFBUF	938	4
RCPWFCMB	938	80
RCPWFIBF	938	2
RCPWFPCB	938	8
RCPWFPSO	938	1
RCPWFQO	938	20
RCPWFQX	938	40
RCPWFTRK	938	10
RCPWF2	1D1	0
RCPWF2ML	938	40
RCPXIT	1E8	
RCPXSAV	810	

$RDRWORK information

$RDRWORK programming interface information

The following fields are **NOT** programming interface information:

- RDWOCT
- RDWRJCB

- RDWRJCBS

$RDRWORK heading information

Common name: JES2 Input Services PCE Work Area

Macro ID: $RDRWORK

DSECT name: PCE ($RDRWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See RDWLEN for normal devices.
See RDWRJELN for RJE Input devices.
See RDWNJRLN for Network Job Receivers.
See RDWILEN for Internal Readers.
The overall length of the PCE is stored in field PCELENG.

Created by: Created by $PCEDYN during JES2 initialization for most input services PCEs. PCEs for remote readers are an exception, they are created by $PCEDYN when the remote for that reader is started.

Pointed to by: $RDRPCE field of the $HCT data area
$INRPCE field of the $HCT data area
$TPRDPCE field of the $HCT data area
$NJRPCE field of the $HCT data area
$OJRPCE field of the $HCT data area
$NRRPCE field of the $HCT data area
$EXECPCE field of the $HCT data area
$TRCPCE field of the $HCT data area
$OUTPCE field of the $HCT data area
$STACPCE field of the $HCT data area
$RESMPCE field of the $HCT data area
$SPOLPCE field of the $HCT data area
DCTPCE field of the $DCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Input Service Processor and by its support routines and exits. $RDRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RDRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERDRID, PCENJRID or PCENRRID in the second byte of field PCEID, and a few other PCE work areas that also contain the $RDRWORK area; $COMWORK, $OUTWORK, $PSOWORK, $SPNWORK, $TLGWORK, $XEQWORK, and $SPIWORK.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$RDRWORK mapping

Table 451. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	1	RDWSW1	Reader switches
		1...		RDW1EOF	"B'10000000'" End-of-file switch
		.1..		RDW1DRN	"B'01000000'" SPOF recver being drained

Table 451. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
329	(149)	BITSTRING	2		Reserved for future use
331	(14B)	BITSTRING	1	RDWFLAGX	READER EXITS FLAG BYTE
332	(14C)	SIGNED	4	RDWIBEND	ADDRESS OF LAST CARD IN INPUT BUFFER
336	(150)	ADDRESS	4	RDWIBSTD	INPUT BUFFER START DISPLACEMENT
	RPUT parameter lists				
340	(154)	BITSTRING	48	RDWPJCL	JCLIN data set parm list
388	(184)	BITSTRING	48	RDWPSYSN	SYSIN data set parm list
436	(1B4)	CHARACTER	10	RDWDEST	DESTINATION WORK AREA
446	(1BE)	BITSTRING	2		Reserved space
448	(1C0)	ADDRESS	4	RDWSMFB	SMF BUFFER POINTER
456	(1C8)	DBL WORD	8	RDWCWKAR(0)	Common work area
	RDWRECCT and RDWCURRC are for SDSF use				
456	(1C8)	X'228'	0	RDWCURRC	"(JRWCUREC-JRW)+RDWCWKAR,4,C'F'" Count of records received
456	(1C8)	X'224'	0	RDWRECCT	"(JRWRCOUN-JRW)+RDWCWKAR,4,C'F'" Total input records (from NJH)
3480	(D98)	ADDRESS	4	RDWIBCUR	Input buffer current card
3484	(D9C)	SIGNED	4	(3)	RESERVED
3484	(D9C)	X'DA8'	0	RDWORG	"*" START OF READER EXTENSIONS
	WORK AREA FOR RJE INPUT DEVICES				
3496	(DA8)	CHARACTER	260	RDWRJECD(0)	REMOTE READER INPUT AREA
3496	(DA8)	CHARACTER	256	RDWRCARD	MAX RJE CARD IMAGE SIZE
3752	(EA8)	CHARACTER	4	RDWRCDXT	RESERVED FOR XTRA WK SPACE
3756	(EAC)	BITSTRING	8		Reserved
3756	(EAC)	X'D6C'	0	RDWRJELN	"*-PCEWORK" LENGTH OF RJE INPUT PCE WORK AREA
	WORK AREA FOR NETWORK JOB RECEIVERS				
3496	(DA8)	BITSTRING	260	RDWNJRCD(0)	JOB RECEIVER INPUT AREA
3496	(DA8)	BITSTRING	256	RDWNCARD	MAXIMUM NJE HEADER SIZE
3752	(EA8)	BITSTRING	4	RDWNCDXT	RESERVED FOR XTRA WK SPACE
3756	(EAC)	ADDRESS	4	RDWNIBUF	Address of 32K input buffer
3760	(EB0)	BITSTRING	1	RDWNSRCB	SRCB work area
3761	(EB1)	BITSTRING	3		Reserved
3761	(EB1)	X'D6C'	0	RDWNJRLN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH
3761	(EB1)	X'D6C'	0	RDWLEN	"*-PCEWORK" Length of normal input PCE work area
	Ensure lengths of extensions are equal. Assembly errors will show in following SCONS if not equal.				
3764	(EB4)	ADDRESS	2	(0)	
3764	(EB4)	ADDRESS	2	(0)	

Table 452. Structure RDWPUTPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RDWPUTPL	, RPUT parameter list DSECT
0	(0)	ADDRESS	4	RDWPLBUF	Current output buffer
4	(4)	ADDRESS	4	RDWPLBNX	Next card in buffer addr
8	(8)	ADDRESS	4	RDWPLBND	End of output buffer addr
12	(C)	BITSTRING	6	RDWPLCTK	Current buffer track address (MQTR)
18	(12)	BITSTRING	2		Reserved
20	(14)	ADDRESS	4	RDWPLPDB	Associated PDDB
24	(18)	BITSTRING	6	RDWPLIMQ	MQTR of IOT containing PDDB
30	(1E)	BITSTRING	2		Reserved
32	(20)	ADDRESS	4	RDWPLREC	Record pointer
36	(24)	BITSTRING	1	RDWPLCC	Carriage control
37	(25)	BITSTRING	1	RDWPLLRC	LRC to be used
38	(26)	SIGNED	2	RDWPLRCL	Record LRECL
38	(26)	X'26'	0	RDWPLSLN	"RDWPLRCL,1" SCR length (SCRTLENG)
38	(26)	X'27'	0	RDWPLSTY	"RDWPLRCL+1,1" SCR Type (SCRTYPE)
40	(28)	BITSTRING	1	RDWPLFG1	Control flags
		1...		RDWPL1TR	"B'10000000'" Truncate current buffer
		.1..		RDWPL1CL	"B'01000000'" Truncate and close steam
		..1.		RDWPL1JL	"B'00100000'" JCL data set (will be read by converter)
Work areas used by RPUT and close processing					
41	(29)	BITSTRING	1	RDWPLFG2	Data flag byte
		1...		RDWPL2FR	"B'10000000'" At least one record proc
		.1..		RDWPL2VA	"B'01000000'" Record sized vary
		..1.		RDWPL2CA	"B'00100000'" ASA control character found
		...1		RDWPL2CM	"B'00010000'" Machine control chars found
42	(2A)	SIGNED	2	RDWPLMLR	Max LRECL seen by RPUT
44	(2C)	SIGNED	2	RDWPLCLN	Blank truncated card length
48	(30)	SIGNED	4	(0)	Align
48	(30)	X'30'	0	RDWPLSIZ	"*-RDWPUTPL" Parameter list size
		...1		RDWSIOCS	"X'10'" SIO CSW STORED BIT
		..11		RDWSIOCC	"X'30'" SIO COMPLETION CODE BITS

Table 453. Cross Reference for $RDRWORK

Name	Offset	Hex Tag
PCE	0	
RDWCURRC	1C8	228
RDWCWKAR	1C8	
RDWDEST	1B4	
RDWFLAGX	14B	
RDWIBCUR	D98	
RDWIBEND	14C	

Table 453. Cross Reference for $RDRWORK (continued)

Name	Offset	Hex Tag
RDWIBSTD	150	
RDWLEN	EB1	D6C
RDWNCARD	DA8	
RDWNCDXT	EA8	
RDWNIBUF	EAC	
RDWNJRCD	DA8	
RDWNJRLN	EB1	D6C
RDWNSRCB	EB0	
RDWORG	D9C	DA8
RDWPJCL	154	
RDWPLBND	8	
RDWPLBNX	4	
RDWPLBUF	0	
RDWPLCC	24	
RDWPLCLN	2C	
RDWPLCTK	C	
RDWPLFG1	28	
RDWPLFG2	29	
RDWPLIMQ	18	
RDWPLLRC	25	
RDWPLMLR	2A	
RDWPLPDB	14	
RDWPLRCL	26	
RDWPLREC	20	
RDWPLSIZ	30	30
RDWPLSLN	26	26
RDWPLSTY	26	27
RDWPL1CL	28	40
RDWPL1JL	28	20
RDWPL1TR	28	80
RDWPL2CA	29	20
RDWPL2CM	29	10
RDWPL2FR	29	80
RDWPL2VA	29	40
RDWPSYSN	184	
RDWPUTPL	0	
RDWRCARD	DA8	
RDWRCDXT	EA8	
RDWRECCT	1C8	224
RDWRJECD	DA8	
RDWRJELN	EAC	D6C
RDWSIOCC	30	30
RDWSIOCS	30	10
RDWSMFB	1C0	
RDWSW1	148	
RDW1DRN	148	40

Table 453. Cross Reference for $RDRWORK (continued)

Name	Offset	Hex Tag
RDW1EOF	148	80

$RECY information

$RECY heading information

Common name: Recovery CTENT

Macro ID: $RECY

DSECT name: RECYDAS

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of RECY CTENTs are preceded by an eyecatcher '**RECY POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: 0,dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

Size: $RCDSIZE in the $HCT data contains the size of a RECYDAS array element.

Created by: JES2 initialization allocates storage for the RECY CTENTS in JES2 private. The checkpoint versions subtask creates copies of the RECYDAS checkpoint versions dataspace.

Pointed to by: The $RCDFRST field of the $HCT data area points to the first RECY in the JES2 private area.

Serialization: None

Function: Represents recovery data for a control block when rebuilding the control block.
The RECYDAS is used to rebuild individual DASes and their chaining on the track queue, work queue, and/or neither queue when an error has been detected during validation performed at initialization.

$RECY mapping

Table 454. Structure RECYDAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RECYDAS	
0	(0)	CHARACTER	6	RCDVOLID	EBCDIC Volser id
6	(6)	BITSTRING	1	RCDFLAG1	Shadow copy of DASFLAG
7	(7)	BITSTRING	1	RCDFLAG2	Shadow copy of DASFLAG2
8	(8)	BITSTRING	1	RCDFLAG3	Shadow copy of DASFLAG3
9	(9)	BITSTRING	1	RCDFLAG4	Shadow copy of DASFLAG4
10	(A)	BITSTRING	1	RCDFLAG5	Shadow copy of DASFLAG5
11	(B)	BITSTRING	1	RCDFLAG6	Shadow copy of DASFLAG6
12	(C)	BITSTRING	1	RCD7PHAS	Shadow copy of DASPHAS7
13	(D)	BITSTRING	1	RCDFLAG8	Shadow copy of DASFLAG8
14	(E)	SIGNED	2	RCDNOTGP	Number of tracks per group
16	(10)	SIGNED	4	RCDTRK(0)	Valid track range
16	(10)	BITSTRING	2	RCDLOTRK	Lower limit
18	(12)	BITSTRING	2	RCDUPTRK	Upper limit

Table 454. Structure RECYDAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	SIGNED	4	RCDSTRK	Start track for extent
24	(18)	SIGNED	4	RCDMAPO	Offset from $TGMAP for this extent
28	(1C)	SIGNED	4	(0)	Ensure fullword alignment
28	(1C)	BITSTRING	4	RCDALOCS	Sys. with ext alloc'ed
32	(20)	BITSTRING	4	RCDERROR	Sys. error during alloc
36	(24)	BITSTRING	32	RCDERCDE	Error codes for systems
68	(44)	SIGNED	4	RCDTGNUM	Num of trackgroup in extent
72	(48)	ADDRESS	1	RCDMIGTR	SYSID of migrator system - system housing the migrator subtask. DASMIGTR
73	(49)	CHARACTER	6	RCDTARG	Represents target volser for spool migration. DASTARG.
79	(4F)	BITSTRING	1	RCDFLAGA	Shadow copy of DASFLAGA
80	(50)	CHARACTER	8		Reserved for future use
88	(58)	DBL WORD	8	(0)	Align end of RECY
88	(58)	SIGNED	4	RCDBSEND(0)	End of base section
		The INTERNAL format of the RECY is different depending on the mode of the JES2 checkpoint: - If the JES2 checkpoint is in z/OS 1.2 mode, each checkpointed RCD entry DOES NOT include the expanded area. - If the JES2 checkpoint is in z/OS 1.11 mode, each checkpointed RCD entry DOES include the expanded area.			
88	(58)	X'58'	0	RCDLEN_Z2	"*-RECYDAS" Length of checkpointed z/OS 1.2 mode RECY.
88	(58)	CHARACTER	44	RCDDSN	Data set name for spool data set (only valid in z/OS 1.11 mode)
132	(84)	BITSTRING	4	RCDMAPTR	Mapped track number in target volume. DASMAPTR
132	(84)	X'88'	0	RCDZ11LN	"*-RECYDAS" Length of checkpointed z/OS 1.11 mode RECY.
132	(84)	X'1'	0	RCDVRZ2	"1" RECY control block version for z/OS version 1.2 checkpoint mode.
132	(84)	X'2'	0	RCDVRZ11	"2" RECY control block version for z/OS version 1.11 checkpoint mode.

Table 455. Cross Reference for $RECY

Name	Offset	Hex Tag
RCDALOCS	1C	0
RCDBSEND	58	
RCDDSN	58	E2E8E2F1
RCDERCDE	24	0
RCDERROR	20	0
RCDFLAGA	4F	
RCDFLAG1	6	
RCDFLAG2	7	
RCDFLAG3	8	
RCDFLAG4	9	
RCDFLAG5	A	
RCDFLAG6	B	

Table 455. Cross Reference for $RECY (continued)

Name	Offset	Hex Tag
RCDFLAG8	D	
RCDLEN_Z2	58	58
RCDLOTRK	10	
RCDMAPO	18	
RCDMAPTR	84	
RCDMIGTR	48	
RCDNOTGP	E	
RCDSTRK	14	
RCDTARG	49	40404040
RCDTGNUM	44	
RCDTRK	10	
RCDUPTRK	12	
RCDVOLID	0	40404040
RCDVRZ11	84	2
RCDVRZ2	84	1
RCDZ11LN	84	88
RCD7PHAS	C	
RECYDAS	0	

$REQJID information

$REQJID programming interface information

$REQJID is a programming interface.

$REQJID heading information

Common name:	Request job id specifications
Macro ID:	$REQJID
DSECT name:	RJI
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	RJI Offset: RJIID Length: L'RJIID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual storage is 31 bit. No restriction on real storage
Size:	See RJILEN
Created by:	JES2 Initialization
Pointed to by:	CCTREQJI field of the HCCT data area
Serialization:	Normal PCE dispatch serialization
Function:	Specifications for Request jobid jobs. See below for the information stored.

$REQJID mapping

Table 456. Structure RJI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RJI	
0	(0)	CHARACTER	4	RJIID	
4	(4)	BITSTRING	6	RJIJLOG	JES log control
10	(A)	BITSTRING	1	RJIFLAG1	Flag byte
		1...		RJI1TY6	"B'10000000'" Create type 6 SMF records
		.1..		RJI1TY26	"B'01000000'" Create type 26 SMF records
		..1.		RJI1UJP	"B'00100000'" Allow IEFUJP exit
10	(A)	X'B'	0	RJILEN	"*-RJI"

$RESNAM information

$RESNAM programming interface information

$RESNAM is a programming interface.

$RESNAM heading information

Common name:	JES2 Resource Name Mapping
Macro ID:	$RESNAM
DSECT name:	RESNAM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	See RESJLEN and RESILEN
Created by:	$RESNAME is normally included as part of another control block, for example $WAVE.
Pointed to by:	N/A
Serialization:	None required

Function: The Resource names are built by routines in JES that require a resource name in the parameter list for RACROUTE / $SEAS when making SAF calls. The $RESNAM DSECT maps the SAF Resource names. The Resource names mapped by this DSECT have the following format:
:xmp.
JESSPOOL Resource name is
nodename.userid.jobname.jobid.GROUP.Groupname
WHERE
nodename = The eight character nodename
userid = The eight character USER ID
jobname = The eight character JOB NAME
Jobid = The eight character JOBID
GROUP = The Constant 'GROUP'
groupname = The eight character output group
:exmp.
:xmp.
ISF DEST caller Resource name is
ISFAUTH.DEST.destname
WHERE
ISFAUTH = The 7 character constant 'ISFAUTH'
DEST = The 4 character constant 'DEST'
destname = THe destination name (converted by $DEST to character format).
:exmp.

$RESNAM mapping

Table 457. Structure RESNAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RESNAM	
0	(0)	SIGNED	4	RESJSPL(0)	JES2 JESSPOOL RESOURCE NAME
0	(0)	CHARACTER	8	RESJNODE	Nodename
8	(8)	CHARACTER	1	RESJSEP1	separator 1
9	(9)	CHARACTER	8	RESJUSER	USER ID
17	(11)	CHARACTER	1	RESJSEP2	separator 2
18	(12)	CHARACTER	8	RESJJBNM	JOB NAME
26	(1A)	CHARACTER	1	RESJSEP3	separator 3
27	(1B)	CHARACTER	8	RESJJBID	JOB ID
35	(23)	CHARACTER	1	RESJSEP4	separator 4
36	(24)	CHARACTER	8	RESJGRPC	Constant GROUP
44	(2C)	CHARACTER	1	RESJSEP5	separator 5
45	(2D)	CHARACTER	8	RESJGRPN	Groupname
45	(2D)	X'35'	0	RESJLEN	"*-RESJSPL" Length of JESPOOL resource name
		The following mapping is used for the ISF DEST authority resource name.			
0	(0)	CHARACTER	63	RESISFNM(0)	ISFAUTH resource name
0	(0)	CHARACTER	8	RESIAUTH	Constant 'ISFAUTH'
8	(8)	CHARACTER	1	RESISEP1	separator 1
9	(9)	CHARACTER	4	RESIDEST	constant 'DEST'
13	(D)	CHARACTER	1	RESISEP2	separator 2
14	(E)	CHARACTER	1	RESIDSTN	Converted destination name
14	(E)	X'20'	0	RESISUBL	"*" Length without padding
32	(20)	CHARACTER	1	RESIPADN	padding
32	(20)	X'3F'	0	RESILEN	"*-RESISFNM" REQUIRED LENGTH OF NAME

Table 457. Structure RESNAM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following mapping is used for the JESJOBS job modify resource name : ENTITY.nodename.userid.jobname			
0	(0)	SIGNED	4	RESJMRNM(0)	JESJOBS JOB MODIFY RESOURCE NAME
0	(0)	CHARACTER	8	RESJMENT	Entity name
8	(8)	CHARACTER	1	RESJMSE1	separator
9	(9)	CHARACTER	8	RESJMNDE	Node name
17	(11)	CHARACTER	1	RESJMSE2	separator
18	(12)	CHARACTER	8	RESJMUID	user ID
26	(1A)	CHARACTER	1	RESJMSE3	separator
27	(1B)	CHARACTER	8	RESJMJBN	Job name
27	(1B)	X'23'	0	RESJMLEN	"*-RESJMRNM" Length of JESJOBS job modify resource name

Table 458. Cross Reference for $RESNAM

Name	Offset	Hex Tag
RESIAUTH	0	C9E2C6C1
RESIDEST	9	C4C5E2E3
RESIDSTN	E	40404040
RESILEN	20	3F
RESIPADN	20	40404040
RESISEP1	8	4B
RESISEP2	D	4B
RESISFNM	0	
RESISUBL	E	20
RESJGRPC	24	
RESJGRPN	2D	40404040
RESJJBID	1B	D1D6C2F1
RESJJBNM	12	40404040
RESJLEN	2D	35
RESJMENT	0	40404040
RESJMJBN	1B	40404040
RESJMLEN	1B	23
RESJMNDE	9	40404040
RESJMRNM	0	
RESJMSE1	8	4B
RESJMSE2	11	4B
RESJMSE3	1A	4B
RESJMUID	12	40404040
RESJNODE	0	40404040
RESJSEP1	8	4B
RESJSEP2	11	4B
RESJSEP3	1A	4B
RESJSEP4	23	4B
RESJSEP5	2C	4B
RESJSPL	0	

Table 458. Cross Reference for $RESNAM (continued)

Name	Offset	Hex Tag
RESJUSER	9	40404040
RESNAM	0	

$RESWORK information

$RESWORK heading information

Common name: JES2 Resource Manager PCE Work Area

Macro ID: $RESWORK

DSECT name: PCE ($RESWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol RESPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $RESMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Resource Manager Processor. $RESWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RESWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERESID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$RESWORK mapping

Table 459. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
		The following fields are used to hold information required to manage the issuance, deletion, and timing for the $HASP050 messages They are each pointed to by the table in the RESMGR processor. These fields do not have to be in the same order, and grouped, for each resource type. However, that format may prove useful eventually.			
328	(148)	ADDRESS	4	RESTBERT	HASP050 time offset - BERTs
332	(14C)	SIGNED	2	RESPBERT	HASP050 prct offset - BERTs
334	(14E)	SIGNED	2		Reserved
336	(150)	BITSTRING	8	RESOBERT	Info from last 050 msg
344	(158)	ADDRESS	4	RESDBERT	$HASP050 DOM id for BERTs
348	(15C)	ADDRESS	4	RESTCMBS	HASP050 ISSUED TIME AND
352	(160)	SIGNED	2	RESPCMBS	ISSUED THRESHOLD FOR CMBS
354	(162)	SIGNED	2		Reserved

Table 459. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
356	(164)	BITSTRING	8	RESOCMBS	Info from last 050 msg
364	(16C)	ADDRESS	4	RESDCMBS	$HASP050 DOM id for CMBS
368	(170)	ADDRESS	4	RESTLBUF	HASP050 ISSUED TIME AND
372	(174)	SIGNED	2	RESPLBUF	ISSUED THRESHOLD FOR LBUF
374	(176)	SIGNED	2		Reserved
376	(178)	BITSTRING	8	RESOLBUF	Info from last 050 msg
384	(180)	ADDRESS	4	RESDLBUF	$HASP050 DOM id for LBUF
388	(184)	ADDRESS	4	RESTBFX	HASP050 ISSUED TIME AND
392	(188)	SIGNED	2	RESPBFX	ISSUED THRESHOLD FOR CB
394	(18A)	SIGNED	2		Reserved
396	(18C)	BITSTRING	8	RESOBFX	Info from last 050 msg
404	(194)	ADDRESS	4	RESDBFX	$HASP050 DOM id for BFX
408	(198)	ADDRESS	4	RESTBSCB	HASP050 ISSUED TIME AND
412	(19C)	SIGNED	2	RESPBSCB	ISSUED THRESHOLD FOR BSC
414	(19E)	SIGNED	2		Reserved
416	(1A0)	BITSTRING	8	RESOBSCB	Info from last 050 msg
424	(1A8)	ADDRESS	4	RESDBSCB	$HASP050 DOM id for BSC
428	(1AC)	ADDRESS	4	RESTVTAM	HASP050 ISSUED TIME AND
432	(1B0)	SIGNED	2	RESPVTAM	ISSUED THRESHOLD FOR VTAM
434	(1B2)	SIGNED	2		Reserved
436	(1B4)	BITSTRING	8	RESOVTAM	Info from last 050 msg
444	(1BC)	ADDRESS	4	RESDVTAM	$HASP050 DOM id for VTAM
448	(1C0)	ADDRESS	4	RESTSMFB	HASP050 ISSUED TIME AND
452	(1C4)	SIGNED	2	RESPSMFB	ISSUED THRESHOLD FOR SMFB
454	(1C6)	SIGNED	2		Reserved
456	(1C8)	BITSTRING	8	RESOSMFB	Info from last 050 msg
464	(1D0)	ADDRESS	4	RESDSMFB	$HASP050 DOM id for SMFB
468	(1D4)	ADDRESS	4	RESTJQES	HASP050 ISSUED TIME AND
472	(1D8)	SIGNED	2	RESPJQES	ISSUED THRESHOLD FOR JQES
474	(1DA)	SIGNED	2		Reserved
476	(1DC)	BITSTRING	8	RESOJQES	Info from last 050 msg
484	(1E4)	ADDRESS	4	RESDJQES	$HASP050 DOM id for JQES
488	(1E8)	ADDRESS	4	RESTJOES	HASP050 ISSUED TIME AND
492	(1EC)	SIGNED	2	RESPJOES	ISSUED THRESHOLD FOR JOES
494	(1EE)	SIGNED	2		Reserved
496	(1F0)	BITSTRING	8	RESOJOES	Info from last 050 msg
504	(1F8)	ADDRESS	4	RESDJOES	$HASP050 DOM id for JOES
508	(1FC)	ADDRESS	4	RESTJNUM	HASP050 ISSUED TIME AND
512	(200)	SIGNED	2	RESPJNUM	ISSUED THRESHOLD FOR JNUM
514	(202)	SIGNED	2		Reserved
516	(204)	BITSTRING	8	RESOJNUM	Info from last 050 msg
524	(20C)	ADDRESS	4	RESDJNUM	$HASP050 DOM id for JNUM
528	(210)	ADDRESS	4	RESTTGS	HASP050 ISSUED TIME AND
532	(214)	SIGNED	2	RESPTGS	ISSUED THRESHOLD FOR TGS
534	(216)	SIGNED	2		Reserved

Table 459. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
536	(218)	BITSTRING	8	RESOTGS	Info from last 050 msg
544	(220)	ADDRESS	4	RESDTGS	$HASP050 DOM id for TGS
548	(224)	ADDRESS	4	RESTTTAB	HASP050 ISSUED TIME AND
552	(228)	SIGNED	2	RESPTTAB	ISSUED THRESHOLD FOR TTAB
554	(22A)	SIGNED	2		Reserved
556	(22C)	BITSTRING	8	RESOTTAB	Info from last 050 msg
564	(234)	ADDRESS	4	RESDTTAB	$HASP050 DOM id for TTAB
568	(238)	ADDRESS	4	RESTCKVR	HASP050 ISSUED TIME AND
572	(23C)	SIGNED	2	RESPCKVR	ISSUED THRESHOLD FOR CKVR
574	(23E)	SIGNED	2		Reserved
576	(240)	BITSTRING	8	RESOCKVR	Info from last 050 msg
584	(248)	ADDRESS	4	RESDCKVR	$HASP050 DOM id for CKVR
588	(24C)	ADDRESS	4	RESTNHBS	HASP050 ISSUED TIME AND
592	(250)	SIGNED	2	RESPNHBS	ISSUED THRESHOLD FOR NHBS
594	(252)	SIGNED	2		Reserved
596	(254)	BITSTRING	8	RESONHBS	Info from last 050 msg
604	(25C)	ADDRESS	4	RESDNHBS	$HASP050 DOM id for NHBS
608	(260)	ADDRESS	4	RESTICES	HASP050 ISSUED TIME AND
612	(264)	SIGNED	2	RESPICES	ISSUED THRESHOLD FOR ICES
614	(266)	SIGNED	2		Reserved
616	(268)	BITSTRING	8	RESOICES	Info from last 050 msg
624	(270)	ADDRESS	4	RESDICES	$HASP050 DOM id for ICES
628	(274)	ADDRESS	4	RESTCMDS	HASP050 ISSUED TIME AND
632	(278)	SIGNED	2	RESPCMDS	ISSUED THRESHOLD FOR CMDS
634	(27A)	SIGNED	2		Reserved
636	(27C)	BITSTRING	8	RESOCMDS	Info from last 050 msg
644	(284)	ADDRESS	4	RESDCMDS	$HASP050 DOM id for CMDS
648	(288)	ADDRESS	4	RESTZJC	HASP050 issued time and
652	(28C)	SIGNED	2	RESPZJC	issued threshold for ZJC
654	(28E)	SIGNED	2		Reserved
656	(290)	BITSTRING	8	RESOZJC	Info from last 050 msg
664	(298)	ADDRESS	4	RESDZJC	$HASP050 DOM id for ZJC
The following fields are for various other data area required by the RESMGR processor.					
668	(29C)	BITSTRING	1	RESMFLAG	RESOURCE MANAGER WORK FLAG
		1...		RESWANTQ	"B'10000000'" This processor needs the CKPT to process JESPLEX resources
669	(29D)	BITSTRING	1	RESBERTD	Dispers for HASP052
		1...		RESDUMMY	"B'10000000'" DISPER valid settings
See $FLAG4 for $BERT32 and $BERT16 definitions					
670	(29E)	BITSTRING	1		Reserved
671	(29F)	BITSTRING	1	RESTINT	Resource update interval
672	(2A0)	BITSTRING	12	RESTQE	TIMER QUEUE ELEMENT
684	(2AC)	SIGNED	4		RESERVED FOR FUTURE USE

Table 459. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Temporary FREE/INUSE/TOTAL counts that are computed at the start of RESMGR processing.			
688	(2B0)	SIGNED	4	RESTGFRE	Count of free track groups
692	(2B4)	SIGNED	4	RESJOFRE	Count of free JOEs
696	(2B8)	SIGNED	4	RESTTFRE	Count of free TTABs
700	(2BC)	SIGNED	4	RESTTNUM	Total number of TTABs
704	(2C0)	SIGNED	4	RESJNFRE	Count of free job #'s
708	(2C4)	SIGNED	4	RESJNNUM	Count of assignable job #'s
712	(2C8)	SIGNED	4	RESBRFRE	Count of free BERTs
716	(2CC)	SIGNED	4	RESBRCNT	Total number of BERTs
720	(2D0)	SIGNED	4	RESBABS	Absolute value used for critical BERT shortage M
724	(2D4)	SIGNED	4	RESJQFRE	Count of free JQEs
728	(2D8)	SIGNED	4	RESBDOM	HASP052 DOMID
732	(2DC)	SIGNED	4	RESBSTCK	STCK last HASP052
		Work fields for $HASP050 message			
736	(2E0)	DBL WORD	8	RESCTIME	Current time - filled in using $STCK
------- $BLDMSG MSGID=050,TYPE=WTO,SEPAR=NULL,MF=L					
744	(2E8)	SIGNED	4	RESBM050(0)	Control block ID
748	(2EC)	BITSTRING	4		Console ID
752	(2F0)	ADDRESS	4		Address of the CART
756	(2F4)	ADDRESS	4		Pointer for JOBID
760	(2F8)	ADDRESS	4		Control block address
764	(2FC)	ADDRESS	4		Display routine address
768	(300)	ADDRESS	4	(6)	6 word work area
792	(318)	ADDRESS	4		Caller's R11 value
796	(31C)	BITSTRING	2		ROUT code for Message
798	(31E)	BITSTRING	2		Not used
800	(320)	CHARACTER	4		Message ID
804	(324)	BITSTRING	1		Indicate SEPAR=NULL
805	(325)	ADDRESS	1		Flag byte 1
806	(326)	ADDRESS	1		'DISPER'
807	(327)	ADDRESS	1		Flag byte 2
808	(328)	ADDRESS	1		Flag byte 3
809	(329)	ADDRESS	1		Severity of message
810	(32A)	CHARACTER	8		Symbolic name of dest.
818	(332)	BITSTRING	14		Not used
832	(340)	ADDRESS	4	(0)	Ensure multiple of 4
832	(340)	ADDRESS	2	(0)	
832	(340)	SIGNED	4	RES50WRK(0)	
832	(340)	CHARACTER	4	RESTYPE	Resource name
836	(344)	SIGNED	2	RESPRCT	Total percent required

Table 459. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following fields are maintained in each resource table entry (RESPINFO)			
838	(346)	SIGNED	2	RESPRCTA	Percent actually in use
840	(348)	SIGNED	2	RESPRCTB	Percent waited for
842	(34A)	SIGNED	2	RESUNFRQ	Number of unfulfilled requests for resource
842	(34A)	X'346'	0	RESPRCTS	"RESPRCTA,*-RESPRCTA" Percents from last 050
844	(34C)	BITSTRING	1	RESRSFLG	Resource flags
		1...		RESRSHCM	"B'10000000'" HASP050 was to hardcopy
845	(34D)	BITSTRING	1		Reserved
845	(34D)	X'346'	0	RESPINFO	"RESPRCTA,*-RESPRCTA" Info from last HASP050 msg
846	(34E)	SIGNED	2		Reserved
848	(350)	SIGNED	4	RESNUM	NUMBER DEFINED
852	(354)	SIGNED	4	RESNUMRQ	NUMBER REQUIRED
856	(358)	SIGNED	4	RESNUMA	Number actually in use
860	(35C)	SIGNED	4	RESNUMB	Number waited for
864	(360)	SIGNED	4	RESNUMC	Largest unfulfilled request for resource
868	(364)	BITSTRING	1	RESDISPR	DISPER for $HASP050 message
		1...		RESSHORT	"X'80'" DISPER for short form
		.1..		RESLONG	"X'40'" DISPER for long form
869	(365)	BITSTRING	3		Reserved
869	(365)	X'28'	0	RES50LEN	"*-RES50WRK"
		General work areas --BLMSG $BLDMSG MF=L Non-050 BLDMSG MF=L			
872	(368)	SIGNED	4	RESBLMSG(0)	Control block ID
876	(36C)	BITSTRING	4		Console ID
880	(370)	ADDRESS	4		Address of the CART
884	(374)	ADDRESS	4		Pointer for JOBID
888	(378)	ADDRESS	4		Control block address
892	(37C)	ADDRESS	4		Display routine address
896	(380)	ADDRESS	4	(6)	6 word work area
920	(398)	ADDRESS	4		Caller's R11 value
924	(39C)	BITSTRING	2		ROUT code for Message
926	(39E)	BITSTRING	2		Not used
928	(3A0)	CHARACTER	4		Message ID
932	(3A4)	CHARACTER	1		Separator character
933	(3A5)	ADDRESS	1		Flag byte 1
934	(3A6)	ADDRESS	1		'DISPER'
935	(3A7)	ADDRESS	1		Flag byte 2
936	(3A8)	ADDRESS	1		Flag byte 3
937	(3A9)	ADDRESS	1		Severity of message
938	(3AA)	CHARACTER	8		Symbolic name of dest.
946	(3B2)	BITSTRING	14		Not used

Table 459. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
960	(3C0)	ADDRESS	4	(0)	Ensure multiple of 4
960	(3C0)	ADDRESS	2	(0)	
0	(0)	X'278'	0	RESPCEWL	"*-PCEWORK" LENGTH OF RESOURCE PCE WORK AREA

Table 460. Cross Reference for $RESWORK

Name	Offset	Hex Tag
PCE	0	
RESBABS	2D0	
RESBDOM	2D8	
RESBERTD	29D	
RESBLMSG	368	C2D3C440
RESBM050	2E8	C2D3C440
RESBRCNT	2CC	
RESBRFRE	2C8	
RESBSTCK	2DC	
RESCTIME	2E0	
RESDBERT	158	
RESDBFX	194	
RESDBSCB	1A8	
RESDCKVR	248	
RESDCMBS	16C	
RESDCMDS	284	
RESDICES	270	
RESDISPR	364	
RESDJNUM	20C	
RESDJOES	1F8	
RESDJQES	1E4	
RESDLBUF	180	
RESDNHBS	25C	
RESDSMFB	1D0	
RESDTGS	220	
RESDTTAB	234	
RESDUMMY	29D	80
RESDVTAM	1BC	
RESDZJC	298	
RESJNFRE	2C0	
RESJNNUM	2C4	
RESJOFRE	2B4	
RESJQFRE	2D4	
RESLONG	364	40
RESMFLAG	29C	
RESNUM	350	
RESNUMA	358	
RESNUMB	35C	
RESNUMC	360	

Table 460. Cross Reference for $RESWORK (continued)

Name	Offset	Hex Tag
RESNUMRQ	354	
RESOBERT	150	
RESOBFX	18C	
RESOBSCB	1A0	
RESOCKVR	240	
RESOCMBS	164	
RESOCMDS	27C	
RESOICES	268	
RESOJNUM	204	
RESOJOES	1F0	
RESOJQES	1DC	
RESOLBUF	178	
RESONHBS	254	
RESOSMFB	1C8	
RESOTGS	218	
RESOTTAB	22C	
RESOVTAM	1B4	
RESOZJC	290	
RESPBERT	14C	
RESPBFX	188	
RESPBSCB	19C	
RESPCEWL	0	278
RESPCKVR	23C	
RESPCMBS	160	
RESPCMDS	278	
RESPICES	264	
RESPINFO	34D	346
RESPJNUM	200	
RESPJOES	1EC	
RESPJQES	1D8	
RESPLBUF	174	
RESPNHBS	250	
RESPRCT	344	
RESPRCTA	346	
RESPRCTB	348	
RESPRCTS	34A	346
RESPSMFB	1C4	
RESPTGS	214	
RESPTTAB	228	
RESPVTAM	1B0	
RESPZJC	28C	
RESRSFLG	34C	
RESRSHCM	34C	80
RESSHORT	364	80
RESTBERT	148	
RESTBFX	184	

Table 460. Cross Reference for $RESWORK (continued)

Name	Offset	Hex Tag
RESTBSCB	198	
RESTCKVR	238	
RESTCMBS	15C	
RESTCMDS	274	
RESTGFRE	2B0	
RESTICES	260	
RESTINT	29F	
RESTJNUM	1FC	
RESTJOES	1E8	
RESTJQES	1D4	
RESTLBUF	170	
RESTNHBS	24C	
RESTQE	2A0	
RESTSMFB	1C0	
RESTTFRE	2B8	
RESTTGS	210	
RESTTNUM	2BC	
RESTTTAB	224	
RESTVTAM	1AC	
RESTYPE	340	
RESTZJC	288	
RESUNFRQ	34A	
RESWANTQ	29C	80
RES50LEN	365	28
RES50WRK	340	

$RJCB information

$RJCB heading information

Common name: Job Reader Card Buffer

Macro ID: $RJCB

DSECT name: RJCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'RJCB'
Offset: RJCBID-RJCB
Length: 4

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage can be anywhere in private storage of the JES2 address space.

Size: See RJCBLENG

Created by: HASPRDR Input Reader Processor (via $GETWORK)
HASPSRIP Input Service Routine (via $GETMAIN)

Pointed to by: JRWRJCB field of the $JRW data area
JRWRJCBN field of the $JRW data area
JRWRJCBF field of the $JRW data area
JRWRJCBM field of the $JRW data area
JRWRJCBD field of the $JRW data area
RJCBRJCB field of the $RJCB data area

Serialization: None required

Function: This macro provides the mapping for the buffer that is used to contain one card that makes up a JCL statement.

$RJCB mapping

Table 461. Structure RJCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RJCB	Reader JOB Card buffer
0	(0)	CHARACTER	4	RJCBID	Control Block identifier
4	(4)	BITSTRING	1	RJCBFLGT	Flag byte (not cleared)
		1...		RJCBTGTW	"B'10000000'" RJCB was $GETWORKed
4	(4)	X'5'	0	RJCBCSTR	"*" Start of where to clear data area on reuse
5	(5)	BITSTRING	1	RJCBFLG1	Flag byte
		1...		RJCB1GEN	"B'10000000'" Generated card image
		.1..		RJCB1XBM	"B'01000000'" Add card to XBM input DS
		..1.		RJCB1MSG	"B'00100000'" RJCBCARD contains a msg
		...1		RJCB1CMB	"B'00010000'" RJCBCARD contains a CMB
		.... 1...		RJCB1SCR	"B'00001000'" RJCBCARD contains an SCR
6	(6)	BITSTRING	1	RJCBFLG2	Flag byte
		1...		RJCB2XIT	"B'10000000'" Exit has seen card once
		.1..		RJCB2XMO	"B'01000000'" Exit modified card image
		..1.		RJCB2XA2	"B'00100000'" Exit 2 added card image
		...1		RJCB2XA4	"B'00010000'" Exit 4 added card image
6	(6)	X'30'	0	RJCB2XAD	"RJCB2XA2+RJCB2XA4" Some exit added card
		.... 1...		RJCB2LOP	"B'00001000'" Last operand is on card
		.... .1..		RJCB2QUO	"B'00000100'" Unfinished quote at end of card
		.... ..1.		RJCB2CCM	"B'00000010'" Card is a cont comment
		1		RJCB2LST	"B'00000001'" Last card in statement
6	(6)	X'F'	0	RJCB2CRD	"RJCB2LOP+RJCB2QUO+RJCB2CCM+RJCB2LST" Card type
7	(7)	BITSTRING	1	RJCBFLG3	Flag byte
		1...		RJCB3LOC	"B'10000000'" An exit modified or added card should not be sent to other nodes or offloaded
		.1..		RJCB31ST	"B'01000000'" First card in statement
8	(8)	ADDRESS	4	RJCBRJCB	Pointer to next RJCB

```
RJCBOCRD - is the card image prior to any changes
           made by an exit
RJCBCARD - is the card image with any exit changes
RJCBMSG - if RJCB1MSG is on, RJCBMSGL contains the
           message length and RJCBMSG contains the
           a message of the format:
             $MSG nnn,'text'
           text is assumed to begin with "-- "
RJCBCMB - if RJCB1CMB is on, RJCBCMB contains a
           CMB to be processed by JES2. If
           CMBFLAGC is on the CMB contains a JES2
           command, otherwise it contains a message
```

12	(C)	SIGNED	4	(0)	Align following
12	(C)	CHARACTER	80	RJCBOCRD	Original card image

Table 461. Structure RJCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
92	(5C)	CHARACTER	80	RJCBCARD	Card image
12	(C)	ADDRESS	2	RJCBMSGL	Message length
14	(E)	CHARACTER	120	RJCBMSG	Message ($MSGID nnn,'text')
RJCBMSGF and RJCBMSG2 must be contiguous					
134	(86)	BITSTRING	1	RJCBMSGF	Message flags
		1...		RJCBMFRJ	"B'10000000'" Send message to RJE
		.1..		RJCBMFNJ	"B'01000000'" Send message to NJE
		..1.		RJCBMFJC	"B'00100000'" Write message to JCLIN
		...1		RJCBMFEX	"B'00010000'" Extend local msg with source information
		.... 1...		RJCBMF1S	"B'00001000'" Add msg to front of queue
		.... .1..		RJCBMERR	"B'00000100'" Message is for an error
		.... ..1.		RJCBMWAR	"B'00000010'" Message is a warning
		1		RJCBMINF	"B'00000001'" Message is informational
135	(87)	BITSTRING	1	RJCBMSG2	More message flags
		1...		RJCB2DLY	"B'10000000'" Delay JCLIN put
		.1..		RJCB2DEF	"B'01000000'" Message is for an error and WTO will be delayed
12	(C)	BITSTRING	216	RJCBCMB	CMB for JES2 processing
12	(C)	BITSTRING	80	RJCBSCR	SCR to be written
92	(5C)	ADDRESS	4	RJCBPDDB	Address of related PDDB
96	(60)	SIGNED	2	RJCBSROF	Off in SCR for chain track
98	(62)	BITSTRING	1	RJCBSCRF	SCR flag bytes
		1...		RJCBSFTR	"B'10000000'" Trunc buffer after SCR
232	(E8)	DBL WORD	8	(0)	Alignment
232	(E8)	X'5'	0	RJCBCLR	"RJCBCSTR,*-RJCBCSTR" Area of RJCB to be cleared
232	(E8)	X'E8'	0	RJCBLENG	"*-RJCB" Length of RJCB in bytes
232	(E8)	X'3A'	0	RJCBWORD	"RJCBLENG/4" Length of RJCB in words

Table 462. Cross Reference for $RJCB

Name	Offset	Hex Tag
RJCB	0	
RJCBCARD	5C	
RJCBCLR	E8	5
RJCBCMB	C	
RJCBCSTR	4	5
RJCBFLGT	4	
RJCBFLG1	5	
RJCBFLG2	6	
RJCBFLG3	7	
RJCBID	0	
RJCBLENG	E8	E8
RJCBMERR	86	4

Table 462. Cross Reference for $RJCB (continued)

Name	Offset	Hex Tag
RJCBMFEX	86	10
RJCBMFJC	86	20
RJCBMFNJ	86	40
RJCBMFRJ	86	80
RJCBMF1S	86	8
RJCBMINF	86	1
RJCBMSG	E	
RJCBMSGF	86	
RJCBMSGL	C	
RJCBMSG2	87	
RJCBMWAR	86	2
RJCBOCRD	C	
RJCBPDDB	5C	
RJCBRJCB	8	
RJCBSCR	C	
RJCBSCRF	62	
RJCBSFTR	62	80
RJCBSROF	60	
RJCBTGTW	4	80
RJCBWORD	E8	3A
RJCB1CMB	5	10
RJCB1GEN	5	80
RJCB1MSG	5	20
RJCB1SCR	5	8
RJCB1XBM	5	40
RJCB2CCM	6	2
RJCB2CRD	6	F
RJCB2DEF	87	40
RJCB2DLY	87	80
RJCB2LOP	6	8
RJCB2LST	6	1
RJCB2QUO	6	4
RJCB2XAD	6	30
RJCB2XA2	6	20
RJCB2XA4	6	10
RJCB2XIT	6	80
RJCB2XMO	6	40
RJCB3LOC	7	80
RJCB31ST	7	40

$ROTT information

$ROTT heading information

Common name: ROTT

Macro ID: $ROTT

DSECT name: ROTT, ROTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: ROTT
Offset: ROTID
Length: L'ROTID

Storage attributes: Subpool: n/a
Key: 1
Residency: Virtual and real are in 64 bit storage

Size: This DSECT defines a number of tables. Each table has a fixed size header (length is ROTSIZE) and then the actual trace data. The size of each entry is dependant on the data area being traced. Each table is stored in a 1M 64 bit segment. The number of entries is based on what fits in 1M of storage.
Table Anchor Element size
---------- -------- ----------
JQEs TEDRJQE ROTJSIZE
JOEs TEDRJOE ROTJSIZE
Dispatcher TEDRDISP ROTDSIZE
SAPI TEDRSAPI ROTSSIZE
CKPT TEDRCKPT ROTCSIZE
QGET TEDRQGET ROTQSIZE

Created by: HASPIRDA

Pointed to by: TEDRJQE field of the TED (for the JQE table)
TEDRJOE field of the TED (for the JOE table)
TEDRDISP field of the TED (for the $WAIT table)
TEDRSAPI field of the TED (for the SAPI table)
TEDRCKPT field of the TED (for the CKPT table)
TEDRQGET field of the TED (for the QGET table)

Serialization: None - table is updated only by the main JES2 TCB.

Function: This DSECT maps the CTRACE rolling trace entries used by JES2. The following CTRACE SUBs exist in JES2:
JQE - JQE services ($Qxxxx services and $DOGBERT)
JOE - JOE services ($#xxxx services)
DISP - $WAIT, PCE dispatch and MVS WAIT services
SAPI - SAPI request processing
CKPT - CKPT R/W processing
QGET - QGET JQE processing
The intent of these traces is to provide a history of what happened in JES2 to the various control blocks to aid in debugging JES2 problems.

$ROTT mapping

Table 463. Structure ROTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ROTT	
		Table control			
0	(0)	CHARACTER	4	ROTID	Eye catcher
4	(4)	SIGNED	1	ROTVER	Version
4	(4)	X'1'	0	ROTCVER	"1" Current version
5	(5)	BITSTRING	1	ROTFLAG1	Flags
6	(6)	SIGNED	2	ROTELEN	Length of an element
8	(8)	ADDRESS	8	ROTFIRST	Addr of first element
16	(10)	ADDRESS	8	ROTLAST	Addr of last element
24	(18)	ADDRESS	8	ROTCURR	Addr of current element
32	(20)	DBL WORD	8	ROTELEM(0)	Element definition begins here
32	(20)	X'20'	0	ROTSIZE	"*-ROTT" Length of header portion

Table 464. Structure ROTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ROTE	, Map trace element
		Information common to all trace entries Goal: Make this information identical to the CTRACE element header			
0	(0)	SIGNED	2	ROTELENP	Length of trace element
2	(2)	SIGNED	2	ROTEOFF	Data offset
4	(4)	SIGNED	4	ROTEFMTI	Format ID key
8	(8)	BITSTRING	8	ROTETIME	TOD clock value
16	(10)	BITSTRING	1	ROTEDATA(0)	Variable data goes here
		JES2 component information common to all elements			
16	(10)	ADDRESS	4	ROTEPCE	PCE address
20	(14)	BITSTRING	1	ROTEFLG1	Flags
		1...		ROTE1ART	"B'10000000'" Artificial JQE
		.1..		ROTE1JOA	"B'01000000'" Artificial JOE
21	(15)	BITSTRING	1	ROTEEXIT	Current exit number
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	SIGNED	4	ROTEJNUM	Job number
28	(1C)	ADDRESS	4	ROTEOFFS	Offset of JQE/JOE
		Service IDs represent the service (e.g.$QMOD, $#REM) which caused the trace entry to be built.			
32	(20)	BITSTRING	1	ROTESERV	Service id
		....		ROTQSRV	"X'00'" First JQE service id
		....		ROTQADD	"X'00'" $QADD
		1		ROTQPUT	"X'01'" $QPUT
		.... ..1.		ROTQREM	"X'02'" $QREM
		11		ROTQMOD	"X'03'" $QMOD
		.... .1..		ROTQJIX	"X'04'" $QJIX (alloc new number)
		.... .1.1		ROTQJIXS	"X'05'" $QJIX (swap job numbers)
		.... .11.		ROTGETJL	"X'06'" $GETJLOK
		.... .111		ROTFREJL	"X'07'" $FREJLOK
		.... 1...		ROTQRBDC	"X'08'" $QRBDCHK (add to queue)
		.... 1..1		ROTQBUSY	"X'09'" $QBUSY
		.... 1.1.		ROTDOGJQ	"X'0A'" $DOGJQE
		...1		ROT#SRV	"X'10'" First JOE service id
		...1		ROT#ADD	"X'10'" $#ADD
		...1 ...1		ROT#PUT	"X'11'" $#PUT
		...1 ..1.		ROT#REM	"X'12'" $#REM
		...1 ..11		ROT#MOD	"X'13'" $#MOD
		...1 .1..		ROT#RBDC	"X'14'" $#RBDCHK (add to queue)
		...1 1..1		ROT#BUSY	"X'19'" $#BUSY
		...1 1.1.		ROT#GET	"X'1A'" $#GET
		...1 1.11		ROT#CAN	"X'1B'" $#CAN
		...1 11..		ROT#REP	"X'1C'" $#REP
		...1 11.1		ROTDOGJO	"X'1D'" $DOGJOE

Table 464. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		ROTDSRV	"X'20'" First $WAIT service id
		..1.		ROTWAIT	"X'20'" $WAIT
		..1. ...1		ROTDISP	"X'21'" Dispatch
		..1. ..1.		ROTMVSWA	"X'22'" MVS WAIT
32	(20)	X'24'	0	ROTWAIT2	"ROTWAIT+4" x'24' $WAIT with 2 caller info
32	(20)	X'25'	0	ROTDISP2	"ROTDISP+4" x'25' Dispatch with 2 callers
		..11		ROTSAPI	"X'30'" First SAPI service id
		..11 ...1		ROTPUTGT	"X'31'" PUT/GET request
		..11 ..1.		ROTCOUNT	"X'32'" Count request
		..11 ..11		ROTBULKM	"X'33'" Bulk Modify request
		.1..		ROTCKPT	"X'40'" First CKPT service id
		.1.. ...1		ROTREAD1	"X'41'" Read1 service
		.1.. ..1.		ROTREAD2	"X'42'" Read2 service
		.1.. ..11		ROTPRIMW	"X'43'" Primary write
		.1.. .1..		ROTNPRIM	"X'44'" Skipped primary write
		.1.. .1.1		ROTINTW	"X'45'" Intermediate write
		.1.. .11.		ROTFINW	"X'46'" Final write
		.1.. .111		ROTFMT	"X'47'" CKPT format
		.1.. 1...		ROTRECON	"X'48'" CKPT reconfig
		.1.1		ROTQGET	"X'50'" First QGET service id
		.1.1 ...1		ROTQDEV	"X'51'" Device queue request
		.1.1 ..1.		ROTQJINT	"X'52'" JES initiator request
		.1.1 ..11		ROTQWINT	"X'53'" WLM initiator request
		.1.1 .1..		ROTQPHAS	"X'54'" Job phase queue request
33	(21)	BITSTRING	1	ROTESRV2	Sub service number
34	(22)	BITSTRING	2		Reserved for future use
		JES2 component information common to JOE and JQEs			
36	(24)	SIGNED	4	ROTESPEC(0)	Start of 'specific' data
36	(24)	ADDRESS	4	ROTECALR	Caller of service
40	(28)	BITSTRING	1	ROTEOQUE	Original queue (or class)
41	(29)	BITSTRING	1	ROTENQUE	New queue (or class)
42	(2A)	BITSTRING	1	ROTEBUSY	Busy byte
43	(2B)	BITSTRING	1	ROTQLOCK	Lock (JQE only)
43	(2B)	X'2B'	0	ROT#TYPE	"ROTQLOCK,1,C'X'" Type (JOE only)
48	(30)	DBL WORD	8	ROTEND(0)	Ensure entry ends on double word boundary
46	(2E)	SIGNED	2	ROTELENE	Length of element
46	(2E)	X'30'	0	ROTEJSIZ	"*-ROTE" Size of one entry
		Field for a dispatcher trace entry Note ROTEEVNT is incremented by one to simplify IPCS code.			
36	(24)	BITSTRING	1	ROTEEVNT	Event byte
37	(25)	BITSTRING	1	ROTERESO	Resource byte

Table 464. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
38	(26)	BITSTRING	1	ROTEWFG1	$WAIT parm $WTFLAG1
39	(27)	BITSTRING	1		Reserved
40	(28)	CHARACTER	8	ROTECSCT	CSECT
48	(30)	CHARACTER	8	ROTESEQ	Sequence
56	(38)	CHARACTER	8	ROTE2CST	Secondary CSECT
64	(40)	CHARACTER	8	ROTE2SEQ	Secondary Sequence
72	(48)	BITSTRING	8	ROTEWTME	$WAIT time or Run time (In microseconds)
80	(50)	BITSTRING	8	ROTEWCPU	CPU Used ($WAIT Entry) (In microseconds)
80	(50)	BITSTRING	2	ROTEPSTR	$POST reason ($DISP entry) See PPBLPOST
104	(68)	DBL WORD	8	ROTEND2(0)	Ensure entry ends on double word boundary
102	(66)	SIGNED	2	ROTEDLEN	Length of element
102	(66)	X'68'	0	ROTEDSIZ	"*-ROTE" Size of one entry
	Field for a SAPI trace entry				
36	(24)	CHARACTER	17	ROTEDEVN	SAPI device name
53	(35)	BITSTRING	1	ROTESFL1	Entry flag byte
		1...		ROTES1JO	"B'10000000'" SAPID assigned a JOE
		.1..		ROTES1PU	"B'01000000'" JOE was returned
		..1.		ROTES1BS	"B'00100000'" TREGROUP was called
		...1		ROTES1CT	"B'00010000'" Control bit is on
		.... 1...		ROTES1DP	"B'00001000'" No duplicate set
54	(36)	BITSTRING	1	ROTESEL1	SSS2 select flag SSS2SEL1
55	(37)	BITSTRING	1	ROTESEL2	SSS2 select flag SSS2SEL2
56	(38)	BITSTRING	1	ROTESEL3	SSS2 select flag SSS2SEL3
57	(39)	BITSTRING	1	ROTESEL4	SSS2 select flag SSS2SEL4
58	(3A)	BITSTRING	1	ROTESEL5	SSS2 select flag SSS2SEL5
59	(3B)	BITSTRING	1	ROTESEL6	SSS2 select flag SSS2SEL6
60	(3C)	BITSTRING	1	ROTEUFLG	SSS2 disp flag SSS2UFLG
61	(3D)	BITSTRING	1	ROTESMSC	SSS2 misc flag SSS2MSC1
62	(3E)	BITSTRING	1	ROTESDSP	SSS2 disp flag SSS2DISP
63	(3F)	BITSTRING	1	ROTESSP2	SSS2 disp flag SSS2DSP2
64	(40)	BITSTRING	1	ROTESFG1	SAPID flag SAPFLAG1
65	(41)	BITSTRING	1	ROTESFG2	SAPID flag SAPFLAG2
66	(42)	BITSTRING	1	RPTESFGJ	SAPID flag SAPFLAGJ
67	(43)	BITSTRING	1	RPTESFJ2	SAPID flag SAPFLGJ2
68	(44)	SIGNED	4	ROTESAPD	SAPID address
72	(48)	DBL WORD	8	ROTESCPU	CPU time (microseconds)
80	(50)	DBL WORD	8	ROTESRUN	Run time (microseconds)
88	(58)	DBL WORD	8	ROTESQSU	QSUSE time (microseconds)
96	(60)	DBL WORD	8	ROTESELP	Elapsed time (microseconds)
104	(68)	DBL WORD	8	ROTESGET	$#GET CPU time (microsecs)
112	(70)	DBL WORD	8	ROTESRQT	$RQUE time (microseconds)
120	(78)	SIGNED	4	ROTESIOC	I/O count

Table 464. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	DBL WORD	8	ROTEND3(0)	Ensure entry ends on double word boundary
126	(7E)	SIGNED	2	ROTESLEN	Length of element
126	(7E)	X'80'	0	ROTESSIZ	"*-ROTE" Size of one entry
	Field for a CKPT trace entry				
36	(24)	CHARACTER	8	ROTECKPN	CKPT name
44	(2C)	BITSTRING	1	ROTECKFL	CKPT flags (CTWFLAG1)
45	(2D)	BITSTRING	3		Reserved
48	(30)	SIGNED	4	ROTECLEV	Level number of data set
52	(34)	SIGNED	4	ROTECKPC	Number of $CKPTs issued
56	(38)	SIGNED	4	ROTECKPO	$CKPTs optimization
60	(3C)	SIGNED	4	ROTECPAR	$QSUSE pain rate
64	(40)	SIGNED	4	ROTECPAV	$QSUSE pain value
68	(44)	SIGNED	4	ROTECOVH	CKPT access overhead (in microseconds)
72	(48)	SIGNED	4	ROTECPWT	Number of times PCE waited before starting write
76	(4C)	SIGNED	4	ROTECIOT	I/O time (microseconds)
80	(50)	SIGNED	4	ROTECMST	KMAINSB run time
84	(54)	SIGNED	4	ROTECMSC	KMAINSB CPU time
88	(58)	SIGNED	4	ROTEC4KP	4K Page count
92	(5C)	SIGNED	4	ROTECBCT	CB count
	Subtask statistics				
96	(60)	SIGNED	4	ROTECTIM	Wall clock to complete req
100	(64)	SIGNED	4	ROTECCPU	CPU time to complete req
104	(68)	SIGNED	4	ROTECIOC	I/O count for request
108	(6C)	SIGNED	4	ROTECCNT	CB count for request
	HOLD/DORMANCY information				
112	(70)	SIGNED	4	ROTEHOLD	Current HOLD value
116	(74)	SIGNED	4	ROTEDORM	Current MIN and
120	(78)	SIGNED	4	ROTEMAXD	MAX dormancy values
124	(7C)	SIGNED	4	ROTEAHLD	Actual hold time (FW)
128	(80)	SIGNED	4	ROTEADOR	Actual dormancy (R1)
	Reconfiguration data				
36	(24)	CHARACTER	8	ROTERMOD	$CKPTDIA calling module
44	(2C)	CHARACTER	8	ROTERSEQ	and sequence number
52	(34)	BITSTRING	1	ROTERACT	Action taken
53	(35)	BITSTRING	1	ROTERREA	Reason for call
136	(88)	DBL WORD	8	ROTEND4(0)	Ensure entry ends on double word boundary
134	(86)	SIGNED	2	ROTECLEN	Length of element
134	(86)	X'88'	0	ROTECSIZ	"*-ROTE" Size of one entry

Table 464. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Field for a QGET trace entry (all times in microseconds)			
36	(24)	CHARACTER	28	ROTEQSNM	Selection name
64	(40)	CHARACTER	8	ROTEQJBN	Selected job name
72	(48)	CHARACTER	1	ROTEQLST	Class list.
72	(48)	X'48'	0	ROTEQSRV	"ROTEQLST,8" Service class for WLM inits
136	(88)	SIGNED	4	ROTEQJNM	GTWJNUM JQEs processed
140	(8C)	SIGNED	4	ROTEQJQN	GTWQJQAN JQAs obtained
144	(90)	SIGNED	4	ROTEQSCR	GTWJSCR WSSERV calls made
148	(94)	SIGNED	4	ROTEQBST	GTWBEST JQE number selected
152	(98)	SIGNED	4	ROTEQDUP	GTWDUPCT JQEs skipped for duplicate
156	(9C)	SIGNED	4	ROTEQCAT	GTWCATCT JQEs skipped for CAT/WSCQ
160	(A0)	SIGNED	4	ROTEQMAX	GTWJQMAX JQEs defined
164	(A4)	SIGNED	4	ROTEQINU	JQEs in use
168	(A8)	SIGNED	4	ROTEQCB	QGTCB Related CB address
172	(AC)	BITSTRING	1	ROTEQFL1	GTWQFLG1 Entry flag byte
173	(AD)	BITSTRING	1	ROTEQWST	QGTWSTP Work selection type flag
174	(AE)	BITSTRING	1	ROTEQRSP	QGTFRESP QGET response byte
176	(B0)	DBL WORD	8	ROTEQCPU	GTWCPU CPU time in microseconds
184	(B8)	DBL WORD	8	ROTEQTIM	GTWTIME Run time in microseconds
192	(C0)	DBL WORD	8	ROTEQQSU	GTWQSUSE QSUSE time in microseconds
200	(C8)	DBL WORD	8	ROTEQELA	GTWELAPS Elapsed time microseconds
208	(D0)	SIGNED	4	ROTEQ4RC	GTWX14RC Exit 14 return code
216	(D8)	DBL WORD	8	ROTEQ4CP	GTWX14CP CPU time in microseconds
224	(E0)	DBL WORD	8	ROTEQ4TM	GTWX14TM Run time in microseconds
232	(E8)	DBL WORD	8	ROTEQ4QS	GTWX14QS QSUSE time in microseconds
240	(F0)	DBL WORD	8	ROTEQ4ET	GTWX14ET Elapsed time microseconds
248	(F8)	SIGNED	4	ROTEQ9SK	GTWX49SK # jobs vetoed by exit 49
252	(FC)	SIGNED	4	ROTEQ9CT	GTWX49CT # times exit 49 called
256	(100)	DBL WORD	8	ROTEQ9CP	GTWX49CP Cumulative CPU time
264	(108)	DBL WORD	8	ROTEQ9TM	GTWX49TM Cumulative run time
272	(110)	DBL WORD	8	ROTEQ9QS	GTWX49QS Cumulative QSUSE time
280	(118)	DBL WORD	8	ROTEQ9ET	GTWX49ET Cumulative elapsed time
288	(120)	SIGNED	4	ROTEQCLR	GTWCALER Address of QGET caller
292	(124)	SIGNED	4	ROTEQTRC	GTWQGTRC $QGET return code
304	(130)	DBL WORD	8	ROTEND5(0)	Ensure entry ends on double word boundary
302	(12E)	SIGNED	2	ROTEQLEN	Length of element
302	(12E)	X'130'	0	ROTEQSIZ	"*-ROTE" Size of one entry

Table 465. Cross Reference for $ROTT

Name	Offset	Hex Tag
ROT#ADD	20	10
ROT#BUSY	20	19
ROT#CAN	20	1B

Table 465. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROT#GET	20	1A
ROT#MOD	20	13
ROT#PUT	20	11
ROT#RBDC	20	14
ROT#REM	20	12
ROT#REP	20	1C
ROT#SRV	20	10
ROT#TYPE	2B	2B
ROTBULKM	20	33
ROTCKPT	20	40
ROTCOUNT	20	32
ROTCURR	18	
ROTCVER	4	1
ROTDISP	20	21
ROTDISP2	20	25
ROTDOGJO	20	1D
ROTDOGJQ	20	A
ROTDSRV	20	20
ROTE	0	
ROTEADOR	80	
ROTEAHLD	7C	
ROTEBUSY	2A	
ROTECALR	24	
ROTECBCT	5C	
ROTECCNT	6C	
ROTECCPU	64	
ROTECIOC	68	
ROTECIOT	4C	
ROTECKFL	2C	
ROTECKPC	34	
ROTECKPN	24	
ROTECKPO	38	
ROTECLEN	86	
ROTECLEV	30	
ROTECMSC	54	
ROTECMST	50	
ROTECOVH	44	
ROTECPAR	3C	
ROTECPAV	40	
ROTECPWT	48	
ROTECSCT	28	
ROTECSIZ	86	88
ROTECTIM	60	
ROTEC4KP	58	
ROTEDATA	10	
ROTEDEVN	24	

Table 465. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTEDLEN	66	
ROTEDORM	74	
ROTEDSIZ	66	68
ROTEEVNT	24	
ROTEEXIT	15	
ROTEFLG1	14	
ROTEFMTI	4	
ROTEHOLD	70	
ROTEJNUM	18	
ROTEJSIZ	2E	30
ROTELEM	20	
ROTELEN	6	
ROTELENE	2E	
ROTELENP	0	
ROTEMAXD	78	
ROTEND	30	
ROTEND2	68	
ROTEND3	80	
ROTEND4	88	
ROTEND5	130	
ROTENQUE	29	
ROTEOFF	2	
ROTEOFFS	1C	
ROTEOQUE	28	
ROTEPCE	10	
ROTEPSTR	50	
ROTEQBST	94	
ROTEQCAT	9C	
ROTEQCB	A8	
ROTEQCLR	120	
ROTEQCPU	B0	
ROTEQDUP	98	
ROTEQELA	C8	
ROTEQFL1	AC	
ROTEQINU	A4	
ROTEQJBN	40	
ROTEQJNM	88	
ROTEQJQN	8C	
ROTEQLEN	12E	
ROTEQLST	48	
ROTEQMAX	A0	
ROTEQQSU	C0	
ROTEQRSP	AE	
ROTEQSCR	90	
ROTEQSIZ	12E	130
ROTEQSNM	24	

Table 465. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTEQSRV	48	48
ROTEQTIM	B8	
ROTEQTRC	124	
ROTEQWST	AD	
ROTEQ4CP	D8	
ROTEQ4ET	F0	
ROTEQ4QS	E8	
ROTEQ4RC	D0	
ROTEQ4TM	E0	
ROTEQ9CP	100	
ROTEQ9CT	FC	
ROTEQ9ET	118	
ROTEQ9QS	110	
ROTEQ9SK	F8	
ROTEQ9TM	108	
ROTERACT	34	
ROTERESO	25	
ROTERMOD	24	
ROTERREA	35	
ROTERSEQ	2C	
ROTESAPD	44	
ROTESCPU	48	
ROTESDSP	3E	
ROTESELP	60	
ROTESEL1	36	
ROTESEL2	37	
ROTESEL3	38	
ROTESEL4	39	
ROTESEL5	3A	
ROTESEL6	3B	
ROTESEQ	30	
ROTESERV	20	
ROTESFG1	40	
ROTESFG2	41	
ROTESFL1	35	
ROTESGET	68	
ROTESIOC	78	
ROTESLEN	7E	
ROTESMSC	3D	
ROTESPEC	24	
ROTESQSU	58	
ROTESRQT	70	
ROTESRUN	50	
ROTESRV2	21	
ROTESSIZ	7E	80
ROTESSP2	3F	

Table 465. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTES1BS	35	20
ROTES1CT	35	10
ROTES1DP	35	8
ROTES1JO	35	80
ROTES1PU	35	40
ROTETIME	8	
ROTEUFLG	3C	
ROTEWCPU	50	
ROTEWFG1	26	
ROTEWTME	48	
ROTE1ART	14	80
ROTE1JOA	14	40
ROTE2CST	38	
ROTE2SEQ	40	
ROTFINW	20	46
ROTFIRST	8	
ROTFLAG1	5	
ROTFMT	20	47
ROTFREJL	20	7
ROTGETJL	20	6
ROTID	0	
ROTINTW	20	45
ROTLAST	10	
ROTMVSWA	20	22
ROTNPRIM	20	44
ROTPRIMW	20	43
ROTPUTGT	20	31
ROTQADD	20	0
ROTQBUSY	20	9
ROTQDEV	20	51
ROTQGET	20	50
ROTQJINT	20	52
ROTQJIX	20	4
ROTQJIXS	20	5
ROTQLOCK	2B	
ROTQMOD	20	3
ROTQPHAS	20	54
ROTQPUT	20	1
ROTQRBDC	20	8
ROTQREM	20	2
ROTQSRV	20	0
ROTQWINT	20	53
ROTREAD1	20	41
ROTREAD2	20	42
ROTRECON	20	48
ROTSAPI	20	30

Table 465. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTSIZE	20	20
ROTT	0	
ROTVER	4	
ROTWAIT	20	20
ROTWAIT2	20	24
RPTESFGJ	42	
RPTESFJ2	43	

$SAFINFO information

$SAFINFO programming interface information

$SAFINFO is a programming interface.

$SAFINFO heading information

Common name: HASP Security Information Block

Macro ID: $SAFINFO

DSECT name: SAFINFO

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SFI '
Offset: SFIEYE-SAFINFO
Length: 4

Storage attributes: Subpool: N/A
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See SFILEN

Created by: JOBVALM caller and
SYSOVFY caller

Pointed to by: Register one upon entry to the called routine

Serialization: None

Function: This is the parameter list to both the JOBVALM and SYSOVFY routines. Values in this DSECT will be used to construct the RACROUTE VERIFYX, AUTH, and TOKENBLD parameter lists.

$SAFINFO mapping

Table 466. Structure SAFINFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAFINFO	Security Information Parameter List
0	(0)	CHARACTER	4	SFIEYE	Control block ID
4	(4)	ADDRESS	1	SFILEVEL	Control block version
4	(4)	X'1'	0	SFIVRSN	"1" Control block version equate
5	(5)	BITSTRING	1	SFIFLAG1	SAFINFO Flag Byte 1
		1...		SFI1PASE	"B'10000000'" NJHGPASS is encrypted
		.1..		SFI1NPSE	"B'01000000'" NJHGNPAS is encrypted
		..1.		SFIRESV1	"B'00100000'" Reserved for IBM dvlmt use

Table 466. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SFI1XMIT	"B'00010000'" XMIT request
		.... 1...		SFI1XBM	"B'00001000'" This is an XBM joblet
		.... .1..		SFI1NORM	"B'00000100'" Get a token for the job
		.... ..1.		SFI1SREQ	"B'00000010'" Get a submitter for the job
		1		SFI1DFLT	"B'00000001'" Get an undefined user token
6	(6)	BITSTRING	1	SFIFLAG2	SAFINFO Flag Byte 2
		1...		SFI2STKN	"B'10000000'" Submitter token in SFITOKEN or returned in JCTTOKEN
		.1..		SFI2VTKN	"B'01000000'" SFITOKEN is a pre-verified token (used by SYSOVFY only)
		..1.		SFI2VXPS	"B'00100000'" JOB/OUTPUT passed VERIFYX. Used as input if SFI2VTKN set. Set on output if VX return code is 0 or 4 (used by SYSOVFY only)
7	(7)	BITSTRING	1	SFIFLAG3	SAFINFO FLAG BYTE 3
7	(7)	X'3'	0	SFI3JOB	"JQE3JOB" BATCH JOB (WHEN BITS ZERO)
7	(7)	X'1'	0	SFI3STC	"JQE3STC" FLAG FOR STC TYPE JOB
7	(7)	X'2'	0	SFI3TSU	"JQE3TSU" FLAG FOR TSU TYPE JOB
8	(8)	SIGNED	2	SFIRESCD	Error reason code for RC=4 or 8 only (else 0)
12	(C)	ADDRESS	4	SFIJCT	Address of Job Control Table
16	(10)	ADDRESS	4	SFITWA	Address Token Work Area for TOKENBLD
20	(14)	ADDRESS	4	SFIIOT	Address of job's primary alloc IOT
24	(18)	ADDRESS	4	SFITOKEN	Address of input token
28	(1C)	ADDRESS	4	SFIHTOKN	Address of header token
32	(20)	SIGNED	2	SFIHTLEN	Length of header token
34	(22)	BITSTRING	1	SFIHTFLG	Header token flags
		1...		SFIHTJOB	"B'10000000'" Header token is job token
35	(23)	BITSTRING	1		Reserved for future use
36	(24)	ADDRESS	4	SFIWAVE	Address of WAVE
40	(28)	CHARACTER	8	SFIPOE	Port Of Entry name
48	(30)	ADDRESS	4	SFITOKA	Submitter token (DCTTOKA)
52	(34)	BITSTRING	1	SFIDEVTP	Device type (DCTDEVTP)
53	(35)	BITSTRING	3		Reserved
The following fields are available/used by SYSOVFY only.					
56	(38)	ADDRESS	4	SFIPDDB	Address of PDDB for verify
60	(3C)	CHARACTER	8	SFIDSNM	DSNAME or jobname from DSH
SFICONTG maps a contiguous storage area. Caution should be exercised when placing fields within this area.					
60	(3C)	X'48'	0	SFICONTL	"SFICEND-SFICBEGN" Length of total contiguous area
60	(3C)	X'8'	0	SFIELEML	"8" Length of individual element
60	(3C)	X'44'	0	SFICBEGN	"*" Beginning of contiguous area
68	(44)	ADDRESS	1	SFIUIDL	USERID length + value

Table 466. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	X'45'	0	SFIUID	"SFIUIDL+1,SFIELEML,C'C'" USERID for this job
77	(4D)	ADDRESS	1	SFIGRPL	GROUP length + value
77	(4D)	X'4E'	0	SFIGRP	"SFIGRPL+1,SFIELEML,C'C'" GROUP for this job
86	(56)	ADDRESS	1	SFIPASL	PASSWORD length + value
86	(56)	X'57'	0	SFIPAS	"SFIPASL+1,SFIELEML,C'C'" PASSWORD for this job
95	(5F)	ADDRESS	1	SFINPASL	New PASSWORD len + value
95	(5F)	X'60'	0	SFINPAS	"SFINPASL+1,SFIELEML,C'C'" New PASSWORD for this job
104	(68)	ADDRESS	1	SFIXNDEL	Execution node len + val
104	(68)	X'69'	0	SFIXNDE	"SFIXNDEL+1,SFIELEML,C'C'" Execution node for this job
113	(71)	ADDRESS	1	SFISNDEL	Submittor node len + val
113	(71)	X'72'	0	SFISNDE	"SFISNDEL+1,SFIELEML,C'C'" Submittor node for this job
122	(7A)	ADDRESS	1	SFISUIDL	Submittor USERID len+val
122	(7A)	X'7B'	0	SFISUID	"SFISUIDL+1,SFIELEML,C'C'" Submittor USERID for this job
131	(83)	ADDRESS	1	SFISGRPL	Submittor GROUP len+val
131	(83)	X'84'	0	SFISGRP	"SFISGRPL+1,SFIELEML,C'C'" Submittor GROUP for this job
131	(83)	X'8C'	0	SFICEND	"*" End of contiguous area
140	(8C)	CHARACTER	8	SFISECL	Security label (blanks if none)
148	(94)	ADDRESS	4		RESERVED FOR FUTURE IBM USE
148	(94)	X'64'	0	SFIPHRLM	"100" Max length of pass phrase
152	(98)	ADDRESS	1	SFIPHRL	Pass phrase + length
152	(98)	X'99'	0	SFIPHR	"SFIPHRL+1,SFIPHRLM,C'C'" Pass phrase value
253	(FD)	ADDRESS	1	SFINPHRL	New pass phrase + len
253	(FD)	X'FE'	0	SFINPHR	"SFINPHRL+1,SFIPHRLM,C'C'" New pass phrase value
360	(168)	DBL WORD	8	(0)	End of SAFINFO
360	(168)	X'168'	0	SFILEN	"*-SAFINFO" Length of SAFINFO

Table 467. Cross Reference for $SAFINFO

Name	Offset	Hex Tag
SAFINFO	0	
SFICBEGN	3C	44
SFICEND	83	8C
SFICONTL	3C	48
SFIDEVTP	34	
SFIDSNM	3C	
SFIELEML	3C	8
SFIEYE	0	E2C6C940
SFIFLAG1	5	
SFIFLAG2	6	
SFIFLAG3	7	

Table 467. Cross Reference for $SAFINFO (continued)

Name	Offset	Hex Tag
SFIGRP	4D	4E
SFIGRPL	4D	
SFIHTFLG	22	
SFIHTJOB	22	80
SFIHTLEN	20	
SFIHTOKN	1C	
SFIIOT	14	
SFIJCT	C	
SFILEN	168	168
SFILEVEL	4	
SFINPAS	5F	60
SFINPASL	5F	
SFINPHR	FD	FE
SFINPHRL	FD	
SFIPAS	56	57
SFIPASL	56	
SFIPDDB	38	
SFIPHR	98	99
SFIPHRL	98	
SFIPHRLM	94	64
SFIPOE	28	
SFIRESCD	8	
SFIRESV1	5	20
SFISECL	8C	40404040
SFISGRP	83	84
SFISGRPL	83	
SFISNDE	71	72
SFISNDEL	71	
SFISUID	7A	7B
SFISUIDL	7A	
SFITOKA	30	
SFITOKEN	18	
SFITWA	10	
SFIUID	44	45
SFIUIDL	44	
SFIVRSN	4	1
SFIWAVE	24	
SFIXNDE	68	69
SFIXNDEL	68	
SFI1DFLT	5	1
SFI1NORM	5	4
SFI1NPSE	5	40
SFI1PASE	5	80
SFI1SREQ	5	2
SFI1XBM	5	8
SFI1XMIT	5	10

Table 467. Cross Reference for $SAFINFO (continued)

Name	Offset	Hex Tag
SFI2STKN	6	80
SFI2VTKN	6	40
SFI2VXPS	6	20
SFI3JOB	7	3
SFI3STC	7	1
SFI3TSU	7	2

$SAPID information

$SAPID heading information

Common name: Sysout API data area

Macro ID: $SAPID

DSECT name: SAPID and TJEV

Owning component: JES2 (SC1BH)

Eye-catcher ID: $SAP
Offset: SAPEYE-SAPID
Length: L'SAPEYE

Storage attributes: Subpool: n/a
Key: 1
Residency: In the jesxSAPI data space in cpool SAPID
In the JES2 64-bit private storage in cpool TJEV

Size: See SAPLEN
See TJELEN

Created by: HASCSAPI (SAPID)
HASPJOS (TJEV)

Pointed to by: SAPID - SSS2JEST field of the IAZSSS2 SSOB extension and by TJESAP
SAPID - SAPNEXT field of the SAPID
TJEV - SAPTJEVA field of the SAPID

Serialization: SAPID Compare and Swap
TJEV None (only used in JES2 address space)

Function: The SAPID contains the specifications of the SAPI user for the work desired. It also contains status information of the SAPI "thread".
The TJEV holds a vector of bits (one bit per potential JOE). The absense of a TJEV means that the thread has not excluded any JOE. The presense of a TJEV with the bit corresponding to a given work JOE non-zero means that the corresponding JOE is excluded for selection by the thread.

$SAPID mapping

Table 468. Structure SAPID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAPID	, SYSOUT API Data Area
0	(0)	CHARACTER	4	SAPEYE	Eye catcher
4	(4)	BITSTRING	1	SAPFLAG1	Flags (serialized via compare and swap)
		1...		SAP1RQUE	"B'10000000'" This SAPID managed by RQUE
		.1..		SAP1GAVE	"B'01000000'" The last time control was returned to this caller, work was given

Table 468. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SAP1WSPV	"B'00100000'" The SAPWSP has a WSP which has been constructed by $WSSCAN
		...1		SAP1TERM	"B'00010000'" Terminate this SAPID
		.... 1...		SAP1HOT	"B'00001000'" RQUE Post because of hot start
		.... .1..		SAP1PCE	"B'00000100'" Being processed by SPI PCE
		.... ..1.		SAP1JWEL	"B'00000010'" Non-Bulk Modify JWELs have been created
		1		SAP1BJWL	"B'00000001'" JWELs for Bulk Modify have been created
5	(5)	BITSTRING	1	SAPFLAGJ	Flags representing JOE state
		1...		SAPJCOMP	"B'10000000'" JOE has been completely processed
		.1..		SAPJSAF	"B'01000000'" JOE access rejected by SAF
		..1.		SAPJALLO	"B'00100000'" JOE is allocated (to us)
		...1		SAPJFINI	"B'00010000'" JOE is no longer suitable
		.... 1...		SAPJCTRL	"B'00001000'" Do not give new JOE
		.... ..1.		SAPJASH	"B'00000010'" Put JOE in address space hold (do not give to this AS again)
		1		SAPJBUST	"B'00000001'" At least one PDDB has been busted out of this JOE
6	(6)	BITSTRING	1	SAPFLGJ2	More flags for JOE state
		1...		SAPJ2TH	"B'10000000'" Thread hold this data set
		.1..		SAPJ2OLD	"B'01000000'" JOE is no longer valid
		..1.		SAPJ2SFP	"B'00100000'" Started with first PDDB in JOE
		.... 1...		SAPJ2SON	"B'00001000'" Last data set obtained with SAF READ access
		.... .1..		SAPJ2PRI	"B'00000100'" One or more data sets prio set via CSPDISP
		.... ..1.		SAPJ2CKV	"B'00000010'" SAPI has written CHK - CHK valid should be set
		1		SAPJ2CKE	"B'00000001'" I/O error while R/W CHK spool record
7	(7)	SIGNED	1	SAPMSTRV	Level of checkpoint in use when SAIFETCH populated ($MSTRVER is saved here)
8	(8)	BITSTRING	1	SAPCKEY	SSI caller's key
9	(9)	BITSTRING	3		Reserved for future use
		SAPSSS2 is an exact duplicate of the caller's SSOB extension. To gain addressability, specify: USING SSS2,SAPSSS2			
12	(C)	ADDRESS	4	SAPNEXT	SAP.Addr of next SAPID in data space SERIALIZATION: Compare and Swap
16	(10)	BITSTRING	1	SAPSSS2	Shadow of caller's SSOB extension
16	(10)	X'38'	0	SAPECBP	"SAPSSS2+SSS2ECBP-SSS2,L'SSS2ECBP,C'A'"
1176	(498)	BITSTRING	4	SAPROUTE	<----+ Selection route code in form nnrr

Table 468. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1180	(49C)	CHARACTER	8	SAPUSER	<----+ and userid
1188	(4A4)	SIGNED	4	SAPJNOLO	Low job number for selection
1192	(4A8)	SIGNED	4	SAPJNOHI	High job number for selection
1196	(4AC)	CHARACTER	8	SAPJCHLO	Low char version of job id
1204	(4B4)	CHARACTER	8	SAPJCHHI	High char version of job id
1212	(4BC)	BITSTRING	4	SAPROUTN	New route code for group requests
1216	(4C0)	CHARACTER	8	SAPUSERN	New userid for group requests
1224	(4C8)	SIGNED	4	SAPRETN	SSOBRETN equivalent
1228	(4CC)	BITSTRING	8	SAPPRIV	Copied to the SSS2
1236	(4D4)	ADDRESS	4	SAPASCB	COM.ASCB address of SAPI address space
1240	(4D8)	BITSTRING	8	SAPASCBT	Address space token
1240	(4D8)	X'4D8'	0	SAPWRASI	"SAPASCBT,L'SAPASCBT" Address space level JWEL
1248	(4E0)	ADDRESS	4	SAPTCB	UAS.TCB address of last SAPID user
1252	(4E4)	ADDRESS	4	SAPOTCB	UAS.Owning TCB address (TCB which created the SAPID)
1256	(4E8)	BITSTRING	16	SAPXMTOK	UAS.TCB token of TMP or job step TCB
1272	(4F8)	ADDRESS	4	SAPIOT	UAS.Address of current IOT
1276	(4FC)	ADDRESS	4	SAPIOTPA	UAS.Address of previous IOT
1280	(500)	ADDRESS	4	SAPJCT	UAS.Address of current JCT
1284	(504)	ADDRESS	4	SAPCHK	UAS.Address of current CHK
1288	(508)	ADDRESS	4	SAPWAVE	UAS.Address of WAVE
1292	(50C)	ADDRESS	4	SAPBTOK	UAS.Address of SPOOL browse token
1296	(510)	ADDRESS	4	SAPACCT	UAS.Addr of accounting information
1300	(514)	ADDRESS	4	SAPDTKN	UAS.Addr of Data set token
1304	(518)	ADDRESS	4	SAPNJH	UAS.Addr of NJE job header
1308	(51C)	ADDRESS	4	SAPNDH	UAS.Addr of NJE data set header
1312	(520)	ADDRESS	4	SAPSWB	UAS.Addr of SWBTU buffer
1316	(524)	ADDRESS	4	SAPJOA	UAS.Addr of JOA
1320	(528)	ADDRESS	8	SAPTJEVA	TJE.Addr of JOE exclusion vector for this thread
1328	(530)	BITSTRING	8	SAPSWBTK	SJF token for non-SWA SWBs
1336	(538)	BITSTRING	6	SAPANCHR	MQTR of first regular IOT
1342	(53E)	BITSTRING	6	SAPIOTW	MQTR of IOT waiting in the "wings"
1348	(544)	BITSTRING	6	SAPIOTC	MQTR of current IOT
1354	(54A)	BITSTRING	6	SAPIOTF	MQTR of first IOT for JOE
1360	(550)	BITSTRING	6		Reserved for future use
1366	(556)	SIGNED	2	SAPPDDBW	Offset of PDDB waiting in the "wings" (See routine CSPNPDDB in HASCSAPI)
1368	(558)	SIGNED	2	SAPPDDBO	Offset of current PDDB
1370	(55A)	SIGNED	2	SAPPDDBF	Offset of first PDDB
1372	(55C)	SIGNED	4		Reserved for future use
1376	(560)	ADDRESS	4	SAPSJB	COM.Address of SJB
1380	(564)	ADDRESS	4	SAPSDB	COM.Address of SDB
1384	(568)	ADDRESS	4	SAPMTRB	COM.Address of MTRB representing this request
1388	(56C)	SIGNED	4	SAPWKOFF	Offset of work JOE into JOT

Table 468. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1392	(570)	SIGNED	4	SAPWJTOF	Offset of work JOE matching the SYSOUT token
		PDDB work areas below have standard JES2 prefix (see $CSBPRFX in $HASPEQU). Work area address point to a start of PDDB in a work area. Work areas are allocated in the private storage of the address space which initiated SAPI session and therefore is not easily accessible outside of that address space.			
1396	(574)	ADDRESS	4	SAPPDDB	Copy of currently allocated PDDB
1400	(578)	SIGNED	4	SAPPDDBM	Max size of PDDB which will fit in SAPPDDB
1404	(57C)	ADDRESS	4	SAPPDDB2	Copy of PDDB after the current PDDB (if any)
1408	(580)	SIGNED	4	SAPPDB2M	Max size of PDDB which will fit in SAPPDDB2
1412	(584)	SIGNED	4	SAPRJOEO	Offset of $TREGROUP JOE
1416	(588)	SIGNED	4	(4)	Reserved for future use
1432	(598)	BITSTRING	180	SAPWKJOA	Copy of WORK/CHAR JOA (never modified)
1612	(64C)	BITSTRING	1	SAPJQEAR	Copy of JQE (no SPOOLs mask)
1612	(64C)	X'65C'	0	SAPJBKEY	"SAPJQEAR+JQEJBKEY-JQE,L'JQEJBKEY" Job key
1708	(6AC)	BITSTRING	180	SAPWWJOA	Working WORK/CHAR JOA Updated at PUT-GET TIME in the user ADDRESS SPACE
1888	(760)	BITSTRING	180	SAP2WJOA	2nd Working WORK/CHAR JOA updated at unallocation TIME IN the user address space
2068	(814)	BITSTRING	80	SAPCTKN	Copy of client or JOE token
2148	(864)	BITSTRING	576	SAPWSP	Copy of WSP used for $#GET
2724	(AA4)	BITSTRING	228	SAPWS	EBCDIC WS list
2952	(B88)	DBL WORD	8	(0)	
2952	(B88)	SIGNED	2	SAP#SKIP	Number of PDDBs skipped for SAF reasons
2954	(B8A)	SIGNED	2	SAP#PDDB	Number of PDDBs processed within the current JOE. Meaningless IF SAPJCOMP is on.
2956	(B8C)	SIGNED	2	SAPCLFT	Number of copies left for the last PDDB in this grp
2958	(B8E)	SIGNED	2	SAPONODE	Origin node for selection
2960	(B90)	BITSTRING	8	SAPRBA	RBA for last PDDB in group (SAP2CHKP must be set)
2968	(B98)	ADDRESS	1	SAPTYPE	Application call type
2969	(B99)	CHARACTER	8	SAPAPPL	Application thread name
2977	(BA1)	CHARACTER	8	SAPJNAME	Job name of the application
2985	(BA9)	CHARACTER	8	SAPJOBID	Application jobid
2993	(BB1)	CHARACTER	8	SAPCHKEY	Application CSCB CHKEY
3001	(BB9)	BITSTRING	3		Reserved for future use
3004	(BBC)	SIGNED	4	SAPWRNUM	Unique number identifying this SAPID. Used in JWEL tables. High order bit always on to differentiate from DCT addresses
3008	(BC0)	BITSTRING	1	SAPFLAG2	Miscellaneous flags
		1...		SAP2UNAV	"B'10000000'" Data set not available

Table 468. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SAP2COPY	"B'01000000'" User's SSS2 copied to SAPID
		..1.		SAP2NPRO	"B'00100000'" PDDB at offset SAPPDDBO not yet given to caller but been SAF verified ==> SAPPDDB2 validated
		...1		SAP2END	"B'00010000'" No more PDDBs this JOE
		.... 1...		SAP2NEW	"B'00001000'" The JOE associated with this SAPID has changed (either there is a new JOE or there is no JOE)
		.... .1..		SAP2NEWS	"B'00000100'" This is NEWS PDDB
		.... ..1.		SAP2CHKP	"B'00000010'" SAPRBA is valid
		1		SAP2NCKU	"B'00000001'" Do not update CHK
3009	(BC1)	CHARACTER	1	SAPMCLAS	Message class of job
3010	(BC2)	BITSTRING	1	SAPFLAG3	More miscellaneous flags information
		1...		SAP3VTOK	"B'10000000'" D S obtained via token
		.1..		SAP3DNFJ	"B'01000000'" Do not find new JOE
		..1.		SAP3GENC	"B'00100000'" Low job id has a generic
		...1		SAP3GEN1	"B'00010000'" Low job id has generic '*' as the first char
		.... 1...		SAP3SYSH	"B'00001000'" Put JOE in system hold
		.... .1..		SAP3IOEH	"B'00000100'" Put JOE in system hold because of I/O error
		.... ..1.		SAP3TMP	"B'00000010'" XMPOST for TMP envir, SAPXMTOK is TMP token
		1		SAP3AUTH	"B'00000001'" XMPOSTee is authorized
3011	(BC3)	SIGNED	1	SAPREAS	Reason code for SSS2EODS
3012	(BC4)	BITSTRING	4		Reserved for future use
3016	(BC8)	DBL WORD	8	SAPSTCK	STCK when application last made an SSI call
3024	(BD0)	DBL WORD	8	SAPSTCKP	STCK time when SAPI PCE is done with this SAPID
3032	(BD8)	CHARACTER	64	SAPCJCOR	Job correlator from caller work selection criteria
3096	(C18)	CHARACTER	64	SAPJCOR	Job correlator of selected job
3160	(C58)	DBL WORD	8	(0)	Double word aligned
3160	(C58)	X'C58'	0	SAPLEN	"*-SAPID" Length of SAPID dsect

Table 469. Structure TJEV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TJEV	
0	(0)	CHARACTER	4	TJEEYE	Eye catcher
4	(4)	ADDRESS	4	TJESAP	SAP.Address of corresponding SAPID
8	(8)	BITSTRING	1	TJEJOES(0)	Exclusion indicators
312512	(4C4C0)	DBL WORD	8	(0)	Double word aligned
312512	(4C4C0)	X'4C4C0'	0	TJELEN	"*-TJEV" Length of TJEV

Table 470. Cross Reference for $SAPID

Name	Offset	Hex Tag
SAP#PDDB	B8A	

Table 470. Cross Reference for $SAPID (continued)

Name	Offset	Hex Tag
SAP#SKIP	B88	
SAPACCT	510	
SAPANCHR	538	
SAPAPPL	B99	
SAPASCB	4D4	
SAPASCBT	4D8	
SAPBTOK	50C	
SAPCHK	504	
SAPCHKEY	BB1	
SAPCJCOR	BD8	
SAPCKEY	8	
SAPCLFT	B8C	
SAPCTKN	814	
SAPDTKN	514	
SAPECBP	10	38
SAPEYE	0	5BE2C1D7
SAPFLAGJ	5	
SAPFLAG1	4	
SAPFLAG2	BC0	
SAPFLAG3	BC2	
SAPFLGJ2	6	
SAPID	0	
SAPIOT	4F8	
SAPIOTC	544	
SAPIOTF	54A	
SAPIOTPA	4FC	
SAPIOTW	53E	
SAPJALLO	5	20
SAPJASH	5	2
SAPJBKEY	64C	65C
SAPJBUST	5	1
SAPJCHHI	4B4	
SAPJCHLO	4AC	
SAPJCOMP	5	80
SAPJCOR	C18	
SAPJCT	500	
SAPJCTRL	5	8
SAPJFINI	5	10
SAPJNAME	BA1	
SAPJNOHI	4A8	
SAPJNOLO	4A4	
SAPJOA	524	
SAPJOBID	BA9	
SAPJQEAR	64C	
SAPJSAF	5	40
SAPJ2CKE	6	1

Table 470. Cross Reference for $SAPID (continued)

Name	Offset	Hex Tag
SAPJ2CKV	6	2
SAPJ2OLD	6	40
SAPJ2PRI	6	4
SAPJ2SFP	6	20
SAPJ2SON	6	8
SAPJ2TH	6	80
SAPLEN	C58	C58
SAPMCLAS	BC1	
SAPMSTRV	7	
SAPMTRB	568	
SAPNDH	51C	
SAPNEXT	C	
SAPNJH	518	
SAPONODE	B8E	
SAPOTCB	4E4	
SAPPDB2M	580	
SAPPDDB	574	
SAPPDDBF	55A	
SAPPDDBM	578	
SAPPDDBO	558	
SAPPDDBW	556	
SAPPDDB2	57C	
SAPPRIV	4CC	
SAPRBA	B90	
SAPREAS	BC3	
SAPRETN	4C8	
SAPRJOEO	584	
SAPROUTE	498	
SAPROUTN	4BC	
SAPSDB	564	
SAPSJB	560	
SAPSSS2	10	
SAPSTCK	BC8	
SAPSTCKP	BD0	
SAPSWB	520	
SAPSWBTK	530	
SAPTCB	4E0	
SAPTJEVA	528	
SAPTYPE	B98	
SAPUSER	49C	
SAPUSERN	4C0	
SAPWAVE	508	
SAPWJTOF	570	
SAPWKJOA	598	
SAPWKOFF	56C	
SAPWRASI	4D8	4D8

Table 470. Cross Reference for $SAPID (continued)

Name	Offset	Hex Tag
SAPWRNUM	BBC	
SAPWS	AA4	
SAPWSP	864	
SAPWWJOA	6AC	
SAPXMTOK	4E8	
SAP1BJWL	4	1
SAP1GAVE	4	40
SAP1HOT	4	8
SAP1JWEL	4	2
SAP1PCE	4	4
SAP1RQUE	4	80
SAP1TERM	4	10
SAP1WSPV	4	20
SAP2CHKP	BC0	2
SAP2COPY	BC0	40
SAP2END	BC0	10
SAP2NCKU	BC0	1
SAP2NEW	BC0	8
SAP2NEWS	BC0	4
SAP2NPRO	BC0	20
SAP2UNAV	BC0	80
SAP2WJOA	760	
SAP3AUTH	BC2	1
SAP3DNFJ	BC2	40
SAP3GENC	BC2	20
SAP3GEN1	BC2	10
SAP3IOEH	BC2	4
SAP3SYSH	BC2	8
SAP3TMP	BC2	2
SAP3VTOK	BC2	80
TJEEYE	0	E3D1C5E5
TJEJOES	8	
TJELEN	4C4C0	4C4C0
TJESAP	4	
TJEV	0	

$SBWA information

$SBWA heading information

Common name: Hasp Spool Browse Work Area

Macro ID: $SBWA

DSECT name: SBWA

Owning component: JES2 (SC1BH)

Eye-catcher ID: SBWA
Offset: SBWAID-SBWA
Length: 4

Storage attributes:	Subpool: 231 Key: 0 Residency: Virtual - Anywhere Real - Anywhere
Size:	See SBWASIZE
Created by:	SVCSRB (HASCHAM)
Pointed to by:	SRBPARM field of the SRB data area
Serialization:	None required
Function:	The $SBWA data area provides the mapping DSECT for the data areas used for passing the "unwritten buffer" from a job's address space to CSA so HASCHAM can pass records to the user.

$SBWA mapping

Table 471. Structure SBWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SBWA	SPOOL BROWSE WORK AREA
0	(0)	CHARACTER	4	SBWAID	$SBWA IDENTIFIER
4	(4)	ADDRESS	4	SBWAHCCT	Address of the HCCT
8	(8)	SIGNED	4	SBWAMTTR	TRACK ADDRESS OF BUFFER
12	(C)	ADDRESS	4	SBWAFSDB	FIRST SDB OF JOB W/ BUFFER
16	(10)	DBL WORD	8	SBWAKEY(0)	UNIQUE KEY FOR BUFFER
16	(10)	SIGNED	4	SBWAJKEY	JOB KEY FOR BUFFER
20	(14)	SIGNED	4	SBWADKEY	DATA SET KEY FOR BUFFER
24	(18)	CHARACTER	4	SBWAMEMB	Owning member name
28	(1C)	ADDRESS	4	SBWAHSXB	Target HASXB address
32	(20)	BITSTRING	8	SBWASTKN	Target address space token
40	(28)	BITSTRING	1	SBWAQNUM	PBF Queue counter
42	(2A)	SIGNED	2	SBWASID	Target ASID
44	(2C)	BITSTRING	1	SBWAMEMN	Owning member number
46	(2E)	SIGNED	2	SBWAWKAL	LENGTH OF WORK AREA
48	(30)	SIGNED	2	SBWABFSZ	LENGTH OF IO BUFFER
50	(32)	BITSTRING	1	SBWAFLG1	UBSR flags
		1...		SBWAISDB	"B'10000000'" Invalid SDB
		.1..		SBWAFSD	"B'01000000'" SDB found
		..1.		SBWAIBFD	"B'00100000'" Invalid BFD
		...1		SBWAFBFD	"B'00010000'" BFD found
51	(33)	BITSTRING	1	SBWAFLG2	Data set information
		1...		SBWA2SPB	"B'10000000'" Spool browse
		.1..		SBWA2JLG	"B'01000000'" Job log data set
		..1.		SBWA2ARQ	"B'00100000'" ASINFO requested
		...1		SBWA2ART	"B'00010000'" ASINFO returned
52	(34)	BITSTRING	2		Reserved for alignment
56	(38)	ADDRESS	4	SBWALOC	BFDLOC for copied buffer
60	(3C)	ADDRESS	4	SBWASCDR	SDBSCDR for copied buffer
		Information on Executing Step This information is returned with the unwritten buffer when the data set being read is EVENTLOG.			
64	(40)	BITSTRING	1	SBWAASIN	ASINFO (IAZLGSTP mapped)

Table 471. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Parameter list for SJB ENQ					
276	(114)	CHARACTER	12	SBWAMINN	SJB ENQ minor name
MACRO-DATE = 03/16/15					
288	(120)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
288	(120)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
292	(124)	ADDRESS	4		PREFIX - ECB ADDRESS
292	(124)	X'128'	0	SBWAENQ	"*" X02113
296	(128)	ADDRESS	1		PELLAST flag byte. X02113
297	(129)	ADDRESS	1		PELMILEN - RNAME length.
298	(12A)	BITSTRING	1		
PELFLAG - flag byte 2.					
299	(12B)	ADDRESS	1		PELRET - return code byte.
300	(12C)	ADDRESS	4		QNAME ADDRESS
304	(130)	ADDRESS	4		RNAME ADDRESS
304	(130)	X'C'	0	SBWAENQL	"*-SBWAENQ"
308	(134)	BITSTRING	8	SBWAWORK	Work area
ERROR EQUATE VALUES FROM UBSRB AND SVCSRB. When adding a new return code, there are two branch tables which need to be updated: 1. HASCHAM: near label PRSRCBT 2. HASCSISC: near label SIOSRBOK					
316	(13C)	SIGNED	4	SBWARETC	RETURN CODE FROM SRB
316	(13C)	X'0'	0	SBWAOK	"0" PROCESSING SUCCESSFUL
316	(13C)	X'4'	0	SBWABFNF	"4" BUFFER NOT FOUND
316	(13C)	X'8'	0	SBWAINBF	"8" INVALID BUFFER
316	(13C)	X'C'	0	SBWASDNF	"12" SDB NOT FOUND
316	(13C)	X'10'	0	SBWAINSD	"16" INVALID SDB
316	(13C)	X'14'	0	SBWASRBF	"20" SRB FAILURE
316	(13C)	X'18'	0	SBWANBWA	"24" No storage for SBWA
316	(13C)	X'1C'	0	SBWANES1	"28" ESTAE1 not established
316	(13C)	X'20'	0	SBWASJNF	"32" SJB not found
316	(13C)	X'24'	0	SBWAINHB	"36" Invalid HASB
316	(13C)	X'28'	0	SBWAINSJ	"40" Invalid SJB
316	(13C)	X'2C'	0	SBWAPRNF	"44" Point record not found
316	(13C)	X'30'	0	SBWANDAT	"48" Dataset never written to
316	(13C)	X'30'	0	SBWAMXRC	"SBWANDAT" Largest valid return code

Table 471. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
Return status information from IEAMSCHD
Values returned in SBWASCCC:
   0 Successful Completion
   8 SRB ABENDed and there is an associated
             reason code.
   12 SRB ABENDed and there is no associated
             reason code.
   16 SRB Purged by PurgeDQ Processing.
   20 Undetermined. The SRB did not
             complete, but was dispatched --
             MEMTERM and/or DATERR probable cause.
   24 SRB was not scheduled, Return Code is
             in SBWASCRC.
   28 SRB was not scheduled, ABEND Code is
             in SBWASCRC.
   32 SRB was scheduled, however the
             caller's workunit was ABENDed while
             suspended waiting for the SYNCH(YES)
             SRB to complete.
             (' <- needed to make PLX compile work)
Meaning of SBWASCRC based on SBWASCCC values:
 SBWASCCC SBWASCRC value
   0 Register 15 when SRB completed.
   8 ABEND Code (Same format as
             SDWAABCC.)
   12 ABEND Code (Same format as
             SDWAABCC.)
   16 -1
   20 -1
   24 Return Code propagated from the
             SUSPEND service. The SRB was not
             scheduled because this workunit
             could not be successfully suspended.
   28 ABEND Code propagated from the
             SUSPEND service. The SRB was not
             scheduled because this workunit
             could not be successfully suspended.
   32 ABEND Code that the workunit
             received when it was awaken from the
             Suspend.
Meaning of SBWASCRS based on SBWASCCC values:
 SBWASCCC SBWASCRS value
   0 Register 0 when SRB completed.
   8 Reason Code associated with an ABEND
             Code.
   12 -1
   16 -1
   20 -1
   24 -1
   28 Reason Code associated with a ABEND
             code from the attempting to suspend
             the current workunit.
   32 Reason Code associated with the
             ABEND Code that the workunit
             received when it was awaken from the
             Suspend.
```

320	(140)	ADDRESS	4	SBWASCC@	SRB Completion code address
324	(144)	ADDRESS	4	SBWASCR@	SRB Return code address
328	(148)	ADDRESS	4	SBWASCS@	SRB Reason code address
332	(14C)	SIGNED	4	SBWASCCC	SRB completion code
336	(150)	SIGNED	4	SBWASCRC	SRB Return code
340	(154)	SIGNED	4	SBWASCRS	SRB Reason code

```
Parameter list for IEAMSCHD
```

344	(158)	ADDRESS	4	SBWASRTN	Address of SRB routine
348	(15C)	ADDRESS	4	SBWASBWA	Address of this SBWA
352	(160)	DBL WORD	8	(0)	Align parm list MACDATE -09/26/18-<4>
0	(0)	X'160'	0	M00M1437	"SBWASCHA" ++ IEAMSCHD NAME
352	(160)	DBL WORD	8	SBWASCHA(0)	++ IEAMSCHD PARM LIST
352	(160)	BITSTRING	1	SBWASCHA_XVERSION	++ INPUT XVERSION
353	(161)	BITSTRING	1	SBWASCHA_XFLAG1	++ FIELD_LABEL

Table 471. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SBWASCHA_XENV_STOKEN	"B'00001000'" ++ XENV.STOKEN KEYWORD
		.... .1..		SBWASCHA_XENV_FULLXM	"B'00000100'" ++ XENV.FULLXM KEYWORD
		.... ..1.		SBWASCHA_XENV_PRIMARY	"B'00000010'" ++ XENV.PRIMARY KEYWORD
		1		SBWASCHA_XENV_HOME	"B'00000001'" ++ XENV.HOME KEYWORD
354	(162)	BITSTRING	1	SBWASCHA_XFLAG2	++ FIELD_LABEL
		1...		SBWASCHA_XTRANSFER_YES	"B'10000000'" ++ XTRANSFER.YES KEYWORD
		.1..		SBWASCHA_KEYUSED_SRBIDTOKEN	
					"B'01000000'" ++ KEYUSED.SRBIDTOKEN KEYWORD
		..1.		SBWASCHA_KEYUSED_DUALPOOLTOKEN	
					"B'00100000'" ++ KEYUSED.DUALPOOLTOKEN KEYWORD
		...1		SBWASCHA_XSYNCH_YES	"B'00010000'" ++ XSYNCH.YES KEYWORD
		.... 1...		SBWASCHA_KEYUSED_KEYVALUE	"B'00001000'" ++ KEYUSED.KEYVALUE KEYWORD
		.... .1..		SBWASCHA_XLLOCK_YES	"B'00000100'" ++ XLLOCK.YES KEYWORD
		.... ..1.		SBWASCHA_XFEATURE_CPMASK	"B'00000010'" ++ XFEATURE.CPMASK KEYWORD
		1		SBWASCHA_XFEATURE_CRYPTO	"B'00000001'" ++ XFEATURE.CRYPTO KEYWORD
355	(163)	BITSTRING	1	SBWASCHA_XFLAG3	++ FIELD_LABEL
		..1.		SBWASCHA_XPRIORITY_CLIENT	"B'00100000'" ++ XPRIORITY.CLIENT KEYWORD
		...1		SBWASCHA_XPRIORITY_ENCLAVE	"B'00010000'" ++ XPRIORITY.ENCLAVE KEYWORD
		.... 1...		SBWASCHA_XPRIORITY_PREEMPT	"B'00001000'" ++ XPRIORITY.PREEMPT KEYWORD
		.... .1..		SBWASCHA_XPRIORITY_CURRENT	"B'00000100'" ++ XPRIORITY.CURRENT KEYWORD
		.... ..1.		SBWASCHA_XPRIORITY_GLOBAL	"B'00000010'" ++ XPRIORITY.GLOBAL KEYWORD
		1		SBWASCHA_XPRIORITY_LOCAL	"B'00000001'" ++ XPRIORITY.LOCAL KEYWORD
356	(164)	ADDRESS	4	SBWASCHA_XEPADDR	++
360	(168)	BITSTRING	8	SBWASCHA_XTARGETSTOKEN	++
368	(170)	CHARACTER	8	SBWASCHA_XENCLAVETOKEN	++
376	(178)	BITSTRING	1	SBWASCHA_XMINORPRIORITY	++
377	(179)	BITSTRING	1	SBWASCHA_XKEYVALUE	++
378	(17A)	BITSTRING	2	SBWASCHA_XCPUMASK	++
380	(17C)	SIGNED	4	SBWASCHA_XPARM	++
384	(180)	ADDRESS	4	SBWASCHA_XFRRADDR	++
388	(184)	ADDRESS	4	SBWASCHA_XRMTRADDR	++
392	(188)	BITSTRING	8	SBWASCHA_XPURGESTOKEN	++
400	(190)	ADDRESS	4	SBWASCHA_XPTCBADDR	++
404	(194)	BITSTRING	8	SBWASCHA_XCLIENTSTOKEN	++
412	(19C)	ADDRESS	4	SBWASCHA_XSYNCHCOMPADDR	++
416	(1A0)	ADDRESS	4	SBWASCHA_XSYNCHCODEADDR	++
420	(1A4)	ADDRESS	4	SBWASCHA_XSYNCHRSNADDR	++
424	(1A8)	CHARACTER	16	SBWASCHA_XDUALPOOLTOKEN	++

Table 471. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
424	(1A8)	X'1B8'	0	SBWASCHA_PL_END	"*" ++ END OF BASE PLIST
384	(180)	CHARACTER	3	SBWASCHA_XRSV0001	++ RESERVED
387	(183)	BITSTRING	1	SBWASCHA_XFRRFLAG	++ FIELD_LABEL
		1		SBWASCHA_XSDWALOC31_YES	"B'00000001'" ++ XSDWALOC31.YES KEYWORD
440	(1B8)	X'58'	0	SBWASCHAL	"*-SBWASCHA" ++ LENGTH OF PLIST
		Footprint area for HASCUBSR		IEAMSCHD-4	
440	(1B8)	BITSTRING	0	SBWASROA(0)	Output area from the SRB for debugging. Keep fields SBWASDBA through SBWABATA together.
440	(1B8)	ADDRESS	4	SBWASDBA	---+ A(SDB) that matches the key
444	(1BC)	ADDRESS	4	SBWAPBF	| SDBPBF
448	(1C0)	ADDRESS	4	SBWAPBFI	| Inflight PBF buffer address
452	(1C4)	ADDRESS	4	SBWABPTR	| Address of found buffer
456	(1C8)	SIGNED	4	SBWABTRK	| MTTR of found buffer
460	(1CC)	ADDRESS	4	SBWABDBF	| Address of invalid buffer
464	(1D0)	ADDRESS	4	SBWABDSD	| Address of invalid SDB
468	(1D4)	ADDRESS	4	SBWABATF	| BATPBF if checking this Q
472	(1D8)	ADDRESS	4	SBWABATA	---+ BATPBFA if checking this Q
472	(1D8)	X'24'	0	SBWAOLEN	"*-SBWASDBA" Length of output area
476	(1DC)	SIGNED	4	SBWARSV1	RESERVED
480	(1E0)	SIGNED	4	SBWARSV2	RESERVED
484	(1E4)	SIGNED	4	SBWARSV3	RESERVED
488	(1E8)	BITSTRING	1	SBWAEND(0)	
488	(1E8)	X'1E8'	0	SBWASIZE	"SBWAEND-SBWA" SIZE OF $SBWA DATA AREA
488	(1E8)	X'1E8'	0	SBWABFFR	"*" LOCATION OF BUFFER FOR MOVE

Table 472. Cross Reference for $SBWA

Name	Offset	Hex	Tag
M00M1437	0		160
SBWA	0		
SBWAASIN	40		
SBWABATA	1D8		
SBWABATF	1D4		
SBWABDBF	1CC		
SBWABDSD	1D0		
SBWABFFR	1E8		1E8
SBWABFNF	13C		4
SBWABFSZ	30		
SBWABPTR	1C4		
SBWABTRK	1C8		
SBWADKEY	14		
SBWAEND	1E8		
SBWAENQ	124		128

Table 472. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWAENQL	130	C
SBWAFBFD	32	10
SBWAFLG1	32	
SBWAFLG2	33	
SBWAFSD	32	40
SBWAFSDB	C	
SBWAHCCT	4	
SBWAHSXB	1C	
SBWAIBFD	32	20
SBWAID	0	
SBWAINBF	13C	8
SBWAINHB	13C	24
SBWAINSD	13C	10
SBWAINSJ	13C	28
SBWAISDB	32	80
SBWAJKEY	10	
SBWAKEY	10	
SBWALOC	38	
SBWAMEMB	18	
SBWAMEMN	2C	
SBWAMINN	114	E2D1C24B
SBWAMTTR	8	
SBWAMXRC	13C	30
SBWANBWA	13C	18
SBWANDAT	13C	30
SBWANES1	13C	1C
SBWAOK	13C	0
SBWAOLEN	1D8	24
SBWAPBF	1BC	
SBWAPBFI	1C0	
SBWAPRNF	13C	2C
SBWAQNUM	28	
SBWARETC	13C	
SBWARSV1	1DC	
SBWARSV2	1E0	
SBWARSV3	1E4	
SBWASBWA	15C	
SBWASCC@	140	
SBWASCCC	14C	
SBWASCDR	3C	
SBWASCHA	160	
SBWASCHA_KEYUSED_DUALPOOLTOKEN	162	20
SBWASCHA_KEYUSED_KEYVALUE	162	8
SBWASCHA_KEYUSED_SRBIDTOKEN	162	40
SBWASCHA_PL_END	1A8	1B8
SBWASCHA_XCLIENTSTOKEN	194	

Table 472. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWASCHA_XCPUMASK	17A	
SBWASCHA_XDUALPOOLTOKEN	1A8	
SBWASCHA_XENCLAVETOKEN	170	
SBWASCHA_XENV_FULLXM	161	4
SBWASCHA_XENV_HOME	161	1
SBWASCHA_XENV_PRIMARY	161	2
SBWASCHA_XENV_STOKEN	161	8
SBWASCHA_XEPADDR	164	
SBWASCHA_XFEATURE_CPMASK	162	2
SBWASCHA_XFEATURE_CRYPTO	162	1
SBWASCHA_XFLAG1	161	
SBWASCHA_XFLAG2	162	
SBWASCHA_XFLAG3	163	
SBWASCHA_XFRRADDR	180	
SBWASCHA_XFRRFLAG	183	
SBWASCHA_XKEYVALUE	179	
SBWASCHA_XLLOCK_YES	162	4
SBWASCHA_XMINORPRIORITY	178	
SBWASCHA_XPARM	17C	
SBWASCHA_XPRIORITY_CLIENT	163	20
SBWASCHA_XPRIORITY_CURRENT	163	4
SBWASCHA_XPRIORITY_ENCLAVE	163	10
SBWASCHA_XPRIORITY_GLOBAL	163	2
SBWASCHA_XPRIORITY_LOCAL	163	1
SBWASCHA_XPRIORITY_PREEMPT	163	8
SBWASCHA_XPTCBADDR	190	
SBWASCHA_XPURGESTOKEN	188	
SBWASCHA_XRMTRADDR	184	
SBWASCHA_XRSV0001	180	
SBWASCHA_XSDWALOC31_YES	183	1
SBWASCHA_XSYNCH_YES	162	10
SBWASCHA_XSYNCHCODEADDR	1A0	
SBWASCHA_XSYNCHCOMPADDR	19C	
SBWASCHA_XSYNCHRSNADDR	1A4	
SBWASCHA_XTARGETSTOKEN	168	
SBWASCHA_XTRANSFER_YES	162	80
SBWASCHA_XVERSION	160	
SBWASCHAL	1B8	58
SBWASCR@	144	
SBWASCRC	150	
SBWASCRS	154	
SBWASCS@	148	
SBWASDBA	1B8	
SBWASDNF	13C	C
SBWASID	2A	
SBWASIZE	1E8	1E8

Table 472. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWASJNF	13C	20
SBWASRBF	13C	14
SBWASROA	1B8	
SBWASRTN	158	
SBWASTKN	20	
SBWAWKAL	2E	
SBWAWORK	134	
SBWA2ARQ	33	20
SBWA2ART	33	10
SBWA2JLG	33	40
SBWA2SPB	33	80

$SCAND information

$SCAND programming interface information

$SCAND is a programming interface.

$SCAND heading information

Common name:	$SCAND parameter list
Macro ID:	$SCAND
DSECT name:	SCDW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 0 or 1 Residency: Virtual and real storage are below 2G, in private storage.
Size:	See SCDWLEN
Created by:	$SCAND list form
Pointed to by:	Register 15 on entry to the $SCAND service
Serialization:	N/A
Function:	Maps the parameters specified for the $SCAND service

$SCAND mapping

Table 473. Structure SCDW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDW	Map the $SCAND DSECT
0	(0)	ADDRESS	4	SCDWFLD	Address of field to display
4	(4)	ADDRESS	4	SCDWFLDA	ALET associated with field
8	(8)	SIGNED	2	SCDWFLDL	Field length
10	(A)	BITSTRING	1	SCDWWDTH	Width
11	(B)	BITSTRING	1	SCDWFLGW	Width flags
12	(C)	BITSTRING	1	SCDWOPT1	$SCAND options 1
		1...		SCDW1DBK	"B'10000000'" BREAK OPTION REQUESTED

Table 473. Structure SCDW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SCDW1DBL	"B'01000000'" DEBLANKING OPTION REQUESTED
		..1.		SCDW1DMK	"B'00100000'" MARK TEXT FOR BACKOUT
		...1		SCDW1DCR	"B'00010000'" CRLF was requested
		.... 1...		SCDW1NBN	"B'00001000'" Disallow break on next display at this level
		.... .1..		SCDW1NIN	"B'00000100'" Do not indent this line
13	(D)	BITSTRING	1	SCDWOPT2	$SCAND options 2
		1...		SCDW2LTC	"B'10000000'" Control line->WPLLTFA
		.1..		SCDW2LTL	"B'01000000'" Label line--->WPLLTFB
		..1.		SCDW2LTD	"B'00100000'" Data line---->WPLLTFC
		...1		SCDW2LTE	"B'00010000'" End line----->WPLLTFD
		.... 1...		SCDW2BKS	"B'00001000'" BRKOPT=STAB specified
14	(E)	BITSTRING	1	SCDWCNV1	Conversion flags 1 (Maps to STABCNV1)
15	(F)	BITSTRING	1	SCDWCNV2	Conversion flags 2 (Maps to STABCNV2)
16	(10)	BITSTRING	1	SCDWCNV3	Conversion flags 3 (Maps to STABCNV3)
17	(11)	BITSTRING	1	SCDWCNV4	Conversion flags 4 (Maps to STABCNV4)
18	(12)	SIGNED	4	SCDWMULT	Multiplier
18	(12)	X'16'	0	SCDWLEN	"*-SCDW" Length of parameter list

Table 474. Cross Reference for $SCAND

Name	Offset	Hex Tag
SCDW	0	
SCDWCNV1	E	
SCDWCNV2	F	
SCDWCNV3	10	
SCDWCNV4	11	
SCDWFLD	0	
SCDWFLDA	4	
SCDWFLDL	8	
SCDWFLGW	B	
SCDWLEN	12	16
SCDWMULT	12	
SCDWOPT1	C	
SCDWOPT2	D	
SCDWWDTH	A	
SCDW1DBK	C	80
SCDW1DBL	C	40
SCDW1DCR	C	10
SCDW1DMK	C	20
SCDW1NBN	C	8
SCDW1NIN	C	4
SCDW2BKS	D	8
SCDW2LTC	D	80
SCDW2LTD	D	20
SCDW2LTE	D	10

Table 474. Cross Reference for $SCAND (continued)

Name	Offset	Hex Tag
SCDW2LTL	D	40

$SCANWA information

$SCANWA programming interface information

$SCANWA is a programming interface.

$SCANWA heading information

Common name: $SCAN Facility Work Area

Macro ID: $SCANWA

DSECT name: SCWA, SCWABA, SCWADA, XWCWA

Owning component: JES2 (SC1BH)

Eye-catcher ID: "SCWA" or "TEMP"
Offset: SCWAID-SCWA
Length: L'SCWAID

Storage attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See SCWALEN, SCWALEND

Created by: $SCAN macro expansion (normal SCWAs)
$SCANB service (backup SCWAs)
$SCAND service (display SCWAs)
Internal $SCAN processing (filter and subscript SCWAs)

Pointed to by: R1 on entry to prescan and postscan exits
SCWAPWA field of the $SCANWA data area
SCWADNWA field of the $SCANWA data area
SCWADPWA field of the $SCANWA data area
SCWABNWA field of the $SCANWA data area
SCWABPWA field of the $SCANWA data area
SCWAFNWA field of the $SCANWA data area
SCWASNWA field of the $SCANWA data area
SCWAOLDP field of the $SCANWA data area
SCWAWCWA field of the $SCANWA data area

Serialization: None required.

Function: The SCWA is used as a general work area for $SCAN.
There are several types of SCWAs:
1) Normal SCWAs - these contain general information regarding the parsing of a string (for example, pointers and lengths of text within the string, subscript and control block information, etc.)
One normal SCWA exists for each recursive level of $SCAN used in parsing a particular string.
2) Display SCWAs - these are chained to the "oldest" normal SCWA and contain text to be displayed on a $SCAN display request, specified by the $SCAND macro. This text is represented by smaller units within the display SCWA (SCWADAs), which contain additional information, such as whether it is allowed (or required) to begin a new display line.
3) Backup SCWAs - contain original values of fields modified by $SCAN, and are used to restore the original value in case of an error. The backup SCWA is broken up into smaller units (SCWABAs), which contain additional information, such as the length, address, and original value of the backed-up field.
4) Filter SCWAs - keep track of which keywords are specified as filters in the $SCAN input string.
5) Subscript SCWAs - keep track of additional subscripts or ranges of subscripts in the $SCAN input string.

$SCANWA mapping

Table 475. Structure SCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWA	INTERNAL SCAN WORK AREA DSECT
0	(0)	CHARACTER	4	SCWAID	EBCDIC CONTROL BLOCK ID, SET BY $GETWORK VIA USE=SCWA
4	(4)	ADDRESS	4	SCWADPWA	ADDR OF PREVIOUS DISPLAY SCWA
8	(8)	ADDRESS	4	SCWABPWA	ADDR OF PREVIOUS BACKUP SCWA
12	(C)	ADDRESS	4	SCWADNWA	ADDR OF NEXT DISPLAY SCWA
16	(10)	ADDRESS	4	SCWABNWA	ADDR OF NEXT BACKUP SCWA
20	(14)	ADDRESS	4	SCWAFNWA	ADDR OF NEXT FILTER SCWA
24	(18)	ADDRESS	4	SCWASNWA	ADDR OF NEXT SUBSCRIPT SCWA
28	(1C)	ADDRESS	4	SCWAENWA	ADDR of next TYPE=ERROR BACKUP SCWA
32	(20)	BITSTRING	1	SCWAKIND	$SCANWA WORK AREA KIND
		1...		SCWAKNOR	"B'10000000'" NORMAL SCWA
		.1..		SCWAKDSP	"B'01000000'" DISPLAY SCWA
		..1.		SCWAKBAK	"B'00100000'" BACKUP SCWA
		...1		SCWAKFLT	"B'00010000'" FILTER SCWA
		.... 1...		SCWAKSUB	"B'00001000'" SUBSCRIPT SCWA
33	(21)	BITSTRING	1	SCWAFLG6	GENERAL FLAG BYTE 6
		1...		SCWA6GEN	"B'10000000'" FIRST GENERIC ENTRY SAVED
		.1..		SCWA6BNO	"B'01000000'" BRKNEXT=NO specified for last $SCAND call
		..1.		SCWA6NCR	"B'00100000'" Creates disallowed due to generic subscript
		...1		SCWA6MSS	"B'00010000'" Multiple subscripts
		.... 1...		SCWA60SS	"B'00001000'" No subscripts specified, '*' assumed
		.... .1..		SCWA6GT	"B'00000100'" Filter should match if >
		.... ..1.		SCWA6LT	"B'00000010'" Filter should match if <
		1		SCWA6EQ	"B'00000001'" Filter should match if =
33	(21)	X'7'	0	SCWA6NOT	"SCWA6GT+SCWA6EQ+SCWA6LT" Composite for ¬ (NOT)
34	(22)	BITSTRING	1	SCWASLVL	This SCWA scan call level (starting at 0 for the oldest parent)
35	(23)	BITSTRING	1	SCWAELVL	Scan level of error (to be propogated to oldest parent)
36	(24)	ADDRESS	4	SCWARLWA	Related SCWA (eg. set SCWA for display request)
40	(28)	DBL WORD	8	SCWADWRK	Doubleword work area
48	(30)	DBL WORD	8	SCWADWK1	Doubleword work area
56	(38)	DBL WORD	8	SCWADWK2	Doubleword work area
64	(40)	DBL WORD	8	SCWADWK3	Doubleword work area
64	(40)	X'28'	0	SCWAWK16	"SCWADWRK,16,C'X'" 16-byte work area
64	(40)	X'28'	0	SCWAWK20	"SCWADWRK,20,C'X'" 20-byte work area
64	(40)	X'28'	0	SCWAWK24	"SCWADWRK,24,C'X'" 24-byte work area
64	(40)	X'28'	0	SCWAWK32	"SCWADWRK,32,C'X'" 32-byte work area

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	X'38'	0	SCWAW16B	"SCWADWK2,16,C'X'" 16-byte work area 2
72	(48)	CHARACTER	16	SCWAXWA	SCAN work area
88	(58)	ADDRESS	4	SCWAWCWA	Address of ASAXWC parm list
92	(5C)	ADDRESS	4	SCWAORG1(0)	ORG POINT FOR DISPLAY AND BACKUP SCWA'S
92	(5C)	ADDRESS	4	SCWACR11	$SCAN caller's R11 value
96	(60)	ADDRESS	4	SCWATOKN	ADDR OF TOKEN
100	(64)	ADDRESS	4	SCWASTBS	ADDR OF $SCAN TABLES DOUBLEWORD
104	(68)	ADDRESS	4	SCWASTMT	ADDR OF PARM STMT TO SCAN
108	(6C)	SIGNED	2	SCWASLEN	LEN OF PARM STMT TO SCAN
110	(6E)	SIGNED	2	SCWADLEN	LEN OF DISPLAY OUTPUT AREA
112	(70)	ADDRESS	4	SCWADOUT	ADDR OF DISPLAY OUTPUT AREA
116	(74)	ADDRESS	4	SCWADRTN	ADDR OF DISPLAY OUTPUT ROUTINE
120	(78)	ADDRESS	4	SCWAPWA	ADDR OF PARENT SCWA (0 IN THE OLDEST PARENT SCWA)
124	(7C)	ADDRESS	4	SCWANWA	ADDR OF DAUGHTER SCWA (0 in the youngest SCWA)
128	(80)	ADDRESS	4	SCWASTAB	ADDR OF CURRENT SCAN TABLE ENTRY
132	(84)	ADDRESS	4	SCWAOTAB	ADDR OF ORIGINAL SCAN TABLE PRIOR TO ALIAS RESOLUTION
136	(88)	ADDRESS	4	SCWACBCL	ADDR OF CONTROL BLOCK PROVIDED BY CALLER
140	(8C)	ADDRESS	4	SCWACBAD	ADDR OF CURRENT CONTROL BLOCK
144	(90)	SIGNED	4	SCWACBAL	and current CB ALET
148	(94)	ADDRESS	4	SCWAFAD	ADDR OF CURRENT FIELD
152	(98)	SIGNED	4	SCWAFAL	and current field ALET
156	(9C)	ADDRESS	4	SCWATEMP	ADDR OF TEMPORARY AREA STACK
160	(A0)	SIGNED	4	SCWADAD2	Work storage for $GETABLE
164	(A4)	ADDRESS	4	SCWAWORK(0)	WORK AREA, USED ONLY BY HIGH LEVEL $SCAN SUBRTNS/EXITS, E.G. A(STAB) IN FINDTAB, DCTNAME IN FINDCB
174	(AE)	SIGNED	2	SCWARTCD	RETURN CODE OF PROCESSED REQUST
176	(B0)	ADDRESS	4	SCWAKPTR	PTR TO CURRENT KEYWORD IN STMT
180	(B4)	ADDRESS	4	SCWARPTR	PTR TO REMAINING TEXT IN STMT
184	(B8)	SIGNED	2	SCWARLEN	LEN OF REMAINING TEXT IN STMT
186	(BA)	SIGNED	2	SCWAILEN	LEN OF CURRENT INPUT STRING
188	(BC)	ADDRESS	4	SCWAIPTR	PTR TO CURRENT INPUT STRING
192	(C0)	SIGNED	4	SCWACNTR	COUNTER FIELD AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
196	(C4)	BITSTRING	1	SCWAEXFL	FLAG BYTE AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
		1...		SCWAJNET	"B'10000000'" ON JES2 NETACCT CHAIN SEARCH
		.1..		SCWARMTA	"B'01000000'" RMT CURRENTLY AUTOLOG MODE
		..1.		SCWARTRY	"B'00100000'" RETRY INDICATOR
		...1		SCWARMTL	"B'00010000'" $T/$ADD RMT spec LINE
		.... 1...		SCWARMSH	"B'00001000'" $T/$ADD RMT spec SHARABLE

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SCWACPCT	"B'00000100'" $T RPR/RPU specified CMPCT
		.... ..1.		SCWACMPR	"B'00000010'" $T RPR/RPU specif COMPRESS
		1...		SCWA$IND	"B'10000000'" $T MEMBER,IND=YES/NO
		Definitions used by $TJ command			
		1...		SCWA$TJP	"B'10000000'" $TJ PRIORITY specified
		.1..		SCWA$TJC	"B'01000000'" $TJ CLASS specified
		..1.		SCWA$TJX	"B'00100000'" $TJ XEQ specified
		...1		SCWA$TJS	"B'00010000'" $TJ SRVCLASS specified
		.... 1...		SCWA$TJE	"B'00001000'" $TJ SCHENV specified
		.... .1..		SCWA$TJI	"B'00000100'" $TJ SPIN specified
		.... ..1.		SCWA$TJD	"B'00000010'" $TJ SPIN,DDNAME= specified
		1		SCWA$TJU	"B'00000001'" $TJ PURGE specified
		Definitions used by $TOJ/POJ/COJ commands			
		1...		SCWA$TOX	"B'10000000'" Skip to next JQE
		.1..		SCWA$TOO	"B'01000000'" OUTGRP= optimization
		EQU B'00010000' 'PROTECTED' specified			
		.... 1...		SCWA$TOG	"B'00001000'" Generics in OUTGRP=
		The following definitions are used by $C and $P job commands and must match parameters passed in R0 to the $JCAN macro			
		...1		SCWA$JPR	"B'00010000'" 'PROTECTED' specified
		.1..		SCWA$CDU	"B'01000000'" 'DUMP' specified
		EQU B'00100000' Internal $JCAN use			
		.... 1...		SCWA$FRC	"B'00001000'" 'FORCE' was specified
		.... .1..		SCWA$ARM	"B'00000100'" 'ARMRESTART' specified
		1		SCWA$CPU	"B'00000001'" Cancel with purge
		.... ..1.		SCWA$POE	"B'00000010'" PURGE,ONERROR specified
		Definitions used by $EJ command			
		.... .1..		SCWA$EST	"B'00000100'" $EJOB,STEP requested
		.... ..1.		SCWA$ESH	"B'00000010'" $EJOB,STEP,HOLD requested
		1		SCWA$ECA	"B'00000001'" $EJOB,CANCEL requested
		The following are used for $T/$D JOBCLASS(x)			
		1...		SCWASTMD	"B'10000000'" JOBCLASS MODE= changed
		.1..		SCWACATL	"B'01000000'" Looping through CATs
		The following is used for $T NODE			

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SCWA$NTC	"B'10000000'" Checkpointed attribute changed
		The following is used for $T NJEDEF			
		1...		SCWA$NNM	"B'10000000'" Checkpointed attribute changed
		The following is used for $SJ JOBCORR			
		1...		SCWA$COR	"B'10000000'" Job correlator filter provided
		The following is used for $D DUPJOB command			
		.1..		SCWADJBL	"B'01000000'" Looping through DJBs
		The following is used for SPL cmds with the RESERVED keyword.			
		1...		SCWA$RSV	"B'10000000'" Prescan was called for =RESERVED keyword
		The following is used for $D and $T LIMITS			
		1...		SCWA$TLY	"B'10000000'" PRIV=ON requested
		.1..		SCWA$TLN	"B'01000000'" PRIV=OFF requested
		..1.		SCWA$TLS	"B'00100000'" SMALLENV requested
		...1		SCWA$DMY	"B'00010000'" MASVIEW=ON requested
		.... 1...		SCWA$DMN	"B'00001000'" MASVIEW=OFF requested
197	(C5)	ADDRESS	1	SCWAWARN	$SCAN WARNING MASK
198	(C6)	BITSTRING	1	SCWAFLG7	Flag byte 7
		1...		SCWA7BOU	"B'10000000'" Sets to back out at this level of scan exist
		.1..		SCWA7DNF	"B'01000000'" A conflict exists between set and filter keywords
		..1.		SCWA7FLF	"B'00100000'" Current keyword MUST be processed as a filter
		...1		SCWA7DDN	"B'00010000'" The maximum number of display messages has been exceeded
		.... 1...		SCWA7FXT	"B'00001000'" Filter SCWA - additional processing required
		.... .1..		SCWA7DAL	"B'00000100'" Display all was requested for this keyword
		.... ..1.		SCWA7DSP	"B'00000010'" Something displayed at this level on this iteration
		1		SCWA7SDS	"B'00000001'" Something done at subscript SCWA level (similar to SCWA4SDL but reset for new subscript SCWA)
199	(C7)	ADDRESS	1	SCWACALD	CALLER FOR DISPLAY ON $SCAN CALLS THAT ARE SETDISP, SETCRDISP, ETC, DURING DISP = ORIG SET CALLER
200	(C8)	SIGNED	4	SCWASUBS	LOWER BOUNDRY AND/OR SBSCPT
204	(CC)	SIGNED	4	SCWASUBH	UPPER BOUNDRY OF SUBSCRIPT (MAY BE A LOWER VALUE THAN SSCR, IMPLYING A DECREMENTING LOOP)
208	(D0)	SIGNED	2	SCWASCRL	LENGTH OF SUBSCRIPT AREA

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
210	(D2)	SIGNED	2	SCWAVCNT	COUNT OF VECTOR ELMTS PROCESSED FOR ENTIRE VECTOR SUBSCAN
212	(D4)	SIGNED	2	SCWASTVC	COUNT OF VECTOR ELMTS PROCESSED WITHIN CURRENT SCANTAB ENTRY
214	(D6)	SIGNED	2	SCWASBL	FIELD LENGTH FOR $SCANB
216	(D8)	BITSTRING	1	SCWAFLG9	Still more flags
		1...		SCWA9NFT	"B'10000000'" SCWA for nested filter
217	(D9)	BITSTRING	1		Reserved
218	(DA)	BITSTRING	1	SCWAINDT	Indent length from DISPARSE
219	(DB)	BITSTRING	1	SCWAPRFX	Prefix len when indent is 0
220	(DC)	ADDRESS	4	SCWADADD	ADDR OF CURRENT TABLE ENTRY FOR A DISPLAY ALL ENTRIES REQUEST
224	(E0)	BITSTRING	1	SCWATYPE	$SCAN CALL TYPE
		1...		SCWASET	"B'10000000'" $SCAN SCAN=SET
		.1..		SCWADISP	"B'01000000'" $SCAN SCAN=DISPLAY
		..1.		SCWADSPA	"B'00100000'" FLAG FOR DISPLAY-AFTER
		.1.1		SCWAMSG	"B'01010000'" $SCAN SCAN=MSG
		.... 1...		SCWACR	"B'00001000'" $SCAN SCAN=CR
		.... .1..		SCWADELE	"B'00000100'" $SCAN SCAN=DELETE
224	(E0)	X'88'	0	SCWASETC	"SCWASET+SCWACR" $SCAN SCAN=SETCR
224	(E0)	X'A0'	0	SCWASETD	"SCWASET+SCWADSPA" $SCAN SCAN=SETDISP
224	(E0)	X'A8'	0	SCWASCD	"SCWASETC+SCWADSPA" $SCAN SCAN=SETCRDISP
224	(E0)	X'28'	0	SCWACRDI	"SCWACR+SCWADSPA" $SCAN SCAN=CRDISP
224	(E0)	X'44'	0	SCWADDEL	"SCWADISP+SCWADELE" $SCAN SCAN=DISPDEL
224	(E0)	X'C4'	0	SCWACRRT	"SCWASET+SCWADISP+SCWADELE" Flags to indicate (all off) CR(new CB) required
225	(E1)	BITSTRING	1	SCWAFLG1	GENERAL FLAG BYTE
		1...		SCWAPAR	"B'10000000'" SCAN STARTED WITH A PARENTHESIS (MUST END WITH ONE)
		.1..		SCWASING	"B'01000000'" SCAN RESTRICTED TO SINGLE KEYWORD (POSSIBLY NEEDING MULTI-SUBSCAN)
		..1.		SCWASSER	"B'00100000'" POSSIBLE SUBSCRIPT ERROR
		...1		SCWAVECT	"B'00010000'" VECTOR SCAN BEING PROCESSED
		.... 1...		SCWAPSCN	"B'00001000'" PRESCAN EXIT DID SCANNING
		.... .1..		SCWARANG	"B'00000100'" POSSIBLE SUBSCRIPT RANGE FOUND
		.... ..1.		SCWASCAN	"B'00000010'" SUBSCAN IS REQUIRED
		1		SCWADCOM	"B'00000001'" COMMA REQUIRED WITHIN A DISPLAY
226	(E2)	BITSTRING	1	SCWAFLG2	GENERAL FLAG BYTE 2
		1...		SCWADALL	"B'10000000'" DISPLAY ALL SUBPARAMETERS
		.1..		SCWAHASP	"B'01000000'" HAVE COMPLETED HASP TABLE
		..1.		SCWA2LNG	"B'00100000'" Do LONG display all

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SCWASPAN	"B'00010000'" TEXT SPANS AN SCWA
		.... 1...		SCWALOOP	"B'00001000'" DISPLAY LOOP AS GENERATED FROM A PRE OR POST-SCAN EXIT AND ONLY AVAILABLE FOR THEIR USE
		.... .1..		SCWA2QSS	"B'00000100'" Quotes around subscript
		.... ..1.		SCWAPAR2	"B'00000010'" Copy of SCWAPAR for loops
		1		SCWAPERD	"B'00000001'" INDICATE MULTI-SECTIONED KYWRD
227	(E3)	BITSTRING	1	SCWAFLG3	GENERAL FLAG BYTE 3
		1...		SCWAMLVL	"B'10000000'" DISPLAY MORE THAN ONE SUB-KEYWORD SECTION
		.1..		SCWAPARN	"B'01000000'" SCWA CONTAINS PART(S) OF THE HIGHEST LEVEL KYWRD SPECIFIED
		..1.		SCWAERR	"B'00100000'" SCANDIAG BUILDING DIAGNSTC MSG
		...1		SCWAGRPD	"B'00010000'" INDICATES SOMETHING DISPLAYED
		.... 1...		SCWAD1ST	"B'00001000'" FIRST CALL TO DISPRTN
		.... .1..		SCWADLST	"B'00000100'" LAST CALL TO DISPRTN
		.... ..1.		SCWA3TCB	"B'00000010'" SCWACBAD POINTS TO TEMP CB
		1		SCWA3DCT	"B'00000001'" SCWACBAD POINTS TO A DCT
228	(E4)	BITSTRING	1	SCWAFLG4	GENERAL FLAG BYTE 4
		1...		SCWA4SSG	"B'10000000'" GENERIC SYMBOLIC SUBSCRIPT
		.1..		SCWA4PSS	"B'01000000'" PARENS AROUND SUBSCRIPT
		..1.		SCWA4ACT	"B'00100000'" ACTIVITY DETERMINED THIS LEVEL
		...1		SCWA4SDL	"B'00010000'" SOMETHING DONE IN POSSIBLE LOOP, USED TO REPORT IF NO MATCHES
		.... 1...		SCWA4LFC	"B'00001000'" LKUPFLD HAS BEEN CHANGED BY SET, DISPLAY MUST USE NEW SUBSCRP
		.... .1..		SCWA4FLM	"B'00000100'" Filter match found
		.... ..1.		SCWA4ETL	"B'00000010'" END OF SCAN FOR THIS LEVEL
		1		SCWA4RDE	"B'00000001'" ERROR FLAG FOR RESTDISP
229	(E5)	BITSTRING	1	SCWAFLG5	GENERAL FLAG BYTE 5
		1...		SCWA5FLT	"B'10000000'" FILTER REQUEST DETECTED
		.1..		SCWA5FRJ	"B'01000000'" FILTER REQUEST REJECTED
		..1.		SCWA5DSP	"B'00100000'" Something done at this level other than filters
		...1		SCWA5PS2	"B'00010000'" SECOND 'DISPLAY ALL' PASS IN PROGRESS FOR KEYWORD
		.... 1...		SCWA5FND	"B'00001000'" FILTER DETECTED WHICH ALSO REQUIRES A DISPLAY
		.... .1..		SCWA5XPR	"B'00000100'" DO NOT TAKE ANY MORE PRESCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
		.... ..1.		SCWA5XPO	"B'00000010'" DO NOT TAKE ANY MORE POSTSCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		SCWA5NSS	"B'00000001'" Input at this level contained a numeric subscript (if symbolic then SCWASSSL is set)
230	(E6)	SIGNED	2	SCWARPMM	MAXIMUM RPTR MOVED IN LOOP
232	(E8)	CHARACTER	1	SCWASEPR	SEPARATOR CHARACTER USED DURING DISPLAY CREATION
233	(E9)	BITSTRING	1	SCWADSPR	$SCAN DISPLAYER ID
234	(EA)	ADDRESS	1	SCWAKWDL	LENGTH OF FIRST SECTION OF A MULTI-SECTIONED KEYWORD
235	(EB)	ADDRESS	1	SCWACALR	$SCAN CALLER ID - HASP IDS ARE DEFINED IN $HASPEQU, USERS SHOULD USE IDS FROM 255 DOWN (IF NEEDED)
236	(EC)	BITSTRING	1	SCWABFLG	FLAG BYTE USED BY $SCANB MACRO TO PASS TYPE TO $SCANB ROUTINE - ALL BIT DEFINITIONS IN SCWABAFG
237	(ED)	SIGNED	1	SCWASSSL	LENGTH OF INPUT SYMBOLIC SS
238	(EE)	SIGNED	1	SCWASSL2	LENGTH of second symbolic in range
239	(EF)	BITSTRING	1	SCWAFLG8	Even more flags
		1...		SCWA8LTC	"B'10000000'" Control line->WPLLTFA
		.1..		SCWA8LTL	"B'01000000'" Label line--->WPLLTFB
		..1.		SCWA8LTD	"B'00100000'" Data line---->WPLLTFC
		...1		SCWA8LTE	"B'00010000'" End line----->WPLLTFD
		.... 1...		SCWA8DOU	"B'00001000'" Display area obtained by $SCAN
		.... .1..		SCWA8DCC	"B'00000100'" Display routine R11=HCCT
		.... ..1.		SCWA8DHC	"B'00000010'" Display routine R11=HCT
		1		SCWA8HIC	"B'00000001'" Hi delimiter flag
240	(F0)	BITSTRING	2	SCWAFVCT	Counter for vector filters specifying NOVORDER
242	(F2)	BITSTRING	2	SCWAMIDL	Message id length for current message
244	(F4)	CHARACTER	4	SCWAMID	Message id for the current message
248	(F8)	ADDRESS	4	SCWASSIE	Indirection entry save area If SUBFLD or LKUPFLD, it is current index value If SUBSCRP (direct index) it is looping CBIND adr
252	(FC)	CHARACTER	16	SCWASSS(0)	Symbolic subscript values in normal and subscript SCWAs
252	(FC)	CHARACTER	8	SCWASSSC	SYMBOLIC SUBSCRIPT VALUE
260	(104)	CHARACTER	8	SCWASSSH	SYMBOLIC SUBSCRIPT VALUE (HIGH RANGE VALUE)
260	(104)	X'FC'	0	SCWAFW16	"SCWASSS" 16-byte work area - only in filter SCWAs
260	(104)	X'FC'	0	SCWAFW8	"SCWAFW16,8" 8-byte work area
260	(104)	X'104'	0	SCWAFW8A	"SCWAFW16+8,8" 8-byte work area
268	(10C)	ADDRESS	4	SCWASSSS	SYM SUBSCRIPT CB SAVE AREA
272	(110)	SIGNED	4	SCWASSSA	and ALET
276	(114)	ADDRESS	4	SCWASSDR	HIGHEST LEVEL SYMBOLIC LKUPFLD ADDR (USED FOR LATER DISPLAY IF SCWA4LFC IS TURNED ON)
280	(118)	BITSTRING	1	SCWAPRRC	Highest RC encountered from prescan routine
281	(119)	BITSTRING	1	SCWAPCNT	Count of nested parens for CONV=CHAR

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
282	(11A)	ADDRESS	1	SCWAMSDL	MAXIMUM SUBSCRIPT DISPLAY LENGTH
283	(11B)	ADDRESS	1	SCWANBLN	ACTUAL SUBSCRIPT LENGTH
284	(11C)	ADDRESS	4	SCWAVERB	Addr of verb (1 byte length followed by char verb)
288	(120)	ADDRESS	4		Reserved for future use
292	(124)	ADDRESS	4	SCWASCND(0)	Start of list form
292	(124)	ADDRESS	4		Text address unknown
296	(128)	ADDRESS	4		ALET of field
300	(12C)	ADDRESS	2		Text length
302	(12E)	ADDRESS	1		Text width
303	(12F)	ADDRESS	1		Width flags
304	(130)	ADDRESS	1		
305	(131)	ADDRESS	1		Option flag 2
306	(132)	ADDRESS	1		Conversion flag 1
307	(133)	ADDRESS	1		Conversion flag 2
308	(134)	ADDRESS	1		Conversion flag 3
309	(135)	ADDRESS	1		Conversion flag 4
310	(136)	ADDRESS	4		Multiplier
		Dual use work area for filtering. The following fields map the data areas in a normal SCWAs. They are used to remember display or backup areas that have to be backed out later due to a filter mismatch.			
316	(13C)	ADDRESS	4	SCWAFLTA(0)	Start of remapped area
316	(13C)	ADDRESS	4	SCWADCWA	Addr of display SCWA of prefix area for text to back out
320	(140)	SIGNED	2	SCWADCOF	Offset within display SCWA of prefix area for keyword (SCWANXPT)
322	(142)	SIGNED	2	SCWADCLN	Remaining length in display SCWA after text is backed out (SCWADFAL)
324	(144)	ADDRESS	4	SCWADCTA	Addr of last prefix area (SCWALTA)
328	(148)	ADDRESS	4	SCWABCWA	Addr of backup SCWA of prefix area for sets to back out (SCWA address)
332	(14C)	SIGNED	2	SCWABCOF	Offset within backup SCWA of prefix area for keyword (SCWABLUO)
334	(14E)	SIGNED	2	SCWABCLN	Remaining length in backup SCWA after sets are backed out (SCWABLA)
336	(150)	SIGNED	2	SCWABCNA	Next remaining area (SCWABNO)
338	(152)	SIGNED	2		Reserved for future use
		Work area in Filter SCWAs The following fields map the data areas in a filter SCWA. These fields are used to store working fields and STAB addresses from earlier levels of $SCAN.			
316	(13C)	ADDRESS	4	SCWAFLST	Looping level $SCANTAB for this filter SCWA
320	(140)	SIGNED	4	SCWAFWA_START(0)	Begin filter WA ($SCANTAB addrs in filter SCWAs)
340	(154)	SIGNED	4	SCWAFWA_END(0)	End filter WA
340	(154)	X'140'	0	SCWAFWA	"SCWAFWA_START,SCWAFWA_END-SCWAFWA_START" Define work area

Table 475. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SET SCWA BACKUP AREA FIELDS MAPPED OVER COMMON SCWA			
92	(5C)	SIGNED	2	SCWABLA	LEN OF AVAILABLE BACKUP SPACE
94	(5E)	SIGNED	2	SCWABLT	LEN OF TOTAL BACKUP SPACE
96	(60)	SIGNED	2	SCWABLUO	OFFSET OF LAST USED BACKUP AREA
98	(62)	SIGNED	2	SCWABNO	OFFSET OF NEXT AVAILABLE BACKUP AREA
100	(64)	SIGNED	4	(0)	BACKUP AREA ELEMENTS
100	(64)	BITSTRING	16	SCWABELM	Ensure at least one fits
		SET SCWA DISPLAY AREA FIELDS MAPPED OVER BACKUP FIELDS			
92	(5C)	ADDRESS	4	SCWAOLDP	ADDR OF OLDEST PARENT SCWA
96	(60)	SIGNED	2	SCWADFAL	LENGTH OF FREE AREA LEFT
98	(62)	SIGNED	2	SCWANXPT	OFFSET TO NXT POSSIBLE TXT AREA
100	(64)	SIGNED	4	SCWALTA	ADDRESS TO PREVIOUS TEXT AREA
104	(68)	SIGNED	4	(0)	Beginning of display elmts
104	(68)	BITSTRING	16	SCWADELM	Ensure at least one fits
340	(154)	X'154'	0	SCWALEN	"*-SCWA" LEN OF GENERAL SCWA WORK AREA
340	(154)	X'1000'	0	SCWALEND	"4096" Len of DISPLAY SCWA

Table 476. Structure SCWADA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWADA	, Mapping for display element
0	(0)	SIGNED	2	SCWADTXL	LEN OF TEXT
2	(2)	SIGNED	2	SCWADTLS	LEN OF TEXT IN THIS SCWA
4	(4)	SIGNED	4	SCWANDTA	ADDR OF NEXT TEXT AREA
8	(8)	ADDRESS	4	SCWADSTB	ADDR OF THIS TEXT'S STAB
12	(C)	BITSTRING	1	SCWADFLG	Flags for display
		1...		SCWADLTC	"B'10000000'" Control line
		.1..		SCWADLTL	"B'01000000'" Label line
		..1.		SCWADLTD	"B'00100000'" Data line
		...1		SCWADLTE	"B'00010000'" End line
		.... 1...		SCWADFCR	"B'00001000'" Place CRLF before text
		.... .1..		SCWADFCT	"B'00000100'" This SCWADA continued in next display SCWA
		.... ..1.		SCWANIND	"B'00000010'" Do not indent this output
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	SCWADTXT(0)	START OF TEXT
16	(10)	X'10'	0	SCWADAL	"*-SCWADA"

Table 477. Structure SCWABA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWABA	, BACKUP AREA ELEMENT
0	(0)	BITSTRING	1	SCWABAFG	FLAG BYTE FIELD CORRESPONDING TO THE FLAG BYTE OF SCWABFLG

Table 477. Structure SCWABA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SCWABABA	"B'10000000'" BACKUP AREA CONTAINS BACKED UP STORAGE
		.1..		SCWABADI	"B'01000000'" BACKUP AREA CONTAINS STABNAME TO DISPLAY (FOR SET-DISPLAY)
		..1.		SCWABAER	"B'00100000'" BACKUP AREA CONTAINS KEYWORD OR VALUE IN ERROR
		.... ..1.		SCWABASC	"B'00000010'" Secondary TYPE=ERROR entry
		1		SCWABAIN	"B'00000001'" Backup area is no longer valid
1	(1)	BITSTRING	1	SCWABALV	LEVEL OF THE VALUE SAVED
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	SCWABAAD	ADDRESS OF STORAGE BACKED UP
8	(8)	SIGNED	4	SCWABAAL	and ALET
12	(C)	SIGNED	2	SCWABALN	LENGTH OF STORAGE BACKED UP
14	(E)	SIGNED	2	SCWABAPO	OFFSET OF PREVIOUS BA IN SCWA OR 0
16	(10)	SIGNED	4	SCWABAFC(0)	CONTENTS OF BACKED-UP FIELD
16	(10)	X'10'	0	SCWABAL	"*-SCWABA"

Table 478. Structure XWCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XWCWA	, ASAXWC work area
0	(0)	CHARACTER	4		Eyecatcher
4	(4)	CHARACTER	256	XWCDATA	Data work area
260	(104)	SIGNED	4	XWCDATAL	Length of data
264	(108)	CHARACTER	256	XWCSTR	Input string area
520	(208)	SIGNED	4	XWCSTRL	Length of input string MACDATE -12/21/18-<0>
0	(0)	X'20C'	0	M00M1441	"XWCLIST" ++ ASAXWC NAME
524	(20C)	SIGNED	4	XWCLIST(0)	++ ASAXWC PARM LIST
524	(20C)	CHARACTER	4	XWCLIST_XPARMAREA1	++ FIELD_LABEL
528	(210)	CHARACTER	24	XWCLIST_XPARMAREA2	++ FIELD_LABEL
528	(210)	X'228'	0	XWCLIST_PL_END	"*" ++ END OF BASE PLIST
524	(20C)	ADDRESS	4	XWCLIST_XPATTERNSTR_ADDR	++ ADDR
528	(210)	SIGNED	4	XWCLIST_XPATTERNSTRLEN	++
532	(214)	ADDRESS	4	XWCLIST_XSTRING_ADDR	++ ADDR
536	(218)	SIGNED	4	XWCLIST_XSTRINGLEN	++
540	(21C)	ADDRESS	4	XWCLIST_XZEROORMORE_ADDR	++ ADDR
544	(220)	ADDRESS	4	XWCLIST_XONECHAR_ADDR	++ ADDR
548	(224)	ADDRESS	4	XWCLIST_XDELIMITER_ADDR	++ ADDR
524	(20C)	ADDRESS	4	XWCLIST_XPPPATTERNINFO_ADDR	++ ADDR
528	(210)	ADDRESS	4	XWCLIST_XPPPATTERNSTR_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPPATTERNSTRLEN	++
536	(218)	ADDRESS	4	XWCLIST_XPPZEROORMORE_ADDR	++ ADDR
540	(21C)	ADDRESS	4	XWCLIST_XPPONECHAR_ADDR	++ ADDR
544	(220)	ADDRESS	4	XWCLIST_XPPDELIMITER_ADDR	++ ADDR

Table 478. Structure XWCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
528	(210)	ADDRESS	4	XWCLIST_XPPSTRING_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPSTRINGLEN	++
552	(228)	X'1C'	0	XWCLISTL	"*-XWCLIST" ++ LENGTH OF PLIST
				ASAXWC-0	
552	(228)	BITSTRING	256	XWCAREA	Work area passed to ASAXWC
808	(328)	BITSTRING	40	XWCGENWA	List of diagnostic levels
848	(350)	CHARACTER	100	XWCGENWB	Message work area
952	(3B8)	DBL WORD	8	(0)	
952	(3B8)	X'3B8'	0	XWCLEN	"*-XWCWA" Length of work area
952	(3B8)	X'EE'	0	XWCWORDS	"XWCLEN/4" Length in words

Table 479. Structure SCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWA	Restore SCWA DSECT

Table 480. Cross Reference for $SCANWA

Name	Offset	Hex Tag
M00M1441	0	20C
SCWA	0	
SCWA	0	
SCWA$ARM	C4	4
SCWA$CDU	C4	40
SCWA$COR	C4	80
SCWA$CPU	C4	1
SCWA$DMN	C4	8
SCWA$DMY	C4	10
SCWA$ECA	C4	1
SCWA$ESH	C4	2
SCWA$EST	C4	4
SCWA$FRC	C4	8
SCWA$IND	C4	80
SCWA$JPR	C4	10
SCWA$NNM	C4	80
SCWA$NTC	C4	80
SCWA$POE	C4	2
SCWA$RSV	C4	80
SCWA$TJC	C4	40
SCWA$TJD	C4	2
SCWA$TJE	C4	8
SCWA$TJI	C4	4
SCWA$TJP	C4	80
SCWA$TJS	C4	10
SCWA$TJU	C4	1
SCWA$TJX	C4	20

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWA$TLN	C4	40
SCWA$TLS	C4	20
SCWA$TLY	C4	80
SCWA$TOG	C4	8
SCWA$TOO	C4	40
SCWA$TOX	C4	80
SCWABA	0	
SCWABAAD	4	
SCWABAAL	8	
SCWABABA	0	80
SCWABADI	0	40
SCWABAER	0	20
SCWABAFC	10	
SCWABAFG	0	
SCWABAIN	0	1
SCWABAL	10	10
SCWABALN	C	
SCWABALV	1	
SCWABAPO	E	
SCWABASC	0	2
SCWABCLN	14E	
SCWABCNA	150	
SCWABCOF	14C	
SCWABCWA	148	
SCWABELM	64	
SCWABFLG	EC	
SCWABLA	5C	
SCWABLT	5E	
SCWABLUO	60	
SCWABNO	62	
SCWABNWA	10	
SCWABPWA	8	
SCWACALD	C7	
SCWACALR	EB	
SCWACATL	C4	40
SCWACBAD	8C	
SCWACBAL	90	
SCWACBCL	88	
SCWACMPR	C4	2
SCWACNTR	C0	
SCWACPCT	C4	4
SCWACR	E0	8
SCWACRDI	E0	28
SCWACRRT	E0	C4
SCWACR11	5C	
SCWADA	0	

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWADADD	DC	
SCWADAD2	A0	
SCWADAL	10	10
SCWADALL	E2	80
SCWADCLN	142	
SCWADCOF	140	
SCWADCOM	E1	1
SCWADCTA	144	
SCWADCWA	13C	
SCWADDEL	E0	44
SCWADELE	E0	4
SCWADELM	68	
SCWADFAL	60	
SCWADFCR	C	8
SCWADFCT	C	4
SCWADFLG	C	
SCWADISP	E0	40
SCWADJBL	C4	40
SCWADLEN	6E	
SCWADLST	E3	4
SCWADLTC	C	80
SCWADLTD	C	20
SCWADLTE	C	10
SCWADLTL	C	40
SCWADNWA	C	
SCWADOUT	70	
SCWADPWA	4	
SCWADRTN	74	
SCWADSPA	E0	20
SCWADSPR	E9	
SCWADSTB	8	
SCWADTLS	2	
SCWADTXL	0	
SCWADTXT	10	
SCWADWK1	30	
SCWADWK2	38	
SCWADWK3	40	
SCWADWRK	28	
SCWAD1ST	E3	8
SCWAELVL	23	
SCWAENWA	1C	
SCWAERR	E3	20
SCWAEXFL	C4	
SCWAFAD	94	
SCWAFAL	98	
SCWAFLG1	E1	

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWAFLG2	E2	
SCWAFLG3	E3	
SCWAFLG4	E4	
SCWAFLG5	E5	
SCWAFLG6	21	
SCWAFLG7	C6	
SCWAFLG8	EF	
SCWAFLG9	D8	
SCWAFLST	13C	
SCWAFLTA	13C	
SCWAFNWA	14	
SCWAFVCT	F0	
SCWAFWA	154	140
SCWAFWA_END	154	
SCWAFWA_START	140	
SCWAFW16	104	FC
SCWAFW8	104	FC
SCWAFW8A	104	104
SCWAGRPD	E3	10
SCWAHASP	E2	40
SCWAID	0	
SCWAILEN	BA	
SCWAINDT	DA	
SCWAIPTR	BC	
SCWAJNET	C4	80
SCWAKBAK	20	20
SCWAKDSP	20	40
SCWAKFLT	20	10
SCWAKIND	20	
SCWAKNOR	20	80
SCWAKPTR	B0	
SCWAKSUB	20	8
SCWAKWDL	EA	
SCWALEN	154	154
SCWALEND	154	1000
SCWALOOP	E2	8
SCWALTA	64	
SCWAMID	F4	
SCWAMIDL	F2	
SCWAMLVL	E3	80
SCWAMSDL	11A	
SCWAMSG	E0	50
SCWANBLN	11B	
SCWANDTA	4	
SCWANIND	C	2
SCWANWA	7C	

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWANXPT	62	
SCWAOLDP	5C	
SCWAORG1	5C	
SCWAOTAB	84	
SCWAPAR	E1	80
SCWAPARN	E3	40
SCWAPAR2	E2	2
SCWAPCNT	119	
SCWAPERD	E2	1
SCWAPRFX	DB	
SCWAPRRC	118	
SCWAPSCN	E1	8
SCWAPWA	78	
SCWARANG	E1	4
SCWARLEN	B8	
SCWARLWA	24	
SCWARMSH	C4	8
SCWARMTA	C4	40
SCWARMTL	C4	10
SCWARPMM	E6	
SCWARPTR	B4	
SCWARTCD	AE	
SCWARTRY	C4	20
SCWASBL	D6	
SCWASCAN	E1	2
SCWASCD	E0	A8
SCWASCND	124	
SCWASCRL	D0	
SCWASEPR	E8	
SCWASET	E0	80
SCWASETC	E0	88
SCWASETD	E0	A0
SCWASING	E1	40
SCWASLEN	6C	
SCWASLVL	22	
SCWASNWA	18	
SCWASPAN	E2	10
SCWASSDR	114	
SCWASSER	E1	20
SCWASSIE	F8	
SCWASSL2	EE	
SCWASSS	FC	
SCWASSSA	110	
SCWASSSC	FC	
SCWASSSH	104	
SCWASSSL	ED	

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWASSSS	10C	
SCWASTAB	80	
SCWASTBS	64	
SCWASTMD	C4	80
SCWASTMT	68	
SCWASTVC	D4	
SCWASUBH	CC	
SCWASUBS	C8	
SCWATEMP	9C	
SCWATOKN	60	
SCWATYPE	E0	
SCWAVCNT	D2	
SCWAVECT	E1	10
SCWAVERB	11C	
SCWAWARN	C5	
SCWAWCWA	58	
SCWAWK16	40	28
SCWAWK20	40	28
SCWAWK24	40	28
SCWAWK32	40	28
SCWAWORK	A4	
SCWAW16B	40	38
SCWAXWA	48	40404040
SCWA2LNG	E2	20
SCWA2QSS	E2	4
SCWA3DCT	E3	1
SCWA3TCB	E3	2
SCWA4ACT	E4	20
SCWA4ETL	E4	2
SCWA4FLM	E4	4
SCWA4LFC	E4	8
SCWA4PSS	E4	40
SCWA4RDE	E4	1
SCWA4SDL	E4	10
SCWA4SSG	E4	80
SCWA5DSP	E5	20
SCWA5FLT	E5	80
SCWA5FND	E5	8
SCWA5FRJ	E5	40
SCWA5NSS	E5	1
SCWA5PS2	E5	10
SCWA5XPO	E5	2
SCWA5XPR	E5	4
SCWA6BNO	21	40
SCWA6EQ	21	1
SCWA6GEN	21	80

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWA6GT	21	4
SCWA6LT	21	2
SCWA6MSS	21	10
SCWA6NCR	21	20
SCWA6NOT	21	7
SCWA60SS	21	8
SCWA7BOU	C6	80
SCWA7DAL	C6	4
SCWA7DDN	C6	10
SCWA7DNF	C6	40
SCWA7DSP	C6	2
SCWA7FLF	C6	20
SCWA7FXT	C6	8
SCWA7SDS	C6	1
SCWA8DCC	EF	4
SCWA8DHC	EF	2
SCWA8DOU	EF	8
SCWA8HIC	EF	1
SCWA8LTC	EF	80
SCWA8LTD	EF	20
SCWA8LTE	EF	10
SCWA8LTL	EF	40
SCWA9NFT	D8	80
XWCAREA	228	
XWCDATA	4	
XWCDATAL	104	
XWCGENWA	328	
XWCGENWB	350	
XWCLEN	3B8	3B8
XWCLIST	20C	
XWCLIST_PL_END	210	228
XWCLIST_XDELIMITER_ADDR	224	
XWCLIST_XONECHAR_ADDR	220	
XWCLIST_XPARMAREA1	20C	
XWCLIST_XPARMAREA2	210	
XWCLIST_XPATTERNSTR_ADDR	20C	
XWCLIST_XPATTERNSTRLEN	210	
XWCLIST_XPPDELIMITER_ADDR	220	
XWCLIST_XPPONECHAR_ADDR	21C	
XWCLIST_XPPPATTERNINFO_ADDR	20C	
XWCLIST_XPPPATTERNSTR_ADDR	210	
XWCLIST_XPPPATTERNSTRLEN	214	
XWCLIST_XPPSTRING_ADDR	210	
XWCLIST_XPPSTRINGLEN	214	
XWCLIST_XPPZEROORMORE_ADDR	218	
XWCLIST_XSTRING_ADDR	214	

Table 480. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
XWCLIST_XSTRINGLEN	218	
XWCLIST_XZEROORMORE_ADDR	21C	
XWCLISTL	228	1C
XWCSTR	108	
XWCSTRL	208	
XWCWA	0	
XWCWORDS	3B8	EE

$SCAT information

$SCAT programming interface information

$SCAT is a programming interface.

$SCAT heading information

Common name: SYSOUT Class Attribute Table DSECT

Macro ID: $SCAT

DSECT name: SCAT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 241
Key: 1
Residency: The SCAT is in 24 bit virtual storage and 64 bit real storage.

Size: See SCATLEN

Created by: HASPIRSI during JES2 initialization

Pointed to by: CCTSCATP field of the $HCCT data area
CCTSCAT FIELD of the $HCCT data area
(CCTSCAT is the actual address of the SCAT which resides in the $HCCT. It is NOT a pointer and should not be used to address the SCAT.)

Serialization: None required

Function: The SCAT defines the attributes of the JES2 SYSOUT classes. There are 64 SCAT entries arranged contiguously. The appropriate SCAT entry for a particular class is found by taking the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A =X'01'), multiplying by the SCATLEN equate, and adding to the address pointed to by CCTSCATP.

$SCAT mapping

Table 481. Structure SCAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCAT	SYSOUT CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	BITSTRING	1	SCATFLG1	SYSOUT CLASS FLAG BYTE 1
		111.		SCATYPES	"B'11100000'" SCAT ELEMENT TYPES
		1...		SCAT1PRT	"B'10000000'" SYSOUT CLASS NORMALLY PRINTED
		.1..		SCAT1PCH	"B'01000000'" SYSOUT CLASS NORMALLY PUNCHED

Table 481. Structure SCAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SCAT1DUM	"B'00100000'" TREAT SYSOUT CLASS AS DUMMY
		...1		SCAT1BLK	"B'00010000'" TRUNCATE THIS SYSOUT CLASS
		.... 1...		SCAT1TCL	"B'00001000'" TRAKCELL THIS SYSOUT CLASS
		1		SCAT1INV	"B'00000001'" INVALID SYSOUT CLASS
1	(1)	BITSTRING	1	SCATFLG2	SYSOUT CLASS FLAG BYTE 2
1	(1)	X'10'	0	SCT2NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
1	(1)	X'8'	0	SCT2NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
1	(1)	X'4'	0	SCT2NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
1	(1)	X'2'	0	SCT2NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
1	(1)	X'1'	0	SCT2NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
1	(1)	X'1F'	0	SCT2NODA	"$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	BITSTRING	1	SCATFLG3	SYSOUT CLASS FLAG BYTE 3
2	(2)	X'10'	0	SCT3AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
2	(2)	X'8'	0	SCT3AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
2	(2)	X'4'	0	SCT3AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
2	(2)	X'2'	0	SCT3AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
2	(2)	X'1'	0	SCT3AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
2	(2)	X'1F'	0	SCT3AODA	"$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	X'3'	0	SCATLEN	"*-SCAT" LENGTH OF A SCAT ENTRY

Table 482. Cross Reference for $SCAT

Name	Offset	Hex Tag
SCAT	0	
SCATFLG1	0	
SCATFLG2	1	
SCATFLG3	2	
SCATLEN	2	3
SCATYPES	0	E0
SCAT1BLK	0	10
SCAT1DUM	0	20
SCAT1INV	0	1
SCAT1PCH	0	40
SCAT1PRT	0	80
SCAT1TCL	0	8
SCT2NODA	1	1F
SCT2NODH	1	4
SCT2NODK	1	2
SCT2NODL	1	1
SCT2NODP	1	10
SCT2NODW	1	8
SCT3AODA	2	1F
SCT3AODH	2	4
SCT3AODK	2	2
SCT3AODL	2	1

Table 482. Cross Reference for $SCAT (continued)

Name	Offset	Hex Tag
SCT3AODP	2	10
SCT3AODW	2	8

$SCID information

$SCID programming interface information

The following fields are **NOT** programming interface information:

- OLD_LIVE_ADDR
- OLD_LIVE_STOKEN
- OLD_LIVE_VERSION
- SCIDDSB
- SPUD_ACTIVE_COUNT
- SPUD_CHECK_AREA
- SPUD_DATASET_SIZE
- SPUD_ENQUEUE_COUNT
- SPUD_FREE_ADDR
- SPUD_FREE_QUEUE
- SPUD_FREE_STOKEN
- SPUD_HOLD
- SPUD_HOLD_ADDR
- SPUD_HOLD_STOKEN
- SPUD_LATEST_ADDR
- SPUD_LATEST_STOKEN
- SPUD_LATEST_VERSION
- SPUD_LIVE_ADDR
- SPUD_LIVE_STOKEN
- SPUD_LIVE_VERSION

$SCID heading information

Common name:	Summary of Checkpoint Information
Macro ID:	$SCID
DSECT name:	SCID
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	SCID Offset: SCIDID-SCID Length: L'SCIDID
Storage attributes:	Subpool: 231 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.
Size:	See SCIDSIZE
Created by:	HASPCKVR during initialization processing
Pointed to by:	CCTSCIDS field of the $HCCT data area
Serialization:	All applicable techniques

Function: This control block contains the necessary information needed by the Checkpoint Versions Subtask. It provides the means by which authorized programs access the checkpoint versions contained within the checkpoint data spaces.

$SCID mapping

Table 483. Structure SCID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCID	
0	(0)		1	(0)	Quad word align
0	(0)	CHARACTER	4	SCIDID	SCID eye catcher
4	(4)	BITSTRING	1	SCIDSUBP	SCID subpool
5	(5)	BITSTRING	3	SCIDLEN	SCID length
8	(8)	BITSTRING	1	SCIDCBVN	Control block vers. no
9	(9)	BITSTRING	1	SCIDFLG	Flag Byte-subtask stats
		1...		SCIDDSE	"B'10000000'" Data spaces exist
		.1..		SCIDDISA	"B'01000000'" Subtask disabled
		..1.		SCIDPJ2	"B'00100000'" Subtask in PJES2
		...1		SCIDSINA	"B'00010000'" Subtask inactive
		.... 1...		SCIDSREC	"B'00001000'" Subtask in recovery
10	(A)	BITSTRING	1	SCIDFLG2	Flag Byte-Versning stat
		.1..		SCIDVACT	"B'01000000'" Versioning active
11	(B)	BITSTRING	1		
12	(C)	CHARACTER	8	SCIDNAME(0)	Requested name of data sp
12	(C)	CHARACTER	4	SCIDSTNM	Subtask name 'CKVR'
16	(10)	CHARACTER	4	SCIDSSNM	Subsystem name 'JESX'
20	(14)	CHARACTER	8	SCIDDSPN	Official name of d.s.
28	(1C)	SIGNED	4	SCIDDSIZ	Size of data space
32	(20)	ADDRESS	4	SCIDSORG	Origin of data space
36	(24)	SIGNED	4	SCIDVRNO	Running version number
40	(28)	ADDRESS	4	SCIDDSB	Addr of data space DSB
44	(2C)	CHARACTER	8	SCIDSTCK(0)	Time of last request
44	(2C)	SIGNED	4	SCIDREQT	Primary part -time
48	(30)	SIGNED	4		Last part of time
52	(34)	SIGNED	4		Reserved
56	(38)	CHARACTER	16	SCIDCVMN	Cur version ENQ minor name
72	(48)	CHARACTER	16	SCIDNVMN	Next version ENQ minor name
88	(58)	ADDRESS	8	SCIDCVCB	First CVCB address
96	(60)	SIGNED	2	SPUD_MAX_VERSIONS	Max versions in dataspace
98	(62)	BITSTRING	14		Reserved for alignment
112	(70)		1	SPUD_LATEST_VERSION(0)	Active Q head area
112	(70)	ADDRESS	8	SPUD_LATEST_ADDR	Active Q head addr
120	(78)	BITSTRING	8	SPUD_LATEST_STOKEN	Active STOKEN
128	(80)		1	SPUD_FREE_QUEUE(0)	Free Q head area
128	(80)	ADDRESS	8	SPUD_FREE_ADDR	Free Q head addr
136	(88)	BITSTRING	8	SPUD_FREE_STOKEN	STOKEN of free version
144	(90)		1	SPUD_HOLD(0)	Hold area CVCB

Table 483. Structure SCID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	ADDRESS	8	SPUD_HOLD_ADDR	Hold area Address
152	(98)	BITSTRING	8	SPUD_HOLD_STOKEN	STOKEN of free area
160	(A0)		1	SPUD_LIVE_VERSION(0)	Live version CVCB area
160	(A0)	ADDRESS	8	SPUD_LIVE_ADDR	Ptr to live version CVCB
168	(A8)	BITSTRING	8	SPUD_LIVE_STOKEN	STOKEN of live version
176	(B0)		1	OLD_LIVE_VERSION(0)	Old live version CVCB area
176	(B0)	ADDRESS	8	OLD_LIVE_ADDR	Old live version CVCB addr
184	(B8)	BITSTRING	8	OLD_LIVE_STOKEN	Old STOKEN of live version
192	(C0)	ADDRESS	8	SPUD_CHECK_AREA	Low end of area
200	(C8)	SIGNED	4	SPUD_ACTIVE_COUNT	Number in active queue
204	(CC)	SIGNED	4	SPUD_ENQUEUE_COUNT	Number of CVCBs w/ enqueues
208	(D0)	SIGNED	4		Reserved
212	(D4)	SIGNED	4	SPUD_DATASET_SIZE	Size MR+4K pages
216	(D8)	SIGNED	4	(6)	Reserved
240	(F0)		1	(0)	Alignment
240	(F0)	X'F0'	0	SCIDSIZE	"*-SCID"
		.... ..1.		SCIDCVNO	"X'02'"
240	(F0)	X'C3C9C4'	0	SCIDEYEC	"C'SCID'"

Table 484. Cross Reference for $SCID

Name	Offset	Hex Tag
OLD_LIVE_ADDR	B0	
OLD_LIVE_STOKEN	B8	
OLD_LIVE_VERSION	B0	
SCID	0	
SCIDCBVN	8	
SCIDCVCB	58	
SCIDCVMN	38	
SCIDCVNO	F0	2
SCIDDISA	9	40
SCIDDSB	28	
SCIDDSE	9	80
SCIDDSIZ	1C	
SCIDDSPN	14	
SCIDEYEC	F0	C3C9C4
SCIDFLG	9	
SCIDFLG2	A	
SCIDID	0	
SCIDLEN	5	
SCIDNAME	C	
SCIDNVMN	48	
SCIDPJ2	9	20
SCIDREQT	2C	
SCIDSINA	9	10
SCIDSIZE	F0	F0

Table 484. Cross Reference for $SCID (continued)

Name	Offset	Hex Tag
SCIDSORG	20	
SCIDSREC	9	8
SCIDSSNM	10	
SCIDSTCK	2C	
SCIDSTNM	C	
SCIDSUBP	4	
SCIDVACT	A	40
SCIDVRNO	24	
SPUD_ACTIVE_COUNT	C8	
SPUD_CHECK_AREA	C0	
SPUD_DATASET_SIZE	D4	
SPUD_ENQUEUE_COUNT	CC	
SPUD_FREE_ADDR	80	
SPUD_FREE_QUEUE	80	
SPUD_FREE_STOKEN	88	
SPUD_HOLD	90	
SPUD_HOLD_ADDR	90	
SPUD_HOLD_STOKEN	98	
SPUD_LATEST_ADDR	70	
SPUD_LATEST_STOKEN	78	
SPUD_LATEST_VERSION	70	
SPUD_LIVE_ADDR	A0	
SPUD_LIVE_STOKEN	A8	
SPUD_LIVE_VERSION	A0	
SPUD_MAX_VERSIONS	60	

$SCK information

$SCK programming interface information

$SCK is a programming interface.

$SCK heading information

Common name: NJE/TCP Socket

Macro ID: $SCK

DSECT name: SCK

Owning component: JES2 (SC1BH)

Eye-catcher ID: SCK
Offset: SCKID
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: VIRTUAL - anywhere
REAL - anywhere

Size: See SCKLEN

Created by: SOCKDYN service in HASPTCP

Pointed to by: MDCTSCK field of the $DCT data area
$SOCKTBL field of the $HCT data area
SCKNEXT field of the $SCK data area

Serialization: JES2 main task

Function: An SCK describes a TCP/IP socket.

$SCK mapping

Table 485. Structure SCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCK	TCP/IP socket DSECT
0	(0)	CHARACTER	4	SCKID	Control block identifier
0	(0)	X'1'	0	SCKVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	SCKVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	CHARACTER	8	SCKNAME	SCK symbolic name
16	(10)	ADDRESS	4	SCKNEXT	Addr of next SCK
20	(14)	CHARACTER	255	SCKHNAME	IP host name for this socket
275	(113)	CHARACTER	1		
276	(114)	BITSTRING	16	SCKIPAD	IP address (binary)
292	(124)	CHARACTER	16	SCKPORTN	Associated Port Name
308	(134)	SIGNED	2	SCKPORT	Associated Port Number
310	(136)	SIGNED	2	SCKNODE	Node number where socket exists
312	(138)	SIGNED	2	SCKLINE	Dedicated line number
314	(13A)	SIGNED	2	SCKREST	Resistance
316	(13C)	SIGNED	2	SCKSERV	Server DCT number
318	(13E)	BITSTRING	1	SCKFLAG1	Flags
		1...		SCK1SECU	"B'10000000'" Secure socket
		.1..		SCK1DPRT	"B'01000000'" Default port number used
		..1.		SCK1DIP	"B'00100000'" Default IP address used
		...1		SCK1ACT	"B'00010000'" Socket active
		.... 1...		SCK1ANCY	"B'00001000'" Automatically start NJE to this socket
		.... .1..		SCK1ANCN	"B'00000100'" Never automatically start NJE to this socket
		.... ..1.		SCK1NTSV	"B'00000010'" Active with a SERVER
319	(13F)	BITSTRING	1		Reserved
320	(140)	ADDRESS	4	SCKSDCT	Address of NETSRV DCT
324	(144)	ADDRESS	4	SCKLDCT	Address of LINE DCT
328	(148)	SIGNED	4	SCKSKID	Socket id (assigned by IAZNJSTK)
332	(14C)	SIGNED	2	SCKANINT	Restart interval (minutes)
334	(14E)	BITSTRING	2		Reserved
336	(150)	SIGNED	4	SCKANTIM	Disconnect time (STCK)
340	(154)	SIGNED	4		Reserved
344	(158)	ADDRESS	8	SCKCDCT	CDCT address
352	(160)	ADDRESS	4	SCKPCLA	Associated PCL address
356	(164)	SIGNED	4		Reserved
360	(168)	DBL WORD	8	(0)	
360	(168)	X'168'	0	SCKLEN	"*-SCK" LENGTH OF SCK

Table 486. Cross Reference for $SCK

Name	Offset	Hex Tag
SCK	0	
SCKANINT	14C	
SCKANTIM	150	
SCKCDCT	158	
SCKFLAG1	13E	
SCKHNAME	14	
SCKID	0	
SCKIPAD	114	
SCKLDCT	144	
SCKLEN	168	168
SCKLINE	138	
SCKNAME	8	40404040
SCKNEXT	10	
SCKNODE	136	0
SCKPCLA	160	
SCKPORT	134	
SCKPORTN	124	
SCKREST	13A	
SCKSDCT	140	
SCKSERV	13C	
SCKSKID	148	
SCKVRNUM	0	1
SCKVRSN	4	
SCK1ACT	13E	10
SCK1ANCN	13E	4
SCK1ANCY	13E	8
SCK1DIP	13E	20
SCK1DPRT	13E	40
SCK1NTSV	13E	2
SCK1SECU	13E	80

$SCT information

$SCT heading information

Common name: SCT

Macro ID: $SCT

DSECT name: SCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: SCT
Offset: SCTSCTID
Length: L'SCTSCTID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See SCTLEN

Created by: HASPIRMA

Pointed to by: $SCT field of the HCT data area

Serialization: Normal JES2 PCE dispatch serialization

Function: The SCT contains data relevant to the execution of the Spin PCEs. It is used by the Spin PCEs for spin processing related communication.

$SCT mapping

Table 487. Structure SCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCT	
0	(0)	X'1000'	0	SCTLEN	"4096" Length of SCT
0	(0)	CHARACTER	4	SCTSCTID	SCT eyecatcher
4	(4)	ADDRESS	1	SCTVER	SCT version number
4	(4)	X'2'	0	SCTVERN	"2" SCT version
5	(5)	ADDRESS	1	SCTFLAG1	Spin PCE flags
		1...		SCT1TDIS	"B'10000000'" Spin PCE trace disabled
		.1..		SCT1TRCI	"B'01000000'" Trace table initialized
6	(6)	SIGNED	2		Reserved for future use

```
Spin processing count fields. The following counts are
maintained:
  SCTSPPR: Count of all spin IOTs processed. This field
           is incremented by one each time HASPSPIN
           processes a spin IOT from the FIFO queue in the
           HCCT. This includes IOTs for which JOEs are
           built as well as IOTs which are unspun.
  SCTSPUN: Count of all spin IOTs which have been unspun.
  SCTUNPR: Count of all unspun IOTs which have been
           successfully processed for output.
In general: > SCTSPUN = SCTUNPR when no unspun IOTs exist.
            > CCTSPINC = SCTSPPR when no spin IOTs exist
              in the HCCT (CCTSPIOT=CCTFIFOQ=0).
Errors (as reported by $DISTERR) will affect the consistency
of these counts.
```

8	(8)	SIGNED	4	SCTSPPR	Count of spin IOTs proc'd
12	(C)	SIGNED	4	SCTSPUN	Count of spin IOTs unspun
16	(10)	SIGNED	4	SCTUNPR	Count of unspun IOTs proc'd
20	(14)	SIGNED	4		Reserved

```
HASPSPIN Recovery information and parameters.
The time interval values in seconds are used to compare
against the first word of the STCK value. POPs indicates
that bit position 31 of the clock is incremented every
1.048576 seconds. For the purposes of determining abend
intervals this is considered a close enough approximation
of one second.
```

24	(18)	SIGNED	4	SCTABDT	Count of abends - total
32	(20)	DBL WORD	8	SCTABTIM	HASPSPIN abend time marker
32	(20)	X'258'	0	SCT10MIN	"10*60" 10 minutes (in seconds)
32	(20)	X'4B0'	0	SCT20MIN	"20*60" 20 minutes (in seconds)
40	(28)	SIGNED	4	SCTABD20	Count of abends in 20 min.
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	SIGNED	4		Reserved for future use
52	(34)	SIGNED	4		Reserved for future use
56	(38)	SIGNED	4		Reserved for future use
60	(3C)	SIGNED	4		Reserved for future use
64	(40)	DBL WORD	8		Reserved for future use

Table 487. Structure SCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The Spin PCE trace table occupies the remainder of the SCT. Note that a minimum of ten entries are defined. The actual number of entries is a function of the remaining space in the SCT up to the actual size as defined by SCTLEN.			
72	(48)	DBL WORD	8	(0)	
72	(48)	SIGNED	4	SCTTCUR	Addr of current trace entry
76	(4C)	SIGNED	4	SCTTLAST	Addr of last trace entry
80	(50)	DBL WORD	8	(0)	
80	(50)	ADDRESS	4	SCTTTAB(0)	HASPSPIN trace table ** minimum of 10 entries **

Table 488. Structure SCTTRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCTTRENT	
0	(0)	SIGNED	4	SCTTWD0	Spin PCE trace entry word 0
0	(0)	X'0'	0	SCTTTYP0	"0" Trace type 0
0	(0)	X'1'	0	SCTTTYP1	"1" Trace type 1
0	(0)	X'2'	0	SCTTTYP2	"2" Trace type 2
0	(0)	X'3'	0	SCTTTYP3	"3" Trace type 3
0	(0)	X'4'	0	SCTTTYP4	"4" Trace type 4
0	(0)	X'5'	0	SCTTTYP5	"5" Trace type 5
0	(0)	X'6'	0	SCTTTYP6	"6" Trace type 6
4	(4)	SIGNED	4	SCTTWD1	Spin PCE trace entry word 1
8	(8)	SIGNED	4	SCTTWD2	Spin PCE trace entry word 2
12	(C)	SIGNED	4	SCTTWD3	Spin PCE trace entry word 3
16	(10)	SIGNED	4	SCTTWD4	Spin PCE trace entry word 4
20	(14)	SIGNED	4	SCTTWD5	Spin PCE trace entry word 5
24	(18)	SIGNED	4	SCTTWD6	Spin PCE trace entry word 6
28	(1C)	SIGNED	4	SCTTWD7	Spin PCE trace entry word 7
28	(1C)	X'20'	0	SCTTESIZ	"*-SCTTRENT" Size of single trace entry

Table 489. Cross Reference for $SCT

Name	Offset	Hex Tag
SCT	0	
SCTABDT	18	
SCTABD20	28	
SCTABTIM	20	
SCTFLAG1	5	
SCTLEN	0	1000
SCTSCTID	0	E2C3E340
SCTSPPR	8	0
SCTSPUN	C	0
SCTTCUR	48	
SCTTESIZ	1C	20

Table 489. Cross Reference for $SCT (continued)

Name	Offset	Hex Tag
SCTTLAST	4C	
SCTTRENT	0	
SCTTTAB	50	
SCTTTYP0	0	0
SCTTTYP1	0	1
SCTTTYP2	0	2
SCTTTYP3	0	3
SCTTTYP4	0	4
SCTTTYP5	0	5
SCTTTYP6	0	6
SCTTWD0	0	
SCTTWD1	4	
SCTTWD2	8	
SCTTWD3	C	
SCTTWD4	10	
SCTTWD5	14	
SCTTWD6	18	
SCTTWD7	1C	
SCTUNPR	10	0
SCTVER	4	
SCTVERN	4	2
SCT1TDIS	5	80
SCT1TRCI	5	40
SCT10MIN	20	258
SCT20MIN	20	4B0

$SDB information

$SDB programming interface information

The following fields are **NOT** programming interface information:

- SDBAPBL
- SDBDEB
- SDBJFCB
- SDBJFCBE
- SDBPBLAC
- SDBPBLFL
- SDBPBLIN
- SDBRPL
- SDBTCBM
- SDBTCBO
- SDBTRK
- SDBTRKF
- SDBTRKL
- SDBUPRBA

$SDB heading information

Common name: SDB - JES2 Subsystem Dataset Block

Macro ID: $SDB

DSECT name: SDB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SDB '
Offset: SDBID-SDB
Length: 4

Storage attributes: Subpool: 249
Key: 1
Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space of the application that is reading or writing the subsystem dataset represented by this SDB.

Size: See SDBLNG. The actual length will be stored in SDBLENG when the $SDB is created.

Created by: The $SDBINIT service routine and the FGDSALOC routine.

Pointed to by: GCBSDB field of the $GDB data area
SJBSDB field of the $SJB data area
SJXWTCHN field of the $SJXB data area
SDBSDB field of the $SDB data area
SDBWTCHN field of the $SDB data area
DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address

Serialization: HAM uses an SDB lock (with an ENQ) to serialize all puts to the SDB and any authorized functions.

Function: The SDB represents a subsystem dataset. It indicates the state of the dataset (open/closed, input/output, I/O active, etc). It holds pointers to other subsystem control blocks and holds the address (MTTR) of the next available record on SPOOL for output. The chain of buffers needed for I/O is chained to it.

$SDB mapping

Table 490. Structure SDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDB	
0	(0)	BITSTRING	176	SDBSAVE	Save area
176	(B0)	CHARACTER	4	SDBID	SDB IDENTIFIER
180	(B4)	SIGNED	2	SDBLENG	SDB LENGTH
182	(B6)	SIGNED	2	SDBSTMT#	Next STMT number for JESJCL put at conversion time
184	(B8)	SIGNED	4	SDBR14SV	HPMOVE R14 save area
188	(BC)	BITSTRING	1	SDBFLG1	FLAG BYTE 1
		1...		SDB1GET	"B'10000000'" GET ALLOWED
		.1..		SDB1ENQ	"B'01000000'" Exit 9 ENQ obtained
		..1.		SDB1PUT	"B'00100000'" PUT ALLOWED
		...1		SDB1HPUT	"B'00010000'" At least one put done (data set is not null)
		.... 1...		SDB1OUT	"B'00001000'" CARRIAGE CONTROL ALLOWED
		.... .1..		SDB1CLOS	"B'00000100'" Do not get chaining track, data set is closing
		.... ..1.		SDB1ENDR	"B'00000010'" Do not get chaining track, ENDREQ request
		1		SDB1FOPN	"B'00000001'" INIT DATA SET - FAKE-OPENED

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
189	(BD)	BITSTRING	1	SDBFLG2	FLAG BYTE 2
		1...		SDB2IOE	"B'10000000'" Permanent I/O error
		.1..		SDB2VAL	"B'01000000'" Validation error
		..1.		SDB2VDK	"B'00100000'" Data set key mismatch
		...1		SDB2EOD	"B'00010000'" End of data set
		.... 1...		SDB2GLM	"B'00001000'" Locate mode gets allowed
		.... .1..		SDB2DSRS	"B'00000100'" Data set restart- EOD or IOE
		.... ..1.		SDB2XBIN	"B'00000010'" This is batch input unit
		1		SDB2INDX	"B'00000001'" Data set to be/is indexed
190	(BE)	BITSTRING	1	SDBFLGM	Miscellaneous flag byte
		1...		SDBMJML	"B'10000000'" JESMSGLG dataset
		.1..		SDBMJSM	"B'01000000'" JESYSMSG dataset
190	(BE)	X'C0'	0	SDBMSJDS	"SDBMJML+SDBMJSM" Special JES2 data sets
		..1.		SDBMRSKP	"B'00100000'" Records skipped due to I/O error on GET
		...1		SDBEVSKP	"B'00010000'" EVENTLOG records being skipped during GET due to view filtering
		.... 1...		SDBMSPEC	"B'00001000'" Data set requires special processing at conversion I/O time
		.... .1..		SDBOUTPU	"B'00000100'" Last statement processed was OUTPUT
		.... ..1.		SDBNOTIF	"B'00000010'" Last statement processed was NOTFIY
		1		SDBMCNCT	"B'00000001'" Dataset in concatenation
		SDBFLAGY flag byte is used to control instream symbol substitution. See PDBFLAGY for description.			
191	(BF)	BITSTRING	1	SDBFLAGY	Symbol substitution flags for DD * and DD DATA:
192	(C0)	CHARACTER	8	SDBDDNM	DDNAME OF DATA SET
200	(C8)	SIGNED	4	SDBOPNCT	DATA SET OPEN COUNT
		SDBTCBM is always job step TCB. When the job step TCB ends, the SDB is removed. SDBTCBO is the TCB that owns the memory for the SDB. That is normally the Region Control task.			
204	(CC)	ADDRESS	4	SDBTCBM	TCB managing SDB memory
208	(D0)	ADDRESS	4	SDBTCBO	TCB owning the SDB memory
212	(D4)	ADDRESS	4	SDBHCCT	POINTER TO HASP HCCT
216	(D8)	ADDRESS	4	SDBSJB	POINTER TO SJB
220	(DC)	ADDRESS	4	SDBSDB	POINTER TO NEXT SDB OFF SJB
224	(E0)	ADDRESS	4	SDBJFCBE	POINTER TO JFCB EXTENSION
228	(E4)	ADDRESS	4	SDBPIOT	POINTER TO PDDB IOT
232	(E8)	ADDRESS	4	SDBPDDB	POINTER TO PDDB

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	SIGNED	4	SDBPDDBA	ALET of PDDB
		Related data area. SDBCBADR is a related CB CB address and SDBCBALE is the ALET for the related CB. The data area is based on bits in SDBFLG4 or SDBFLG6.			
240	(F0)	SIGNED	4	SDBCBALE	ALET for related CB
244	(F4)	ADDRESS	4	SDBCBADR	Address of related CB
		If SDB6SAPI then related CB is a SAPID			
244	(F4)	X'F0'	0	SDBSAPAL	"SDBCBALE,4,C'F'" ALET for the SAPI data spc
244	(F4)	X'F4'	0	SDBSAPID	"SDBCBADR,4,C'A'" Address of SAPID. The SAPID is in a data space.
		If SDB4IRDR or SDB4NJET related CB is the JRW in the IRWD			
244	(F4)	X'F4'	0	SDBJRW	"SDBCBADR,4,C'A'" Address of JRW.
248	(F8)	DBL WORD	8	(0)	ALIGN SDBTAB ON DOUBLE WORD
248	(F8)	BITSTRING	1	SDBTAB	Major/minor TAB
248	(F8)	X'100'	0	SDBAIOT	"TABAIOT-TAB+SDBTAB,,C'A'" POINT TO ALLOCATION IOT
260	(104)	ADDRESS	4	SDBDEB	Pointer to last DEB that was OPENed
264	(108)	DBL WORD	8	SDBTRKF	FIRST RBA
272	(110)	DBL WORD	8	SDBTRK	RBA OF 1ST LREC IN CURRENT UBF
280	(118)	DBL WORD	8	SDBTRKL	ENDING RBA
288	(120)	CHARACTER	8	SDBKEY(0)	RECORD VERIFICATION KEY --- (must stay as C type for HASCOFST to compile)
288	(120)	BITSTRING	4	SDBJKEY	4-BYTE UNIQUE JOB KEY
292	(124)	BITSTRING	4	SDBDKEY	4-BYTE UNIQUE DS NO. IN JOB
296	(128)	SIGNED	8	SDBSRECN	Record number of DS start
304	(130)	BITSTRING	1	SDBJMEMN	Target job's member number
305	(131)	BITSTRING	1	SDBHPFCT	HPUTFULL call count
306	(132)	SIGNED	2	SDBJASID	TARGET JOB'S ASID (BROWSE)
308	(134)	CHARACTER	8	SDBRCID	8 CHAR RECVR ID FOR BROWSE
316	(13C)	SIGNED	4	SDBLOGAD	ADDR OF BROWSE LOG STRING
320	(140)	BITSTRING	1	SDBFLGAS	Asynchronous flag byte (updates serialized by local lock)
		...1		SDBASJBL	"B'00010000'" Waiting for job buf limit
		.... 1...		SDBASBWT	"B'00001000'" Waiting for buffer (data set or job limit)
321	(141)	BITSTRING	1	SDBFLG3	FLAG BYTE 3
		1...		SDB3NIRB	"B'10000000'" Release TCBNOIRB when SDBLOCK is released
		.1..		SDB3SRBO	"B'01000000'" Do not position to start of UBF. It was SRB obtained
		..1.		SDB3LINE	"B'00100000'" RECORD IS LINE MODE
		...1		SDB3PAGE	"B'00010000'" RECORD IS PAGE DATA
		.... 1...		SDB3OUTX	"B'00001000'" ABEND722 IN PROGRESS

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SDB3PBAD	"B'00000100'" PUT was unsuccessful
		.... ..1.		SDB3PSP	"B'00000010'" HPMOVE spanning record
		1		SDB3BTRC	"B'00000001'" DATASET BLANKS TRUNCATED
322	(142)	BITSTRING	1	SDBFLG4	FLAG BYTE 4
		1...		SDB4PSO	"B'10000000'" PROCESS-SYSOUT DATA SET
		.1..		SDB4SYIN	"B'01000000'" SYSIN DATA SET
		..1.		SDB4SOUT	"B'00100000'" SYSOUT DATA SET
		...1		SDB4RECV	"B'00010000'" DATA SET ALLOCATED FOR RECV
		.... 1...		SDB4SPBR	"B'00001000'" SPOOL BROWSE DATA SET
		.... .1..		SDB4NJET	"B'00000100'" NJE/TCP data set
		.... ..1.		SDB4TNJR	"B'00000010'" NJE/TCP Job Receiver
		1		SDB4IRDR	"B'00000001'" Internal reader data set
323	(143)	BITSTRING	1	SDBFLG5	FLAG BYTE 5 SERIALIZATION: NONE (DO NOT USE IN SIO OR CHANNEL END APPENDAGES)
		1...		SDB5ASY	"B'10000000'" Asynchronous request
		.1..		SDB5OUTL	"B'01000000'" OUTLIM exceeded for normal PUT request
		..1.		SDB5SBNS	"B'00100000'" Spool browse - Do not attempt SRB for this DS (no more data available)
		.... 1...		SDB5ADFR	"B'00001000'" Defer excession limit ABEND (set during close)
		.... .1..		SDB5ABND	"B'00000100'" ABEND for output limit excession (Never reset)
		.... ..1.		SDB5ADMP	"B'00000010'" A DUMP is requested for the 722 ABEND (Never reset)
		1		SDB5ADON	"B'00000001'" An ABEND 722 has been for this data set (reset if a second ABEND is needed)
324	(144)	BITSTRING	1	SDBFLG6	Flag byte 6
		1...		SDB6SAPI	"B'10000000'" Sysout API data set This serves as a modifier of SDB4PSO
		.1..		SDB6GONE	"B'01000000'" SAPID has been freed
		..1.		SDB6PRT	"B'00100000'" Print data set
		...1		SDB6PUN	"B'00010000'" Punch data set
		.... 1...		SDB6TCL	"B'00001000'" Track cell data set
		.... .1..		SDB6FTRK	"B'00000100'" Full track despool data set
		.... ..1.		SDB6NSRB	"B'00000010'" No SRBs for this data set
		1		SDB6UPDG	"B'00000001'" Update mode GET active
325	(145)	BITSTRING	1	SDBFLG7	Flag byte 7
		1...		SDB7PUT1	"B'10000000'" Indicate first put is done in a segment
		.1..		SDB7SPIN	"B'01000000'" SPIN is required for segmentation
		..1.		SDB7SUPD	"B'00100000'" Segmentation is suspended

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SDB7NULL	"B'00010000'" PDB1NULL was on when data set (fake) opened
		.... 1...		SDB7JLOG	"B'00001000'" Joblog data set (set only if SPOOL browse SDB)
		.... .1..		SDB7JRPL	"B'00000100'" Extended JES2 mode RPL in use
		.... ..1.		SDB7KSET	"B'00000010'" Callers KEY is already set in SDB (do not reset)
		1		SDB7SPC	"B'00000001'" Data set spinning support via $SPIN
		SDB7PSCR indicates SCRs are to be processed as normal records. This bit is only honored if an extended RPL is passed (SDB7JRPL is on). Processing is altered as follows: GET - SCRs are returned to the caller. RPLH1SCR is set if the current record is an SCR.			
		1		SDB7PSCR	"B'00000001'" GET - Request SCRs returned
		The flag bits in SDBFLG8 are used to document why an open failed in the HASP708 message.			
326	(146)	BITSTRING	1	SDBFLG8	Flag byte 8
		1...		SDB8TRAK	"B'10000000'" Internal $TRAK error
		.1..		SDB8CBIO	"B'01000000'" Internal $CBIO error
		..1.		SDB8GASN	"B'00100000'" $GASSIGN error
		...1		SDB8SJFR	"B'00010000'" SJFREQ error
		.... .1..		SDB8GETB	"B'00000100'" GETBUF failure
		.... ..1.		SDB8NRA	"B'00000010'" Suspend read ahead
327	(147)	BITSTRING	1	SDBFLG9	Flag byte 9 serialization: none
		1...		SDB9SCR	"B'10000000'" Do not skip SCRs in HAMGET processing
		.1..		SDB9TYP1	"B'01000000'" Logical data set being processed-JCL, JOBLOG..
		..1.		SDB9TYP2	"B'00100000'" This is logical file, Use SCRINSJL/RJL SCRs to determine next MTTR
		...1		SDB9TRAK	"B'00010000'" Put update has been tracked
328	(148)	ADDRESS	4	SDBDSCA	DSCA chain pointer
332	(14C)	ADDRESS	4	SDBDSCAW	Working DSCA CB address
336	(150)	ADDRESS	4	SDBDSCE	Current DSCE address
340	(154)	ADDRESS	4	SDBCDSCE	Channel end DSCE address
344	(158)	ADDRESS	4	SDBSJIOB	SJIOB for CBIO
348	(15C)	ADDRESS	4	SDBJFCB	Pointer to JFCB
352	(160)	DBL WORD	8	(0)	Ensure doubleword alignment
352	(160)		8	SDBOUTLM	SYSOUT OUTLIM= PARAMETER
352	(160)	X'160'	0	SDBPRECN	"SDBOUTLM,8,C'D'" Prev record number (POINT)
360	(168)	ADDRESS	4	SDBWTCHN	Buffer wait chain
364	(16C)	SIGNED	4	SDBSGMT	NUMBER OF LOGICAL PAGES PER SEGMENT
368	(170)	SIGNED	4	SDBSEGID	SEGMENT IDENTIFIER

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	SIGNED	4	SDBPGCT	Logical page counter use for segmentation
376	(178)	DBL WORD	8	SDBOWNER	Owning TCB information
376	(178)	X'170'	0	SDBTTOKN	"SDBOWNER-8,16" TCB Token placed here at SDB Free time; not formatted in dump
384	(180)	BITSTRING	1	SDBCPSWK	Caller PSW byte 1 (key)
385	(181)	BITSTRING	1		Reserved
386	(182)	SIGNED	1	SDBGETCT	PROTGET count (number of calls without a point)
387	(183)	SIGNED	1	SDBSRBCT	PROTSRB count (number of SRB calls in a row)
388	(184)	SIGNED	4	SDBSRECB	Waiter ECB
388	(184)	X'4'	0	SDBIVSDB	"4" POST code if SDB no longer OPEN.
392	(188)	ADDRESS	4	SDBBAT	GET processing BAT chain
396	(18C)	SIGNED	4	SDBBATCT	GET BAT count
		SDBGMTTR is the next track address that needs to be read for this data set. If this field is zero, that does not imply that we are done reading the data set. It is zero if we are waiting for an I/O to complete. An EXCPVR needs to be issued if: - SDBGMTTR is non-zero - SDBPBLIN is non-zero - There is a BAT (on the SDBBAT chain) that does not have I/O active.			
400	(190)	DBL WORD	8	SDBGMTTI(0)	Next MTTR and flags
400	(190)	SIGNED	4	SDBGMTTR	Next MTTR for GET to read
404	(194)	BITSTRING	2		Reserved for MQTR
406	(196)	BITSTRING	1	SDBGMFG1	Migration I/O flags
		1...		SDBG1MPR	"B'10000000'" This MTTR processed for migration
		.1..		SDBG1SOV	"B'01000000'" Source override - use source DAS for I/O
407	(197)	BITSTRING	1	SDBGMIGT	Migration transition count captured from DAS when I/O is queued
408	(198)	DBL WORD	8	SDBINPBL(0)	--+ Align for CDS/CSG
408	(198)	SIGNED	4	SDBINPBC	| Count of chain updates
412	(19C)	ADDRESS	4	SDBPBLIN	--+ GET inactive PBLOCK chain
416	(1A0)	DBL WORD	8	(0)	--+ Align for CDS
416	(1A0)	ADDRESS	4	SDBPBLAC	| GET active PBLOCK chain
420	(1A4)	ADDRESS	4	SDBPBLFL	--+ GET full PBLOCK chain
424	(1A8)	SIGNED	4	SDBPBLCT	GET PBLOCK count
428	(1AC)	SIGNED	4	SDBPBUFC	GET buffer count in PBLKs
432	(1B0)	ADDRESS	4	SDBAPBL	Current PBLOCK
436	(1B4)	ADDRESS	4	SDBAMTRE	Current MTTR entry
440	(1B8)	CHARACTER	12	SDBENQNM	SDB lock minor name
		MACRO-DATE = 03/16/15			
452	(1C4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
452	(1C4)	X'1C4'	0	SDBENQ	"*" X02113
452	(1C4)	ADDRESS	1		PELLAST flag byte. X02113

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
453	(1C5)	ADDRESS	1		PELMILEN - RNAME length.
454	(1C6)	BITSTRING	1		
				PELFLAG - flag byte 2.	
455	(1C7)	ADDRESS	1		PELRET - return code byte.
456	(1C8)	ADDRESS	4		QNAME ADDRESS
460	(1CC)	ADDRESS	4		RNAME ADDRESS
460	(1CC)	X'C'	0	SDBENQL	"*-SDBENQ"
464	(1D0)	ADDRESS	4	SDBUSER1	RESERVED FOR USER
468	(1D4)	ADDRESS	4	SDBUSER2	RESERVED FOR USER
472	(1D8)	SIGNED	4	SDBISTDS	Current instream data set number (initialized to 1)
		BUFFER POINTERS USED BY HAM (USE DEPENDENT ON TYPE OF I/O REQUEST BEING PROCESSED)			
476	(1DC)	ADDRESS	4	SDBUBF	Input - Unprotected buffer
480	(1E0)	ADDRESS	4	SDBPBF	Protected buffer address
484	(1E4)	ADDRESS	4	SDBSCDR	SPOOL data record in PBF
488	(1E8)	ADDRESS	4	SDBPBFS	PBUF save area (Put update)
492	(1EC)	ADDRESS	4	SDBSCDRS	SCDR save area (Put update)
496	(1F0)	SIGNED	4	SDBPBFCS(0)	----+ Keep next fields together
496	(1F0)	SIGNED	2	SDBPBFAC	| PUT - PBF active count
498	(1F2)	SIGNED	2	SDBPBFCT	----+ PUT - PBF obtained buffers
500	(1F4)	BITSTRING	1	SDBASKEY	Async requestor's key
501	(1F5)	BITSTRING	1	SDBASREQ	Async last request type
502	(1F6)	SIGNED	2	SDBPBFLM	PUT - PBF buffer limit
504	(1F8)	ADDRESS	4	SDBPBFIN	PUT - PBF on it's way from SDBPBF to PBUF chain
508	(1FC)	ADDRESS	4	SDBDSIX	DSIX pointer
512	(200)	ADDRESS	4	SDBCDSXE	Current DSXE pointer
516	(204)	ADDRESS	4	SDBYSUBF	Buffer used for instream symbol substitution
520	(208)	SIGNED	8	SDBRECN	Current record number
		SDBRPL is used for asynch, locate mode requests			
528	(210)	ADDRESS	4	SDBRPL	Pointer to active RPL chain
532	(214)	SIGNED	4	SDBXCPCT	PHYSICAL BUFFER I/O COUNT
536	(218)	DBL WORD	8	SDBUPRBA	RBA FOR GET/PUT-UPDATE & POINT
544	(220)	DBL WORD	8	SDBURBAS	POINT RBA save area
552	(228)	BITSTRING	6	SDBPTIME	Time stamp for POINT
558	(22E)	BITSTRING	1	SDBFLGP	POINT flag byte
		1...		SDBPPNT	"B'10000000'" Point operation active
		.1..		SDBPRTOK	"B'01000000'" Point operation retryable
		..1.		SDBPRTRY	"B'00100000'" Point retry not attempted
		...1		SDBPTIMN	"B'00010000'" Point by next time
		.... 1...		SDBPTIMP	"B'00001000'" Point by previous time

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
559	(22F)	BITSTRING	1		Reserved
560	(230)	SIGNED	4	SDBHFRCT	HFINDRBA residual count
564	(234)	SIGNED	4	SDBMTTR	MTTR OF NEXT BLOCK
568	(238)	ADDRESS	4	SDBASECB	Address of async ECB
572	(23C)	SIGNED	4	SDBNBLK	NUMBER OF DATA BLOCKS READ
576	(240)	SIGNED	4	SDBBFECB	WAIT-BUF ECB FOR SVCPUTS
580	(244)	ADDRESS	4	SDBYLGC	Ptr to logging YLGC
584	(248)	DBL WORD	8	SDBDWORK	Doubleword work area
592	(250)	DBL WORD	8	SDBDWRK2	Doubleword work area
592	(250)	X'248'	0	SDBWRK16	"SDBDWORK,16" 16 byte work area
600	(258)	BITSTRING	7	SDBSCDRQ	SCDR work area
607	(25F)	BITSTRING	1		Reserved
608	(260)	BITSTRING	6	SDBIOTMQ	MQTR of PDDB IOT
614	(266)	BITSTRING	2	SDBLGDSV(0)	HAM GET logical data set view types requested
614	(266)	BITSTRING	1	SDBLGDV1	logical dataset view type1
615	(267)	BITSTRING	1	SDBLGDV2	logical dataset view type2
	Packed decimal versions of count fields				
616	(268)		8	SDBDRECD	Logical record count in packed decimal format
624	(270)		8	SDBDPAGE	Actual page count in packed decimal format
632	(278)		8	SDBDBYTE	Actual byte count in packed decimal format
	Binary versions of count fields (for PDDB)				
640	(280)	SIGNED	4	SDBRECCT	Logical record count
644	(284)	SIGNED	4	SDBPAGCT	Actual page count
648	(288)	SIGNED	4	SDBBYTCT	Actual byte count
652	(28C)	ADDRESS	4	SDBSPC	Address of spin control
	PDDB pending update section. When the buffer whose address is specified is seen in the channel end appendage, the corresponding counts are updated in the PDDB.				
656	(290)	SIGNED	4	SDBPNCNT	Buffers updates since last PDDB update
660	(294)	BITSTRING	4	SDBPNMTT	Buffer address
664	(298)	SIGNED	4	SDBPNREC	Logical record count
668	(29C)	SIGNED	4	SDBPNPAG	Actual page count
672	(2A0)	SIGNED	4	SDBPNBYT	Actual byte count
676	(2A4)	ADDRESS	4	SDBLCKRB	RB pointer used by PGEXCPCK
	SPOOL compression/Encryption section				
680	(2A8)	BITSTRING	32	SDBRECPR	Record prefix section - built by put code and supplied to service
712	(2C8)	BITSTRING	1	SDBFLGA	Flag byte A
		1...		SSBACOMP	"B'10000000'" Compress only

Table 490. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SSBAENCR	"B'01000000'" Encrypt only
		..1.		SSBABOTH	"B'00100000'" Compress and encrypt
713	(2C9)	BITSTRING	15		Reserved
		Diagnostic area for unwritten buffer processing. The following are input areas passed to the SRB.			
728	(2D8)	SIGNED	4	SDBMTTRT	Target MTTR
732	(2DC)	ADDRESS	4	SDBFSDB	SDB address given to SRB
736	(2E0)	DBL WORD	8	SDBBKEY	Unique buffer key
744	(2E8)	ADDRESS	4	SDBSTKN	STOKEN given to IEAMSCHD
		The following are output fields from the SRB.			
748	(2EC)	SIGNED	4	SDBRETC	Return code from PROTSRB
752	(2F0)	BITSTRING	0	SDBSRBOA(0)	Output area from HASCUBSR. Keep fields SDBSDBA thru SDBBPTFA together.
752	(2F0)	ADDRESS	4	SDBSDBA	---+ A(SDB) that matches the key
756	(2F4)	ADDRESS	4	SDBAPBF	| SDBPBF
760	(2F8)	ADDRESS	4	SDBPBFI	| Inflight PBF buffer address
764	(2FC)	ADDRESS	4	SDBBPTR	| Address of found buffer
768	(300)	SIGNED	4	SDBBTRK	| MTTR of found buffer
772	(304)	ADDRESS	4	SDBBADBF	| Address of invalid buffer
776	(308)	ADDRESS	4	SDBADSDB	| Address of invalid SDB
780	(30C)	ADDRESS	4	SDBBPBF	| BATPBF if checking this Q
784	(310)	ADDRESS	4	SDBBPTFA	---+ BATPBFA if checking this Q
784	(310)	X'24'	0	SDBSOLEN	"*-SDBSDBA" L'(PROTSRB) diagnostic area
		ASOK fields.			
788	(314)	BITSTRING	8	SDBASOK(0)	ASOK fields
790	(316)	SIGNED	2	SDBASOKO	Ordinality of ASOK L1
792	(318)	SIGNED	2	SDBASOK1	Offset into Level 1 ASOK
794	(31A)	SIGNED	2	SDBASOK2	Offset into Level 2 ASOK
796	(31C)	SIGNED	4		Reserved for future use
		Copy of RPL when SDB is locked (if any)			
800	(320)	DBL WORD	8	(0)	
800	(320)	BITSTRING	56	SDBRPLC	Copy of RPL
		Reserved space			
856	(358)	ADDRESS	4	SDBDSEL	Address of DSETLVL
856	(358)	X'380'	0	SDBLNG	"((*-SDB+127)/128)*128" Length of DSECT

Table 491. Structure ASOK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASOK	

Table 491. Structure ASOK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	ASOEYE	Eye catcher ASOK level 1
4	(4)	ADDRESS	4	ASONEXT	Addr of next level 1 ASOK
8	(8)	ADDRESS	4	ASOPTR(0)	Addresses of level 2 ASOKs
8	(8)	X'4'	0	ASOELEN1	"4" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'3FE'	0	ASONRL1	"1022" Number of L1 entries
8	(8)	X'1000'	0	ASOLENL1	"8+ASOELEN1*ASONRL1" Length of L1 ASOKs
DC C'ASO2' Eye catcher level 2 ASOK					
4	(4)	ADDRESS	4	ASOCOUNT	Count of available entries
8	(8)	ADDRESS	4	ASOSDB(0)	Addresses of SDBs
8	(8)	X'8'	0	ASOELEN2	"8" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'1FF'	0	ASONRL2	"511" Number of L2 entries
8	(8)	X'1000'	0	ASOLENL2	"8+ASOELEN2*ASONRL2" Length of L2 ASOKs
8	(8)	X'8'	0	ASOIRWD	"ASOSDB,4,C'A'" Addresses of IRWDs

Table 492. Cross Reference for $SDB

Name	Offset	Hex Tag
ASOCOUNT	4	
ASOELEN1	8	4
ASOELEN2	8	8
ASOEYE	0	C1E2D6F1
ASOIRWD	8	8
ASOK	0	
ASOLENL1	8	1000
ASOLENL2	8	1000
ASONEXT	4	
ASONRL1	8	3FE
ASONRL2	8	1FF
ASOPTR	8	
ASOSDB	8	
SDB	0	
SDBADSDB	308	
SDBAIOT	F8	100
SDBAMTRE	1B4	
SDBAPBF	2F4	
SDBAPBL	1B0	
SDBASBWT	140	8
SDBASECB	238	
SDBASJBL	140	10
SDBASKEY	1F4	
SDBASOK	314	
SDBASOKO	316	
SDBASOK1	318	

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBASOK2	31A	
SDBASREQ	1F5	
SDBBADBF	304	
SDBBAT	188	
SDBBATCT	18C	
SDBBFECB	240	
SDBBKEY	2E0	
SDBBPBF	30C	
SDBBPTFA	310	
SDBBPTR	2FC	
SDBBTRK	300	
SDBBYTCT	288	
SDBCBADR	F4	
SDBCBALE	F0	
SDBCDSCE	154	
SDBCDSXE	200	
SDBCPSWK	180	
SDBDBYTE	278	
SDBDDNM	C0	
SDBDEB	104	
SDBDKEY	124	
SDBDPAGE	270	
SDBDRECD	268	
SDBDSCA	148	
SDBDSCAW	14C	
SDBDSCE	150	
SDBDSEL	358	
SDBDSIX	1FC	
SDBDWORK	248	
SDBDWRK2	250	
SDBENQ	1C4	1C4
SDBENQL	1CC	C
SDBENQNM	1B8	E2C4C24B
SDBEVSKP	BE	10
SDBFLAGY	BF	
SDBFLGA	2C8	
SDBFLGAS	140	
SDBFLGM	BE	
SDBFLGP	22E	
SDBFLG1	BC	
SDBFLG2	BD	
SDBFLG3	141	
SDBFLG4	142	
SDBFLG5	143	
SDBFLG6	144	
SDBFLG7	145	

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBFLG8	146	
SDBFLG9	147	
SDBFSDB	2DC	
SDBGETCT	182	
SDBGMFG1	196	
SDBGMIGT	197	
SDBGMTTI	190	
SDBGMTTR	190	
SDBG1MPR	196	80
SDBG1SOV	196	40
SDBHCCT	D4	
SDBHFRCT	230	
SDBHPFCT	131	
SDBID	B0	
SDBINPBC	198	
SDBINPBL	198	
SDBIOTMQ	260	
SDBISTDS	1D8	
SDBIVSDB	184	4
SDBJASID	132	
SDBJFCB	15C	
SDBJFCBE	E0	
SDBJKEY	120	
SDBJMEMN	130	
SDBJRW	F4	F4
SDBKEY	120	
SDBLCKRB	2A4	
SDBLENG	B4	
SDBLGDSV	266	
SDBLGDV1	266	
SDBLGDV2	267	
SDBLNG	358	380
SDBLOGAD	13C	
SDBMCNCT	BE	1
SDBMJML	BE	80
SDBMJSM	BE	40
SDBMRSKP	BE	20
SDBMSJDS	BE	C0
SDBMSPEC	BE	8
SDBMTTR	234	
SDBMTTRT	2D8	
SDBNBLK	23C	
SDBNOTIF	BE	2
SDBOPNCT	C8	
SDBOUTLM	160	
SDBOUTPU	BE	4

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBOWNER	178	
SDBPAGCT	284	
SDBPBF	1E0	
SDBPBFAC	1F0	
SDBPBFCS	1F0	
SDBPBFCT	1F2	
SDBPBFI	2F8	
SDBPBFIN	1F8	
SDBPBFLM	1F6	
SDBPBFS	1E8	
SDBPBLAC	1A0	
SDBPBLCT	1A8	
SDBPBLFL	1A4	
SDBPBLIN	19C	
SDBPBUFC	1AC	
SDBPDDB	E8	
SDBPDDBA	EC	
SDBPGCT	174	
SDBPIOT	E4	
SDBPNBYT	2A0	
SDBPNCNT	290	
SDBPNMTT	294	
SDBPNPAG	29C	
SDBPNREC	298	
SDBPPNT	22E	80
SDBPRECN	160	160
SDBPRTOK	22E	40
SDBPRTRY	22E	20
SDBPTIME	228	
SDBPTIMN	22E	10
SDBPTIMP	22E	8
SDBRCID	134	
SDBRECCT	280	
SDBRECN	208	
SDBRECPR	2A8	
SDBRETC	2EC	
SDBRPL	210	
SDBRPLC	320	
SDBR14SV	B8	
SDBSAPAL	F4	F0
SDBSAPID	F4	F4
SDBSAVE	0	
SDBSCDR	1E4	
SDBSCDRQ	258	
SDBSCDRS	1EC	
SDBSDB	DC	

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBSDBA	2F0	
SDBSEGID	170	
SDBSGMT	16C	
SDBSJB	D8	
SDBSJIOB	158	
SDBSOLEN	310	24
SDBSPC	28C	
SDBSRBCT	183	
SDBSRBOA	2F0	
SDBSRECB	184	
SDBSRECN	128	
SDBSTKN	2E8	
SDBSTMT#	B6	
SDBTAB	F8	
SDBTCBM	CC	
SDBTCBO	D0	
SDBTRK	110	
SDBTRKF	108	
SDBTRKL	118	
SDBTTOKN	178	170
SDBUBF	1DC	
SDBUPRBA	218	
SDBURBAS	220	
SDBUSER1	1D0	
SDBUSER2	1D4	
SDBWRK16	250	248
SDBWTCHN	168	
SDBXCPCT	214	
SDBYLGC	244	
SDBYSUBF	204	
SDB1CLOS	BC	4
SDB1ENDR	BC	2
SDB1ENQ	BC	40
SDB1FOPN	BC	1
SDB1GET	BC	80
SDB1HPUT	BC	10
SDB1OUT	BC	8
SDB1PUT	BC	20
SDB2DSRS	BD	4
SDB2EOD	BD	10
SDB2GLM	BD	8
SDB2INDX	BD	1
SDB2IOE	BD	80
SDB2VAL	BD	40
SDB2VDK	BD	20
SDB2XBIN	BD	2

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDB3BTRC	141	1
SDB3LINE	141	20
SDB3NIRB	141	80
SDB3OUTX	141	8
SDB3PAGE	141	10
SDB3PBAD	141	4
SDB3PSP	141	2
SDB3SRBO	141	40
SDB4IRDR	142	1
SDB4NJET	142	4
SDB4PSO	142	80
SDB4RECV	142	10
SDB4SOUT	142	20
SDB4SPBR	142	8
SDB4SYIN	142	40
SDB4TNJR	142	2
SDB5ABND	143	4
SDB5ADFR	143	8
SDB5ADMP	143	2
SDB5ADON	143	1
SDB5ASY	143	80
SDB5OUTL	143	40
SDB5SBNS	143	20
SDB6FTRK	144	4
SDB6GONE	144	40
SDB6NSRB	144	2
SDB6PRT	144	20
SDB6PUN	144	10
SDB6SAPI	144	80
SDB6TCL	144	8
SDB6UPDG	144	1
SDB7JLOG	145	8
SDB7JRPL	145	4
SDB7KSET	145	2
SDB7NULL	145	10
SDB7PSCR	145	1
SDB7PUT1	145	80
SDB7SPC	145	1
SDB7SPIN	145	40
SDB7SUPD	145	20
SDB8CBIO	146	40
SDB8GASN	146	20
SDB8GETB	146	4
SDB8NRA	146	2
SDB8SJFR	146	10
SDB8TRAK	146	80

Table 492. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDB9SCR	147	80
SDB9TRAK	147	10
SDB9TYP1	147	40
SDB9TYP2	147	20
SSBABOTH	2C8	20
SSBACOMP	2C8	80
SSBAENCR	2C8	40

$SFRB information

$SFRB programming interface information

$SFRB is a programming interface.

$SFRB heading information

Common name: Scheduler Facility Request Block

Macro ID: $SFRB

DSECT name: SFRB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SFRB'
Offset: SFRBID-SFRB
Length: 4

Storage attributes: Subpool: 231 (ECSA)
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.

Size: SFRHSZE - Header size
SFRMRSZ - Size of Modify function area

Created by: Scheduler JCL Facility Services (routine SSISFS)

Pointed to by: CCTSFREQ field of the $HCCT data area
CCTSFPNQ field of the $HCCT data area
CCTSFPRQ field of the $HCCT data area
SFRBNXT field of the $SFRB data area
SFRBLIFO field of the $SFRB data area
TRESFRB field of the $TRE data area
SSWSFRB field of the $SFSWORK data area

Serialization: USe of separate queues (Request/Pending/Processing).
Use of CDS to serialize the use of the Request queue.

Function: This macro provides the mapping of the request block used as an interface between the Scheduler Facility Services SSI and PCE Processor.
This request block will be on one of three queues as noted above under 'POINTED TO BY'.

$SFRB mapping

Table 493. Structure SFRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SFRB	
0	(0)	X'0'	0	SFRBGN	"*"
0	(0)	CHARACTER	4	SFRBID	Acronym set to 'SFRB'
4	(4)	ADDRESS	1	SFRBVER	Version number of SFRB
		1		SFRBCVR	"X'01'" Current version no.of SFRB

Table 493. Structure SFRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	SFRBRSV1	Reserved
6	(6)	SIGNED	2	SFRBRSV2	Reserved
8	(8)	SIGNED	4	SFRBNXT	Next SFRB block
12	(C)	SIGNED	4	SFRBLIFO	Next SFRB (in LIFO order)
		Flag byte input from caller to function rtn Bits defined in function dependent area			
16	(10)	BITSTRING	1	SFRFFLG	Function Request Flag
		Indicator byte for $BLDMSG processing of msgs			
17	(11)	BITSTRING	1	SFRBMSGI	Indicator byte for $BLDMSG
		Flag byte to footprint processing of block			
18	(12)	BITSTRING	1	SFRFLG1	Flag Byte
		1...		SFR1PROC	"B'10000000'" Process Indicator
		.1..		SFR1SUBT	"B'01000000'" Block given to subtask
		..1.		SFR1ERR	"B'00100000'" Error occurred
		...1		SFR1JBLK	"B'00010000'" Job lock acquired
		.... 1...		SFR1JOEB	"B'00001000'" JOE made busy
		.... .1..		SFR1MSGP	"B'00000100'" Awaiting resources msg sent
		Status byte to indicate status of request			
19	(13)	BITSTRING	1	SFRSTAT	Status Byte
		.1..		SFRSFINI	"B'01000000'" Processing Complete
		..1.		SFRSSCOM	"B'00100000'" Subtask completed block
20	(14)	SIGNED	4	SFRRC	Return code for subtask
24	(18)	SIGNED	4	SFRCKTKN	Checkpoint token
28	(1C)	ADDRESS	4	SFRSQD	SQD pointer
32	(20)	ADDRESS	4	SFRTOKN	Address of UTOKEN
36	(24)	CHARACTER	8	SFRRJOBI	Requestor jobid
44	(2C)	CHARACTER	8	SFRRJOBN	Requestor jobname
52	(34)	CHARACTER	8	SFRTIME(0)	Time Stamp of request
52	(34)	SIGNED	4	SFRCTME	Significant part of time
56	(38)	SIGNED	4	SFRISTM	INSIGNIFICANT PART OF TIME
60	(3C)	CHARACTER	8	SFRFTIM	Time Stamp of GETLOK failure
60	(3C)	X'44'	0	SFRHSZE	"*-SFRBGN" Header size
		Specific function request data area begins here			
60	(3C)	X'44'	0	SFRBFOR	"*" Functional area origin
		Specific function request bit definitions for Flag byte SFRFFLG Bit definitions should correspond to input flag SSSFFLG1 in macro IAZSSSF and in X045FLG1 in $XPL.			
		1...		SFRFDES	"B'10000000'" Destination Check Request
		.1..		SFRFSECL	"B'01000000'" Seclabel check request

Table 493. Structure SFRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SFRFJSSP	"B'00100000'" JESSPOOL check (default)
		Modify request data			
68	(44)	SIGNED	2	SFRMREA	Reason code for Modify rtn
70	(46)	SIGNED	2		Reserved
72	(48)	SIGNED	4	SFRJBNUM	Converted job number
76	(4C)	SIGNED	4	SFRODP	ODPARM pointer
80	(50)	SIGNED	4	SFRJOEP	JOE pointer
		The following area corresponds to modify request area in the SSOB extension IAZSSSF			
84	(54)	CHARACTER	8	SFRJBNM	JOBNAME
92	(5C)	CHARACTER	8	SFRJBID	JOBID
100	(64)	CHARACTER	8	SFRGRPN	Output group name
108	(6C)	SIGNED	2	SFRGRP1	Output group - first ID
110	(6E)	SIGNED	2	SFRGRP2	Output group - second ID
112	(70)	SIGNED	4	SFRMRSV2	Reserved
116	(74)	CHARACTER	8	SFRCART	CART for WTO responses
124	(7C)	SIGNED	4	SFRCNID	Console ID for WTO responses Output descriptor lists are SWBTU/TU format as required SCHEDULER JCL facility (SJF)
128	(80)	ADDRESS	4	SFRMDAD	Address of Modify list in SWBTU format
132	(84)	ADDRESS	4	SFRERAD	Address of Erase list in TU format
136	(88)	SIGNED	2	SFRMDLN	Length of Modify list(SWBTU)
138	(8A)	SIGNED	2	SFRERLN	Length of Erase list (TU)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	X'4C'	0	SFRMRSZ	"*-SFRMOD" Size of modify function area

Table 494. Cross Reference for $SFRB

Name	Offset	Hex Tag
SFRB	0	
SFRBCVR	4	1
SFRBFOR	3C	44
SFRBGN	0	0
SFRBID	0	E2C6D9C2
SFRBLIFO	C	
SFRBMSGI	11	
SFRBNXT	8	
SFRBRSV1	5	
SFRBRSV2	6	
SFRBVER	4	
SFRCART	74	
SFRCKTKN	18	
SFRCNID	7C	

Table 494. Cross Reference for $SFRB (continued)

Name	Offset	Hex Tag
SFRCTME	34	
SFRERAD	84	
SFRERLN	8A	
SFRFDES	3C	80
SFRFFLG	10	
SFRFJSSP	3C	20
SFRFLG1	12	
SFRFSECL	3C	40
SFRFTIM	3C	
SFRGRPN	64	
SFRGRP1	6C	
SFRGRP2	6E	
SFRHSZE	3C	44
SFRISTM	38	
SFRJBID	5C	
SFRJBNM	54	
SFRJBNUM	48	
SFRJOEP	50	
SFRMDAD	80	
SFRMDLN	88	
SFRMREA	44	
SFRMRSV2	70	
SFRMRSZ	90	4C
SFRODP	4C	
SFRRC	14	
SFRRJOBI	24	
SFRRJOBN	2C	
SFRSFINI	13	40
SFRSQD	1C	
SFRSSCOM	13	20
SFRSTAT	13	
SFRTIME	34	
SFRTOKN	20	
SFR1ERR	12	20
SFR1JBLK	12	10
SFR1JOEB	12	8
SFR1MSGP	12	4
SFR1PROC	12	80
SFR1SUBT	12	40

$SFRWORK information

$SFRWORK programming interface information

$SFRWORK is a programming interface.

$SFRWORK heading information

Common name:	JES2 Scheduler Services PCE Work Area
Macro ID:	$SFRWORK
DSECT name:	PCE ($SFRWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SRWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$SFSPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Scheduler Services Processor and by its support routines and exits. $SFRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SFRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESFSID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SFRWORK mapping

Table 495. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	1	SRWFLG1	Processing flag
		1...		SRW1ACTV	"B'10000000'" PCE active indicator
		.1..		SRW1RCVY	"B'01000000'" Recovery situation
		..1.		SRW1SNXT	"B'00100000'" Use SFRB NXT (FIFO) chain
329	(149)	BITSTRING	3	SRWRSV1	Reserved for IBM use
332	(14C)	SIGNED	2	SRWREQCT	Count of lost request blks
334	(14E)	SIGNED	2	SRWABEND	Count of abends
334	(14E)	X'3'	0	SRWLIMIT	"3" Reasonable limit of abends
336	(150)	SIGNED	4	(0)	
336	(150)	BITSTRING	16	SRWTQE	Timer Queue Element
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'18'	0	SFRPCEWL	"*-PCEWORK" LENGTH OF SCHED. SERVICE WORK AREA

Table 496. Cross Reference for $SFRWORK

Name	Offset	Hex Tag
PCE	0	
SFRPCEWL	160	18
SRWABEND	14E	
SRWFLG1	148	

Table 496. Cross Reference for $SFRWORK (continued)

Name	Offset	Hex Tag
SRWLIMIT	14E	3
SRWREQCT	14C	
SRWRSV1	149	
SRWTQE	150	
SRW1ACTV	148	80
SRW1RCVY	148	40
SRW1SNXT	148	20

$SFSWORK information

$SFSWORK heading information

Common name: - HASP Scheduler Facility Service SSI work area dsect.

Macro ID: $SFSWORK

DSECT name: SFSWORK

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SFSW'
Offset: SSWID-SFSWORK
Length: 4

Storage attributes: Subpool: 229
Key: 1
Residency: Virtual and Real storage are anywhere (above or below 16M) in the User address space.

Size: See SSWWLEN

Created by: Scheduler Services SSI

Pointed to by: N/A

Serialization: None

Function: This DSECT provides the work area required by the JES2 Scheduler Facility Service SSI.

$SFSWORK mapping

Table 497. Structure SFSWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SFSWORK	Scheduler Service Work Area
0	(0)	CHARACTER	4	SSWID	Eyecatcher for SFSWork
4	(4)	SIGNED	4	SSWTOTL	Total length of storage acquired.
		Area of block addresses used by the routine			
8	(8)	ADDRESS	4	SSWTRE	Addr of SSI TRE
12	(C)	ADDRESS	4	SSWSFRB	Addr of SFRB
16	(10)	ADDRESS	4	SSWIOT	Addr of IOT
		Storage needed for token extract			
20	(14)	ADDRESS	4	SSWWAVE	Addr of the WAVE
24	(18)	ADDRESS	4	SSWTOKN	Addr of the User Token
		Parameter input for SSI 70			
28	(1C)	ADDRESS	4	SSWSOB70	Addr of SSOB for SSI 70

Table 497. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Process byte for various processing paths			
32	(20)	BITSTRING	1	SSWFLG1	Flag byte 1 -Indicators
		.1..		SSW1EXIT	"B'01000000'" Exit given control
		Condition byte used to show errors in processing			
33	(21)	BITSTRING	1	SSWFLG2	Flag byte 2 -Error flags
		1...		SSW2PCED	"B'10000000'" PCE is disabled
		.1..		SSW2JESD	"B'01000000'" JES is down
		..1.		SSW2NOXT	"B'00100000'" No Extension exists
		...1		SSW2EXTE	"B'00010000'" Error in extension
		.... 1...		SSW2NOAU	"B'00001000'" Token Extract error
		.... .1..		SSW2INVF	"B'00000100'" Invalid function request
		.... ..1.		SSW2INVI	"B'00000010'" Invalid input to function
		1		SSW2NOST	"B'00000001'" No storage indicator
		Response byte from Exit			
34	(22)	BITSTRING	1	SSWXPLR	
		1...		SSWXCAN	"B'10000000'" Exit cancel request
		.1..		SSWXSRC	"B'01000000'" Exit supplied RC/reas codes
		1111 1111		SSWANY	"X'FF'" Test for any bits on
		Other goodies			
35	(23)	BITSTRING	1	SSWCKEY	SSI callers key, used post-exit 45 in case exit changed X045CKEY
36	(24)	BITSTRING	1	SSWJTYPE	Job type
37	(25)	BITSTRING	1		Reserved
38	(26)	SIGNED	2	SSWERCD	Processing reason code
40	(28)	SIGNED	4	SSWRC	Processing return code
44	(2C)	SIGNED	4	SSWJBNUM	Converted job number
48	(30)	BITSTRING	28	SSWIINFO	Info block for CPOOL QCELL
76	(4C)	BITSTRING	80	SSWDSTKN	Data set token
156	(9C)	BITSTRING	1	SSWJOTKN	JOE token
		Copies of fields from the SSOB extension (IAZSSSF). These are needed so that we can access data in user key storage that was passed by the caller. Note that some IAZSSSF fields are copied directly into the $XPL instead of appearing here, to reduce duplication of data.			
236	(EC)	SIGNED	4	(0)	Word align
236	(EC)	CHARACTER	4	SSWEID	Eyecatcher
240	(F0)	BITSTRING	1	SSWVER	Version
241	(F1)	BITSTRING	1	SSWREQF	Function request number
242	(F2)	SIGNED	2	SSWMREA	Error reason code
244	(F4)	SIGNED	2	SSWLEN	SSSF length

Table 497. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
246	(F6)	SIGNED	2		Reserved
248	(F8)	ADDRESS	4	SSWMDAD	Addr of output descriptor Modify list - SWBTU format This points to SSI caller key storage.
252	(FC)	ADDRESS	4	SSWERAD	Addr of output descriptor Erase list in TU format This points to SSI caller key storage.
256	(100)	ADDRESS	4	SSWIJTKN	Address of JOE token provided by SSI 80
260	(104)	ADDRESS	4	SSWIDTKN	Address of dataset token provided by SSI 80
264	(108)	ADDRESS	4	SSWIFSWU	Address of SWBTU buffer
268	(10C)	ADDRESS	4	SSWIFSWT	Address of SWB token
272	(110)	SIGNED	4	SSWIWRTN	Result of merge (rtn code)
276	(114)	SIGNED	4	SSWIWRSN	Merge Reason code
280	(118)	BITSTRING	1	SSWIFLG1	Input flag byte
281	(119)	BITSTRING	1	SSWIRFLG	Returned flag byte
282	(11A)	BITSTRING	86	SSWTKMAP	Token area for tokenmap
368	(170)	DBL WORD	8	(0)	Alignment
	$XPL for exit 45 is here.				
368	(170)	BITSTRING	88	SSW45XPL	XPL for exit 45
456	(1C8)	DBL WORD	8	(0)	Alignment
456	(1C8)	X'1C8'	0	SSWWLEN	"*-SFSWORK" Length of SSWORK storage

Table 498. Cross Reference for $SFSWORK

Name	Offset	Hex Tag
SFSWORK	0	
SSWANY	22	FF
SSWCKEY	23	
SSWDSTKN	4C	
SSWEID	EC	
SSWERAD	FC	
SSWERCD	26	
SSWFLG1	20	
SSWFLG2	21	
SSWID	0	
SSWIDTKN	104	
SSWIFLG1	118	
SSWIFSWT	10C	
SSWIFSWU	108	
SSWIINFO	30	
SSWIJTKN	100	
SSWIOT	10	
SSWIRFLG	119	
SSWIWRSN	114	
SSWIWRTN	110	
SSWJBNUM	2C	

Table 498. Cross Reference for $SFSWORK (continued)

Name	Offset	Hex Tag
SSWJOTKN	9C	
SSWJTYPE	24	
SSWLEN	F4	
SSWMDAD	F8	
SSWMREA	F2	
SSWRC	28	
SSWREQF	F1	
SSWSFRB	C	
SSWSOB70	1C	
SSWTKMAP	11A	
SSWTOKN	18	
SSWTOTL	4	
SSWTRE	8	
SSWVER	F0	
SSWWAVE	14	
SSWWLEN	1C8	1C8
SSWXCAN	22	80
SSWXPLR	22	
SSWXSRC	22	40
SSW1EXIT	20	40
SSW2EXTE	21	10
SSW2INVF	21	4
SSW2INVI	21	2
SSW2JESD	21	40
SSW2NOAU	21	8
SSW2NOST	21	1
SSW2NOXT	21	20
SSW2PCED	21	80
SSW45XPL	170	

$SIG information

$SIG heading information

Common name: SIG

Macro ID: $SIG

DSECT name: SIG

Owning component: JES2 (SC1BH)

Eye-catcher ID: "None"
Offset: N/A
Length: N/A

Storage attributes: Subpool: 10
Key: 1
Residency: Virtual is any, Real is any
in JES2 address space or user address space

Size: See SIGSIZE

Created by: Callers of $SIGIO

Pointed to by: Parameters passed to $SIGIO macro

Serialization: No serialization

Function: This is the mapping for record zero (R0) records on SPOOL. The first track of each trackgroup has a signature record placed in the data portion of R0.

$SIG mapping

Table 499. Structure SIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIG	
0	(0)	BITSTRING	1	SIGFLAG1	Flags
		1...		SIG1UNAL	"B'10000000'" Trackgroup has begun unallocation
1	(1)	BITSTRING	3	SIGJBNUM	Job number
4	(4)	SIGNED	4	SIGJBKEY	Job key
4	(4)	X'8'	0	SIGLEN	"8" Length of signature record (DASD architected)
8	(8)	ADDRESS	2	(0)	Assembly error if length of fields not 8

$SJB information

$SJB programming interface information

The following fields are **NOT** programming interface information:

- SJBCSCB
- SJBOCT
- SJBPIT
- SJBQUEUE
- SJBSTAC

$SJB heading information

Common name: Subsystem Job Block dsect

Macro ID: $SJB

DSECT name: SJB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SJB '
Offset: SJBID-SJB
Length: 4

Storage attributes: Subpool: 241 or 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage or private storage (in the case of internal readers and NJE/TCP devices)

Size: See the SJBSIZE equate.

Created by:

SJBs are created by the $SJBINIT service. They are built during subsystem-interface (SSI) calls for job selection by-number (for STCs and TSUs), during the first SSI call by an MVS initiator for job selection by-class, during SSI request-jobid calls and during SYSOUT dataset allocation SSI requests for short-term cross-subsystem browse applcations. An SJB is also built for each JES2 address space JCL conversion subtask when it runs its first job after JES2 initialization or after an abnormal subtask end.
A temporary SJB is built by the $LOGMSG service when it puts messages into a job's joblog.

Pointed to by:

- The HSBSJB field of the $HASB data area in CSA points to the first SJB for an address space.
The remaining SJBs in the address space are chained off of the SJBSJB field of the $SJB data area.
- The MVS life-of-job SSIB control block for a job step points to the SJB supporting that job step via the SSIBSUSE field. This connection does not exist for short-term and request-job-id cases.
- The SDBSJB field of the $SDB data area for each subsystem dataset allocated under an SJB points to the SJB. The SDBs are in the address space's private storage.
- Each SJB has an extension in the address space's private storage, called the SJXB. The SJXBSJBA field of the $SJXB data area points to the SJB.
- The TRESJBLK field of the $TRE data area points to the SJB if the TRE represents the MVS task that has acquired the SJB lock of this SJB.
- Several queues of SJBs exist to queue and track executing jobs. Each of these uses the SJBXQCHN field of the $SJB data area as the chain field.
The anchors are in the $HCCT data area and include CCTJPCLS (pending selection by job class, for batch), CCTJPNUM (pending selection by number, for STCs/TSUs), CCTJXCLS (executing by class), CCTJXNUM (executing by number), CCTJTERM (jobs terminating), CCTJRENQ (jobs terminating for re-execution).
- When PSO requests or dataset processing are outstanding for an SJB, the PSOSJB field of the $PSO data area points to the SJB.
- The DCNVSJBP field of each JES2 address space JCL conversion subtask $DTECNV data area points to the SJB.
- The PITSJB field of the $PIT data area points to the batch job SJB being used to manage batch jobs for the initiator represented by the PIT.
- The HSUSJB field of the $HSU data area points to the SJB during a 'HOCSETUP' service routine call for a subsystem dataset.
- The EMSSJB field of the $DTEEOM data area
- The CCTEOMJT field of the $HCCT
- The JRWSJB field of the $JRW data area for internal readers and NJE/TCP job receivers (private storage SJB)
- The SRWSJB field of the $SRW data area for NJE/TCP SYSOUT receiver (private storage SJB)
- The JTWSJB field of the $JTW data area for NJE/TCP job transmitter (private storage SJB)
- The STWSJB field of the $STW data area for NJE/TCP SYSOUT transmitter (private storage SJB)
- The RIDSJB field of the $IRWD data area for internal readers (private storage SJB)

Serialization:

Serialization of the SJBs is done in various ways. An SJB can be locked by a task against activity by any other task in the address space using the $SJBLOCK service. Many JES2 SSI function routines use this service to hold the SJB lock for the duration of the SSI call. The SJB queues are locked using a mechanism similar to the SJB lock, with the lock words being in the HCCT control block instead of an SJB. This lock is frequently called the Job Communications Queue lock, or JCQ lock, or sometimes the SJB queues lock. The JCQ lock is used between the JES2 main task and the tasks in the job's address space. Various SJB chain and anchor fields are serialized with these two JES2 locks, with the system LOCAL lock, and just by timing dependencies in some cases where appropriate (e.g. when an address space is unexpectedly lost). See the comments in the definition of the dsect and various fields for more information.

Function:

The Subsystem Job Block (SJB) represents a executing unit of work, or 'job', for the JES2 subsystem. It is the main and central JES2 control block for an executing job, and contains the job identifiers, flags defining the job type and status, indications of the type of processing required or being done for the job, locking fields, etc. It is the anchor for the in-storage control blocks such as the JCT for the job, the IOTs and SDBs for subsystem datasets, the PSO and other control blocks for current requests, etc. The main use of the SJB for the purposes stated above are in the JES2 subsystem interface (SSI) function routines, supporting services for MVS facilities such as the initiator, allocation, and data management. It is in ECSA, and also used by the JES2 main task to track active jobs, process request queues, provide status, and reconnect to executing work during a hot start after an abnormal termination. Communication is done using the SJB queue anchors and chain fields described in the 'pointed to by' section, $$POSTs of JES2 by the SSI routines, $XMPOSTs of the requesting tasks running in the SSI routines by JES2 using the SJBECB field, and serialization provided normally by two JES2-defined locks (see 'serialization').
An SJB normally represents, roughly, the work running under one MVS job step task, in however many MVS tasks there are running at that job step level. This is the case for started task 'jobs' (STCs) and time sharing user 'jobs' (TSUs), running in the top job step in an address space. It is also the usual case for a batch job, running in the second job step in an address space, where the top job step is the batch initiator STC. SJBs are also built to handle other cases where a set of one or more tasks are executing work on the behalf of a normal or special job.
The types of SJBs are: STC/TSU, batch job, request jobid, cross-subsystem browse, and JCL conversion.

$SJB mapping

Table 500. Structure SJB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJB	
0	(0)	CHARACTER	4	SJBID	SJB IDENTIFIER
4	(4)	ADDRESS	1	SJBVRSN	CURRENT VERSION IN STORAGE
4	(4)	X'6'	0	SJBCURVN	"6" Current version number
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
6	(6)	BITSTRING	1	SJBFLG1	FIRST FLAG BYTE ---
		1...		SJB1PI	"X'80'" Stop AND drain the initiator
		.1..		SJB1SJID	"X'40'" SELECT JOB BY ID - SJBJOBID
		..1.		SJB1CRAL	"X'20'" BROWSE CROSS-ALLOCATION SJB
		.... .1..		SJB1EJOB	"X'04'" HASP-RESTART JOB ($E JOB)

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		SJB1SWBU	"X'02'" Update the OUTPUT SWB
		1		SJB1WIN	"X'01'" WLM managed initiator
7	(7)	BITSTRING	1	SJBFLG2	SECOND FLAG BYTE ---
		1...		SJB2PNIT	"X'80'" STOP THE INITIATOR
		.1..		SJB2EJST	"X'40'" $EJOB,STEP was processed
		..1.		SJB2EOM	"X'20'" END-OF-MEMORY DETECTED
		...1		SJB2CNCL	"X'10'" CANCEL AFTER SWA CREATE
		.... 1...		SJB2CONV	"X'08'" SJB CREATED FOR CONVERTER
		.... .1..		SJB2HOLD	"X'04'" HOLD JOB AFTER RE-QUEUE
		.... ..1.		SJB2JNL	"X'02'" JOB IS JOURNALED
		1		SJB2INIT	"X'01'" INITIATOR FLAG
8	(8)	ADDRESS	4	SJBSJXB	POINTER TO SJB EXTENSION
12	(C)	ADDRESS	4	SJBWAVE	POINTER TO WAVE ADDRESS
16	(10)	ADDRESS	4	SJBUSER	*** RESERVED FOR USER ***
20	(14)	ADDRESS	4	SJBSSIB	POINTER TO SSIB
24	(18)	ADDRESS	4	SJBSJB	SJB CHAIN FROM CCTHAVT
28	(1C)	ADDRESS	4	SJBSDB	POINTER TO CHAIN OF SDBS
32	(20)	ADDRESS	4	SJBJKEY	HDBDSKEY FOR THIS JOB
36	(24)	ADDRESS	4	SJBJCT	ADDRESS OF JCT FOR JOB
40	(28)	BITSTRING	6	SJBJCTTK	JCT TRACK ADDRESS (MQTR)
46	(2E)	BITSTRING	2		Reserved
48	(30)	ADDRESS	4	SJBTCBP	ADDRESS OF INIT OR STC TCB
52	(34)	BITSTRING	16	SJBTCBT	TCB token for INIT or STC
68	(44)	SIGNED	4	SJBJQOFF	OFFSET OF JQE WITHIN JOB QUEUE
72	(48)	CHARACTER	4	SJBSSNM	SUBSYSTEM ID OF OWNER
76	(4C)	ADDRESS	4	SJBIOT	ADR OF FIRST REGULAR IOT
80	(50)	ADDRESS	4	SJBSPIOT	ADR OF FIRST SPIN IOT
84	(54)	ADDRESS	4	SJBOCT	ADR OF OUTPUT CONTROL TABLE
88	(58)	ADDRESS	4	SJBSJPTR	ADR OF SJF PARAMETER LIST
92	(5C)	ADDRESS	4	SJBSWBUF	ADR OF SJF SWB BUFFER
96	(60)	ADDRESS	4	SJBSECB(0)	STOP-ECB ADR FOR CREATED-ID JOB
96	(60)	ADDRESS	4	SJBPIT	ADDRESS OF PIT IN HASP
100	(64)	ADDRESS	4	SJBASCBP	ASCB address
		SJBCKID IS USED BEFORE EXECUTION ONLY SJBSTQE IS USED DURING EXECUTION			
104	(68)	SIGNED	4	SJBCKID	EXECUTION PCE CKPT TOKEN
108	(6C)	BITSTRING	1	SJBSTQE	EXECUTION TIMER QUEUE ELEMENT
		THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO			
120	(78)	SIGNED	4	SJBTIMX(0)	---+ Time excession fields
120	(78)	SIGNED	4	SJBTMINT	| Est time message interval
124	(7C)	BITSTRING	1	SJBTIMOP	| Execution time option
125	(7D)	BITSTRING	3		| Reserved (part of $EST)
128	(80)	SIGNED	4	SJBXSTIM	---+ Time estimate excession amnt

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		END OF ESTIMATED COUNT FIELDS			
132	(84)	SIGNED	4	SJBEOMCC	EOM comp code (ASCBMCC)
136	(88)	SIGNED	4	SJBFLGEF(0)	-------+ SJBFLGE fullword for CS
136	(88)	BITSTRING	3		| Reserved
139	(8B)	BITSTRING	1	SJBFLGE	| $C JQ processing flags
		1...		SJBEJSAC	"B'10000000'" | Job select active
		.1..		SJBEJSCN	"B'01000000'" | $C in progress for job
		..1.		SJBEJSDM	"B'00100000'" | $C requested a dump
		...1		SJBEVICT	"B'00010000'" | Evict job at next step
		.... 1...		SJBEVICH	"B'00001000'" ---+ Hold job after evicting
140	(8C)	SIGNED	4	SJBJBSEL	STCK job given to job selct
144	(90)	BITSTRING	4	SJBMAXRC(0)	Completion information See JQXMAXCC for values
144	(90)	BITSTRING	1	SJBMXIND	Completion type indicator
145	(91)	BITSTRING	3	SJBMAXCC	Completion/ABEND code info
148	(94)	ADDRESS	4	SJBCSCB	ADDRESS OF CSCB
152	(98)	BITSTRING	12	SJBECBL(0)	ECB list for WAIT
152	(98)	ADDRESS	4	SJBECBA	Pointer to SJB's ECB
156	(9C)	ADDRESS	4	SJBECBS	Pointer to STOP INIT ECB
160	(A0)	ADDRESS	4	SJBECBW	Ptr to WLM STOP INIT ECB
		1...		SJBEEND	"X'80'" To initialize end of list
164	(A4)	BITSTRING	4		Reserved
168	(A8)	DBL WORD	8	(0)	Insure that SJBASCBA is on doubleword boundary for CDS
168	(A8)	BITSTRING	16	SJBXMPL(0)	$XMPOST parameter list
168	(A8)	ADDRESS	4	SJBERRET	Pointer to error return
172	(AC)	ADDRESS	4	SJBECBP	POINTER TO SJB'S ECB
		During end of memory, SJBASCBA and SJBSASCB will be HASP's ASCB (so that any POSTs will be directed to the JES2 EOM subtask). SJBASID will remain unchanged. SJBASCBP remains as a pointer to the original ASCB.			
176	(B0)	ADDRESS	4	SJBASCBA	ASCB address of AS to post
180	(B4)	ADDRESS	4	SJBECB	ECB for SSI code and JES2
184	(B8)	DBL WORD	8	(0)	Ensure that SJBSASCB is on doubleword boundary for CDS
184	(B8)	BITSTRING	16	SJBSXMPL(0)	$XMPOST parameter list
184	(B8)	ADDRESS	4	SJBSERRE	Pointer to error return
188	(BC)	ADDRESS	4	SJBSECBP	Pointer to SJBs ECB
192	(C0)	ADDRESS	4	SJBSASCB	Pointer to related ASCB
196	(C4)	ADDRESS	4	SJBSECBS	ECB for SSI code and JES2
200	(C8)	CHARACTER	4	SJBPATID	EBCDIC init ID (PITPATID)
204	(CC)	BITSTRING	1	SJBPRIO	HASP EXECUTION SELECTION PRTY
205	(CD)	SIGNED	3	SJBFAMLY	Highest family ID used by MOCA IOTs
208	(D0)	SIGNED	2	SJBXQFN1	HASPXEQ FUNCTION INDICATOR

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
210	(D2)	BITSTRING	1	SJBFLG3	TERMINATION FLAG ONE ---
		1...		SJB3CLS	"X'80'" CLOSE ALL SUBSYSTEM DATA SETS
		.1..		SJB3FSDB	"X'40'" FREE ALL SDBS
		..1.		SJB3TERM	"X'20'" TERMINATE THE JOB
		...1		SJB3PPOU	"X'10'" PURGE PARTIAL OUTPUT
		.... .1..		SJB3CKPT	"X'04'" WRITE IOTS, JCT
		.... ..1.		SJB3FIOT	"X'02'" FREE ALL IOTS
		1		SJB3FJCT	"X'01'" FREE JCT
211	(D3)	BITSTRING	1	SJBFLG4	TERMINATION FLAG TWO ---
		1...		SJB4MEND	"X'80'" MSG 'ENDED'
		.1..		SJB4MTRM	"X'40'" MSG 'TERMINATED'
		..1.		SJB4MREQ	"X'20'" MSG 'RE-ENQUEUED'
		...1		SJB4MREX	"X'10'" MSG 'QUEUED FOR RE-EXECUTION'
		.... 1...		SJB4FSJB	"X'08'" FREE THE SJB
		.... .1..		SJB4MRQH	"X'04'" MSG 'RE-ENQUEUED AND HELD'
		.... ..1.		SJB4OCAN	"X'02'" Operator cancelled this SJB
		1		SJB4TERM	"X'01'" BATCH JOB HAS TERMINATED SJB4TERM DIRECTLY INFLUENCES THE CREATION AND DELETION OF THE JSAB
212	(D4)	ADDRESS	4	SJBQUEUE	ADDRESS OF CCTJ QUEUE HEADER
216	(D8)	ADDRESS	4	SJBXQCHN	HASPXEQ CHAINING WORD
	Control information for EOM processing				
220	(DC)	BITSTRING	8	SJBEOMCH(0)	<-----+ EOM chaining fields
220	(DC)	ADDRESS	4	SJBEOMN	| Addr next SJB on EOM queue
224	(E0)	ADDRESS	4	SJBEOMP	<-----+ Addr prior SJB on EOM queue
228	(E4)	ADDRESS	4	SJBEOMPC	PCE processing SJB
232	(E8)	BITSTRING	1	SJBEOMFL	End of memory switches
		1...		SJBEOMF1	"B'10000000'" SJB being processed by PCE
		.1..		SJBEOMF2	"B'01000000'" SJB being processed by EOM sub-task
233	(E9)	BITSTRING	3	SJBEOMRS	Reserved for future EOM use
236	(EC)	ADDRESS	4	SJBEOMQ	Addr of Queue head at EOM SSI time
	End of EOM data				
240	(F0)	SIGNED	2	SJBINTCT	COUNT OF OPEN INTRDRS
242	(F2)	BITSTRING	1	SJBRSNCD	Reason Job not selectable
	Return codes/ reason codes for non selection of job Used for message HASP361 based on return code from $DMNDJOB routine. Also used for message HASP003 RC(109)				
242	(F2)	X'0'	0	SJBRSN00	"0" No message needed
242	(F2)	X'4'	0	SJBRSN01	"4" Job not found
242	(F2)	X'8'	0	SJBRSN02	"8" System draining
242	(F2)	X'C'	0	SJBRSN03	"12" Job with same name running
242	(F2)	X'10'	0	SJBRSN04	"16" Sched. env. not available

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
242	(F2)	X'14'	0	SJBRSN05	"20" Independent mode mismatch
242	(F2)	X'18'	0	SJBRSN06	"24" Spools(s) not available
242	(F2)	X'1C'	0	SJBRSN07	"28" Rejected by exit 49
242	(F2)	X'20'	0	SJBRSN08	"32" SECLABEL not available
242	(F2)	X'24'	0	SJBRSN09	"36" No affinity to active sys
242	(F2)	X'28'	0	SJBRSN10	"40" Unexpected WLM response
242	(F2)	X'2C'	0	SJBRSN11	"44" ARM restart pending
242	(F2)	X'30'	0	SJBRSN12	"48" Busy
242	(F2)	X'34'	0	SJBRSN13	"52" Not batch job
242	(F2)	X'38'	0	SJBRSN14	"56" Not on execution queue
242	(F2)	X'3C'	0	SJBRSN15	"60" No JES2 that can select
242	(F2)	X'40'	0	SJBRSN16	"64" Jobclass no affinity to active member
242	(F2)	X'44'	0	SJBRSN17	"68" Job requires a higher z/OS level
243	(F3)	BITSTRING	1	SJBFLGF	More job flags:
		1...		SJBFPRIV	"B'10000000'" Job is privileged
		.1..		SJBFRSSN	"B'01000000'" Restore subsystem name
244	(F4)	CHARACTER	4	SJBOSSNM	Original subsystem name
248	(F8)	DBL WORD	8	SJBLOCKH(0)	SJB LOCKING DOUBLEWORD
248	(F8)	ADDRESS	4	SJBTCB	LOCK-HOLDING TCB ADDRESS
252	(FC)	ADDRESS	4	SJBNEXTL	0 - SJB IS UNLOCKED - - SJB LOCKED, NO WAIT CHAIN + - SJB LOCKED, ADR OF WAITER
256	(100)	ADDRESS	4	SJBTINA	Address of TINA
260	(104)	SIGNED	4	SJBTINAA	ALET of TINA (zero only if SJB for converter)
264	(108)	ADDRESS	4	SJBPSO	Process Sysout Block
268	(10C)	SIGNED	4	SJBPSOA	Process Sysout Block ALET
272	(110)	ADDRESS	4	SJBSTAC	Addr of Status/Cancel Block
276	(114)	SIGNED	4	SJBSTACA	Status/Cancel Block ALET
280	(118)	CHARACTER	1		Reserved
281	(119)	BITSTRING	1	SJBLKFG	SERIALIZATION FLAG
		1...		SJBFIRST	"X'80'" First CCTJPCLS request for an initiator; Only meaningful in batch job SJBs.
		EQU X'40' Reserved for future use			
		..1.		SJBPUPSP	"X'20'" Job may have unprocessed SPIN output
		...1		SJBTKCEL	"X'10'" SYSOUT MUST BE TRACKCELLED
		.... 1...		SJBTPST	"X'08'" SJB HAS BEEN POSTED TO TERM
		.... ..1.		SJBLCKPT	"X'02'" PARTIALLY SELECTED $SJB
		1		SJBMSWBP	"X'01'" NEW PDDB FOR MULTI SWBS
282	(11A)	SIGNED	2	SJBASID	USERS ASID
284	(11C)	BITSTRING	1	SJBFLG5	JOB RELATED FLAG BYTE
		THE FOLLOWING JOB TYPE FLAGS ARE IDENTICAL WITH THE JOB TYPE FLAGS IN THE JQE (I.E. JQE3JOB, JQE3STC AND JQE3TSU)			

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		11		SJB5JOB	"B'00000011'" BATCH JOB (WHEN BITS ZERO)
		1		SJB5STC	"B'00000001'" FLAG FOR THE STC JOB
		.... ..1.		SJB5TSU	"B'00000010'" FLAG FOR THE TSU JOB
		.... .1..		SJB5REST	"B'00000100'" ALLOW $EJ RESTART TO XEQ BIT ON INDICATES RESTART=Y
		.... 1...		SJB5SWAC	"B'00001000'" SWA CREATED
		1...		SJB5JL	"B'10000000'" JESDS processing Job log
		.1..		SJB5JCI	"B'01000000'" JESDS processing JCL images
		..1.		SJB5MSG	"B'00100000'" JESDS processing SYSMSG
285	(11D)	BITSTRING	1	SJBFLG6	FLAG BYTE 6
285	(11D)	X'1F'	0	SJB6NODA	"$ODANYWP" NORMAL OUTDISP FROM CAT
286	(11E)	BITSTRING	1	SJBFLG7	FLAG BYTE 7
286	(11E)	X'1F'	0	SJB7AODA	"$ODANYWP" ABNORMAL OUTDISP FROM CAT
287	(11F)	BITSTRING	1	SJBFLGC	Flag Byte SERIALIZATION: NONE
		1...		SJBCARMI	"B'10000000'" Notify ARM of job term
		.1..		SJBCHASP	"B'01000000'" EOM processing required in HASP address space
		..1.		SJBCCANJ	"B'00100000'" Operator MVS CANCELed job
		...1		SJBCFJST	"B'00010000'" First batch job select
		.... 1...		SJBCWTHT	"B'00001000'" Partially selected job is the WITH= target
		.... .1..		SJBCJBGR	"B'00000100'" Job is a logging job for JOBGROUP (mutually exclusive with SJBCRJGR)
		.... ..1.		SJBCRJGR	"B'00000010'" This job is registered to a jobgroup in SJBJGRIX (mutually exclusive with JQX3JBGR).
		1		SJBCCONC	"B'00000001'" Job within concurrent set
288	(120)	BITSTRING	1	SJBSBCNT	Number of data sets opened for spool browse (count never decremented)
289	(121)	BITSTRING	1	SJBFLGD	Flags Serialized via compare and swap
		1...		SJBDSAPI	"B'10000000'" Job has at least 1 SAPID
		.1..		SJBDJWEL	"B'01000000'" Appl hold JWEL created
		..1.		SJBDUNSP	"B'00100000'" IOT(s) must be unspun
		.... 1...		SJBDJLSP	"B'00001000'" JESLOG spin deferred waiting for SJB lock
290	(122)	SIGNED	2	SJBHJE00	Footprint for progress through HASCJBST HJE000
292	(124)	SIGNED	4	SJBJBNUM	Binary job number
296	(128)	CHARACTER	8	SJBJOBID	JOB IDENTIFIER - EBCDIC, NUMERIC
304	(130)	CHARACTER	8	SJBJOBNM	JOBNAME FROM JOB CARD
312	(138)	CHARACTER	8	SJBUSRID	USERID FROM JOB CARD
320	(140)	BITSTRING	8	SJBASCBT	Address space token
328	(148)	CHARACTER	8	SJBSECLB	SECLABEL for address space (SDSF use)
336	(150)	CHARACTER	8	SJBJOBCL	JES2 8 character job class
344	(158)	BITSTRING	1	SJBFLG8	Second excession limit flgs

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SJB8LJLC	"X'80'" Lines JCL Limit is Cancel
		.1..		SJB8LJLD	"X'40'" Lines JCL Limit is Dump
		..1.		SJB8LJLW	"X'20'" Lines JCL Limit is Warning
	EQU X'10'	RESERVED for future use			
		.... 1...		SJB8PJLC	"X'08'" Pages JCL Limit is Cancel
		.... .1..		SJB8PJLD	"X'04'" Pages JCL Limit is Dump
		.... ..1.		SJB8PJLW	"X'02'" Pages JCL Limit is Warning
	EQU X'01'	RESERVED for future use			
345	(159)	BITSTRING	1	SJBFLG9	First excession limit flags
		1...		SJB9BJLC	"X'80'" Bytes JCL Limit is Cancel
		.1..		SJB9BJLD	"X'40'" Bytes JCL Limit is Dump
		..1.		SJB9BJLW	"X'20'" Bytes JCL Limit is Warning
	EQU X'10'	RESERVED for future use			
		.... 1...		SJB9CJLC	"X'08'" Cards JCL Limit is Cancel
		.... .1..		SJB9CJLD	"X'04'" Cards JCL Limit is Dump
		.... ..1.		SJB9CJLW	"X'02'" Cards JCL Limit is Warning
	EQU X'01'	RESERVED for future use			
346	(15A)	BITSTRING	1	SJBFLGA	APPC flag byte
		1...		SJBAFALL	"X'80'" First allocation processing
		.1..		SJBATP	"X'40'" Transaction Program
		..1.		SJBAPROT	"X'20'" Job is Protected
		...1		SJBASPOT	"X'10'" Spin output produced
		.... 1...		SJBASTIN	"X'08'" STOP initiator
		.... .1..		SJBATI	"X'04'" Transaction Initiator
		.... ..1.		SJBAWSTP	"X'02'" WLM posted initiator
347	(15B)	BITSTRING	1	SJBFLGB	Yet another flag byte
		1...		SJBBRJI	"X'80'" Request job id flag
		.1..		SJBBSYSL	"X'40'" SYSLOG flag
		..1.		SJBBSYSA	"X'20'" System address space
		...1		SJBBSPIN	"X'10'" Joblog is spinnable
		.... 1...		SJBBJOBL	"X'08'" Joblog is to be opened for request jobid caller
		.... .1..		SJBBNSPN	"X'04'" Joblog is not spinnable
		.... ..1.		SJBBRJCR	"X'02'" Request job id set Job Correlator in JSAB (SYS_CORR_CURRJOB)
		1		SJBBEJST	"X'01'" Exit 32 requested job Evict
348	(15C)	SIGNED	4	SJBJGRIX	Index of the jobgroup logging JQE (see SJBCRJGR)
352	(160)	SIGNED	4	SJBJGRKY	Job key of the jobgroup logging JQE (see SJBCRJGR)
356	(164)	BITSTRING	4		Reserved
360	(168)	DBL WORD	8	SJBDBLWK	DOUBLEWORD WORKAREA #1
368	(170)	DBL WORD	8	SJBDBLW1	DOUBLEWORD WORKAREA #2

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
376	(178)	CHARACTER	1	SJBTOKEN	Security token work area
		The following fields contain the current excession limits (in packed decimal format) for a job. When the job's output reaches one of these limits, message $HASP375 will be issued and a new limit is generated by adding whether a default or exit9-supplied increment amount.			
456	(1C8)	DBL WORD	8	(0)	Ensure doubleword alignment
456	(1C8)		8	SJBDELIN	Line excession limit
464	(1D0)		8	SJBDEPUN	Punch (card) excess. limit
472	(1D8)		8	SJBDEPAG	Page excession limit
480	(1E0)		8	SJBDEBYT	Byte excession limit
488	(1E8)	CHARACTER	8	SJBWSCNO	WLM Init counted srv class
		SJBWSCN - Job Select SSI processing field. Contains the service class associated with a batch job executing in a JES2 Initiator. Note: The field SJBWSCN contains transient data and should not be used to supply the service class for a WLM Initiator or the batch job executing in a WLM initiator. Use field SJBWSCNO to obtain the service class that pertains to a WLM Initiator and any batch job it may be executing.			
496	(1F0)	CHARACTER	8	SJBWSCN	WLM Service class name
504	(1F8)	SIGNED	4	(10)	Reserved for future use
544	(220)	DBL WORD	8	SJBSSIWK(0)	SSI ROUTINE WORK AREA
		Job Select SSI processing fields			
544	(220)	BITSTRING	4	SJBWSCTK	WLM Service class token
548	(224)	BITSTRING	1	SJBWFLG1	WLM Flags
		1...		SJBW1DMD	"B'10000000'" Demand select initiator
		.1..		SJBW1SCS	"B'01000000'" Service class set via cmd
		..1.		SJBW1$SJ	"B'00100000'" Job started via $S J cmd
549	(225)	BITSTRING	1	SJBWPRIO	Jobs current priority
550	(226)	BITSTRING	1	SJBWFLG2	Additional job flags
		1...		SJBW2AST	"B'10000000'" Job has alternate system symbol table
		.1..		SJBW2IST	"B'01000000'" Job has datasets with symbol substitution
551	(227)	BITSTRING	1		Reserved
552	(228)	BITSTRING	8	SJBWDBJI(0)	Demand job's identifier --+
552	(228)	BITSTRING	4	SJBWDBJN	Job number |
556	(22C)	BITSTRING	4	SJBWDBJK	Job key --+
560	(230)	BITSTRING	16	SJBSCENV	WLM Scheduling environment
576	(240)	BITSTRING	4	SJBSRMTK	SRM token (from IWMCLSFY)
580	(244)	BITSTRING	4	SJBARRIV	Job arrival time
584	(248)	BITSTRING	8	SJBRHLD	Duration job was ineligible for selection due to a hold
592	(250)	BITSTRING	8	SJBRRSC	Duration job was ineligible for selection due to unsatisfied resource requirements.

Table 500. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
600	(258)	BITSTRING	8	SJBRTOC	Duration job was in conversion
608	(260)	CHARACTER	64	SJBSJCOR	Job correlator
	Allocation SSI processing fields				
544	(220)	SIGNED	2	SJBINSCT	Dataset instance count
672	(2A0)	DBL WORD	8	(0)	Ensure size fullword mult
672	(2A0)	X'2A0'	0	SJBEND	"*" END OF SJB
672	(2A0)	X'2A0'	0	SJBSIZE	"*-SJB" SIZE OF SJB CONTROL BLOCK

Table 501. Cross Reference for $SJB

Name	Offset	Hex Tag
SJB	0	
SJBAFALL	15A	80
SJBAPROT	15A	20
SJBARRIV	244	
SJBASCBA	B0	
SJBASCBP	64	
SJBASCBT	140	
SJBASID	11A	
SJBASPOT	15A	10
SJBASTIN	15A	8
SJBATI	15A	4
SJBATP	15A	40
SJBAWSTP	15A	2
SJBBEJST	15B	1
SJBBJOBL	15B	8
SJBBNSPN	15B	4
SJBBRJCR	15B	2
SJBBRJI	15B	80
SJBBSPIN	15B	10
SJBBSYSA	15B	20
SJBBSYSL	15B	40
SJBCARMI	11F	80
SJBCCANJ	11F	20
SJBCCONC	11F	1
SJBCFJST	11F	10
SJBCHASP	11F	40
SJBCJBGR	11F	4
SJBCKID	68	
SJBCRJGR	11F	2
SJBCSCB	94	
SJBCURVN	4	6
SJBCWTHT	11F	8
SJBDBLWK	168	
SJBDBLW1	170	

Table 501. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBDEBYT	1E0	
SJBDELIN	1C8	
SJBDEPAG	1D8	
SJBDEPUN	1D0	
SJBDJLSP	121	8
SJBDJWEL	121	40
SJBDSAPI	121	80
SJBDUNSP	121	20
SJBECB	B4	
SJBECBA	98	
SJBECBL	98	
SJBECBP	AC	
SJBECBS	9C	
SJBECBW	A0	
SJBEEND	A0	80
SJBEJSAC	8B	80
SJBEJSCN	8B	40
SJBEJSDM	8B	20
SJBEND	2A0	2A0
SJBEOMCC	84	
SJBEOMCH	DC	
SJBEOMFL	E8	
SJBEOMF1	E8	80
SJBEOMF2	E8	40
SJBEOMN	DC	
SJBEOMP	E0	
SJBEOMPC	E4	
SJBEOMQ	EC	
SJBEOMRS	E9	
SJBERRET	A8	
SJBEVICH	8B	8
SJBEVICT	8B	10
SJBFAMLY	CD	
SJBFIRST	119	80
SJBFLGA	15A	
SJBFLGB	15B	
SJBFLGC	11F	
SJBFLGD	121	
SJBFLGE	8B	
SJBFLGEF	88	
SJBFLGF	F3	
SJBFLG1	6	
SJBFLG2	7	
SJBFLG3	D2	
SJBFLG4	D3	
SJBFLG5	11C	

Table 501. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBFLG6	11D	
SJBFLG7	11E	
SJBFLG8	158	
SJBFLG9	159	
SJBFPRIV	F3	80
SJBFRSSN	F3	40
SJBHJE00	122	
SJBID	0	
SJBINSCT	220	
SJBINTCT	F0	
SJBIOT	4C	
SJBJBNUM	124	
SJBJBSEL	8C	
SJBJCT	24	
SJBJCTTK	28	
SJBJGRIX	15C	
SJBJGRKY	160	
SJBJKEY	20	
SJBJOBCL	150	
SJBJOBID	128	
SJBJOBNM	130	
SJBJQOFF	44	
SJBLCKPT	119	2
SJBLKFG	119	
SJBLOCKH	F8	
SJBMAXCC	91	
SJBMAXRC	90	
SJBMSWBP	119	1
SJBMXIND	90	
SJBNEXTL	FC	
SJBOCT	54	
SJBOSSNM	F4	
SJBPATID	C8	
SJBPIT	60	
SJBPRIO	CC	
SJBPSO	108	
SJBPSOA	10C	
SJBPUPSP	119	20
SJBQUEUE	D4	
SJBRHLD	248	
SJBRRSC	250	
SJBRSNCD	F2	
SJBRSN00	F2	0
SJBRSN01	F2	4
SJBRSN02	F2	8
SJBRSN03	F2	C

Table 501. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBRSN04	F2	10
SJBRSN05	F2	14
SJBRSN06	F2	18
SJBRSN07	F2	1C
SJBRSN08	F2	20
SJBRSN09	F2	24
SJBRSN10	F2	28
SJBRSN11	F2	2C
SJBRSN12	F2	30
SJBRSN13	F2	34
SJBRSN14	F2	38
SJBRSN15	F2	3C
SJBRSN16	F2	40
SJBRSN17	F2	44
SJBRTOC	258	
SJBSASCB	C0	
SJBSBCNT	120	
SJBSCENV	230	
SJBSDB	1C	
SJBSECB	60	
SJBSECBP	BC	
SJBSECBS	C4	
SJBSECLB	148	
SJBSERRE	B8	
SJBSIZE	2A0	2A0
SJBSJB	18	
SJBSJCOR	260	
SJBSJPTR	58	
SJBSJXB	8	
SJBSPIOT	50	
SJBSRMTK	240	
SJBSSIB	14	
SJBSSIWK	220	
SJBSSNM	48	
SJBSTAC	110	
SJBSTACA	114	
SJBSTQE	6C	
SJBSWBUF	5C	
SJBSXMPL	B8	
SJBTCB	F8	
SJBTCBP	30	
SJBTCBT	34	
SJBTIMOP	7C	
SJBTIMX	78	
SJBTINA	100	
SJBTINAA	104	

Table 501. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBTKCEL	119	10
SJBTMINT	78	
SJBTOKEN	178	
SJBTPST	119	8
SJBUSER	10	
SJBUSRID	138	
SJBVRSN	4	
SJBWAVE	C	
SJBWDBJI	228	
SJBWDBJK	22C	
SJBWDBJN	228	
SJBWFLG1	224	
SJBWFLG2	226	
SJBWPRIO	225	
SJBWSCN	1F0	
SJBWSCNO	1E8	
SJBWSCTK	220	
SJBW1$SJ	224	20
SJBW1DMD	224	80
SJBW1SCS	224	40
SJBW2AST	226	80
SJBW2IST	226	40
SJBXMPL	A8	
SJBXQCHN	D8	
SJBXQFN1	D0	
SJBXSTIM	80	
SJB1CRAL	6	20
SJB1EJOB	6	4
SJB1PI	6	80
SJB1SJID	6	40
SJB1SWBU	6	2
SJB1WIN	6	1
SJB2CNCL	7	10
SJB2CONV	7	8
SJB2EJST	7	40
SJB2EOM	7	20
SJB2HOLD	7	4
SJB2INIT	7	1
SJB2JNL	7	2
SJB2PNIT	7	80
SJB3CKPT	D2	4
SJB3CLS	D2	80
SJB3FIOT	D2	2
SJB3FJCT	D2	1
SJB3FSDB	D2	40
SJB3PPOU	D2	10

Table 501. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJB3TERM	D2	20
SJB4FSJB	D3	8
SJB4MEND	D3	80
SJB4MREQ	D3	20
SJB4MREX	D3	10
SJB4MRQH	D3	4
SJB4MTRM	D3	40
SJB4OCAN	D3	2
SJB4TERM	D3	1
SJB5JCI	11C	40
SJB5JL	11C	80
SJB5JOB	11C	3
SJB5MSG	11C	20
SJB5REST	11C	4
SJB5STC	11C	1
SJB5SWAC	11C	8
SJB5TSU	11C	2
SJB6NODA	11D	1F
SJB7AODA	11E	1F
SJB8LJLC	158	80
SJB8LJLD	158	40
SJB8LJLW	158	20
SJB8PJLC	158	8
SJB8PJLD	158	4
SJB8PJLW	158	2
SJB9BJLC	159	80
SJB9BJLD	159	40
SJB9BJLW	159	20
SJB9CJLC	159	8
SJB9CJLD	159	4
SJB9CJLW	159	2

$SJIOB information

$SJIOB programming interface information

$SJIOB is a programming interface.

$SJIOB heading information

Common name: Subsystem Job I/O Buffer

Macro ID: $SJIOB

DSECT name: SJIOB

Owning component: JES2 (SC1BH)

Eye-catcher ID: SJIO
Offset: SJIOBID-SJIOB
Length: L'SJIOBID

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual - 24 bit storage (contains IOB)
Real - 31 bit storage (contains CCW and data buffers)

Size: See SJIOBSZE

Created by: SJBINIT/SJIOBINT

Pointed to by: SJXBPIOB (for permanent SJIOBs)
HXBSJIOB (for SIGIO SJIOBs)
A register (for temporary SJIOBs)

Serialization: None

Function: The $SJIOB contains the I/O fields needed in the user or subtask environments. It is also used by the $SIGIO service in the user, subtask and main task environment.
The SJIOB exist in two forms defined as permanent and temporary. The permanent SJIOB is pointed to from the SJXB or the HASXB for SIGIO. Whereas, the temporary SJIOB is anchored in a register. The SJIOB contains DCB, DEB, IOB and ECB used by the CBIO and SIGIO routines.

$SJIOB mapping

Table 502. Structure SJIOB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJIOB	
0	(0)	CHARACTER	4	SJIOBID	SJIOB IDENTIFIER
4	(4)	BITSTRING	1	SJIFLAG2	
		1...		SJI2TEMP	"B'10000000'" TEMPORARY SJIOB
		.1..		SJI2USE	"B'01000000'" SJIOB in use
		..1.		SJI2SIGI	"B'00100000'" SJIOB for $SIGIO
		...1		SJI2MIGO	"B'00010000'" During spool migration, override mapped volume consideration.
		.... 1...		SJI2SIOA	"B'00001000'" STARTIO appendage entered
		.... .1..		SJI2CEAA	"B'00000100'" CE appendage entered
5	(5)	BITSTRING	1	SJIMIGT	DAS transition count
6	(6)	BITSTRING	1	SJICBFG1	CBIO or SIGIO flag 1 copy
7	(7)	BITSTRING	1	SJICBFG2	Copy of CBIO flag 2
8	(8)	ADDRESS	4	SJIOSJXB	ADDRESS OF SJXB
12	(C)	ADDRESS	4	SJIOCBP	$CBIO CBP address
		$SIGIO in the main task uses the $SJIOB in the main task. Main task needs an XECB to post the waiting PCE. XECB remaps fields used by $CBIO.			
16	(10)	DBL WORD	8	SJIMECB(0)	Define an XECB for main task usage ($SIGIO)
16	(10)	SIGNED	4	SJIECB	ECB whose addr is in IOB
20	(14)	SIGNED	4	SJIJBMSK	Exit job mask
24	(18)	DBL WORD	8	SJIMQTR	MQTR for I/O (00MT TTTR)
32	(20)	SIGNED	4	SJIKEY	Job key for data area
36	(24)	CHARACTER	4	SJIVERID	Control block verify id
40	(28)	DBL WORD	8	(0)	Alignment
40	(28)	BITSTRING	0	SJIIOB(0)	IOB FOR JOB CONTROL BLOCKS
40	(28)	BITSTRING	1	SJIIFLG1	IOB - FLAG BYTE
41	(29)	BITSTRING	1	SJIIFLG2	IOB - Flag byte 2

Table 502. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	1	SJIISNS0	IOB - FIRST SENSE BYTE
43	(2B)	BITSTRING	1	SJIISNS1	IOB - SECOND SENSE BYTE
44	(2C)	ADDRESS	4	SJIIECB(0)	IOB - EVENT CNTRL BLK ADR
44	(2C)	BITSTRING	1	SJIICMP	IOB - COMPLETION CODE
45	(2D)	ADDRESS	3	SJIIECBP	IOB - ECB POINTER (SJBECB)
48	(30)	BITSTRING	1	SJIIFLG3	IOB - Flag byte 3
49	(31)	BITSTRING	7	SJIICSW(0)	IOB - CHANNEL STATUS WORD
49	(31)	ADDRESS	3	SJIICSWA	IOB - CSW ADDRESS PORTION
52	(34)	BITSTRING	1	SJIIST0	IOB - FIRST STATUS BYTE
53	(35)	BITSTRING	1	SJIIST1	IOB - SECOND STATUS BYTE
54	(36)	SIGNED	2	SJIILEN	IOB - RESIDUAL LENGTH
56	(38)	BITSTRING	1	SJIISIO(0)	IOB - SIO condition code
56	(38)	ADDRESS	4	SJIIST	IOB - Channel program addr
60	(3C)	BITSTRING	1	SJIIFLG4(0)	IOB - Flag byte
60	(3C)	ADDRESS	4	SJIIDCB	IOB - DCB ADDRESS
64	(40)	ADDRESS	4	SJIIRS	IOB - RESTART CHAN PGM ADR
68	(44)	ADDRESS	4		
72	(48)	DBL WORD	8	SJIIFDAD	IOB - FULL DISK ADDRESS Form - MBBCCcchR Note: this is absolute address format
72	(48)	X'49'	0	SJIIBBCC	"SJIIFDAD+1,7" IOB - BBCCcchR part
80	(50)	SIGNED	4	(0)	Ensure word alignment
80	(50)	BITSTRING	48	SJIIOBE	Reserve space for IOB extension
128	(80)	SIGNED	4	(0)	Ensure word alignment
128	(80)	BITSTRING	48	SJIIEDB	Reserve space for I/O error data block
136	(88)	SIGNED	4	SJIDCB(0)	Start of DCB
176	(B0)	BITSTRING	1		Space for DCB foundation
176	(B0)	X'B4'	0	SJIDEBAD	"SJIDCB+(DCBDEBAD-IHADCB),L'DCBDEBAD" Ptr from DCB to DEB

```
SJIDASID has index of DAS which is a target of
JES2 I/O request (M in MTTR/MQTR).
SJIRDASX has index of DAS which is a target of
actual channel program.
They could be different. e.g. for a mapped volume
or during some migration phases.
```

188	(BC)	BITSTRING	1	SJIDASID	DAS index
189	(BD)	BITSTRING	1	SJIRDASX	Index of real DAS
190	(BE)	BITSTRING	2		Reserved
192	(C0)	BITSTRING	1	SJIDEB	Space for DEB
192	(C0)	X'DC'	0	SJIAPPAD	"SJIDEB+(DEBAPPAD-DEBBASIC),L'DEBAPPAD" Appendage vector addr
192	(C0)	X'D8'	0	SJIDCBAD	"SJIDEB+(DEBDCBAD-DEBBASIC),L'DEBDCBAD" Ptr from DEB to DCB
224	(E0)	BITSTRING	16	SJIDEBXT	Space for one DA DEB extent
240	(F0)		8	SJICCW1	SET SECTOR/NO-OP
248	(F8)		8	SJICCW2	SEARCH ID EQUAL
256	(100)		8	SJICCW3	TIC *-8

Table 502. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)		8	SJICCW4	WRITE/READ DATA
	IDAW'S - CURRENTLY SUPPORT UP TO 4K CONTROL BLOCK SIZE				
272	(110)	ADDRESS	4	SJIIDAW1	ADDRESS OF CNTRL BLK BUFFER
276	(114)	ADDRESS	4	SJIIDAW2	2K PAGE BNDRY GT THE BUFR ADDR
280	(118)	ADDRESS	4	SJIIDAW3	NEXT 2K PAGE BOUNDARY
284	(11C)	SIGNED	4		Reserved
	Provide data area for signature record I/O				
272	(110)	BITSTRING	8	SJISIG	Data read/written here
280	(118)	ADDRESS	4	SJISGBUF	SIGIO input buffer address
284	(11C)	BITSTRING	1	SJISGRPS	RPS value for CKD CCWs
285	(11D)	BITSTRING	1	SJISGFG1	SIGIO output flags
		1...		SJISG1VE	"B'10000000'" Validation error
		.1..		SJISG1RD	"B'01000000'" Read request
286	(11E)	BITSTRING	2		Reserved
288	(120)	DBL WORD	8	(0)	Ensure alignment
288	(120)	X'120'	0	SJIOBSZE	"*-SJIOB" Size of SJIOB

Table 503. Cross Reference for $SJIOB

Name	Offset	Hex Tag
SJIAPPAD	C0	DC
SJICBFG1	6	
SJICBFG2	7	
SJICCW1	F0	
SJICCW2	F8	
SJICCW3	100	
SJICCW4	108	
SJIDASID	BC	
SJIDCB	88	
SJIDCBAD	C0	D8
SJIDEB	C0	
SJIDEBAD	B0	B4
SJIDEBXT	E0	
SJIECB	10	
SJIFLAG2	4	
SJIIBBCC	48	49
SJIICMP	2C	
SJIICSW	31	
SJIICSWA	31	
SJIIDAW1	110	
SJIIDAW2	114	
SJIIDAW3	118	
SJIIDCB	3C	
SJIIECB	2C	

Table 503. Cross Reference for $SJIOB (continued)

Name	Offset	Hex Tag
SJIIECBP	2D	
SJIIEDB	80	
SJIIFDAD	48	
SJIIFLG1	28	
SJIIFLG2	29	
SJIIFLG3	30	
SJIIFLG4	3C	
SJIILEN	36	
SJIIOB	28	
SJIIOBE	50	
SJIIRS	40	
SJIISIO	38	
SJIISNS0	2A	
SJIISNS1	2B	
SJIIST	38	
SJIIST0	34	
SJIIST1	35	
SJIJBMSK	14	
SJIKEY	20	
SJIMECB	10	
SJIMIGT	5	
SJIMQTR	18	
SJIOB	0	
SJIOBID	0	
SJIOBSZE	120	120
SJIOCBP	C	
SJIOSJXB	8	
SJIRDASX	BD	
SJISGBUF	118	
SJISGFG1	11D	
SJISGRPS	11C	
SJISG1RD	11D	40
SJISG1VE	11D	80
SJISIG	110	
SJIVERID	24	
SJI2CEAA	4	4
SJI2MIGO	4	10
SJI2SIGI	4	20
SJI2SIOA	4	8
SJI2TEMP	4	80
SJI2USE	4	40

$SJXB information

$SJXB programming interface information

$SJXB is a programming interface.

$SJXB heading information

Common name: Subsystem Job Block Extension

Macro ID: $SJXB

DSECT name: SJXB

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SJXB'
Offset: SJXBID-SJXB
Length: 4

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the address space where the job that the $SJXB represents is active.

Size: See SJXBSIZE

Created by: Created by the $SJBINIT service when the job enters execution.

Pointed to by: SJBSJXB field of the $SJB data area

Serialization: Serialized via $SJBLOCK service.

Function: The SJB and SJXB are the main control blocks representing a job in the subsystem. The SJXB contains the information that is needed only in the user address space. The SJB contains the information that needs to be shared between the user and the subsystem address spaces.
The SJXB contains work area fields used by SSI functions and a pointer to the SJB. It also has a pointer to the SJIOB which contains the IOB and ECB used by $CBIO for control block I/O in addition to the ACB and DEB control blocks for the subsystem data sets. It also contains the RPL control block for the job log data set.

$SJXB mapping

Table 504. Structure SJXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJXB	
0	(0)	CHARACTER	4	SJXBID	SJXB IDENTIFIER
4	(4)	ADDRESS	4	SJXBSJBA	ADDRESS OF SJB
8	(8)	ADDRESS	4	SJXBDEBS	Address of SJXB DEB area
12	(C)	ADDRESS	4	SJXBPIOB	ADDRESS OF SJIOB
16	(10)	ADDRESS	4	SJXGGST	ADDRESS OF GROUPING STRINGS OBJECT
		THE FIELDS FROM SJXCLBEG TO SJXCLEND ARE CLEARED OUT IN HASCJBST EVERYTIME THE SJXB IS REUSED FOR ANOTHER JOB.			
20	(14)	ADDRESS	4	SJXCLBEG(0)	START OF CLEARED SECTION
24	(18)	DBL WORD	8	SJXBUSAV(0)	SAVE AREA FOR UNALLOCATION
24	(18)	ADDRESS	4	SJXBSIOT	NEXT IOT ADDR SAVE AREA
28	(1C)	BITSTRING	1	SJXBSPDB	PDBFLAG1 SAVE AREA
29	(1D)	BITSTRING	1	SJXFLAG1	FLAGS - Flag needs to be serialized by OIL & NIL

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SJX1PLHD	"B'10000000'" SJXRIOT POINTS TO PLACEHOLDER
		.1..		SJX1JPGM	"B'01000000'" Job has page mode records
		..1.		SJX1JSDS	"B'00100000'" JES2 system dataset involved in excession
		...1		SJX1J722	"B'00010000'" Job abended with abend722 (never reset)
30	(1E)	BITSTRING	1		Reserved for future use
31	(1F)	BITSTRING	1	SJXFLAG2	Flags - serialized via Compare and Swap
		1...		SJX2TITL	"B'10000000'" Joblog title line written
		.1..		SJX2INTR	"B'01000000'" Interpreter called during conversion phase
32	(20)	BITSTRING	3		Reserved for future use
35	(23)	BITSTRING	1	SJXJOBRC	JOBRC value
		.1..		SJXJBMRC	"X'40'" JOBRC=MAXRC specified
		..1.		SJXJBLRC	"X'20'" JOBRC=LASTRC specified
		...1		SJXJBSRC	"X'10'" JOBRC=(STEP,x) specified
36	(24)	CHARACTER	8	SJXJBPSN	JOBRC name on 'EXEC PGM='
44	(2C)	CHARACTER	8	SJXJBPPS	JOBRC name on 'EXEC PROC='
52	(34)	SIGNED	4	SJXSPNUM	NUMBER OF SPIN IOTS UNALLOCATED AND NOT YET REUSED
56	(38)	ADDRESS	4	SJXRIOT	ADDRESS OF LAST NORMAL IOT USED IN REUSE SEARCH
60	(3C)	ADDRESS	4	SJXRPDDB	OFFSET OF LAST NULL PLACEHOLDER PDDB USED IN REUSE SEARCH
64	(40)	ADDRESS	4	SJXDSCA	For SYSLOG jobs, address of first data set catalog (DSCA) block
68	(44)	ADDRESS	4	SJXALTST	Addr of alternate system symbol table for instream symbol substitution
72	(48)	BITSTRING	8		Reserved
80	(50)	ADDRESS	4	SJXSLOGP	Ptr to 1st logging YLGC
		THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO			
84	(54)	SIGNED	4	SJXLINES(0)	LINE EXCESSION FIELDS
84	(54)	SIGNED	4	SJXLNINT	EST LINE MESSAGE INTERVAL
88	(58)	BITSTRING	1	SJXLNOP	EXECUTION LINE OPTION
89	(59)	BITSTRING	3		RESERVED FOR FUTURE USE
92	(5C)	SIGNED	4	SJXPUNCH(0)	PUNCH EXCESSION FIELDS
92	(5C)	SIGNED	4	SJXPUINT	EST CARD MESSAGE INTERVAL
96	(60)	BITSTRING	1	SJXPUNOP	EXECUTION CARD OPTION
97	(61)	BITSTRING	3		RESERVED FOR FUTURE USE
100	(64)	SIGNED	4	SJXPAGES(0)	PAGES EXCESSION FIELDS
100	(64)	SIGNED	4	SJXPGINT	EST PAGES MESSAGE INTERVAL
104	(68)	BITSTRING	1	SJXPGOP	EXECUTION PAGES OPTION
105	(69)	BITSTRING	3		RESERVED FOR FUTURE USE
108	(6C)	SIGNED	4	SJXBYTES(0)	BYTES EXCESSION FIELDS
108	(6C)	SIGNED	4	SJXBYINT	EST BYTES MESSAGE INTERVAL

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
112	(70)	BITSTRING	1	SJXBYTOP	EXECUTION BYTE OPTION
113	(71)	BITSTRING	3		RESERVED FOR FUTURE USE
		END OF THE ESTIMATED COUNT FIELDS The following area, to SJXUSER, should be used for any new fields retrieved using the SJFACC facility and module HASPSJFA if any are added in the future.			
116	(74)	CHARACTER	4	SJXACCT	Account number
120	(78)	CHARACTER	1	SJXMSGCL	MSGCLASS value for TPs only
121	(79)	BITSTRING	3		Reserved for future use
		FIELD RESERVED FOR THE USER			
124	(7C)	ADDRESS	4	SJXUSER	*** RESERVED FOR USER ***
128	(80)	ADDRESS	4	SJXJMR	Address of extended JMR in 24 bit storage
132	(84)	SIGNED	4	(4)	Reserved for future use
148	(94)	SIGNED	4	SJXPBFCT	NUMBER OF EXTRA PBUFS
152	(98)	ADDRESS	4	SJXWTCHN	Chain of SDBs waiting for PBUFs (for PUT)
156	(9C)	BITSTRING	12	SJXRESRV	Reserved for future IBM use
168	(A8)	DBL WORD	8	SJXDWORK	General work area
176	(B0)	DBL WORD	8	(0)	Ensure doubleword alignment
176	(B0)		8	SJXJBPRT	Job total printed output (in packed decimal form)
184	(B8)		8	SJXJBPUN	Job total punched output (in packed decimal form)
192	(C0)		8	SJXJBPAG	Job total page count (in packed decimal form)
200	(C8)		8	SJXJBBYT	Job total byte count (in packed decimal form)
208	(D0)		8	SJXSPUNB	Job total spun byte count (in packed decimal form)
216	(D8)	CHARACTER	64	SJXJCOR	Job Correlator
280	(118)	DBL WORD	8	SJXCLEND(0)	END OF CLEARED SECTION
280	(118)	SIGNED	4	SJXPBFLM	Limit on number of PBUFs allowed in this addr space
		Addresses of SPCs for Joblog and SYSMSG			
284	(11C)	ADDRESS	4	SJXLSPC	JOBLOG SPC address
288	(120)	ADDRESS	4	SJXMSPC	SYSMSG SPC address
		ACB FOR HASP JOB LOG DATASET			
292	(124)	SIGNED	4	SJXLACB(0)	
292	(124)	BITSTRING	1		. ACB IDENTIFICATION
293	(125)	ADDRESS	1		ACB SUBTYPE X04SVHS
294	(126)	ADDRESS	2		. ACB LENGTH X03004HS
296	(128)	ADDRESS	4		. AMB LIST POINTER
300	(12C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
304	(130)	BITSTRING	1		MACRF(1) X04SVHS

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
305	(131)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
306	(132)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
307	(133)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
308	(134)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
310	(136)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
312	(138)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
313	(139)	ADDRESS	1		SHARED RESOURCE POOL ID
314	(13A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
316	(13C)	BITSTRING	1		. RECFM=A
317	(13D)	BITSTRING	1		READ INTEGRITY OPTIONS
318	(13E)	BITSTRING	2		. DSORG=ACB
320	(140)	ADDRESS	4		X04SVHS
324	(144)	ADDRESS	4		. PASSWORD POINTER
328	(148)	ADDRESS	4		. EXIT LIST POINTER
332	(14C)	CHARACTER	8		
340	(154)	BITSTRING	1		OFLAGS
341	(155)	ADDRESS	1		. ERFLAGS
342	(156)	BITSTRING	1		INFLGS(1) X04SVHS
343	(157)	BITSTRING	1		INFLGS(2) X04SVHS
344	(158)	ADDRESS	4		. OPENJ JFCB POINTER
348	(15C)	ADDRESS	4		BUFFER SPACE
352	(160)	ADDRESS	2		. BLOCK SIZE
354	(162)	ADDRESS	2		. RECORD SIZE
356	(164)	ADDRESS	4		. USER WORKAREA POINTER
360	(168)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
364	(16C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
		RPL FOR HASP JOB LOG DATASET			
368	(170)	SIGNED	4	SJXLRPL(0)	
368	(170)	ADDRESS	1		RPL IDENTIFICATION
369	(171)	ADDRESS	1		RPL SUBTYPE X04SVHS
370	(172)	ADDRESS	1		RPL REQUEST TYPE
371	(173)	ADDRESS	1		RPL LENGTH X03004
372	(174)	ADDRESS	4		. POINTER TO PLACEHOLDER
376	(178)	ADDRESS	4		. ECB
380	(17C)	BITSTRING	1		. STATUS BYTE
381	(17D)	BITSTRING	3		FEEDBACK CODES
384	(180)	ADDRESS	2		. KEY LENGTH
386	(182)	ADDRESS	2		. TRANSID
388	(184)	ADDRESS	4		POINTER TO CONTROL CHARACTER

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	ADDRESS	4		
396	(18C)	ADDRESS	4		. POINTER TO TCB
400	(190)	ADDRESS	4		. POINTER TO RECORD AREA
404	(194)	ADDRESS	4		. POINTER TO ARGUMENT
408	(198)	BITSTRING	1		. OPTCD BYTE 1
409	(199)	BITSTRING	1		
410	(19A)	BITSTRING	1		OPTCD BYTE 3
411	(19B)	BITSTRING	1		OPTCD BYTE 4
412	(19C)	ADDRESS	4		. POINTER TO NEXT RPL
416	(1A0)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
420	(1A4)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
424	(1A8)	BITSTRING	1		
425	(1A9)	BITSTRING	1		
426	(1AA)	BITSTRING	1		
427	(1AB)	BITSTRING	1		
428	(1AC)	BITSTRING	8		. RBA
436	(1B4)	BITSTRING	1		
437	(1B5)	ADDRESS	1		ACTIVE INDICATOR
438	(1B6)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
440	(1B8)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
440	(1B8)	X'1BC'	0	SJXLOGE	"*" End of job log ACB/RPL
ACB, RPL, etc. for NJE from NETSRV address space					
292	(124)	SIGNED	4	SJXNJACB(0)	
292	(124)	BITSTRING	1		. ACB IDENTIFICATION
293	(125)	ADDRESS	1		ACB SUBTYPE X04SVHS
294	(126)	ADDRESS	2		. ACB LENGTH X03004HS
296	(128)	ADDRESS	4		. AMB LIST POINTER
300	(12C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
304	(130)	BITSTRING	1		MACRF(1) X04SVHS
305	(131)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
306	(132)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
307	(133)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
308	(134)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
310	(136)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
312	(138)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
313	(139)	ADDRESS	1		SHARED RESOURCE POOL ID
314	(13A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
316	(13C)	BITSTRING	1		. RECFM=A
317	(13D)	BITSTRING	1		READ INTEGRITY OPTIONS

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
318	(13E)	BITSTRING	2		. DSORG=ACB
320	(140)	ADDRESS	4		X04SVHS
324	(144)	ADDRESS	4		. PASSWORD POINTER
328	(148)	ADDRESS	4		. EXIT LIST POINTER
332	(14C)	CHARACTER	8		
340	(154)	BITSTRING	1		OFLAGS
341	(155)	ADDRESS	1		. ERFLAGS
342	(156)	BITSTRING	1		INFLGS(1) X04SVHS
343	(157)	BITSTRING	1		INFLGS(2) X04SVHS
344	(158)	ADDRESS	4		. OPENJ JFCB POINTER
348	(15C)	ADDRESS	4		BUFFER SPACE
352	(160)	ADDRESS	2		. BLOCK SIZE
354	(162)	ADDRESS	2		. RECORD SIZE
356	(164)	ADDRESS	4		. USER WORKAREA POINTER
360	(168)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
364	(16C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
368	(170)	SIGNED	4	(0)	
368	(170)	BITSTRING	80	SJXNJRPL	RPL uses SJXNJACB
		Transaction Processor Fields			
448	(1C0)	ADDRESS	4	SJXSJBS	Address of SJB save area
452	(1C4)	SIGNED	4	SJXTRPL(0)	
452	(1C4)	ADDRESS	1		RPL IDENTIFICATION
453	(1C5)	ADDRESS	1		RPL SUBTYPE X04SVHS
454	(1C6)	ADDRESS	1		RPL REQUEST TYPE
455	(1C7)	ADDRESS	1		RPL LENGTH X03004
456	(1C8)	ADDRESS	4		. POINTER TO PLACEHOLDER
460	(1CC)	ADDRESS	4		. ECB
464	(1D0)	BITSTRING	1		. STATUS BYTE
465	(1D1)	BITSTRING	3		FEEDBACK CODES
468	(1D4)	ADDRESS	2		. KEY LENGTH
470	(1D6)	ADDRESS	2		. TRANSID
472	(1D8)	ADDRESS	4		POINTER TO CONTROL CHARACTER
476	(1DC)	ADDRESS	4		. POINTER TO ACB
480	(1E0)	ADDRESS	4		. POINTER TO TCB
484	(1E4)	ADDRESS	4		. POINTER TO RECORD AREA
488	(1E8)	ADDRESS	4		. POINTER TO ARGUMENT
492	(1EC)	BITSTRING	1		. OPTCD BYTE 1
493	(1ED)	BITSTRING	1		
494	(1EE)	BITSTRING	1		OPTCD BYTE 3
495	(1EF)	BITSTRING	1		OPTCD BYTE 4
496	(1F0)	ADDRESS	4		. POINTER TO NEXT RPL
500	(1F4)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
504	(1F8)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004

Table 504. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
508	(1FC)	BITSTRING	1		
509	(1FD)	BITSTRING	1		
510	(1FE)	BITSTRING	1		
511	(1FF)	BITSTRING	1		
512	(200)	BITSTRING	8		. RBA
520	(208)	BITSTRING	1		
521	(209)	ADDRESS	1		ACTIVE INDICATOR
522	(20A)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
524	(20C)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
528	(210)	ADDRESS	4	SJXTACB	Address of ACB for SYSLOG
532	(214)	BITSTRING	4		Reserved for future use
536	(218)	SIGNED	4	SJXJSPCT	Number of SAPI threads awaiting JES2 addresspace
		MACDATE = 06/13/1996			
540	(21C)	SIGNED	4	SJXALES(0)	.ALESERV PC PARAMETER LIST
540	(21C)	BITSTRING	1		.SERVICE TYPE CODE
541	(21D)	BITSTRING	1		.OPTIONS FLAG BYTE
542	(21E)	ADDRESS	2		.RESERVED
544	(220)	ADDRESS	4		.ALET
548	(224)	BITSTRING	8		.STOKEN (SPACE TOKEN)
548	(224)	X'10'	0	SJXALESL	"*-SJXALES" Length of block
		MACDATE = 04/03/89			
540	(21C)	SIGNED	4	SJXTTOK(0)	
540	(21C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
540	(21C)	BITSTRING	8		
548	(224)	SIGNED	4		
552	(228)	ADDRESS	4		
556	(22C)	ADDRESS	4		ASCB ADDRESS (INPUT)
560	(230)	SIGNED	4	(0)	FLAGS (INPUT)
560	(230)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
561	(231)	SIGNED	3		RESERVED
561	(231)	X'18'	0	SJXTTOKL	"*-SJXTTOK" Length of block
564	(234)	BITSTRING	204	SJXS35D	Memory in primary space for WTOLOGQ processing (serialized by SJB lock)
768	(300)	DBL WORD	8	(0)	
768	(300)	X'300'	0	SJXBSIZE	"*-SJXB" SIZE OF SJB EXTENSION

Table 505. Structure SJXDEB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJXDEB	, Start of DSECT
0	(0)	CHARACTER	4	SJXDID	Eyecatcher
4	(4)	ADDRESS	4	SJXDSJXB	Address of SJXB
8	(8)	SIGNED	4	SJXDLEN	Length of SJXDEB
12	(C)	SIGNED	4	SJXDSTRT(0)	Start of DEBs

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		DEB for HASP job log data set			
12	(C)	BITSTRING	1	SJXLDEB	
		ACB for internal text/SWA blocks data set			
44	(2C)	SIGNED	4	SJXIACB(0)	
44	(2C)	BITSTRING	1		. ACB IDENTIFICATION
45	(2D)	ADDRESS	1		ACB SUBTYPE X04SVHS
46	(2E)	ADDRESS	2		. ACB LENGTH X03004HS
48	(30)	ADDRESS	4		. AMB LIST POINTER
52	(34)	ADDRESS	4		. INTERFACE ROUTINE POINTER
56	(38)	BITSTRING	1		MACRF(1) X04SVHS
57	(39)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
58	(3A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
59	(3B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
60	(3C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
62	(3E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
64	(40)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
65	(41)	ADDRESS	1		SHARED RESOURCE POOL ID
66	(42)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
68	(44)	BITSTRING	1		. RECFM=A
69	(45)	BITSTRING	1		READ INTEGRITY OPTIONS
70	(46)	BITSTRING	2		. DSORG=ACB
72	(48)	ADDRESS	4		X04SVHS
76	(4C)	ADDRESS	4		. PASSWORD POINTER
80	(50)	ADDRESS	4		. EXIT LIST POINTER
84	(54)	CHARACTER	8		
92	(5C)	BITSTRING	1		OFLAGS
93	(5D)	ADDRESS	1		. ERFLAGS
94	(5E)	BITSTRING	1		INFLGS(1) X04SVHS
95	(5F)	BITSTRING	1		INFLGS(2) X04SVHS
96	(60)	ADDRESS	4		. OPENJ JFCB POINTER
100	(64)	ADDRESS	4		BUFFER SPACE
104	(68)	ADDRESS	2		. BLOCK SIZE
106	(6A)	ADDRESS	2		. RECORD SIZE
108	(6C)	ADDRESS	4		. USER WORKAREA POINTER
112	(70)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
116	(74)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
		DEB for internal text/SWA blocks data set			

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	BITSTRING	1	SJXIDEB	
		ACB for system messages dataset			
152	(98)	SIGNED	4	SJXMACB(0)	
152	(98)	BITSTRING	1		. ACB IDENTIFICATION
153	(99)	ADDRESS	1		ACB SUBTYPE X04SVHS
154	(9A)	ADDRESS	2		. ACB LENGTH X03004HS
156	(9C)	ADDRESS	4		. AMB LIST POINTER
160	(A0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
164	(A4)	BITSTRING	1		MACRF(1) X04SVHS
165	(A5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
166	(A6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
167	(A7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
168	(A8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
170	(AA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
172	(AC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
173	(AD)	ADDRESS	1		SHARED RESOURCE POOL ID
174	(AE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
176	(B0)	BITSTRING	1		. RECFM=A
177	(B1)	BITSTRING	1		READ INTEGRITY OPTIONS
178	(B2)	BITSTRING	2		. DSORG=ACB
180	(B4)	ADDRESS	4		X04SVHS
184	(B8)	ADDRESS	4		. PASSWORD POINTER
188	(BC)	ADDRESS	4		. EXIT LIST POINTER
192	(C0)	CHARACTER	8		
200	(C8)	BITSTRING	1		OFLAGS
201	(C9)	ADDRESS	1		. ERFLAGS
202	(CA)	BITSTRING	1		INFLGS(1) X04SVHS
203	(CB)	BITSTRING	1		INFLGS(2) X04SVHS
204	(CC)	ADDRESS	4		. OPENJ JFCB POINTER
208	(D0)	ADDRESS	4		BUFFER SPACE
212	(D4)	ADDRESS	2		. BLOCK SIZE
214	(D6)	ADDRESS	2		. RECORD SIZE
216	(D8)	ADDRESS	4		. USER WORKAREA POINTER
220	(DC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
224	(E0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
		DEB for system messages data set			
228	(E4)	BITSTRING	1	SJXMDEB	

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
RPL for system messages dataset					
260	(104)	SIGNED	4	SJXMRPL(0)	
260	(104)	ADDRESS	1		RPL IDENTIFICATION
261	(105)	ADDRESS	1		RPL SUBTYPE X04SVHS
262	(106)	ADDRESS	1		RPL REQUEST TYPE
263	(107)	ADDRESS	1		RPL LENGTH X03004
264	(108)	ADDRESS	4		. POINTER TO PLACEHOLDER
268	(10C)	ADDRESS	4		. ECB
272	(110)	BITSTRING	1		. STATUS BYTE
273	(111)	BITSTRING	3		FEEDBACK CODES
276	(114)	ADDRESS	2		. KEY LENGTH
278	(116)	ADDRESS	2		. TRANSID
280	(118)	ADDRESS	4		POINTER TO CONTROL CHARACTER
284	(11C)	ADDRESS	4		
288	(120)	ADDRESS	4		. POINTER TO TCB
292	(124)	ADDRESS	4		. POINTER TO RECORD AREA
296	(128)	ADDRESS	4		. POINTER TO ARGUMENT
300	(12C)	BITSTRING	1		. OPTCD BYTE 1
301	(12D)	BITSTRING	1		
302	(12E)	BITSTRING	1		OPTCD BYTE 3
303	(12F)	BITSTRING	1		OPTCD BYTE 4
304	(130)	ADDRESS	4		. POINTER TO NEXT RPL
308	(134)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
312	(138)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
316	(13C)	BITSTRING	1		
317	(13D)	BITSTRING	1		
318	(13E)	BITSTRING	1		
319	(13F)	BITSTRING	1		
320	(140)	BITSTRING	8		. RBA
328	(148)	BITSTRING	1		
329	(149)	ADDRESS	1		ACTIVE INDICATOR
330	(14A)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
332	(14C)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
ACB for journal dataset					
336	(150)	SIGNED	4	SJXJACB(0)	
336	(150)	BITSTRING	1		. ACB IDENTIFICATION
337	(151)	ADDRESS	1		ACB SUBTYPE X04SVHS
338	(152)	ADDRESS	2		. ACB LENGTH X03004HS
340	(154)	ADDRESS	4		. AMB LIST POINTER
344	(158)	ADDRESS	4		. INTERFACE ROUTINE POINTER
348	(15C)	BITSTRING	1		MACRF(1) X04SVHS
349	(15D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
350	(15E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
351	(15F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
352	(160)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
354	(162)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
356	(164)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
357	(165)	ADDRESS	1		SHARED RESOURCE POOL ID
358	(166)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
360	(168)	BITSTRING	1		. RECFM=A
361	(169)	BITSTRING	1		READ INTEGRITY OPTIONS
362	(16A)	BITSTRING	2		. DSORG=ACB
364	(16C)	ADDRESS	4		X04SVHS
368	(170)	ADDRESS	4		. PASSWORD POINTER
372	(174)	ADDRESS	4		. EXIT LIST POINTER
376	(178)	CHARACTER	8		
384	(180)	BITSTRING	1		OFLAGS
385	(181)	ADDRESS	1		. ERFLAGS
386	(182)	BITSTRING	1		INFLGS(1) X04SVHS
387	(183)	BITSTRING	1		INFLGS(2) X04SVHS
388	(184)	ADDRESS	4		. OPENJ JFCB POINTER
392	(188)	ADDRESS	4		BUFFER SPACE
396	(18C)	ADDRESS	2		. BLOCK SIZE
398	(18E)	ADDRESS	2		. RECORD SIZE
400	(190)	ADDRESS	4		. USER WORKAREA POINTER
404	(194)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
408	(198)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
408	(198)	X'4C'	0	SJACBLGH	"*-SJXJACB" Length of JACB
DEB for journal dataset					
412	(19C)	BITSTRING	1	SJXJDEB	
ACB for EVENTLOG data set					
444	(1BC)	BITSTRING	4	SJXEACBP(0)	EVENTLOG ACB Options prefix
444	(1BC)	BITSTRING	1	SJXEAPF1	Suppression flags
		1...		SJXEAPSM	"B'10000000'" Suppress EVENTLOG SMF rec
		..1.		SJXEAPRS	"B'00100000'" Suppress EVENTLOG RESTART
		...1		SJXEAPTR	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		SJXEAPUS	"B'00001000'" Suppress EVENTLOG USER rc
445	(1BD)	BITSTRING	3		Reserved
445	(1BD)	X'4'	0	SJXEAPLN	"*-SJXEACBP" Length of Options prefix

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
448	(1C0)	SIGNED	4	SJXEACB(0)	
448	(1C0)	BITSTRING	1		. ACB IDENTIFICATION
449	(1C1)	ADDRESS	1		ACB SUBTYPE X04SVHS
450	(1C2)	ADDRESS	2		. ACB LENGTH X03004HS
452	(1C4)	ADDRESS	4		. AMB LIST POINTER
456	(1C8)	ADDRESS	4		. INTERFACE ROUTINE POINTER
460	(1CC)	BITSTRING	1		MACRF(1) X04SVHS
461	(1CD)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
462	(1CE)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
463	(1CF)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
464	(1D0)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
466	(1D2)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
468	(1D4)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
469	(1D5)	ADDRESS	1		SHARED RESOURCE POOL ID
470	(1D6)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
472	(1D8)	BITSTRING	1		. RECFM=A
473	(1D9)	BITSTRING	1		READ INTEGRITY OPTIONS
474	(1DA)	BITSTRING	2		. DSORG=ACB
476	(1DC)	ADDRESS	4		X04SVHS
480	(1E0)	ADDRESS	4		. PASSWORD POINTER
484	(1E4)	ADDRESS	4		. EXIT LIST POINTER
488	(1E8)	CHARACTER	8		
496	(1F0)	BITSTRING	1		OFLAGS
497	(1F1)	ADDRESS	1		. ERFLAGS
498	(1F2)	BITSTRING	1		INFLGS(1) X04SVHS
499	(1F3)	BITSTRING	1		INFLGS(2) X04SVHS
500	(1F4)	ADDRESS	4		. OPENJ JFCB POINTER
504	(1F8)	ADDRESS	4		BUFFER SPACE
508	(1FC)	ADDRESS	2		. BLOCK SIZE
510	(1FE)	ADDRESS	2		. RECORD SIZE
512	(200)	ADDRESS	4		. USER WORKAREA POINTER
516	(204)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
520	(208)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
520	(208)	X'4C'	0	SJEACBLN	"*-SJXEACB" Length of SJXEACB
	DEB for EVENTLOG data set				
524	(20C)	BITSTRING	1	SJXEDEB	
524	(20C)	X'20'	0	SJEDEBLN	"*-SJXEDEB" Length of SJXEDEB
	RPL for EVENTLOG data set				

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
556	(22C)	SIGNED	4	SJXERPL(0)	
556	(22C)	ADDRESS	1		RPL IDENTIFICATION
557	(22D)	ADDRESS	1		RPL SUBTYPE X04SVHS
558	(22E)	ADDRESS	1		RPL REQUEST TYPE
559	(22F)	ADDRESS	1		RPL LENGTH X03004
560	(230)	ADDRESS	4		. POINTER TO PLACEHOLDER
564	(234)	ADDRESS	4		. ECB
568	(238)	BITSTRING	1		. STATUS BYTE
569	(239)	BITSTRING	3		FEEDBACK CODES
572	(23C)	ADDRESS	2		. KEY LENGTH
574	(23E)	ADDRESS	2		. TRANSID
576	(240)	ADDRESS	4		POINTER TO CONTROL CHARACTER
580	(244)	ADDRESS	4		
584	(248)	ADDRESS	4		. POINTER TO TCB
588	(24C)	ADDRESS	4		. POINTER TO RECORD AREA
592	(250)	ADDRESS	4		. POINTER TO ARGUMENT
596	(254)	BITSTRING	1		. OPTCD BYTE 1
597	(255)	BITSTRING	1		
598	(256)	BITSTRING	1		OPTCD BYTE 3
599	(257)	BITSTRING	1		OPTCD BYTE 4
600	(258)	ADDRESS	4		. POINTER TO NEXT RPL
604	(25C)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
608	(260)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
612	(264)	BITSTRING	1		
613	(265)	BITSTRING	1		
614	(266)	BITSTRING	1		
615	(267)	BITSTRING	1		
616	(268)	BITSTRING	8		. RBA
624	(270)	BITSTRING	1		
625	(271)	ADDRESS	1		ACTIVE INDICATOR
626	(272)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
628	(274)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
		Parameter list for the external writer. A copy of the parameter list must be kept below the line since the external writer can not access data above the line.			
632	(278)	SIGNED	4	SJXXWPL(0)	External writer parameter list
632	(278)	SIGNED	4	SJXXWECB	ECB for the external writer
636	(27C)	BITSTRING	4	SJXRDRON	Time on input processor
640	(280)	BITSTRING	4	SJXRDTON	Date on input processor
644	(284)	CHARACTER	8	SJXUSEID	JMR installation data field
		End of external writer parameter list Single DEB for special processing cases (NETSERV, $LOGMSG, etc).			
12	(C)	BITSTRING	36	SJX1DEB	

Table 505. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	DBL WORD	8	(0)	Round up area length
48	(30)	X'30'	0	SJXD1SIZ	"*-SJXDEB" Length with a single DEB
656	(290)	DBL WORD	8	(0)	Round up area
656	(290)	X'290'	0	SJXDSIZE	"*-SJXDEB" Length of extension

Table 506. Cross Reference for $SJXB

Name	Offset	Hex Tag
SJACBLGH	198	4C
SJEACBLN	208	4C
SJEDEBLN	20C	20
SJXACCT	74	
SJXALES	21C	
SJXALESL	224	10
SJXALTST	44	
SJXB	0	
SJXBDEBS	8	
SJXBID	0	
SJXBPIOB	C	
SJXBSIOT	18	
SJXBSIZE	300	300
SJXBSJBA	4	
SJXBSPDB	1C	
SJXBUSAV	18	
SJXBYINT	6C	
SJXBYTES	6C	
SJXBYTOP	70	
SJXCLBEG	14	
SJXCLEND	118	
SJXDEB	0	
SJXDID	0	E2D1E7C4
SJXDLEN	8	
SJXDSCA	40	
SJXDSIZE	290	290
SJXDSJXB	4	
SJXDSTRT	C	
SJXDWORK	A8	
SJXD1SIZ	30	30
SJXEACB	1C0	
SJXEACBP	1BC	
SJXEAPF1	1BC	
SJXEAPLN	1BD	4
SJXEAPRS	1BC	20
SJXEAPSM	1BC	80
SJXEAPTR	1BC	10
SJXEAPUS	1BC	8

Table 506. Cross Reference for $SJXB (continued)

Name	Offset	Hex Tag
SJXEDEB	20C	0
SJXERPL	22C	
SJXFLAG1	1D	
SJXFLAG2	1F	
SJXGGST	10	
SJXIACB	2C	
SJXIDEB	78	0
SJXJACB	150	
SJXJBBYT	C8	
SJXJBLRC	23	20
SJXJBMRC	23	40
SJXJBPAG	C0	
SJXJBPPS	2C	
SJXJBPRT	B0	
SJXJBPSN	24	
SJXJBPUN	B8	
SJXJBSRC	23	10
SJXJCOR	D8	
SJXJDEB	19C	0
SJXJMR	80	
SJXJOBRC	23	
SJXJSPCT	218	
SJXLACB	124	
SJXLDEB	C	0
SJXLINES	54	
SJXLNINT	54	
SJXLNOP	58	
SJXLOGE	1B8	1BC
SJXLRPL	170	
SJXLSPC	11C	
SJXMACB	98	
SJXMDEB	E4	0
SJXMRPL	104	
SJXMSGCL	78	
SJXMSPC	120	
SJXNJACB	124	
SJXNJRPL	170	0
SJXPAGES	64	
SJXPBFCT	94	
SJXPBFLM	118	
SJXPGINT	64	
SJXPGOP	68	
SJXPUINT	5C	
SJXPUNCH	5C	
SJXPUNOP	60	
SJXRDRON	27C	

Table 506. Cross Reference for $SJXB (continued)

Name	Offset	Hex Tag
SJXRDTON	280	
SJXRESRV	9C	
SJXRIOT	38	
SJXRPDDB	3C	
SJXSJBS	1C0	
SJXSLOGP	50	
SJXSPNUM	34	
SJXSPUNB	D0	
SJXS35D	234	
SJXTACB	210	
SJXTRPL	1C4	
SJXTTOK	21C	
SJXTTOKL	231	18
SJXUSEID	284	
SJXUSER	7C	
SJXWTCHN	98	
SJXXWECB	278	
SJXXWPL	278	
SJX1DEB	C	0
SJX1JPGM	1D	40
SJX1JSDS	1D	20
SJX1J722	1D	10
SJX1PLHD	1D	80
SJX2INTR	1F	40
SJX2TITL	1F	80

$SMF information

$SMF programming interface information

$SMF is a programming interface.

$SMF heading information

Common name: HASP SMF BUFFER DSECT

Macro ID: $SMF

DSECT name: SMF

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: See symbols SMFPOOL and B32KPOOL in macro $HASPEQU.
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the JES2 address space.

Size: See SMFLNG

Created by: An SMF buffer is allocated from either the SMF cell pool or the B32K cell pool. These cell pools are created during JES2 initialization. The $GETSMFB service is used to allocate an SMF buffer from the appropriate cell pool.

Pointed to by: Field $SMFBUSY in the $HCT data area points to the queue of SMF buffers to be written. The buffers are chained via field SMFCHAIN.
Some PCE work areas point to an SMF buffer.

Serialization: A PCE obtains an SMF buffer using the $GETSMFB macro. It has exclusive control of the buffer until it queues it for writing ($QUESMFB macro) or frees it ($FRESMFB macro). After queueing a buffer, the PCE cannot use it. The HASPACCT subtask frees the buffer after writing it.
The $QUESMFB service uses compare and swap to stack a buffer onto $SMFBUSY. The HASPACCT subtask uses compare and swap to dequeue the last buffer chained from $SMFBUSY.

Function: $SMF contains mappings for types 6,24,26,43,45,47, 48,49,52,53,54,54,55,56,57,and 58 SMF records.
IFASMFR is called by $SMF and expanded within for each SMF record.
When computing actual SMF displacements, remember the JES2 SMF headers contribute 8 bytes to all $SMF macro displacements.

$SMF mapping

Table 507. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	HASP SMF BUFFER DSECT
0	(0)	SIGNED	4	SMFCHAIN	SMF BUFFER CHAIN TO NEXT BUFFER
4	(4)	BITSTRING	1	SMFTYPE	TYPE OF BUFFER
		1...		SMFJMRTP	"B'10000000'" JMR BUFFER
		.1..		SMFLRGTP	"B'01000000'" LARGE SMF RECORD BUFFER
		..1.		SMFQUED	"B'00100000'" Buffer is queued to HASPACCT subtask
5	(5)	CHARACTER	1	SMFWFL26	RECORD 26 WRITE FLAG
5	(5)	X'1'	0	SMFNO26	"1" DO NOT WRITE SMF RECORD
6	(6)	CHARACTER	1	SMFCLFLG	CLASS SMF AFFINITY
		1		SMFAPPC	"X'01'" System affinity for transaction programs
7	(7)	CHARACTER	1	SMFPARM	RESERVED
7	(7)	X'8'	0	SMFLNHDR	"*-SMF" LENGTH OF JES2 BUFFER HEADER
THE FOLLOWING ARE COMMON FIELD NAMES USED FOR MULTIPLE RECORDS EACH INDIVIDUAL RECORD HAS A RECORD SPECIFIC NAME FOR EACH FIELD SUCH AS SMFNNXXX WHERE, NN = RECORD NUMBER, AND XXX = FIELD NAME					
8	(8)	CHARACTER	4	SMFJMRCH(0)	POINTER TO PURGE REC BUFFER
8	(8)	CHARACTER	4	SMFRDW(0)	SMF RECORD DESCRIPTOR WORD
8	(8)	CHARACTER	2	SMFLEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMFSEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
10	(A)	X'C'	0	SMFJMR	"*" JMR DATA AREA

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
 IN JES2, THIS RECORD IS WRITTEN FOR EACH JOB OUTPUT ELEMENT,
 WHICH REPRESENTS A GROUP OF DS DIFFERENTIATED BY PUNCH OR
 PRINTER SETUP & TYPE OF OUTPUT(EG HELD VS NON-HELD).
 FOR JES3, WRITTEN FOR EACH COPY OF A DATA SET
```

8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
8	(8)	X'8'	0	SMFRCD6	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF6LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF6SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF6FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF6RTY	RECORD TYPE 6
13	(D)	X'6'	0	SMFJ6	"6" PRINT/PUNCH RECORD TYPE
14	(E)	BITSTRING	4	SMF6TME	TOD, USING FORMAT FROM TIME MACRO W/ BIN. INTVL
18	(12)		4	SMF6DTE	DATE IN PACKED DECIMAL FORM: 00YYDDDF
22	(16)	CHARACTER	4	SMF6SID	SYSTEM IDENTIFICATION Y02901
26	(1A)	CHARACTER	8	SMF6JBN	JOB NAME
34	(22)	BITSTRING	4	SMF6RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF6RSD	READER START DATE 00YYDDDF
42	(2A)	CHARACTER	8	SMF6UIF	USER ID FIELD
50	(32)	CHARACTER	1	SMF6OWC	OUTPUT WTR CLASS, BLANK FOR NON-SYSOUT
51	(33)	BITSTRING	4	SMF6WST	WRITER START TIME
55	(37)		4	SMF6WSD	WRITER START DATE
59	(3B)	BITSTRING	4	SMF6NLR	# OF LOGICAL RECORDS HANDLED BY WRITER PER FORM # PER CLASS, INCLUDES REPEATS AND RESTARTS.
63	(3F)	BITSTRING	1	SMF6IOE	IO ERROR INDICATOR: BITS 0-4 RESERVED Y02120

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SMF6DIE	"X'04'" 5 - DATA INPUT ERROR 6 - RESV Y02120
		1		SMFCBIE	"X'01'" 7 - CONTROL BLOCK INPUT ERROR
64	(40)	BITSTRING	1	SMF6NDS	# OF DATA SETS PROCESSED BY THE OUTPUT Y02120 WRITER AND INCLUDED IN THIS RECORD. Y02120 (COUNT FOR EACH TIME A DS IS PRINTED) Y02120 DOES NOT INCLUDE RESTARTS.
65	(41)	CHARACTER	4	SMF6FMN	FORM NUMBER
69	(45)	BITSTRING	1	SMF6PAD1	STATUS INDICATORS - THE SECTIONS WILL BE IN THE ORDER LISTED BELOW WHEN THE BIT IS TURNED ON BIT MEANING
		1...		SMF6FEXT	"X'80'" 0 1 - FIRST EXTENSION PRESENT
		.1..		SMF6REXT	"X'40'" 1 1 - COMMON SECTION PRESENT
		..1.		SMF6SEXT	"X'20'" 2 1 - SECOND EXTENSION PRESENT
		...1		SMF6ESS1	"X'10'" 3 1 - ENHANCED SYSOUT SECTION PRESENT
		.... 1...		SMF6FTFR	"X'08'" 4 1 - FILE TRANSFER SECTION PRESENT 5-7 RESERVED
70	(46)	BITSTRING	2	SMF6SBS	SUBSYSTEM GENERATING ID EXTWTR=0, JES2=2, JES3=5, PSF=7, IP PrintWay = 9
72	(48)	BITSTRING	2	SMF6LN1	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	1	SMF6DCI	DS CONTROL INDICATORS FOR DATA GROUP
		1...		SMF6DCRV	"X'80'" 0 - RESERVED
		.1..		SMF6SDS	"X'40'" 1 - SPUN OFF DS
		..1.		SMF6OCN	"X'20'" 2 - TERMINATED BY OPERATOR
		...1		SMF6ORD	"X'10'" 3 - INTERRUPTED BY OPERATOR (JES2) OPERATOR RESTARTED DATA SET WITH DESTINATION (JES3)
		.... 1...		SMF6OR	"X'08'" 4 - RESTARTED BY OPERATOR
		.... .1..		SMF6ROR	"X'04'" 5 - CONT OF INTERRUPTED GROUP (JES2) RECEIVED OP RESTARTED DS(JES3)
		.... ..1.		SMF6OSS	"X'02'" 6 - CARRIAGE OVERRIDEN BY OPER(JES2) OPERATOR STARTED WITH SINGLE SPACE(JES3)
		1		SMF6INT	"X'01'" 7 - PUNCH WAS INTERPRETED
75	(4B)	BITSTRING	1	SMF6INDC	INDICATOR BITS BITS 0-3 ARE RESERVED FOR FUTURE EXPANSION OF DATASET CONTROL INDICATORS BITS 4-7 ARE RECORD LEVEL INDICATORS IN BIT VALUE FORMAT. EXAMPLE: LEVEL 1=X'01' LEVEL 12=X'0C' LEVEL 15=X'0F' THIS NUMBER WILL BE INCREMENTED BY 1 EACH TIME A NEW RELEASE CHANGES THE RECORD
		1		SMF6LEV2	"X'01'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		11		SMF6J2L3	"X'03'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		.... .1..		SMF6J2L4	"X'04'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT
		1		SMF6LEV3	"X'01'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
		11		SMF6J3L3	"X'03'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SMF6J3L4	"X'04'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT INDICATOR BITS.
		.... .1.1		SMF6LEV4	"X'05'" MVS/JES2 RELEASE 4.1.0
		.... .11.		SMF6LEV6	"X'06'" PSF/MVS RELEASE 3.1.0
		.... .111		SMF6LEV7	"X'07'" Z/OS RELEASE V1R5
76	(4C)	CHARACTER	4	SMF6JNM	WHEN SMF6INDC CONTAINS A X'1', THIS FIELD CONTAINS A FOUR-DIGIT EBCDIC JOB NUMBER. WHEN SMF6INDC CONTAINS A X'3' OR GREATER, AND THE JOB NUMBER HAS MORE THAN 4 DIGITS, THIS FIELD CONTAINS ZEROS. IF THE JOB NUMBER IS < OR = TO 9999, THIS FIELD CONTAINS THE JOB NUMBER. FOR AN APPC TRANSACTION, THIS FIELD CONTAINS ZEROES. THE CORRECT JOB NUMBER OR APPC TRANSACTION ID IS FOUND IN SMF6JBID.
80	(50)	CHARACTER	8	SMF6OUT	LOGICAL OUTPUT DEVICE NAME FOR THE 3820, ACF/VTAM LOGICAL UNIT NAME
88	(58)	CHARACTER	4	SMF6FCB	FCB ID Y02120
92	(5C)	CHARACTER	4	SMF6UCS	UCS ID Y02120 END OF RECORD FOR EXTERNAL WTR
96	(60)	BITSTRING	4	SMF6PGE	APPROXIMATE PHYSICAL PAGE COUNT
96	(60)	X'64'	0	SMF6J2S	"*" BEGIN JES2 ONLY SECTION
100	(64)	BITSTRING	2	SMF6RTE	OUTPUT ROUTE CODE OR ZERO
102	(66)	BITSTRING	1	SMF6END2(0)	END OF JES2 RECORD
102	(66)	BITSTRING	0	SMF6SIZ2(0)	SIZE OF JES2 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
102	(66)	BITSTRING	0	SMF6SIZ3(0)	SIZE OF JES2 SMF6 RECORD FROM SMF6LN1 TO HERE
100	(64)	X'64'	0	SMF6J3S	"*" BEGIN JES3 ONLY SECTION
100	(64)	BITSTRING	2	SMF6DFE	DATA FORMAT ERROR INDICATORS BITS 0-5 RESV
		.... ..1.		SMF6CCE	"X'02'" 6 - SOME 1ST CHAR CONTROL DATA BAD, DEFAULT USED
		1		SMF6RBE	"X'01'" 7 - BAD RECORD LENGTH(TRUNCATE OR PAD) 8-15 RESV
102	(66)	BITSTRING	2	SMF6OPR	OUTPUT PRIORITY
104	(68)	CHARACTER	8	SMF6GRP	LOGICAL OUTPUT DEVICE GROUP NAME
112	(70)	CHARACTER	8	SMF6RSVJ	RESERVED FOR JES3
120	(78)	CHARACTER	4	SMF6RSVU	RESERVED FOR USER
124	(7C)	BITSTRING	1	SMF6END(0)	END OF JES3 RECORD
124	(7C)	BITSTRING	0	SMF6SIZ(0)	SIZE OF JES3 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
124	(7C)	BITSTRING	1	SMF6LSIZ(0)	SIZE OF JES3 SMF6 RECORD FROM SMF6LN1 TO HERE
FIRST EXTENSION - NON-IMPACT PRINTING SUBSYSTEM SECTION THIS SECTION WILL ONLY BE PRESENT WHEN SMF6SBS IS SET TO 2, 5 OR 7 INDICATING THAT JES2, JES3 OR PSF HAS GENERATED THIS RECORD					
72	(48)	BITSTRING	2	SMF6LN2	LENGTH FIRST EXTENSION INCLUDING THIS FLD
74	(4A)	CHARACTER	1	SMF6CPS(8)	COPIES DISTRIBUTION
82	(52)	CHARACTER	4	SMF6CHR(4)	TRANSLATE TABLE NAMES FRO CHARS PARM

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
98	(62)	CHARACTER	4	SMF6MID	COPY MODIFICATION MODULE NAME
102	(66)	CHARACTER	4	SMF6FLI	FLASH OVERLAY NAME
106	(6A)	BITSTRING	1	SMF6FLC	NUMBER OF COPIES FLASHED
107	(6B)	BITSTRING	1	SMF6BID	FLAG BYTE
		1...		SMF6BTS	"X'80'" THE BTSS WAS USED FOR OUTPUT
		.1..		SMF6OPJ	"X'40'" OPTCD=J WAS USED FOR OUTPUT
		..1.		SMF6CSP	"X'20'" CUT SHEET PRINTER
108	(6C)	BITSTRING	1	SMF6FEND(0)	END OF FIRST EXTENSION
108	(6C)	BITSTRING	1	SMF6FSIZ(0)	SIZE OF FIRST EXTENSION
COMMON SECTION - THIS SECTION IS AN EXTENSION OF THE FIXED HEADER SECTION AND WILL BE WRITTEN BY ALL GENERATORS OF THE TYPE 6 RECORD. THIS WAS PREVIOUSLY CALLED THE ROUTING SECTION.					
72	(48)	BITSTRING	2	SMF6LN3	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	CHARACTER	4	SMF6ROUT	OUTPUT ROUTE CODE
78	(4E)	CHARACTER	8	SMF6EFMN	OUTPUT FORM NUMBER
86	(56)	BITSTRING	1	SMF6REND(0)	END OF OLD ROUTING SECTION
86	(56)	BITSTRING	0	SMF6RSIZ(0)	SIZE OF OLD ROUTING SECTION
86	(56)	CHARACTER	16		RESERVED
102	(66)	CHARACTER	8	SMF6JBID	JOB ID
110	(6E)	CHARACTER	8	SMF6STNM	STEPNAME
118	(76)	CHARACTER	8	SMF6PRNM	PROCEDURE STEP NAME
126	(7E)	CHARACTER	8	SMF6DDNM	DD NAME
134	(86)	CHARACTER	8	SMF6USID	USER ID
142	(8E)	CHARACTER	8	SMF6SECS	SECURITY LABEL (SECLABEL)
150	(96)	CHARACTER	8	SMF6PRMD	PROCESSING MODE
158	(9E)	CHARACTER	53	SMF6DSNM	DATA SET RESOURCE NAME
211	(D3)	CHARACTER	3		RESERVED
214	(D6)	CHARACTER	20	SMF6OTOK	OUTPUT GROUP TOKEN
234	(EA)	BITSTRING	1	SMF6DEND(0)	END OF ROUTING SECTION
234	(EA)	BITSTRING	1	SMF6DSIZ(0)	SIZE OF ROUTING SECTION
ENHANCED SYSOUT SECTION					
72	(48)	BITSTRING	2	SMF6LN5	LENGTH ENHANCED SYSOUT SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6SGID	SEGMENT IDENTIFIER
78	(4E)	BITSTRING	1	SMF6IND	SECTION INDICATOR
		1...		SMF6SJF	"X'80'" ERROR OBTAINING SWBTU - SWBTU DATA AREA NOT PRESENT
79	(4F)	BITSTRING	1	SMF6RSV	RESERVED
80	(50)	CHARACTER	8	SMF6JDVT	JDVTNAME
88	(58)	BITSTRING	2	SMF6TUL	SWBTU DATA AREA LENGTH
90	(5A)	CHARACTER	1	SMF6TU(0)	SWBTU DATA AREA - DATA AREA CAN BE PROCESSED USING SWBTUREQ MACRO
90	(5A)	BITSTRING	1	SMF6EEND(0)	END OF ENHANCED SYSOUT SECTION

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
90	(5A)	BITSTRING	1	SMF6ESIZ(0)	SIZE OF ENHANCED SYSOUT SEC. MOVED SMF6LN4 TO AOPSMF6 2 MOVED SMF6BNLN TO AOPSMF6 2 MOVED SMF6BNNO TO AOPSMF6 4 MOVED SMF6LN6 TO AOPSMF6 11

```
    METHOD OF ACCESS
    PLAS: %INCLUDE SYSLIB(AOPSMF6)
    ASSEMBLER: AOPSMF6
   NOTES:
               PL/AS - INCLUDED BY IFASMFR
               BAL - CALLED FROM IFASMFR
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF PORTIONS OF
  THE SMF TYPE 6 RECORD. THE SECTIONS ARE:
     SECOND EXTENSION - APA SECTION - WRITTEN BY PSF (SMF6SBS=7)
     MULTI-BINS HEADER SECTION - WRITTEN BY PSF (SMF6SBS=7)
     MULTI-BINS COUNTER SECTION - WRITTEN BY PSF (SMF6SBS=7)
     FILE TRANSFER SECTION - WRITTEN BY IP PRINTWAY (SMF6SBS=9)
     SECOND EXTENSION - APA (ALL POINTS ADDRESSABLE) PRINTING
                        SUBSYSTEM SECTION
                        THIS SECTION WILL ONLY BE PRESENT WHEN
                        SMF6SBS IS SET TO 7 INDICATING THAT
                        PSF HAS GENERATED THIS RECORD
```

72	(48)	BITSTRING	2	SMF6LN4	LENGTH SECOND EXTENSION INCLUDING THIS FLD
74	(4A)	BITSTRING	2	SMF6BNOF	OFFSET TO BIN SECTION
74	(4A)	BITSTRING	2	SMF6RES	RESERVED - REDEFINES SMF6BNOF
76	(4C)	BITSTRING	4	SMF6FONT	NUMBER OF FONTS USED
80	(50)	BITSTRING	4	SMF6LFNT	NUMBER OF FONTS LOADED
84	(54)	BITSTRING	4	SMF6OVLY	NUMBER OF OVERLAYS USED
88	(58)	BITSTRING	4	SMF6LOLY	NUMBER OF OVERLAYS LOADED
92	(5C)	BITSTRING	4	SMF6PGSG	NUMBER OF PAGE SEGMENTS USED
96	(60)	BITSTRING	4	SMF6LPSG	NUMBER OF PAGE SEGMENTS LOADED
100	(64)	BITSTRING	4	SMF6IMPS	COUNT OF LOGICAL IMPRESSIONS PROCESSED
104	(68)	BITSTRING	4	SMF6FEET	NUMBER OF FEET OF DOCUMENT PRINTED (ZERO FOR THE 3820)
108	(6C)	BITSTRING	4	SMF6PGDF	NUMBER OF PAGEDEFS USED
112	(70)	BITSTRING	4	SMF6FMDF	NUMBER OF FORMDEFS USED
116	(74)	BITSTRING	1	SMF6BIN	FLAG BYTE
		1...		SMF6BIN1	"X'80'" BIN1 WAS USED FOR ANY PART OF THE DATA SET
		.1..		SMF6BIN2	"X'40'" BIN2 WAS USED FOR ANY PART OF THE DATA SET
		..1.		SMF6BIN3	"X'20'" BIN3 WAS USED FOR ANY PART OF THE DATA SET
		...1		SMF6BIN4	"X'10'" BIN4 WAS USED FOR ANY PART OF THE DATA SET
117	(75)	BITSTRING	1	SMF6PGOP	FLAG BYTE
		1...		SMF6DUPS	"X'80'" STNDARD DUPLEX WAS USED FOR ANY PART OF DS
		.1..		SMF6DUPT	"X'40'" TUMBLE DUPLEX WAS USED FOR ANY PART OF DS
		..1.		SMF6SYSA	"X'20'" KEYWORD SYSAREA=Y
		...1		SMF6DPGL	"X'10'" KEYWORD DPAGELBL=Y
		.... 1...		SMF6SUCC	"X'08'" PRINT OPERATION WAS SUCCESSFUL
		.... .1..		SMF6SPGL	"X'04'" KEYWORD SPAGELBL=Y
		.... ..1.		SMF6SOER	"X'02'" ERROR OCCURRED PROCESSING SECURITY OVERLAY

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		SMF6IGER	"X'01'" IMAGE GENERATOR OVERRUN ERROR OCCURRED
118	(76)	BITSTRING	1	SMF6FLG3	FLAG BYTE
		1...		SMF6SLIG	"X'80'" SECURITY LABEL INTEGRITY GUARANTEED
		.1..		SMF6JHPP	"X'40'" THE JOB HEADER PAGE WAS PRINTED
		..1.		SMF6JTPP	"X'20'" THE JOB TRAILER PAGE WAS PRINTED
		...1		SMF6DPLS	"X'10'" DATA PAGE LABELING WAS SUPPRESSED
		.... 1...		SMF6UPAS	"X'08'" USER PRINTABLE AREA WAS SUPPRESSED
119	(77)	BITSTRING	1	SMF6APAL	LEVEL INDICATOR FOR APA SECTION
		1		SMF6APA1	"X'01'" INITIAL LEVEL OF APA SECTION
120	(78)	BITSTRING	4	SMF6NSOL	NUMBER OF SECURITY OVERLAYS USED
124	(7C)	BITSTRING	4	SMF6NSFO	NUMBER OF SECURITY FONTS USED
128	(80)	BITSTRING	4	SMF6NSPS	NUMBER OF SECURITY PAGE SEGMENTS USED
132	(84)	CHARACTER	8	SMF6FDNM	FORMDEF NAME
140	(8C)	CHARACTER	8	SMF6PDNM	PAGEDEF NAME
148	(94)	CHARACTER	8	SMF6PTDV	PRINTDEV NAME
156	(9C)	CHARACTER	32	SMF6OCNM	OBJECT CONTAINER NAME(S)
156	(9C)	CHARACTER	8	SMF6SETU	COMSETUP OBJECT CONTAINER NAME
164	(A4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
172	(AC)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
180	(B4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
188	(BC)	BITSTRING	4	SMF6LPGE	Count of logical pages processed
192	(C0)	BITSTRING	1	SMF6SEND(0)	END OF SECOND EXTENSION
192	(C0)	BITSTRING	1	SMF6SSIZ(0)	SIZE OF SECOND EXTENSION
MULTI-BINS HEADER SECTION (OFFSET DEFINED BY SMF6BNOF)					
8	(8)	BITSTRING	2	SMF6BNLN	LENGTH BINS SECTION INCLUDING THIS FLD
10	(A)	BITSTRING	2	SMF6BNUM	NUMBER OF COUNTERS ENTRIES
MULTI-BINS COUNTER SECTION - FOLLOWS "MULTI-BIN" HEADER SECTION					
8	(8)	BITSTRING	1	SMF6BNNO	BIN NUMBER
9	(9)	BITSTRING	3	SMF6BNCT	BIN COUNTER
12	(C)	BITSTRING	2	SMF6BNLE	Paper length in millimeters
14	(E)	BITSTRING	2	SMF6BNWI	Paper width in millimeters
FILE TRANSFER SECTION					
72	(48)	BITSTRING	2	SMF6LN6	LENGTH OF FILE TRANSFER SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6BYTE	TOTAL NUMBER OF BYTES SENT
78	(4E)	BITSTRING	1	SMF6IP1	1ST SEGMENT OF TARGET ADDRESS
79	(4F)	BITSTRING	1	SMF6IP2	2ND SEGMENT OF TARGET ADDRESS
80	(50)	BITSTRING	1	SMF6IP3	3RD SEGMENT OF TARGET ADDRESS

Table 507. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
81	(51)	BITSTRING	1	SMF6IP4	4TH SEGMENT OF TARGET ADDRESS
82	(52)	BITSTRING	1	SMF6FTL	LEVEL INDICATOR FOR FILE TRANSFER SECTION
		1		SMF6FTL1	"X'01'" Z/OS V1R5
83	(53)	CHARACTER	9		RESERVED
92	(5C)	BITSTRING	2	SMF6URIL	Length of Host URI
94	(5E)	BITSTRING	2	SMF6PQLN	Length of Print Queue Name
96	(60)	CHARACTER	24	SMF6PRTQ	Print Queue Name
120	(78)	CHARACTER	1	SMF6URI(0)	Target Device URI
120	(78)	BITSTRING	1	SMF6TEND(0)	END OF FILE TRANSFER SECTION
120	(78)	BITSTRING	0	SMF6TSIZ(0)	SIZE OF FILE TRANSFER SECTION

Table 508. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed

```
     START OF SPECIFICATIONS
     MACRO-NAME = IFASMFR
     PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
     STATUS= HBB77C0
     EXTERNAL CLASSIFICATION: PI
     END OF EXTERNAL CLASSIFICATION:
             THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
             ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
             RECORDS AS FOLLOWS:
                 MACRO RECORDS
                IFASMFR1 07-19
                IFASMFR2 20-27
                IFASMFR3 28-36
                IFASMFR4 37-46
                IFASMFR5 47-54
                IFASMFR6 55-69
                IFASMFR9 80-84
                IFASMFRA 85-103
                IFASMFRB 104-113
                IFASMFRC 114-123
                IFASMFRD 124-127
    01 METHOD OF ACCESS
      PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
             DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
             INCLUDE MACRO FROM LIBRARY
              EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                      DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                      %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                 A DIAGNOSTIC.
    01 NOTES: none
     END OF SPECIFICATIONS
   THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
   REQUIRED FORMAT IS
         IFASMFR &RECTYPE
   NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
        START OF SPECIFICATIONS
 01 MACRO-NAME = IFASMFR2
    01 PROPRIETARY STATEMENT=
      PROPRIETARY_STATEMENT
      LICENSED MATERIALS - PROPERTY OF IBM
      5650-ZOS
      COPYRIGHT IBM CORP. 1982, 2019
      STATUS= HBB77C0
      END_OF_PROPRIETARY_STATEMENT
     EXTERNAL CLASSIFICATION: PI
     END OF EXTERNAL CLASSIFICATION:
     IFASMFR2 maps SMF records in the range 20-27.
         %GOTO IFASMFR2B;
        END OF SPECIFICATIONS
         %GOTO IFAL20;
    START OF SPECIFICATIONS
 01 DESCRIPTIVE NAME: JES SMF SPOOL offload record
 02 ACRONYM: IAZSMF24
```

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 MACRO NAME: IAZSMF24 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF24 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DECIDE WHETHER TO GENERATE EQUATES FOR WRITING SMF RECORDS					
8	(8)	X'8'	0	SMFRCD24	"*" START OF RECORD
8	(8)	X'8'	0	SMF24PTR	"*" HEADER LENGTH
8	(8)	BITSTRING	1	SMF24BHD(0)	BEGINING BASE+HDR
8	(8)	CHARACTER	2	SMF24LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF24SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF24FLG	HEADER FLAG BYTE
		.1..		SMF24STS	"B'01000000'" SUBTYPES USED
13	(D)	BITSTRING	1	SMF24RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF24TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF24DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF24SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPE 24					
22	(16)	X'18'	0	SMFJ24	"24" SPOOL OFFLOAD RECORD TYPE
26	(1A)	BITSTRING	4	SMF24SSI	SUBSYSTEM ID
30	(1E)	BITSTRING	2	SMF24SUB	RECORD SUBTYPE
30	(1E)	X'1'	0	SMF24JT	"1" JOB TRANSMITTER
30	(1E)	X'2'	0	SMF24JR	"2" JOB RECEIVER
30	(1E)	X'3'	0	SMF24ST	"3" SYSOUT TRANSMITTER
30	(1E)	X'4'	0	SMF24SR	"4" SYSOUT RECEIVER
32	(20)	BITSTRING	2	SMF24NTR	NUMBER OF TRIPLETS
34	(22)	BITSTRING	2	SMF24RSV	RESERVED
34	(22)	X'1C'	0	SMF24LHD	"*-SMFRCD24" LEN OF HEADER SECTION
34	(22)	X'24'	0	SMF24TPS	"*" BEGINNING OF TRIPLETS
36	(24)	BITSTRING	4	SMF24OPS	OFFSET TO PRODUCT SECTION
40	(28)	BITSTRING	2	SMF24LPS	LENGTH OF PRODUCT SECTION
42	(2A)	BITSTRING	2	SMF24NPS	NUMBER OF PRODUCT SECTIONS
44	(2C)	BITSTRING	4	SMF24OGN	OFFSET TO GENERAL SECTION
48	(30)	BITSTRING	2	SMF24LGN	LENGTH OF GENERAL SECTION
50	(32)	BITSTRING	2	SMF24NGN	NUMBER OF GENERAL SECTIONS
52	(34)	BITSTRING	4	SMF24OSP	OFFSET TO SPOF SECTION
56	(38)	BITSTRING	2	SMF24LSP	LENGTH OF SPOF SECTION
58	(3A)	BITSTRING	2	SMF24NSP	NUMBER OF SPOF SECTIONS
60	(3C)	BITSTRING	4	SMF24OSW	OFFSET TO ESS SECTION
64	(40)	BITSTRING	2	SMF24LSW	LENGTH OF ESS SECTION
66	(42)	BITSTRING	2	SMF24NSW	NUMBER OF ESS SECTIONS
68	(44)	BITSTRING	4	SMF24OSA	Offset to sysaff section
72	(48)	BITSTRING	2	SMF24LSA	Length of sysaff section

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
74	(4A)	BITSTRING	2	SMF24NSA	Number of sysaff sections
74	(4A)	X'28'	0	SMF24TRP	"*-SMF24TPS" LENGTH OF TRIPLETS
74	(4A)	X'5'	0	SMF24NTP	"SMF24TRP/8" NUMBER OF TRIPLETS
BEGINNING OF JES2 PRODUCT SECTION					
76	(4C)	BITSTRING	1	SMF24PRO(0)	Start of product section
76	(4C)	CHARACTER	2	SMF24PVR	RECORD VERSION
78	(4E)	CHARACTER	8	SMF24PNM	PRODUCT NAME
86	(56)	BITSTRING	2	SMF24RS2	RESERVED
GENERAL SECTION FOR SPOOL OFFLOAD DEVICES					
88	(58)	BITSTRING	1	SMF24GEN(0)	Start of general section
88	(58)	BITSTRING	2	SMF24GLN	LENGTH OF GENERAL SECTION
90	(5A)	BITSTRING	1	SMF24BCF	BUFFER CONTINUATION FLAG
		1...		SMF24FST	"B'10000000'" FIRST SMF BUFFER FOR JOB
		.1..		SMF24CON	"B'01000000'" SMF BUFFER CONTINUED
		..1.		SMF24LST	"B'00100000'" LAST SMF BUFFER - END OF JOB
91	(5B)	BITSTRING	1	SMF24EOJ	END OF JOB FLAG
		1...		SMF24COM	"B'10000000'" JOB COMPLETELY OFFLOADED
		.1..		SMF24SDS	"B'01000000'" JOB COMPLETED WITH SKIPPED DATA SETS
		..1.		SMF24INJ	"B'00100000'" INCOMPLETE JOB OFFLOADED
		...1		SMF24OPR	"B'00010000'" OPERATOR CANCELED JOB
92	(5C)	CHARACTER	8	SMF24JBN	JOB NAME
100	(64)	CHARACTER	8	SMF24JID	ORIGINAL JOB IDENTIFICATION
108	(6C)	CHARACTER	8	SMF24CJD	CURRENT JOB IDENTIFICATION
116	(74)	CHARACTER	4	SMF24SYS	SYSTEM ID
120	(78)	CHARACTER	44	SMF24DSN	OFFLOAD DATA SET NAME
164	(A4)	BITSTRING	4	SMF24CNT	NUMBER OF RECORDS DUMPED/LOADED
168	(A8)	BITSTRING	4	SMF24TDS	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	BITSTRING	4	SMF24DDS	DATE OFFLOAD DATA SET ALLOCATED
176	(B0)	CHARACTER	8	SMF24ORG	ORIGIN NODE
184	(B8)	BITSTRING	4	SMF24TRD	TIME ON READER
188	(BC)	BITSTRING	4	SMF24DRD	DATE ON READER
EITHER THE JOB SECTION OR THE SYSOUT SECTION IS WRITTEN, NOT BOTH. THE SPOF TRIPLET REFERS TO WHICHEVER ONE IS WRITTEN IN THE CURRENT RECORD. JOB SELECTION CRITERIA SECTION					
192	(C0)	BITSTRING	1	SMF24JBS(0)	Start of job selection section
192	(C0)	BITSTRING	2	SMF24LN1	LENGTH OF JOB SECTION
194	(C2)	BITSTRING	1	SMF24JFG	JOB FLAGS
		1...		SMF24JHL	"B'10000000'" HELD JOB
		.1..		SMF24AFF	"B'01000000'" AFFINITY = ANY
195	(C3)	CHARACTER	1	SMF24JCL	JOB CLASS

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	SIGNED	4	SMF24JRT(0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24JND	NODE NAME
204	(CC)	CHARACTER	28	SMF24JAF	AFFINITY SYSTEM ID'S
232	(E8)	CHARACTER	8	SMF248CL	8 CHAR JOB CLASS
240	(F0)	CHARACTER	1	SMF24EJS(0)	End of job selection
		SYSOUT SELECTION CRITERIA SECTION			
192	(C0)	BITSTRING	1	SMF24SOS(0)	Start of SYSOUT selection section
192	(C0)	BITSTRING	2	SMF24LN2	LENGTH OF SYSOUT SECTION
194	(C2)	BITSTRING	1	SMF24SFG	SYSOUT FLAGS
		1...		SMF24SHL	"B'10000000'" HELD SYSOUT
		.1..		SMF24SBT	"B'01000000'" BURSTED SYSOUT
		..1.		SMF24SJH	"B'00100000'" HELD JOB
		...1		SMF24INC	"B'00010000'" INCOMPLETE DATA SET
		.... 1...		SMF24MUL	"B'00001000'" MULTI-DEST DATA SET
195	(C3)	CHARACTER	1	SMF24SCL	SYSOUT CLASS
196	(C4)	SIGNED	4	SMF24SRT(0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24SND	NODE NAME
204	(CC)	CHARACTER	8	SMF24SRN	REMOTE NAME
212	(D4)	CHARACTER	4	SMF24FCB	FCB
216	(D8)	CHARACTER	8	SMF24FOR	FORMS
224	(E0)	CHARACTER	4	SMF24FLS	FLASH
228	(E4)	CHARACTER	8	SMF24PRM	PR MODE
236	(EC)	CHARACTER	4	SMF24UCS	UCS
240	(F0)	CHARACTER	8	SMF24WID	WRITER
248	(F8)	BITSTRING	4	SMF24REC	DATA SET RECORD COUNT
252	(FC)	BITSTRING	1	SMF24PRY	PRIORITY
252	(FC)	X'C'	0	SMF24PRD	"SMF24RS2+L'SMF24RS2-SMF24PVR" LEN OF PRODUCT SEC
252	(FC)	X'68'	0	SMF24LN	"SMF24DRD+L'SMF24DRD-SMF24GLN" LEN OF GENERAL SEC
252	(FC)	X'30'	0	SMF24L1	"SMF248CL+L'SMF248CL-SMF24LN1" LEN OF JOB SEL SEC
252	(FC)	X'3D'	0	SMF24L2	"SMF24PRY+L'SMF24PRY-SMF24LN2" LEN OF SYSOUT SEC
252	(FC)	X'44'	0	SMF24POF	"SMF24LHD+SMF24TRP" OFFSET TO PRODUCT SECTION
252	(FC)	X'50'	0	SMF24GOF	"SMF24POF+SMF24PRD" OFFSET TO GENERAL SECTION
252	(FC)	X'B8'	0	SMF24SOF	"SMF24GOF+SMF24LN" OFFSET TO SPOF SECTION
252	(FC)	X'E8'	0	SMF24AOF	"SMF24SOF+SMF24L1" Offset to aff section
		Enhanced SYSOUT Support (ESS) Ssection This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFX plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.			
253	(FD)	BITSTRING	1	SMF24ESS(0)	Start of ESS section

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
253	(FD)	BITSTRING	2	SMF24LN3	LENGTH OF ESS SECTION
255	(FF)	BITSTRING	4	SMF24SGT	SEGMENT IDENTIFIER
259	(103)	BITSTRING	1	SMF24IND	ESS SECTION INDICATOR
		1...		SMF24SJF	"B'10000000'" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)
260	(104)	BITSTRING	1		RESERVED
261	(105)	CHARACTER	8	SMF24JDT	JDVT NAME
269	(10D)	BITSTRING	2	SMF24TUL	SWBTU DATA AREA LENGTH
271	(10F)	CHARACTER	1	SMF24TU(0)	SWBTU DATA AREA
271	(10F)	X'12'	0	SMF24ESL	"*-SMF24LN3" Length of the fixed portion of the ESS section
		Enhanced SYSTEM AFFINITY suport section. This section contains the system names for all the systems for which this job has affinity. The one exception is if it has an affinity of ANY in which case the flag bit SMF24AFF is on.			
240	(F0)	BITSTRING	1	SMF24ESA(0)	Start of Enhanced aff sect
240	(F0)	BITSTRING	2	SMF24LS4	Length of sysaff section
242	(F2)	BITSTRING	2		Reserved for future IBM use
244	(F4)	BITSTRING	4	SMF24SAN	Number of system affinities
248	(F8)	BITSTRING	4	SMF24LN4	Length of system name
252	(FC)	CHARACTER	1	SMF24SAC(0)	Start of system aff. names
252	(FC)	X'C'	0	SMF24SAL	"*-SMF24LS4" Length of the fixed portion of the SYS. AFF SECTION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR2
   01 PROPRIETARY STATEMENT=
     PROPRIETARY_STATEMENT
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS
     COPYRIGHT IBM CORP. 1982, 2019
     STATUS= HBB77C0
     END_OF_PROPRIETARY_STATEMENT
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR2 maps SMF records in the range 20-27.
        %GOTO IFASMFR2B;
       END OF SPECIFICATIONS
        %GOTO IFAL20;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF purge record
02 ACRONYM: IAZSMF26
```

```
01 MACRO NAME: IAZSMF26
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF26
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
 THIS RECORD IS WRITTEN WHEN A JOB IS READY TO BE PURGED FOR
 BOTH FOREGROUND AND BACKGROUND JOBS IN THE SYSTEM.
```

8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD26	"*" START OF RECORD
8	(8)	X'8'	0	SMF26PTR	"*" HEADER SEGMENT (LGTH 46 WITHOUT RDW)
8	(8)	BITSTRING	1	SMF26BHD(0)	BEGINING BASE+HDR
8	(8)	BITSTRING	2	SMF26LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF26SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF26FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF26RTY	RECORD TYPE 26
13	(D)	X'1A'	0	SMFJ26	"26" PURGE RECORD TYPE

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	4	SMF26TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF26DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF26SID	SYSTEM INDICATOR
26	(1A)	CHARACTER	8	SMF26JBN	JOB NAME
34	(22)	BITSTRING	4	SMF26RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF26RSD	READER START DATE
42	(2A)	CHARACTER	8	SMF26UIF	USER IDENTIFICATION FIELD
50	(32)	BITSTRING	4	SMF26RSV	RESV
54	(36)	BITSTRING	2	SMF26SBS	SUBSYSTEM GENERATING ID(JES2=2, JES3=5)
		.... ..1.		SMF26HSP	"X'0002'" JES2 ID
		.... .1.1		SMF26ASP	"X'0005'" JES3 ID
56	(38)	BITSTRING	2	SMF26IND	INDICATORS
56	(38)	BITSTRING	0	SMF26DES	"X'8000'" DESCRIPTIVE SECTION PRESENT
56	(38)	BITSTRING	0	SMF26EVT	"X'4000'" EVENT SECTION PRESENT
56	(38)	BITSTRING	0	SMF26ATU	"X'2000'" ACTUALS SECTION PRESENT
56	(38)	BITSTRING	0	SMF26NTW	"X'1000'" JES2 Network section present
56	(38)	BITSTRING	0	SMF26J2R	"X'0800'" JES2 ROUTING SECTION PRESENT
56	(38)	BITSTRING	0	SMF26JXP	"X'0400'" JES PRINTER SECTION PRESENT
56	(38)	BITSTRING	0	SMF26R02	"X'0200'" Reserved
56	(38)	BITSTRING	0	SMF26ACP	"X'0100'" Triplets Section present
BEGINNING OF DESCRIPTIVE SECTION					
58	(3A)	BITSTRING	2	SMF26LN1	LGTH OF THIS SECTION INCLUDING SELF
60	(3C)	BITSTRING	2	SMF26RV1	RESV
62	(3E)	BITSTRING	1	SMF26IN2	ADDITIONAL JOB INFORMATION(JES2 ONLY)
		1...		SMF26BCH	"X'80'" BIT 0 - BACKGROUND BATCH
		.1..		SMF26FTS	"X'40'" 1 - FOREGROUND TIME SHARING
		..1.		SMF26STK	"X'20'" 2 - SYSTEM TASK
		...1		SMF26NOJ	"X'10'" 3 - NO JOURNAL OPTION
		.... 1...		SMF26NOU	"X'08'" 4 - NO OUTPUT OPTION
		.... .1..		SMF26SCN	"X'04'" 5 - TYPRUN=SCAN
		.... ..1.		SMF26CPY	"X'02'" 6 - TYPRUN=COPY
		1		SMF26JBF	"X'01'" 7 - RESTART=Y
62	(3E)	BITSTRING	1	SMF26IN3	ADDITIONAL JOB INFORMATION(JES3 ONLY)
		1...		SMF26DJC	"X'80'" BIT 0 - DEPENDENT JOB(/ NET JOB PROCESSED)
		.1..		SMF26DLJ	"X'40'" 1 - JOB SPECIFIED DEADLINE SCHEDULING
		..1.		SMF26DLM	"X'20'" 2 - DEADLINE JOB MET DEADLINE
		...1		SMF26PRJ	"X'10'" 3 - / PROCESS STMT PROCESSED
		.... 1...		SMF26NJX	"X'08'" 4 - JOB LEFT SYSTEM VIA NJP(NETWORK JOB PROCESSING)
		.... .1..		SMF26NJE	"X'04'" 5 - JOB ENTERED SYSTEM VIA NJP

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		SMF26DJO	"X'02'" 6 - JOB LEFT SYSTEM VIA DJ(DUMP JOB)
		1		SMF26DJE	"X'01'" 7 - JOB ENTERED SYSTEM VIA DJ
63	(3F)	BITSTRING	1	SMF26INF	JOB INFORMATION
		1...		SMF26JCP	"X'80'" 0 - JOB PRIORITY EXTERNALLY ASSIGNED (JES2-VIA PRIORITY STMT) (JES3-VIA PRTY PARM ON JOB STMT)
		.1..		SMF26STU	"X'40'" 1 - SETUP JOB (JES2- SETUP STMT PROCESSED) (JES3-PROCESSED BY PREEXEC SETUP)
		..1.		SMF26TRH	"X'20'" 2 - JOB HELD VIA TYPERUN=HOLD
		...1		SMF26NLG	"X'10'" 3 - JOB REQUESTED NO JES JOB LOG(JES2)
		.... 1...		SMF26XBC	"X'08'" 4 - EXEC BATCHING JOB (JES2 ONLY)
		.... .1..		SMF26EIR	"X'04'" 5 - JOB ENTERED VIA INTERNAL RDR
		.... ..1.		SMF26MRE	"X'02'" 6 - JOB WAS RERUN BY JES
		1		SMF26OPC	"X'01'" 7 - OPER CANCELLED JOB BY JES CMND
64	(40)	CHARACTER	4	SMF26JNM	JES ASSIGNED JOB #
68	(44)	CHARACTER	8	SMF26JID	8-character job identifier
76	(4C)	CHARACTER	20	SMF26NAM	PROGRAMMER'S NAME FROM JOB CARD
96	(60)	CHARACTER	1	SMF26MSG	MESSAGE CLASS FROM JOB CARD
97	(61)	CHARACTER	1	SMF26CLS	JOB CLASS FROM JOB CARD
98	(62)	BITSTRING	1	SMF26XPI	INITIAL JOB PRIORITY
99	(63)	BITSTRING	1	SMF26XPS	SELECTION PRIORITY AT TIME JOB SELECTED
100	(64)	BITSTRING	1	SMF26IX2	Additional JOB information (JES2 ONLY)
		1...		SMF26JDL	"X'80'" Job delayed (at least once) due to duplicate jobname
		.1..		SMF26JOL	"X'40'" Job purged as a result of spool offload
		..1.		SMF26LPN	"X'20'" Job went thru unspun in its lifetime
		...1		SMF26XWR	"X'10'" Job had at least one JOE purged due to PSO/SAPI
101	(65)	BITSTRING	1	SMF26OPS	Reserved
102	(66)	BITSTRING	2	SMF26LOC	INPUT ROUTE CODE OR ZERO (JES2 ONLY)
100	(64)	BITSTRING	4	SMF26RV8	RESERVED(JES3)
104	(68)	CHARACTER	8	SMF26DEV	LOG INPUT DEV NAME OF WHERE JOB READ USERID IF TSO SUBMIT SYSTEM NAME IF NJP
112	(70)	CHARACTER	4	SMF26ACT	PROGRAMMER'S ACCOUNTING # (JES2 ONLY)
116	(74)	CHARACTER	4	SMF26ROM	PROGRAMMER'S ROOM # (JES2 ONLY)
112	(70)	BITSTRING	8	SMF26RVA	RESERVED(JES3)
120	(78)	BITSTRING	4	SMF26XTM	ESTIMATED EXECUTION TIME(SEC)
124	(7C)	BITSTRING	4	SMF26ELN	ESTIMATED OUTPUT LINES
128	(80)	BITSTRING	4	SMF26EPU	ESTIMATED OUTPUT PUNCHED CARDS
128	(80)	X'84'	0	SMF26J2D	"*" JES2 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	4	SMF26FRM	DEFAULT OUTPUT FORM #

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	BITSTRING	2	SMF26CYP	PRINT COPY COUNT IF FOR ALL OF JOB
138	(8A)	BITSTRING	2	SMF26LIN	LINES PER PAGE
140	(8C)	BITSTRING	2	SMF26PRR	DEFAULT PRINT DESTINATION
142	(8E)	BITSTRING	2	SMF26PUR	DEFAULT PUNCH DESTINATION
144	(90)	CHARACTER	8	SMF26PDD	JES2 PROC DDNAME FOR JCL CONVERSION
132	(84)	X'84'	0	SMF26J3D	"*" JES3 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	1	SMF26DTY	DEADLINE SCHEDULE TYPE
133	(85)	BITSTRING	3	SMF26RV6	RESERVED
136	(88)	CHARACTER	8	SMF26IGP	LOG INPUT DEV GROUP NAME(JOB SOURCE)
144	(90)	CHARACTER	8	SMF26PD3	PROCEDURE DD NAME
152	(98)	CHARACTER	8	SMF26NJO	SYS NAME TO WHICH JOB SENT VIA NJP
160	(A0)	CHARACTER	8	SMF26NJI	SYS FROM WHICH JOB RECEIVED VIA NJP
168	(A8)	CHARACTER	8	SMF26NET	ID OF DEPENDENT JOB NET TO WHICH THIS JOB BELONGS(FROM / NET STMT)
176	(B0)	BITSTRING	4	SMF26DTM	DEADLINE SCHEDULE TIME
180	(B4)		4	SMF26DDT	DEADLINE SCHEDULE DATE
184	(B8)	CHARACTER	8	SMF26CLN	JOB CLASS NAME
BEGINNING OF EVENT SECTION					
58	(3A)	BITSTRING	2	SMF26LN2	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV2	RESV
62	(3E)	BITSTRING	4	SMF26RPT	READER STOP TIME
66	(42)		4	SMF26RPD	READER STOP DATE
70	(46)	BITSTRING	4	SMF26CST	CONVERTER START TIME
74	(4A)		4	SMF26CSD	CONVERTER START DATE
78	(4E)	BITSTRING	4	SMF26CPT	CONVERTER STOP TIME
82	(52)		4	SMF26CPD	CONVERTER STOP DATE
86	(56)	BITSTRING	4	SMF26XST	EXECUTION START TIME
90	(5A)		4	SMF26XSD	EXECUTION START DATE
94	(5E)	BITSTRING	4	SMF26XPT	EXECUTION STOP TIME
98	(62)		4	SMF26XPD	EXECUTION STOP DATE
102	(66)	BITSTRING	4	SMF26OST	OUTPUT PROCESSOR START TIME
106	(6A)		4	SMF26OSD	OUTPUT PROCESSOR START DATE
110	(6E)	BITSTRING	4	SMF26OPT	OUTPUT PROCESSOR STOP TIME
114	(72)		4	SMF26OPD	OUTPUT PROCESSOR STOP DATE
BEGINNING OF ACTUALS SECTION JES2 creates the Actuals section only up to (and including) SMF26OID. The fields from SMF26JAF to SMF26SRC are filled in by JES3. The block from NJEJMR to NJEJMREN contains some JES3 networking information but it is part of the Actuals section.					
58	(3A)	BITSTRING	2	SMF26LN3	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV4	RESV
62	(3E)	BITSTRING	4	SMF26ICD	# OF INPUT CARDS (JCL AND DATA)
66	(42)	BITSTRING	4	SMF26XLN	OUTPUT LINES GENERATED TO SPOOL
70	(46)	BITSTRING	4	SMF26XPU	OUTPUT PUNCH CARDS GENERATED TO SPOOL
74	(4A)	CHARACTER	4	SMF26RID	INPUT PROCESSOR SYSTEM ID

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
78	(4E)	CHARACTER	4	SMF26CID	JCL CONVERSION PROCESSOR SYSTEM ID
82	(52)	CHARACTER	4	SMF26XID	EXECUTION PROCESSOR SYSTEM ID
86	(56)	CHARACTER	4	SMF26OID	OUTPUT PROCESSOR SYSTEM ID
90	(5A)	CHARACTER	42	SMF26JAF	Job accounting fields - maximum length 42 - filled in by JES3 only
132	(84)	BITSTRING	4	NJEJMR(0)	
132	(84)	CHARACTER	8	NJEJMRID	
140	(8C)	ADDRESS	2	NJEJMRLN	- Length of NJEJMR
COMPATIBILITY CODE NJEJOBNO is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.					
142	(8E)	ADDRESS	2	NJEJOBNO	- Origin node job number (compatible) - contains FFFF if NJEJOBNX > 65534
144	(90)	CHARACTER	8	NJEJOBNM	- Job name
152	(98)	CHARACTER	8	NJEXEQN	- Execution node
160	(A0)	CHARACTER	20	NJEPRGMR	- Programmer name
180	(B4)	CHARACTER	8	NJEUSRID	- TSO user id
188	(BC)	CHARACTER	8	NJEACCT	- Network acct num
196	(C4)	CHARACTER	8	NJEDEPT	- Programmer dept num
204	(CC)	CHARACTER	8	NJEBLDG	- Programmer bldg num
212	(D4)	CHARACTER	8	NJEROOM	- Programmer room num
220	(DC)	CHARACTER	8	NJEXEQU	- Execution user id
COMPATIBILITY CODE NJETRANS is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.					
228	(E4)	BITSTRING	4	NJETRANS(0)	Maintained for compile compatibility
228	(E4)	ADDRESS	4	NJEJOBNX	Origin node job number, extended
232	(E8)	BITSTRING	4	NJEJMREN(0)	
232	(E8)	BITSTRING	0	NJEJMRSZ(0)	
232	(E8)	CHARACTER	4	SMF26SRC	NUMBER OF SPOOL RECORDS
Beginning of JES2 Network section					
58	(3A)	BITSTRING	2	SMF26LN4	LENGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV5	RESERVED
62	(3E)	CHARACTER	4	SMF26NID	JOB TRANSMITTER SYSTEM IDENTIFIER
66	(42)	BITSTRING	4	SMF26NST	JOB TRANSMITTER START TIME
70	(46)		4	SMF26NSD	JOB TRANSMITTER START DATE
74	(4A)	BITSTRING	4	SMF26NPT	JOB TRANSMITTER STOP TIME
78	(4E)		4	SMF26NPD	JOB TRANSMITTER STOP DATE
82	(52)	CHARACTER	8	SMF26NAC	NETWORK ACCOUNTING NUMBER
90	(5A)	CHARACTER	8	SMF26NJB	Original job identification
98	(62)	CHARACTER	8	SMF26NDV	JOB TRANSMITTER DEVICE NAME
106	(6A)	CHARACTER	8	SMF26NON	Original node name

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
114	(72)	CHARACTER	8	SMF26NXN	EXECUTION NODE NAME
122	(7A)	CHARACTER	8	SMF26NNM	NEXT NODE NAME
130	(82)	CHARACTER	8	SMF26NLN	LAST NODE NAME
138	(8A)	CHARACTER	8	SMF26SUI	Submitting Userid
146	(92)	CHARACTER	8	SMF26NN	JOB End Execution Notify Node
154	(9A)	CHARACTER	8	SMF26NU	Job End Execution Notify Userid
58	(3A)	BITSTRING	2	SMF26LN5	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26INR	INPUT ROUTING
64	(40)	CHARACTER	4	SMF26PRD	DEFAULT PRINT DESTINATION
68	(44)	CHARACTER	4	SMF26PUD	DEFAULT PUNCH DESTINATION
58	(3A)	BITSTRING	2	SMF26LN6	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26EBT	ESTIMATED BYTE COUNT
64	(40)	CHARACTER	4	SMF26XBT	ACTUAL BYTE COUNT
68	(44)	CHARACTER	4	SMF26EPG	ESTIMATED PAGE COUNT
72	(48)	CHARACTER	4	SMF26XPG	ACTUAL PAGE COUNT
76	(4C)	CHARACTER	8	SMF26EFM	EXPANDED FORMS ID
		This is the header for all future extensions to the SMF 26 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections. Each offset to a section is added to the address of SMFRCD26 to obtain the start of the section that it locates.			
58	(3A)	BITSTRING	2	SMF26LN7	Length of triplet section
60	(3C)	SIGNED	4	SMF26OAG	Offset of accounting section
64	(40)	BITSTRING	2	SMF26LAG	Length of accounting section
66	(42)	BITSTRING	2	SMF26NAG	Number of accounting sections
68	(44)	SIGNED	4	SMF26OWL	Offset of Work Load Manager section
72	(48)	BITSTRING	2	SMF26LWL	Length of Work Load Manager section
74	(4A)	BITSTRING	2	SMF26NWL	Number of Work Load Manager sections
76	(4C)	SIGNED	4	SMF26OJC	Offset of Job Correlator section
80	(50)	BITSTRING	2	SMF26LJC	Length of Job Correlator section
82	(52)	BITSTRING	2	SMF26NJC	Number of Job Correlator sections
84	(54)	CHARACTER	64	SMF26JCR	Job correlator
148	(94)	CHARACTER	8	SMF26WCL	Service class queue name
156	(9C)	CHARACTER	8	SMF26WOC	Original Service class
164	(A4)	BITSTRING	1	SMF26WIN	Indicators
		1...		SMF26WLM	"B'10000000'" Job ran in MODE=WLM
		.1..		SMF26SJB	"B'01000000'" Job ran because of the $S J JES2 command or the *F,J=job,RUN JES3 command
		..1.		SMF26CON	"B'00100000'" Job within concurrent set
165	(A5)	CHARACTER	8	SMF26WJC	Eight character job class
173	(AD)	CHARACTER	16	SMF26WSE	Scheduling environment (SCHENV)
189	(BD)	BITSTRING	2	SMF26LN8	Length of Accounting Section

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
191	(BF)	SIGNED	1	SMF26NRA	Number of accounting pairs that follow
					Accounting pairs are of the form: AL1(length),C'string of length "length"' A length of 0 indicates an omitted field
192	(C0)	SIGNED	1	SMF26AC1(0)	
					LENGTH EQUATES
192	(C0)	X'5E'	0	SMF26L1	"SMF26PDD+L'SMF26PDD-SMF26LN1" DESCRIPTIVE SECT LEN
192	(C0)	X'3C'	0	SMF26L2	"SMF26OPD+L'SMF26OPD-SMF26LN2" EVENT SECTION LENGTH
192	(C0)	X'20'	0	SMF26L3	"SMF26OID+L'SMF26OID-SMF26LN3" ACTUALS SECTION LEN
192	(C0)	X'68'	0	SMF26L4	"SMF26NU+L'SMF26NU-SMF26LN4" NETWORK SECTION LEN
192	(C0)	X'E'	0	SMF26L5	"SMF26PUD+L'SMF26PUD-SMF26LN5" ROUTING SECTION LEN
192	(C0)	X'1A'	0	SMF26L6	"SMF26EFM+L'SMF26EFM-SMF26LN6" PRINT SECTION LEN
192	(C0)	X'1A'	0	SMF26L7	"SMF26NJC+L'SMF26NJC-SMF26LN7" Triplets sect len
192	(C0)	X'29'	0	SMF26L9	"SMF26WSE+L'SMF26WSE-SMF26WCL" WLM section len
192	(C0)	X'40'	0	SMF26LA	"L'SMF26JCR" Job corr sect len
					SMF26L10 is used for the total length of the triplet section and any fixed length section that may follow. This equate is used to ensure compatability between a low level JES assembled with a higher level BCP maclib. For example, a HJE5520 JES2 assembled with a JBB6604 BCP will include the WLM triplet section as part of the SMF26L10 equate. If new triplet sections are added in the future, the SMF26L10 equate must be changed to add the length of the new section.
192	(C0)	X'83'	0	SMF26L10	"SMF26L7+SMF26L9+SMF26LA" Triplet + WLM len + Job corr
192	(C0)	X'10'	0	SMF26SZ1	"L'SMF26JBN+L'SMF26RST+L'SMF26RSD" LENGTH OF JOB NAME, AND RDR START TIME AND DATE FOR MOVE
192	(C0)	X'4C'	0	SMF26SZ2	"SMF26NLN+L'SMF26NLN-SMF26NID" LEN OF NETWORK FIELDS
192	(C0)	X'8'	0	SMF26SZ3	"L'SMF26RPT+L'SMF26RPD" LEN OF RDR FIELDS FOR MOVE
192	(C0)	X'4'	0	SMF26SZ4	"L'SMF26PRR+L'SMF26PUR" LEN OF PRPU ROUTES FOR MOVE
192	(C0)	X'4F'	0	SMF26SZ5	"SMF26NU+L'SMF26NU-SMF26NAC-1" LEN OF NET FIELDS
192	(C0)	X'32'	0	SMF26LN	"SMF26IND+L'SMF26IND-SMF26LEN" LEN OF BASE + HEADER
192	(C0)	X'17C'	0	SMF26TLN	"SMF26LN+SMF26L1+SMF26L2+SMF26L3+SMF26L4+SMF 26L5+SMF26L6" TOTAL LENGTH OF TYPE 26 RECORD

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR4
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR4 maps SMF records in the range 37-46.
        %GOTO IFASMFR4B;
       END OF SPECIFICATIONS
        %GOTO IFAL37;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF subsystem start record
02 ACRONYM: IAZSMF43
01 MACRO NAME: IAZSMF43
01 DSECT NAME: N/A
```

```
01 LABEL PREFIX: SMF43
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
 SUBSYSTEM START RECORD TYPE 43
```

8	(8)	SIGNED	4	(0)	ALIGNMENT TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD43	"*" START OF RECORD
8	(8)	X'8'	0	SMF43PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	1	SMF43BAS(0)	BEGINING OF BASE SECTION
8	(8)	BITSTRING	2	SMF43LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF43SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF43FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF43RTY	RECORD TYPE 43
13	(D)	X'2B'	0	SMFJ43	"43" START SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF43TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF43DTE	DATE FROM TIME MACRO

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	CHARACTER	4	SMF43SID	SYSTEM IDENTIFIER
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF43SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF43HSP	"X'0002'" JES2 ID
		.... .1.1		SMF43ASP	"X'0005'" JES3 ID X'0006' SS06
28	(1C)	BITSTRING	2	SMF43RSV	RESV
30	(1E)	BITSTRING	2	SMF43LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF43SBP	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 COMMON SECTION					
32	(20)	BITSTRING	1	SMF43J2(0)	BEGINING OF JES2 SECTION
32	(20)	BITSTRING	2	SMF43RV1	RESV
34	(22)	BITSTRING	1	SMF43RST	START RECORD FLAGS
		1...		SMF$ESYS	"X'80'" IF 1 THEN SMF43EID FIELD IS RESTART SYSTEM ID
		1...		SMF43CLD	"X'80'" COLD START (JES3)
		.1..		SMF43WRM	"X'40'" WARM START
		..1.		SMF43HOT	"X'20'" HOT START
		...1		SMF43ANL	"X'10'" QUEUE ANALYSIS REQUIRED
		.... 1...		SMF43GBL	"X'08'" GLOBAL SYSTEM
		.... .1..		SMF43LCL	"X'04'" LOCAL SYSTEM
		.... ..1.		SMF43REF	"X'02'" Configuration refresh was requested
		1		SMF43DSI	"X'01'" DYNAMIC SYSTEM INTERCHANGE
34	(22)	X'23'	0	SMF43SBG	"*" JES2,JES3 UNCOMMON SECTIONS
JES2 SECTION					
35	(23)	BITSTRING	1	SMF43OPT	JES2 OPTIONS BIT MEANING WHEN SET 0 - FORMAT THE SPOOL 1 - COLD START 2 - REQUEST INIT AUTO 3 - LIST REPLACEMENTS 4-7 RESV
36	(24)	CHARACTER	4	SMF43EID	SYSTEM ID OF SYSTEM TO BE WARMSTARTED IF &ESYS OR 0 FOR START JES 2
JES3 SECTION					
35	(23)	BITSTRING	1	SMF43JS3(0)	BEGINING OF JES3 SECTION
35	(23)	BITSTRING	1	SMF43RV2	RESERVED FLAGS
36	(24)	BITSTRING	1	SMF43US1	USER FLAGS
37	(25)	CHARACTER	1	SMF43NMU	INITIALIZATION DECK ORIGIN TYPE
38	(26)	CHARACTER	8	SMF43ORG	INITIALIZATION DECK ORIGIN TYPE-ORIGIN CONTENTS N-MEMBER NAME(JCL DEFAULT) M-MEMBER NAME(OPER CHOICE) U-UNIT ADDRESS(OP CHOICE)
38	(26)	X'26'	0	SMF43UN4	"SMF43ORG,4" 4-Digit Device Number
38	(26)	X'26'	0	SMF43UNT	"SMF43ORG,3" 3-Digit Device Number
46	(2E)	CHARACTER	4	SMF43PJ3	JES3 PROCEDURE NAME
50	(32)	CHARACTER	8	SMF43RVJ	RESERVED FOR JES3

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	CHARACTER	4	SMF43RVU	RESERVED FOR USER
62	(3E)	BITSTRING	1	SMF43END(0)	END OF JES3 RECORD
62	(3E)	BITSTRING	0	SMF43SIZ(0)	SIZE OF JES3 SMF43 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF43PCO(0)	BEGINING OF SS06 SECTION
32	(20)	CHARACTER	8	SMF43PRC	SS06 START PROC NAME
40	(28)	CHARACTER	73	SMF43INT	INITIALIZATION
LENGTH EQUATES					
40	(28)	X'20'	0	SMF43L1	"SMF43EID+L'SMF43EID-SMF43LEN" LEN OF TYPE 43 RECORD
40	(28)	X'8'	0	SMF43L2	"SMF43EID+L'SMF43EID-SMF43RV1" LEN OF JES2 SECTION

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR4
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR4 maps SMF records in the range 37-46.
        %GOTO IFASMFR4B;
       END OF SPECIFICATIONS
        %GOTO IFAL37;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF subsystem stop record
02 ACRONYM: IAZSMF45
01 MACRO NAME: IAZSMF45
01 DSECT NAME: N/A
```

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 LABEL PREFIX: SMF45 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM STOP RECORD TYPE 45					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD45	"*" START OF RECORD
8	(8)	X'8'	0	SMF45PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	1	SMF45J2(0)	BEGINING OF JES2 REC
8	(8)	BITSTRING	2	SMF45LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF45SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF45FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF45RTY	RECORD TYPE 45
13	(D)	X'2D'	0	SMFJ45	"45" STOP SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF45TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF45DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF45SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF45SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF45HSP	"X'0002'" JES2 ID
		.... .1.1		SMF45ASP	"X'0005'" JES3 ID X'0006' SS06
28	(1C)	BITSTRING	2	SMF45RSV	RESV
30	(1E)	BITSTRING	2	SMF45LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF45SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 SECTION					
32	(20)	BITSTRING	2	SMF45IND	INDICATORS
		1...		SMF45ATM	"X'80'" BIT 0 ABNORMAL TERMINATION 1-15 RESERVED
34	(22)	BITSTRING	2	SMF45JCC	JES2 COMPLETION CODE
JES3 SECTION					
32	(20)	BITSTRING	1	SMF45JS3(0)	BEGINING OF JES2 SECTION
32	(20)	BITSTRING	1	SMF45FG1	STOP RECORD FLAGS
		1...		SMF45ABN	"X'80'" SUBSYSTEM ENDED DUE TO ABEND
		.1..		SMF45DSI	"X'40'" DSI HAS BEEN INVOKED
33	(21)	BITSTRING	3	SMF45J3C	COMPLETION CODE(SYS/USER)
36	(24)	BITSTRING	1	SMF45RV1	RESERVED
37	(25)	BITSTRING	1	SMF45US1	USER FLAG
38	(26)	CHARACTER	8	SMF45RVJ	RESERVED FOR JES3
46	(2E)	CHARACTER	4	SMF45RVU	RESERVED FOR USER
50	(32)	BITSTRING	1	SMF45END(0)	END OF JES3 RECORD
50	(32)	BITSTRING	0	SMF45SIZ(0)	SIZE OF JES3 45 RECORD

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SS06 SECTION					
32	(20)	BITSTRING	1	SMF45PCO(0)	BEGINING OF SS06 SECTION
32	(20)	CHARACTER	8	SMF45PRC	SS06 PROCNAME
40	(28)	BITSTRING	1	SMF45STF	SYSTEM TERMINATION FLAGS
40	(28)	X'80'	0	SMF45HLT	"128" HALT ISSUED
40	(28)	X'40'	0	SMF45OPS	"64" OPERATOR STOP
40	(28)	X'20'	0	SMF45ABT	"32" ABNORMAL TERMINATION
40	(28)	X'10'	0	SMF45NOS	"16" NOSAVE SPECIFIED IN HALT
41	(29)	BITSTRING	3	SMF45UID	USER ID FOR HALT
44	(2C)	BITSTRING	2	SMF45NUL	NO. USERS LOGGED ON AT TERMINATION
LENGTH EQUATES					
44	(2C)	X'1C'	0	SMF45L1	"SMF45JCC+L'SMF45JCC-SMF45LEN" LEN OF TYPE 45 RECORD
44	(2C)	X'4'	0	SMF45L2	"SMF45JCC+L'SMF45JCC-SMF45IND" LEN OF JES2 SECTION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF subsystem event start
02 ACRONYM: IAZSMF47
01 MACRO NAME: IAZSMF47
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF47
```

```
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
 SUBSYSTEM EVENT START RECORD TYPE 47
```

8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD47	"*" START OF RECORD
8	(8)	X'8'	0	SMF47PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF47LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF47SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF47FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF47RTY	RECORD TYPE 47
13	(D)	X'2F'	0	SMFJ47	"47" START SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF47TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF47DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF47SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF47SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF47HSP	"X'0002'" JES2 ID
		.... .1.1		SMF47ASP	"X'0005'" JES3 ID X'0006' SS06
28	(1C)	BITSTRING	2	SMF47RSV	RESV
30	(1E)	BITSTRING	2	SMF47LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF47SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 SECTION					
32	(20)	BITSTRING	2	SMF47EVT	EVENT STARTING
32	(20)	X'1'	0	SMF47SON	"1" TERMINAL SIGNED ON
32	(20)	X'2'	0	SMF47STL	"2" LINE STARTED
32	(20)	X'4'	0	SMF47LON	"4" TERMINAL LOGGED ON
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	1	SMF47GN(0)	Beginning of general section
34	(22)	BITSTRING	2	SMF47LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)
36	(24)	CHARACTER	8	SMF47RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF47LIN	LINE NAME
52	(34)	CHARACTER	8	SMF47PSW	PASSWORD
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	1	SMF47A(0)	Message section for signon
60	(3C)	BITSTRING	2	SMF47LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)
62	(3E)	CHARACTER	36	SMF47MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.
98	(62)	CHARACTER	8	SMF47RVJ	RESERVED FOR JES3
106	(6A)	CHARACTER	4	SMF47RVU	RESERVED FOR USER
110	(6E)	BITSTRING	1	SMF47END(0)	END OF JES3 RECORD
110	(6E)	BITSTRING	0	SMF47SIZ(0)	SIZE OF JES3 47 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF47PCO(0)	Beginning of SS06 section
32	(20)	BITSTRING	1	SMF47LCF	LOGON CONDITION FLAG
32	(20)	X'80'	0	SMF47UNL	"128" USER NOT LOGGED OFF
32	(20)	X'20'	0	SMF47CWK	"32" CONTINUE WORKSPACE EXISTED AT LOGON
32	(20)	X'4'	0	SMF47SPA	"4" SERVICE PROGRAM ACCOUNT RECORD
32	(20)	X'1'	0	SMF47ULK	"1" USER LOCKED
33	(21)	BITSTRING	3	SMF47UID	USER ID
36	(24)	BITSTRING	1	SMF47LTC	LIBRARY TYPE CODE
37	(25)	BITSTRING	3	SMF47PLI	PROJECT LIB ID
40	(28)	CHARACTER	6	SMF47JID	JOB ENTRY ID CODE

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
46	(2E)	BITSTRING	1	SMF47LAA	LANGUAGE ATTRIBUTE ASSIGNED
47	(2F)	BITSTRING	1	SMF47PCI	PRIVILEGED CLASS INDICATORS
48	(30)	BITSTRING	4	SMF47DSL	DASD SPACE IN LIBRARY (1K UNITS)
52	(34)	BITSTRING	4	SMF47DPL	DASD SPACE PROJECT/PUBLIC LIBRARIES(1K UNITS)
LENGTH EQUATES					
32	(20)	X'1A'	0	SMF47L1	"SMF47LN2-SMF47LN1" LEN OF GENERAL SECTION
32	(20)	X'26'	0	SMF47L2	"SMF47MSG+L'SMF47MSG-SMF47LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A'	0	SMF47L3	"SMF47MSG+L'SMF47MSG-SMF47LEN" LEN OF TYPE 47 RECORD
32	(20)	X'34'	0	SMF47L4	"SMF47LN2-SMF47LEN" LEN OF RECORD - MESSAGE SECTION

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF subsystem event stop record
02 ACRONYM: IAZSMF48
01 MACRO NAME: IAZSMF48
01 DSECT NAME: N/A
```

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 LABEL PREFIX: SMF48 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT STOP RECORD TYPE 48					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD48	"*" START OF RECORD
8	(8)	X'8'	0	SMF48PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF48LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF48SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF48FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF48RTY	RECORD TYPE 48
13	(D)	X'30'	0	SMFJ48	"48" STOP SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF48TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF48DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF48SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF48SBS	SUBSYSTEN IDENTIFIER
		.... ..1.		SMF48HSP	"X'0002'" JES2 ID
		.... .1.1		SMF48ASP	"X'0005'" JES3 ID X'0006' SS06
28	(1C)	BITSTRING	2	SMF48RSV	RESV
30	(1E)	BITSTRING	2	SMF48LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF48SBP	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 COMMON SECTION					
32	(20)	BITSTRING	2	SMF48EVT	TYPE OF EVENT STOPPED
32	(20)	X'1'	0	SMF48SOF	"1" LINE HAS SIGNED OFF
32	(20)	X'2'	0	SMF48CAN	"2" LINE CANCELLED BY OPERATOR
32	(20)	X'4'	0	SMF48LOF	"4" TERMINAL LOGGED OFF
34	(22)	BITSTRING	2	SMF48RV1	RESV
36	(24)	CHARACTER	8	SMF48RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF48LIN	LINE NAME
52	(34)	CHARACTER	8	SMF48PSW	PASSWORD
52	(34)	X'3C'	0	SMF48SBG	"*" JES2 AND JES3 UNCOMMON SECTIONS
JES2 SECTION					
60	(3C)	BITSTRING	4	SMF48IO	# EXCPS(NOT INCLUDING LINE REPEATS)
64	(40)	BITSTRING	4	SMF48NAK	# NAKS TO WRITE TEXT-NEG ACKNOWLEDGEMTS
68	(44)	BITSTRING	4	SMF48DCK	# DATA CHECKS TO READ TEXT
72	(48)	BITSTRING	4	SMF48OUT	# TIME OUTS TO READ TEXT
76	(4C)	BITSTRING	4	SMF48ERR	SUM OF ALL OTHER LINE ERRORS
80	(50)	CHARACTER	3	SMF48LAA	LINE ADAPTER ADDRESS FROM UCB
83	(53)	CHARACTER	4	SMF48LA4	4-Digit Line Adapter Address

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
83	(53)	X'1B'	0	SMF48B2L	"*-SMF48SBG" JES2 section length
JES3 SECTION					
60	(3C)	BITSTRING	28	SMF48XCP	EXCP COUNTS AND ERROR STATISTICS
60	(3C)	X'1C'	0	SMF48BXL	"*-SMF48SBG" EXCP section length
60	(3C)	BITSTRING	4	SMF48TRN	NUMBER OF TRANSMISSIONS
64	(40)	BITSTRING	4	SMF48ERS	NUMBER OF LINE ERRORS
68	(44)	BITSTRING	2	SMF48TOT	NUMBER OF TIME-OUTS
70	(46)	BITSTRING	2	SMF48NKS	NUMBER OF NAK RESPONSES TO WRITE
72	(48)	BITSTRING	1	SMF48S0	NUMBER OF COMMAND REJECTS
73	(49)	BITSTRING	1	SMF48S1	NUMBER OF INTERVENTIONS REQUIRED
74	(4A)	BITSTRING	1	SMF48S2	NUMBER OF BUS-OUT CHECKS
75	(4B)	BITSTRING	1	SMF48S3	NUMBER OF EQUIPMENT CHECKS
76	(4C)	BITSTRING	1	SMF48S4	NUMBER OF DATA CHECKS
77	(4D)	BITSTRING	1	SMF48S5	NUMBER OF DATA OVERRUNS
78	(4E)	BITSTRING	1	SMF48S6	NUMBER OF LOST DATAS
79	(4F)	BITSTRING	9	SMF48USR	RESERVED FOR USER
88	(58)	CHARACTER	3	SMF48ADP	LINE ADAPTER ADDRESS
91	(5B)	CHARACTER	4	SMF48AD4	4-Digit Line Adapter Address
95	(5F)	CHARACTER	4	SMF48RVJ	Reserved for JES3
99	(63)	CHARACTER	4	SMF48RVU	RESERVED FOR USER
103	(67)	BITSTRING	1	SMF48END(0)	END OF JES3 RECORD
103	(67)	X'2B'	0	SMF48B3L	"*-SMF48SBG" JES3 section length
103	(67)	BITSTRING	0	SMF48SIZ(0)	SIZE OF JES3 48 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF48FLS	LOGOFF FLAGS
32	(20)	X'80'	0	SMF48RPI	"128" RECORD FOR PREVIOUS INCOMPLETE SESSION
32	(20)	X'40'	0	SMF48CNI	"64" CANCEL ISSUED
32	(20)	X'20'	0	SMF48CWK	"32" CONTINUE WORKSPACE SAVED
32	(20)	X'10'	0	SMF48CPG	"16" CONTINUE PURGED
32	(20)	X'8'	0	SMF48HSI	"8" HALT OR STOP ISSUED
32	(20)	X'4'	0	SMF48SPA	"4" SERVICE PROGRAM ACCOUNT RECORD
32	(20)	X'1'	0	SMF48ULK	"1" USER LOCKED
33	(21)	BITSTRING	3	SMF48UID	USER ID
36	(24)	BITSTRING	4	SMF48CPU	CPU TIME
40	(28)	BITSTRING	4	SMF48CNT	CONNECT TIME (SECONDS FOR THIS TERMINAL SESSION
44	(2C)	BITSTRING	4	SMF48CTH	CONNECT TIME (SECONDS) FOR THIS TERMINAL SESSION FOR ATTACHED HARDCOPY DEVICE
48	(30)	BITSTRING	4	SMF48VIR	VIRTUAL STORAGE USED (THOUSANDS OF BYTE-SECONDS) DURING TERMINAL SESSION
52	(34)	BITSTRING	4	SMF48DIO	DASD I/O COUNT FOR THIS TERMINAL SESSION
56	(38)	BITSTRING	4	SMF48TIO	TELEPROCESSING I/O COUNTS DURING TERMINAL SESSION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	BITSTRING	4	SMF48DSL	DASD SPACE IN THIS LIBRARY (IN 1K UNITS)
64	(40)	BITSTRING	4	SMF48DSP	DASD SPACE IN PROJECT/PUB LIBRARIES (1K UNITS)
68	(44)	BITSTRING	4	SMF48CPD	CPU TIME TO DATE (HUNDREDTHS OF SECONDS
72	(48)	BITSTRING	4	SMF48CTD	CONNECT TIME TO DATE (SECS)
76	(4C)	BITSTRING	4	SMF48CDH	CONNECT TIME FOR HARDCOPY DEVICE TO DATE (SECONDS)
80	(50)	BITSTRING	4	SMF48VSD	VIRT STORAGE USED TO DATE (THOUSANDS OF BYTE-SECONDS)
84	(54)	BITSTRING	4	SMF48DID	DASD I/O COUNTS TO DATE
88	(58)	BITSTRING	4	SMF48TID	TP I/O COUNTS TO DATE
LENGTH EQUATES					
88	(58)	X'4F'	0	SMF48L1	"SMF48LA4+L'SMF48LA4-SMF48LEN" Type 48 Record Len
88	(58)	X'14'	0	SMF48CT	"SMF48ERR+L'SMF48ERR-SMF48IO" LENGTH OF LINE EVENT COUNT SECTION

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF subsystem integrity record
02 ACRONYM: IAZSMF49
01 MACRO NAME: IAZSMF49
01 DSECT NAME: N/A
```

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 LABEL PREFIX: SMF49 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM INTEGRITY RECORD TYPE 49					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD49	"*" START OF RECORD
8	(8)	X'8'	0	SMF49PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF49LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF49SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF49FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF49RTY	RECORD TYPE 49
13	(D)	X'31'	0	SMFJ49	"49" INTEGRITY EVENT RECORD TYPE
14	(E)	BITSTRING	4	SMF49TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF49DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF49SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF49SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF49HSP	"X'0002'" JES2
		.... .1.1		SMF49ASP	"X'0005'" JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF49RSV	RESV
30	(1E)	BITSTRING	2	SMF49LRR	LGTH OF REMAINED OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF49SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 SECTION					
32	(20)	BITSTRING	2	SMF49EVT(0)	EVENT STARTING
FOLLOWING BIT DEFINITIONS APPLY TO JES2					
32	(20)	BITSTRING	1	SMF49EJ2	First JES2 flag byte
33	(21)	BITSTRING	1	SMF49EJ22	JES2 flag byte
33	(21)	X'1'	0	SMF49SON	"1" SIGNON
33	(21)	X'2'	0	SMF49STL	"2" START LINE
FOLLOWING BIT DEFINITIONS APPLY TO JES3					
32	(20)	BITSTRING	1	SMF49EJ3	First JES2 flag byte
33	(21)	BITSTRING	1	SMF49EJ32	JES2 flag byte
33	(21)	X'1'	0	SMF49NER	"1" TERMINAL NOT DEFINED (BSC)
33	(21)	X'2'	0	SMF49PER	"2" SECURITY FAILURE (BSC)
33	(21)	X'4'	0	SMF49LER	"4" LINE ALREADY SIGNED ON (BSC)
33	(21)	X'8'	0	SMF49TER	"8" TERMINAL ALREADY SIGNED ON (BSC)
33	(21)	X'5'	0	SMF49LIM	"5" SESSION LIMIT EXCEEDED (SNA)
33	(21)	X'6'	0	SMF49DEF	"6" WORK STATION UNDEFINED (SNA)
33	(21)	X'7'	0	SMF49SPW	"7" SECURITY FAILURE (SNA)

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
33	(21)	X'8'	0	SMF49BND	"8" BIND FAILURE (SNA)
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	1	SMF49GEN(0)	Start of general section
34	(22)	BITSTRING	2	SMF49LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)
36	(24)	CHARACTER	8	SMF49RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF49LIN	LINE NAME
52	(34)	CHARACTER	8	SMF49PSW	PASSWORD USED(INVALID)
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	1	SMF49A(0)	Start of signon message section
60	(3C)	BITSTRING	2	SMF49LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)
62	(3E)	CHARACTER	36	SMF49MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.
98	(62)	BITSTRING	1	SMF49END(0)	END OF JES3 RECORD
98	(62)	BITSTRING	0	SMF49SIZ(0)	SIZE OF JES3 49 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF49PCO(0)	Start of SS06 section
32	(20)	BITSTRING	3	SMF49VID	VIOLATOR IDENTIFICATION
35	(23)	BITSTRING	3	SMF49LNA	LIBRARY NUMBER OR ACCESSED LIBRARY
38	(26)	BITSTRING	2	SMF49RV1	RESERVED
40	(28)	CHARACTER	12	SMF49FLN	FILENAME OF FILE ATTEMPTED
52	(34)	BITSTRING	3	SMF49UFO	USERNUMBER OF FILE OWNER
LENGTH EQUATES					
32	(20)	X'1A'	0	SMF49L1	"SMF49LN2-SMF49LN1" LEN OF GENERAL SECTION
32	(20)	X'26'	0	SMF49L2	"SMF49MSG+L'SMF49MSG-SMF49LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A'	0	SMF49L3	"SMF49MSG+L'SMF49MSG-SMF49LEN" LEN OF TYPE 49 RECORD

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF SNA start event record
02 ACRONYM: IAZSMF52
01 MACRO NAME: IAZSMF52
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF52
```

```
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD52	"*" START OF RECORD
8	(8)	X'8'	0	SMF52PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF52LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF52SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

12	(C)	BITSTRING	1	SMF52FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF52RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF52TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF52DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF52SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPE 52					
22	(16)	X'34'	0	SMFJ52	"52" RECORD TYPE SNA START EVENT
26	(1A)	BITSTRING	2	SMF52POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF52PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF52PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF52IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF52IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF52IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPES 52					
38	(26)	CHARACTER	1	SMF52OPS(0)	Define start of product section
38	(26)	BITSTRING	2	SMF52SUB	SUBTYPE ID NUMBER
38	(26)	X'1'	0	SMF52LON	"1" LOGON EVENT
38	(26)	X'2'	0	SMF52SLN	"2" START LINE EVENT
40	(28)	CHARACTER	2	SMF52VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF52SYS	SUBSYSTEM NAME
ID SECTION OF HASP TYPE 52 (SNA) START EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF52IDS(0)	Define start of id section
46	(2E)	CHARACTER	8	SMF52RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF52LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF52PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF52END(0)	END OF TYPE 52 RECORD
LENGTH EQUATES					
70	(46)	X'1E'	0	SMF52OFP	"SMF52IDN+L'SMF52IDN-SMFRCD52" OFFSET TO PROD SECT
70	(46)	X'8'	0	SMF52LPR	"SMF52SYS+L'SMF52SYS-SMF52SUB" LENGTH OF PROD SECT
70	(46)	X'26'	0	SMF52OFI	"SMF52SYS+L'SMF52SYS-SMFRCD52" OFFSET TO ID SECT
70	(46)	X'18'	0	SMF52LID	"SMF52PSW+L'SMF52PSW-SMF52IDS" LENGTH OF ID SECT

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF SNA stop event record
02 ACRONYM: IAZSMF53
01 MACRO NAME: IAZSMF53
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF53
```

```
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD53	"*" START OF RECORD
8	(8)	X'8'	0	SMF53PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF53LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF53SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

12	(C)	BITSTRING	1	SMF53FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF53RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF53TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF53DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF53SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPE 53					
22	(16)	X'35'	0	SMFJ53	"53" RECORD TYPE SNA STOP EVENT
26	(1A)	BITSTRING	2	SMF53PRO	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF53PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF53PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF53IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF53IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF53IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 53					
38	(26)	CHARACTER	1	SMF53OPS(0)	Define start of product section
38	(26)	BITSTRING	2	SMF53SUB	SUBTYPE ID NUMBER
THE FOLLOWING EQUATES APPLY TO RECORD TYPE 53					
38	(26)	X'1'	0	SMF53LOF	"1" LOGOFF EVENT
38	(26)	X'2'	0	SMF53PLN	"2" STOP LINE EVENT
40	(28)	CHARACTER	2	SMF53VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF53SYS	SUBSYSTEM NAME
ID SECTION OF HASP TYPE 53 (SNA) STOP EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF53IDS(0)	Define start of id section
46	(2E)	CHARACTER	8	SMF53RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF53LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF53PSW	LINE PASSWORD
70	(46)	BITSTRING	20	SMF53CTR	LINE EVENT COUNTERS
90	(5A)	CHARACTER	3	SMF53ADP	LINE IDENTIFIER
93	(5D)	CHARACTER	1	SMF53END(0)	END OF TYPE 53 RECORD
93	(5D)	X'1E'	0	SMF53OFP	"SMF53IDN+L'SMF53IDN-SMFRCD53" OFFSET TO PROD SECT
93	(5D)	X'8'	0	SMF53LPR	"SMF53SYS+L'SMF53SYS-SMF53SUB" LENGTH OF PROD SECT
93	(5D)	X'26'	0	SMF53OFI	"SMF53SYS+L'SMF53SYS-SMFRCD53" OFFSET TO ID SECT
93	(5D)	X'2F'	0	SMF53LID	"SMF53END-SMF53IDS" LENGTH OF ID SECT

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR5
    COPYRIGHT =
    5650-ZOS COPYRIGHT IBM CORP., 1979, 2019
    LICENSED MATERIALS - PROPERTY OF IBM
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR5 maps SMF records in the range 47-54.
        %GOTO IFASMFR5B;
       END OF SPECIFICATIONS
        %GOTO IFAL47;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF Spool integrity event record
02 ACRONYM: IAZSMF54
01 MACRO NAME: IAZSMF54
01 DSECT NAME: N/A
```

```
01 LABEL PREFIX: SMF54
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
```

8	(8)	X'8'	0	SMFRCD54	"*" START OF RECORD
8	(8)	X'8'	0	SMF54PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF54LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF54SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

12	(C)	BITSTRING	1	SMF54FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF54RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF54TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF54DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF54SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPES 54					
22	(16)	X'36'	0	SMFJ54	"54" SPOOL INTEGRITY EVENT REC
26	(1A)	BITSTRING	2	SMF54POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF54PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF54PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF54IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF54IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF54IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 54					
38	(26)	CHARACTER	1	SMF54OPS(0)	Define start of product section
38	(26)	BITSTRING	2	SMF54SUB	SUBTYPE ID NUMBER
38	(26)	X'1'	0	SMF54LON	"1" LOGON EVENT
40	(28)	CHARACTER	2	SMF54VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF54SYS	SUBSYSTEM NAME
ID SECTION OF HASP 54 (SNA) INTEGRITY RECORD AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF54IDS(0)	Define start of id section
46	(2E)	CHARACTER	8	SMF54RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF54RPW	REMOTE PASSWORD
62	(3E)	CHARACTER	8	SMF54PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF54END(0)	END OF TYPE 54 RECORD

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR6
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR6 maps SMF records in the range 55-69.
        %GOTO IFASMFR6B;
       END OF SPECIFICATIONS
        %GOTO IFAL55;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF Network signon record
02 ACRONYM: IAZSMF55
01 MACRO NAME: IAZSMF55
01 DSECT NAME: N/A
```

```
01 LABEL PREFIX: SMF55
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD55	"*" START OF RECORD
8	(8)	X'8'	0	SMF55PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF55LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF55SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

12	(C)	BITSTRING	1	SMF55FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF55RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF55TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF55DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF55SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPE 55					
22	(16)	X'37'	0	SMFJ55	"55" NETWORK SIGNON RECORD TYPE
26	(1A)	BITSTRING	2	SMF55SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF55HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF55SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF55LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF55STR	"*-SMF55LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 55 NETWORKING SIGNON RECORD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF55NNM	NODE NAME
40	(28)	BITSTRING	1	SMF55MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF55FG1	SIGNON STATUS FLAGS
		1...		SMF55RSO	"B'10000000'" RESPONSE SIGNON
		.1..		SMF55CON	"B'01000000'" Reset/concur signon
		..1.		SMF55SEC	"B'00100000'" Secure signon protocol (SMF55LPW and SMF55NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF55LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF55NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF55LNM	LINE NAME
66	(42)	BITSTRING	4	SMF55BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF55END(0)	END OF TYPE 55 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF55IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF55PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF55HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF55EN2(0)	END OF TYPE 55 RECORD (LONG)

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR6
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR6 maps SMF records in the range 55-69.
        %GOTO IFASMFR6B;
       END OF SPECIFICATIONS
        %GOTO IFAL55;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF Network integrity record
02 ACRONYM: IAZSMF56
01 MACRO NAME: IAZSMF56
01 DSECT NAME: N/A
```

```
01 LABEL PREFIX: SMF56
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
```

8	(8)	X'8'	0	SMFRCD56	"*" START OF RECORD
8	(8)	X'8'	0	SMF56PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF56LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF56SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

12	(C)	BITSTRING	1	SMF56FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF56RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF56TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF56DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF56SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPE 56					
22	(16)	X'38'	0	SMFJ56	"56" NETWORK INTEGRITY REC TYPE
26	(1A)	BITSTRING	2	SMF56SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF56HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF56SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF56LRR	LENGTH OF REST OF RECORD
BEGINNING OF HASP TYPE 56 NETWORKING SIGNON RECORD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF56NNM	NODE NAME
40	(28)	BITSTRING	1	SMF56MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF56FG1	SIGNON STATUS FLAGS
		1...		SMF56RSO	"B'10000000'" RESPONSE SIGNON
		.1..		SMF56CON	"B'01000000'" Reset/concur signon
		..1.		SMF56SEC	"B'00100000'" Secure signon protocol (SMF56LPW and SMF56NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF56LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF56NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF56LNM	LINE NAME
66	(42)	BITSTRING	4	SMF56BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF56END(0)	END OF TYPE 56 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF56IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF56PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF56HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF56EN2(0)	END OF TYPE 56 RECORD (LONG)

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR6
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR6 maps SMF records in the range 55-69.
        %GOTO IFASMFR6B;
       END OF SPECIFICATIONS
        %GOTO IFAL55;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF network SYSOUT trans record
02 ACRONYM: IAZSMF57
01 MACRO NAME: IAZSMF57
01 DSECT NAME: N/A
```

```
01 LABEL PREFIX: SMF57
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
   END OF SPECIFICATIONS
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'8'	0	SMFRCD57	"*" START OF RECORD
8	(8)	X'8'	0	SMF57PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF57LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF57SEG	SEGMENT DESCRIPTOR

```
  BEGINNING OF JMR OR HASP SMF RECORD
```

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	1	SMF57FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF57RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF57TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF57DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF57SID	SYSTEM IDENTIFICATION

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPES 57					
22	(16)	X'39'	0	SMFJ57	"57" NETWORK SYSOUT TRANSMISSION
26	(1A)	BITSTRING	2	SMF57SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF57HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF57SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF57LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF57STR	"*-SMF57LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 57 SYSOUT TRANSMISSION RECRD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF57JID	ORIGINAL JOB IDENTIFICATION
40	(28)	CHARACTER	8	SMF57CJD	CURRENT JOB IDENTIFICATION
48	(30)	CHARACTER	8	SMF57ONN	ORIGINAL NODE NAME
56	(38)	CHARACTER	8	SMF57ENN	EXECUTION NODE NAME
64	(40)	CHARACTER	8	SMF57NNN	NEXT NODE NAME
72	(48)	CHARACTER	8	SMF57DVN	SYSOUT TRANSMITTER DEVICE NAME
80	(50)	BITSTRING	4	SMF57TSS	TIME ON SYSOUT TRANSMITTER
84	(54)		4	SMF57DSS	DATE ON SYSOUT TRANSMITTER
88	(58)	BITSTRING	4	SMF57TPS	TIME OFF SYSOUT TRANSMITTER
92	(5C)		4	SMF57DPS	DATE OFF SYSOUT TRANSMITTER
96	(60)	CHARACTER	8	SMF57ACN	NETWORK ACCOUNT NUMBER
104	(68)	CHARACTER	4	SMF57TSI	SYSOUT TRANSMITTER SYSTEM ID
108	(6C)	BITSTRING	4	SMF57CNT	NUMBER OF LOGICAL TP RECORDS
112	(70)	CHARACTER	1	SMF57END(0)	End of type 57 base section
This is the header for all future extensions to the SMF 57 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet. New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections.					
112	(70)	BITSTRING	2	SMF57NTR	NUMBER OF TRIPLETS
114	(72)	BITSTRING	2		RESERVED
114	(72)	X'74'	0	SMF57TRP	"*" BEGINNING OF TRIPLETS
116	(74)	BITSTRING	4	SMF57OSW	OFFSET TO ESS SECTION
120	(78)	BITSTRING	2	SMF57LSW	LENGTH OF ESS SECTION
122	(7A)	BITSTRING	2	SMF57NSW	NUMBER OF ESS SECTIONS
122	(7A)	X'8'	0	SMF57LTP	"*-SMF57TRP" LENGTH OF TRIPLETS
122	(7A)	X'1'	0	SMF57NTP	"SMF57LTP/8" NUMBER OF TRIPLETS
122	(7A)	X'C'	0	SMF57TPL	"*-SMF57NTR" Length of Triplets section and number of triplets
Enhanced SYSOUT Support (ESS) Ssection This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFX plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.					

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	BITSTRING	1	SMF57ESS(0)	Beginning of ESS section
124	(7C)	BITSTRING	2	SMF57LN1	LENGTH OF ESS SECTION
126	(7E)	BITSTRING	4	SMF57SGT	SEGMENT IDENTIFIER
130	(82)	BITSTRING	1	SMF57IND	ESS SECTION INDICATOR
		1...		SMF57SJF	"B'10000000'" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)
131	(83)	BITSTRING	1		RESERVED
132	(84)	CHARACTER	8	SMF57JDT	JDVT NAME
140	(8C)	BITSTRING	2	SMF57TUL	SWBTU DATA AREA LENGTH
142	(8E)	CHARACTER	1	SMF57TU(0)	SWBTU DATA AREA
142	(8E)	X'12'	0	SMF57ESL	"*-SMF57LN1" Length of the fixed portion of the ESS section

```
    START OF SPECIFICATIONS
    MACRO-NAME = IFASMFR
    PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    5650-ZOS COPYRIGHT IBM CORP. 1977, 2019
    STATUS= HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
            THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
   01 METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                                A DIAGNOSTIC.
   01 NOTES: none
    END OF SPECIFICATIONS
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
       START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR6
    PROPRIETARY STATEMENT =
     LICENSED MATERIALS - PROPERTY OF IBM
     5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
    STATUS = HBB77C0
    EXTERNAL CLASSIFICATION: PI
    END OF EXTERNAL CLASSIFICATION:
    IFASMFR6 maps SMF records in the range 55-69.
        %GOTO IFASMFR6B;
       END OF SPECIFICATIONS
        %GOTO IFAL55;
```

```
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD58	"*" START OF RECORD
8	(8)	X'8'	0	SMF58PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF58LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF58SEG	SEGMENT DESCRIPTOR

Table 508. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF58FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF58RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF58TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF58DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF58SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPES 58					
22	(16)	X'3A'	0	SMFJ58	"58" NETWORK SIGNOFF REC TYPE
26	(1A)	BITSTRING	2	SMF58SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF58HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF58SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF58LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF58STR	"*-SMF58LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 58 NETWORK SIGNOFF RECORD AFTER TWO HDRS					
32	(20)	CHARACTER	8	SMF58NNM	NODE NAME
40	(28)	BITSTRING	1	SMF58MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF58RV1	RESERVED
42	(2A)	CHARACTER	8	SMF58LNM	LINE NAME
50	(32)	CHARACTER	1	SMF58END(0)	END OF TYPE 58 RECORD

Table 509. Structure SMF84HDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84HDR	
0	(0)	X'0'	0	SMF84PTR	"*"
0	(0)	SIGNED	2	SMF84LEN	RECORD LENGTH
2	(2)	SIGNED	2	SMF84SEG	SEGMENT DESCRIPTOR
4	(4)	BITSTRING	1	SMF84FLG	SYSTEM INDICATOR
EQU X'80' RESERVED #					
		.1..		SMF84STI	"X'40'" SUBTYPE INDICATOR INDICATES WHICH #0733MEC SUBSYSTEM IS BEING USED #0733MEA
EQU X'20' RESERVED # EQU X'10' RESERVED # EQU X'08' RESERVED # EQU X'04' MVS/XA #0 EQU X'02' VS2 # EQU X'01' VS1 #					
5	(5)	BITSTRING	1	SMF84RTY	RECORD TYPE (84 OR X'54') #0275
5	(5)	X'54'	0	SMFJ84	"84" SMF number
6	(6)		4	SMF84TME	TIME, IN HUNDREDS OF A SECOND WHEN#0275 RECORD WAS WRITTEN (SET BY SMF) #0733

Table 509. Structure SMF84HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)		4	SMF84DTE	DATE RECORD WAS WRITTEN, IN THE FORM 00YYDDDF WHERE F IS THE SIGN #0275 (SET BY SMF) #0733
14	(E)	BITSTRING	4	SMF84SID	SYSTEM IDENTIFICATION (SET BY SMF)#0733
18	(12)	SIGNED	2	SMF84SBS	SUBSYSTEM IDENTIFICATION --
		.... ..1.		SMF84HAS	"X'0002'" Signifies JES2
		.... .1.1		SMF84ASP	"X'0005'" Signifies JES3
20	(14)	SIGNED	2	SMF84SGN	SEGMENT NUMBER #569
22	(16)	BITSTRING	1	SMF84FL1	FLAG BYTE 1 FOR SMF TYPE 84 #569
		1...		SMF84LST	"X'80'" LAST SMF SEGMENT INDICATOR #569
23	(17)	BITSTRING	1	SMF84VER	SMF84 VERSION NUMBER DEFAULT IS '00'
		.... ..1.		SMF84V2	"X'02'" TEMPORARY FIX INDICATOR
		11		SMF84V3	"X'03'" OS390 2.4.0
24	(18)	SIGNED	2	SMF84STY	RECORD SUBTYPE
26	(1A)	SIGNED	2	SMF84TRN	NUMBER OF TRIPLETS IN THIS RECORD #569
28	(1C)	SIGNED	4	SMF84PRS	OFFSET TO JMF PRODUCT SECTION
32	(20)	SIGNED	2	SMF84PRL	LENGTH OF JMF PRODUCT SECTION
34	(22)	SIGNED	2	SMF84PRN	NUMBER OF JMF PRODUCT SECTIONS #0733
36	(24)	SIGNED	4	SMF84GNS	OFFSET TO JMF GENERAL SECTION
40	(28)	SIGNED	2	SMF84GNL	LENGTH OF JMF GENERAL SECTION
42	(2A)	SIGNED	2	SMF84GNN	NUMBER OF JMF GENERAL SECTIONS
44	(2C)	SIGNED	4	SMF84J1O	OFFSET TO JMF DATA SECTION
48	(30)	SIGNED	2	SMF84J1L	LENGTH OF JMF DATA SECTION
50	(32)	SIGNED	2	SMF84J1N	NUMBER OF JMF DATA SECTIONS
50	(32)	X'34'	0	SMF84SZ1	"*-SMF84LEN" SIZE OF SMF HEADER

Table 510. Structure SMF84PRO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84PRO	
0	(0)	SIGNED	2	R84MFVER	JMF VERSION NUMBER
2	(2)	CHARACTER	8	R84PRDNM	PRODUCT NAME (I.E., SC1BA)
10	(A)		4	R84INTST	TOD JMF MEASUREMENT INTERVAL STARTED, IN THE FORM HHMMSSTF, F = SIGN, #0733 T IS TENTHS OF SECONDS #0733
14	(E)		4	R84SDATE	DATE JMF MEASUREMENT INTERVAL STARTED, IN THE FORM 00YYDDDF, WHERE F IS THE SIGN
18	(12)		4	R84INTEN	TOD JMF MEASUREMENT INTERVAL ENDED, IN THE FORM HHMMSSTF, F = SIGN, #0733 T IS TENTHS OF SECONDS #0733
22	(16)		4	R84EDATE	DATE JMF MEASUREMENT INTERVAL ENDED, IN THE FORM 00YYDDDF, WHERE F IS THE SIGN
26	(1A)		4	R84INTER	JMF INTERVAL LENGTH IN SECONDS #0776 2#0776
30	(1E)		4	R84MFCYC	JMF SAMPLING CYCLE LENGTH IN THE #0275 FORM OF 00SSSTTF, F = SIGN, #0402 (TAKEN FROM THE CYCLE OPTION) #0275

Table 510. Structure SMF84PRO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
34	(22)	BITSTRING	2		RESERVED FOR DEVELOPMENT #0275
36	(24)	SIGNED	4	R84SAMPL	NUMBER OF JMF SAMPLES
40	(28)	CHARACTER	80	R84MFCMD	*CALL,JMF COMMAND
120	(78)	CHARACTER	8	R84MVSRL	MVS SOFTWARE LEVEL (CONSISTS OF AN ACRONYM AND THE VERSION, RELEASE, AND MODIFICATION LEVEL NUMBERS)
128	(80)	CHARACTER	8	R84JESRL	JES3 RELEASE LEVEL
136	(88)	CHARACTER	4	R84CPUM	CPU MODEL NUMBER
140	(8C)	SIGNED	4	R84RSTO	REAL STORAGE SIZE IN K #0360
144	(90)	CHARACTER	8	R84CPUNM	CPU SERIAL NUMBER
152	(98)	CHARACTER	4	R84CPUID	JES3 CPU ID #0275
156	(9C)	CHARACTER	8	R84MPNAM	MAIN PROCESSOR NAME
164	(A4)	BITSTRING	1	R84J3FLG	JES3 STATUS INDICATOR FLAG
		1...		R84J3PRO	"X'80'" JES3 PROCESSOR INDICATOR: #0275 OFF MEANS JES3 GLOBAL ON MEANS JES3 LOCAL
		.1..		R84J3APG	"X'40'" JES3 IS IN THE APG PRIORITY LEVEL
		..1.		R84J3SWP	"X'20'" JES3 IS NON-SWAPPABLE
165	(A5)	BITSTRING	1		RESERVED
166	(A6)	SIGNED	2	R84JPRTY	JES3 DISPATCHING PRIORITY
168	(A8)	SIGNED	4	R84JMFMN	MIN. JMF OVERHEAD IN MICROSECONDS #0615
172	(AC)	SIGNED	4	R84JMFMX	MAX. JMF OVERHEAD IN MICROSECONDS #0615
176	(B0)	SIGNED	4	R84JMFAV	AVG. JMF OVERHEAD IN MICROSECONDS #0615 % OF JMF INTERVAL TIME = JMF AVG TIME * JMF SAMPLES / JMF INTERVAL TIME IN MICROSECONDS * 100
180	(B4)	SIGNED	4	R84MVSMN	MIN. MVS OVERHEAD IN MICROSECONDS #0615
184	(B8)	SIGNED	4	R84MVSMX	MAX. MVS OVERHEAD IN MICROSECONDS #0615
188	(BC)	SIGNED	4	R84MVSAV	AVG. MVS OVERHEAD IN MICROSECONDS #0615 % OF JMF INTERVAL TIME = MVS AVG TIME * JMF SAMPLES / JMF INTERVAL TIME IN MICROSECONDS * 100
188	(BC)	X'C0'	0	R84PSSZ1	"*-R84MFVER" SIZE OF JMF PRODUCT SECTION

Table 511. Structure SMF84GS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84GS	
0	(0)	SIGNED	4	R84CPUSC	CPU BUSY SAMPLE COUNT
4	(4)	SIGNED	4	R84NPA	IATNUC POSTED-ACTIVE COUNT; % OF IATNUC POSTED-ACTIVE = IATNUC POSTED-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
8	(8)	SIGNED	4	R84APA	IATAUX POSTED-ACTIVE COUNT; % OF IATAUX POSTED-ACTIVE = IATAUX POSTED-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100

Table 511. Structure SMF84GS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	R84NPNA	IATNUC POSTED--NOT-ACTIVE COUNT; % OF IATNUC POSTED-NOT-ACTIVE = IATNUC POSTED-NOT-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
16	(10)	SIGNED	4	R84APNA	IATAUX POSTED--NOT-ACTIVE COUNT; % OF IATAUX POSTED-NOT-ACTIVE = IATAUX POSTED-NOT-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
20	(14)	SIGNED	4	R84NNP	IATNUC NOT-POSTED COUNT; % OF IATNUC NOT-POSTED = IATNUC NOT-POSTED COUNT / CPU BUSY SAMPLE COUNT * 100
24	(18)	SIGNED	4	R84ANP	IATAUX NOT-POSTED COUNT; % OF IATAUX NOT-POSTED = IATAUX NOT-POSTED COUNT / CPU BUSY SAMPLE COUNT * 100
28	(1C)	SIGNED	4	R84NNW	IATNUC NONSTANDARD-WAIT COUNT; % OF IATNUC NONSTANDARD-WAIT = IATNUC NON-STANDARD WAIT COUNT / CPU BUSY SAMPLE COUNT * 100
32	(20)	SIGNED	4	R84ANW	IATAUX NONSTANDARD-WAIT COUNT; % OF IATAUX NONSTANDARD-WAIT = IATAUX NON-STANDARD-WAIT COUNT / CPU BUSY SAMPLE COUNT * 100
36	(24)	SIGNED	4	R84NSLLR	IATNUC SUSPENDED-LOCAL-LOCK-REQUEST COUNT; % OF IATNUC SUSPENDED-LOCAL-LOCK-REQUEST = IATNUC SUSPENDED-LOCAL-LOCK-REQUEST COUNT / CPU BUSY SAMPLE COUNT * 100
40	(28)	SIGNED	4	R84ASLLR	IATAUX SUSPENDED-LOCAL-LOCK-REQUEST COUNT; % OF IATAUX SUSPENDED-LOCAL-LOCK-REQUEST = IATAUX SUSPENDED-LOCAL-LOCK-REQUEST COUNT / CPU BUSY SAMPLE COUNT * 100
44	(2C)	SIGNED	4	R84NSO	IATNUC SUSPENDED-OTHER COUNT; % OF IATNUC SUSPENDED-OTHER = IATNUC SUSPENDED-OTHER COUNT / CPU BUSY SAMPLE COUNT * 100
48	(30)	SIGNED	4	R84ASO	IATAUX SUSPENDED-OTHER COUNT; % OF IATAUX SUSPENDED-OTHER = IATAUX SUSPENDED-OTHER COUNT / CPU BUSY SAMPLE COUNT * 100
48	(30)	X'34'	0	R84GISZ1	"*-R84CPUSC" SIZE OF JMF GENERAL INFO SECTION

Table 512. Structure SMF84JRU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84JRU	, WLM General Data Section
0	(0)	SIGNED	4	R84J2RUL	Length of the JES2 resource usage section
4	(4)	BITSTRING	1		Reserved
		Triplets to describe data areas being returned. All offsets in the section are from SMF84JRU.			
30	(1E)	SIGNED	2	R84J2RTR	Number of triplets
		Memory usage section (R84MEMJ2 DSECTs)			
32	(20)	SIGNED	4	R84J2RMO	Offset to 1st R84MEMJ2
36	(24)	SIGNED	2	R84J2RML	Length of a R84MEMJ2 entry
38	(26)	SIGNED	2	R84J2RMN	Number of R84MEMJ2 entries

Table 512. Structure SMF84JRU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Resource usage section (R84RSUJ2 DSECTs)			
40	(28)	SIGNED	4	R84J2RRO	Offset to 1st R84RSUJ2
44	(2C)	SIGNED	2	R84J2RRL	Length of a R84RSUJ2 entry
46	(2E)	SIGNED	2	R84J2RRN	Number of R84RSUJ2 entries
48	(30)	DBL WORD	8	(0)	Align
48	(30)	X'30'	0	R84J2RZ1	"*-SMF84JRU" Size of area

Table 513. Structure R84MEMJ2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	R84MEMJ2	, Memory usage data entry
0	(0)	CHARACTER	12	R84MEM_NAME	Area name
12	(C)	SIGNED	4		Reserved
16	(10)	DBL WORD	8	R84MEM_REGION	Region size in bytes
24	(18)	DBL WORD	8	R84MEM_USE	Current area usage in bytes
32	(20)	DBL WORD	8	R84MEM_LOW	Low usage value in bytes
40	(28)	DBL WORD	8	R84MEM_HIGH	High usage value in bytes
48	(30)	DBL WORD	8	R84MEM_AVERAGE	Average in use in bytes
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	R84MEM_LEN	"*-R84MEMJ2" Length of memory data

Table 514. Structure R84RSUJ2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	R84RSUJ2	, Limit monitoring data entry
0	(0)	CHARACTER	8	R84RSU_NAME	Resource name
8	(8)	SIGNED	4	R84RSU_LIMIT	Current upper limit
12	(C)	SIGNED	4	R84RSU_INUSE	Current number in use
16	(10)	SIGNED	4	R84RSU_LOW	Low usage value
20	(14)	SIGNED	4	R84RSU_HIGH	High usage value
24	(18)	SIGNED	2	R84RSU_WARN	WARN= value for resource (zero if none)
26	(1A)	BITSTRING	1	R84RSU_FLG1	Flag bytes
		1...		R84RSU_F1OVER	"B'10000000'" Usage over warn level
27	(1B)	SIGNED	1		Reserved
28	(1C)	SIGNED	4	R84RSU_OVER	Count of samples over warn level (HASP050 needed)
32	(20)	SIGNED	4	R84RSU_AVERAGE	Average in use value
40	(28)	DBL WORD	8	(0)	Align
40	(28)	X'28'	0	R84RSU_LEN	"*-R84RSUJ2" Length of resource data

Table 515. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed

Table 515. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE FOLLOWING ORGS ENSURE THAT A JES2 SMF BUFFER IS AS LARGE AS THE LARGEST SMF RECORD (PLUS THE BUFFER PREFIX) THAT JES2 WRITES. THE LENGTH OF EACH RECORD, OTHER THAN THE TYPE 6 AND 26, IS HANDLED BY THE FIRST 'ORG ,'. THE TYPE 6 AND 26 CONTAIN SEVERAL SECTIONS, AND THEIR LENGTHS ARE THEREFORE DEFINED USING THE EQUATIONS BELOW.			
272	(110)	SIGNED	4	(0)	
920	(398)	DBL WORD	8	(0)	
392	(188)	DBL WORD	8	(0)	
1352	(548)	DBL WORD	8	(0)	
1352	(548)	DBL WORD	8	(0)	
1352	(548)	X'548'	0	SMFLNG	"*-SMF" LEN OF LARGEST RECORD

Table 516. Cross Reference for $SMF

Name	Offset	Hex Tag
NJEACCT	BC	
NJEBLDG	CC	
NJEDEPT	C4	
NJEJMR	84	
NJEJMREN	E8	
NJEJMRID	84	D5D1C5D1
NJEJMRLN	8C	
NJEJMRSZ	E8	
NJEJOBNM	90	
NJEJOBNO	8E	
NJEJOBNX	E4	
NJEPRGMR	A0	
NJEROOM	D4	
NJETRANS	E4	
NJEUSRID	B4	
NJEXEQN	98	
NJEXEQU	DC	
R84ANP	18	
R84ANW	20	
R84APA	8	
R84APNA	10	
R84ASLLR	28	
R84ASO	30	
R84CPUID	98	
R84CPUM	88	
R84CPUNM	90	
R84CPUSC	0	
R84EDATE	16	
R84GISZ1	30	34
R84INTEN	12	
R84INTER	1A	
R84INTST	A	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
R84JESRL	80	
R84JMFAV	B0	
R84JMFMN	A8	
R84JMFMX	AC	
R84JPRTY	A6	
R84J2RML	24	
R84J2RMN	26	
R84J2RMO	20	
R84J2RRL	2C	
R84J2RRN	2E	
R84J2RRO	28	
R84J2RTR	1E	
R84J2RUL	0	
R84J2RZ1	30	30
R84J3APG	A4	40
R84J3FLG	A4	
R84J3PRO	A4	80
R84J3SWP	A4	20
R84MEM_AVERAGE	30	
R84MEM_HIGH	28	
R84MEM_LEN	38	38
R84MEM_LOW	20	
R84MEM_NAME	0	
R84MEM_REGION	10	
R84MEM_USE	18	
R84MEMJ2	0	
R84MFCMD	28	
R84MFCYC	1E	
R84MFVER	0	
R84MPNAM	9C	
R84MVSAV	BC	
R84MVSMN	B4	
R84MVSMX	B8	
R84MVSRL	78	
R84NNP	14	
R84NNW	1C	
R84NPA	4	
R84NPNA	C	
R84NSLLR	24	
R84NSO	2C	
R84PRDNM	2	
R84PSSZ1	BC	C0
R84RSTO	8C	
R84RSU_AVERAGE	20	
R84RSU_FLG1	1A	
R84RSU_F1OVER	1A	80

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
R84RSU_HIGH	14	
R84RSU_INUSE	C	
R84RSU_LEN	28	28
R84RSU_LIMIT	8	
R84RSU_LOW	10	
R84RSU_NAME	0	
R84RSU_OVER	1C	
R84RSU_WARN	18	
R84RSUJ2	0	
R84SAMPL	24	
R84SDATE	E	
SMF	0	
SMF	0	
SMF	0	
SMF$ESYS	22	80
SMFAPPC	6	1
SMFCBIE	3F	1
SMFCHAIN	0	
SMFCLFLG	6	
SMFJMR	A	C
SMFJMRCH	8	
SMFJMRTP	4	80
SMFJ24	16	18
SMFJ26	D	1A
SMFJ43	D	2B
SMFJ45	D	2D
SMFJ47	D	2F
SMFJ48	D	30
SMFJ49	D	31
SMFJ52	16	34
SMFJ53	16	35
SMFJ54	16	36
SMFJ55	16	37
SMFJ56	16	38
SMFJ57	16	39
SMFJ58	16	3A
SMFJ6	D	6
SMFJ84	5	54
SMFLEN	8	
SMFLNG	548	548
SMFLNHDR	7	8
SMFLRGTP	4	40
SMFNO26	5	1
SMFPARM	7	
SMFQUED	4	20
SMFRCD24	8	8

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMFRCD26	8	8
SMFRCD43	8	8
SMFRCD45	8	8
SMFRCD47	8	8
SMFRCD48	8	8
SMFRCD49	8	8
SMFRCD52	8	8
SMFRCD53	8	8
SMFRCD54	8	8
SMFRCD55	8	8
SMFRCD56	8	8
SMFRCD57	8	8
SMFRCD58	8	8
SMFRCD6	8	8
SMFRDW	8	
SMFSEG	A	
SMFTYPE	4	
SMFWFL26	5	
SMF24AFF	C2	40
SMF24AOF	FC	E8
SMF24BCF	5A	0
SMF24BHD	8	
SMF24CJD	6C	40404040
SMF24CNT	A4	0
SMF24COM	5B	80
SMF24CON	5A	40
SMF24DDS	AC	0
SMF24DRD	BC	0
SMF24DSN	78	40404040
SMF24DTE	12	C
SMF24EJS	F0	
SMF24EOJ	5B	0
SMF24ESA	F0	
SMF24ESL	10F	12
SMF24ESS	FD	
SMF24FCB	D4	40404040
SMF24FLG	C	0
SMF24FLS	E0	40404040
SMF24FOR	D8	40404040
SMF24FST	5A	80
SMF24GEN	58	
SMF24GLN	58	0
SMF24GOF	FC	50
SMF24INC	C2	10
SMF24IND	103	
SMF24INJ	5B	20

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF24JAF	CC	40404040
SMF24JBN	5C	40404040
SMF24JBS	C0	
SMF24JCL	C3	40
SMF24JDT	105	
SMF24JFG	C2	0
SMF24JHL	C2	80
SMF24JID	64	40404040
SMF24JND	C4	40404040
SMF24JR	1E	2
SMF24JRT	C4	
SMF24JT	1E	1
SMF24LEN	8	
SMF24LGN	30	
SMF24LHD	22	1C
SMF24LN	FC	68
SMF24LN1	C0	0
SMF24LN2	C0	0
SMF24LN3	FD	0
SMF24LN4	F8	
SMF24LPS	28	
SMF24LSA	48	
SMF24LSP	38	
SMF24LST	5A	20
SMF24LSW	40	
SMF24LS4	F0	0
SMF24L1	FC	30
SMF24L2	FC	3D
SMF24MUL	C2	8
SMF24NGN	32	
SMF24NPS	2A	
SMF24NSA	4A	
SMF24NSP	3A	
SMF24NSW	42	
SMF24NTP	4A	5
SMF24NTR	20	
SMF24OGN	2C	
SMF24OPR	5B	10
SMF24OPS	24	
SMF24ORG	B0	40404040
SMF24OSA	44	
SMF24OSP	34	
SMF24OSW	3C	
SMF24PNM	4E	
SMF24POF	FC	44
SMF24PRD	FC	C

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF24PRM	E4	40404040
SMF24PRO	4C	
SMF24PRY	FC	0
SMF24PTR	8	8
SMF24PVR	4C	
SMF24REC	F8	0
SMF24RSV	22	
SMF24RS2	56	
SMF24RTY	D	0
SMF24SAC	FC	
SMF24SAL	FC	C
SMF24SAN	F4	
SMF24SBT	C2	40
SMF24SCL	C3	40
SMF24SDS	5B	40
SMF24SEG	A	
SMF24SFG	C2	0
SMF24SGT	FF	
SMF24SHL	C2	80
SMF24SID	16	40404040
SMF24SJF	103	80
SMF24SJH	C2	20
SMF24SND	C4	40404040
SMF24SOF	FC	B8
SMF24SOS	C0	
SMF24SR	1E	4
SMF24SRN	CC	40404040
SMF24SRT	C4	
SMF24SSI	1A	
SMF24ST	1E	3
SMF24STS	C	40
SMF24SUB	1E	0
SMF24SYS	74	40404040
SMF24TDS	A8	0
SMF24TME	E	0
SMF24TPS	22	24
SMF24TRD	B8	0
SMF24TRP	4A	28
SMF24TU	10F	
SMF24TUL	10D	
SMF24UCS	EC	40404040
SMF24WID	F0	40404040
SMF248CL	E8	40404040
SMF26ACP	38	100
SMF26ACT	70	
SMF26AC1	C0	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26ASP	36	5
SMF26ATU	38	2000
SMF26BCH	3E	80
SMF26BHD	8	
SMF26CID	4E	
SMF26CLN	B8	
SMF26CLS	61	
SMF26CON	A4	20
SMF26CPD	52	
SMF26CPT	4E	
SMF26CPY	3E	2
SMF26CSD	4A	
SMF26CST	46	
SMF26CYP	88	
SMF26DDT	B4	
SMF26DES	38	8000
SMF26DEV	68	
SMF26DJC	3E	80
SMF26DJE	3E	1
SMF26DJO	3E	2
SMF26DLJ	3E	40
SMF26DLM	3E	20
SMF26DTE	12	
SMF26DTM	B0	
SMF26DTY	84	
SMF26EBT	3C	
SMF26EFM	4C	
SMF26EIR	3F	4
SMF26ELN	7C	
SMF26EPG	44	
SMF26EPU	80	
SMF26EVT	38	4000
SMF26FLG	C	
SMF26FRM	84	
SMF26FTS	3E	40
SMF26HSP	36	2
SMF26ICD	3E	
SMF26IGP	88	
SMF26IND	38	
SMF26INF	3F	
SMF26INR	3C	
SMF26IN2	3E	
SMF26IN3	3E	
SMF26IX2	64	
SMF26JAF	5A	
SMF26JBF	3E	1

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26JBN	1A	
SMF26JCP	3F	80
SMF26JCR	54	
SMF26JDL	64	80
SMF26JID	44	
SMF26JNM	40	
SMF26JOL	64	40
SMF26JXP	38	400
SMF26J2D	80	84
SMF26J2R	38	800
SMF26J3D	84	84
SMF26LA	C0	40
SMF26LAG	40	
SMF26LEN	8	
SMF26LIN	8A	
SMF26LJC	50	
SMF26LN	C0	32
SMF26LN1	3A	
SMF26LN2	3A	
SMF26LN3	3A	
SMF26LN4	3A	
SMF26LN5	3A	
SMF26LN6	3A	
SMF26LN7	3A	
SMF26LN8	BD	
SMF26LOC	66	
SMF26LPN	64	20
SMF26LWL	48	
SMF26L1	C0	5E
SMF26L10	C0	83
SMF26L2	C0	3C
SMF26L3	C0	20
SMF26L4	C0	68
SMF26L5	C0	E
SMF26L6	C0	1A
SMF26L7	C0	1A
SMF26L9	C0	29
SMF26MRE	3F	2
SMF26MSG	60	
SMF26NAC	52	
SMF26NAG	42	
SMF26NAM	4C	
SMF26NDV	62	
SMF26NET	A8	
SMF26NID	3E	
SMF26NJB	5A	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26NJC	52	
SMF26NJE	3E	4
SMF26NJI	A0	
SMF26NJO	98	
SMF26NJX	3E	8
SMF26NLG	3F	10
SMF26NLN	82	
SMF26NN	92	
SMF26NNM	7A	
SMF26NOJ	3E	10
SMF26NON	6A	
SMF26NOU	3E	8
SMF26NPD	4E	
SMF26NPT	4A	
SMF26NRA	BF	
SMF26NSD	46	
SMF26NST	42	
SMF26NTW	38	1000
SMF26NU	9A	
SMF26NWL	4A	
SMF26NXN	72	
SMF26OAG	3C	
SMF26OID	56	
SMF26OJC	4C	
SMF26OPC	3F	1
SMF26OPD	72	
SMF26OPS	65	
SMF26OPT	6E	
SMF26OSD	6A	
SMF26OST	66	
SMF26OWL	44	
SMF26PDD	90	
SMF26PD3	90	
SMF26PRD	40	
SMF26PRJ	3E	10
SMF26PRR	8C	
SMF26PTR	8	8
SMF26PUD	44	
SMF26PUR	8E	
SMF26RID	4A	
SMF26ROM	74	
SMF26RPD	42	
SMF26RPT	3E	
SMF26RSD	26	
SMF26RST	22	
SMF26RSV	32	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26RTY	D	
SMF26RVA	70	
SMF26RV1	3C	
SMF26RV2	3C	
SMF26RV4	3C	
SMF26RV5	3C	
SMF26RV6	85	
SMF26RV8	64	
SMF26R02	38	200
SMF26SBS	36	
SMF26SCN	3E	4
SMF26SEG	A	
SMF26SID	16	
SMF26SJB	A4	40
SMF26SRC	E8	
SMF26STK	3E	20
SMF26STU	3F	40
SMF26SUI	8A	
SMF26SZ1	C0	10
SMF26SZ2	C0	4C
SMF26SZ3	C0	8
SMF26SZ4	C0	4
SMF26SZ5	C0	4F
SMF26TLN	C0	17C
SMF26TME	E	
SMF26TRH	3F	20
SMF26UIF	2A	
SMF26WCL	94	
SMF26WIN	A4	
SMF26WJC	A5	
SMF26WLM	A4	80
SMF26WOC	9C	
SMF26WSE	AD	
SMF26XBC	3F	8
SMF26XBT	40	
SMF26XID	52	
SMF26XLN	42	
SMF26XPD	62	
SMF26XPG	48	
SMF26XPI	62	
SMF26XPS	63	
SMF26XPT	5E	
SMF26XPU	46	
SMF26XSD	5A	
SMF26XST	56	
SMF26XTM	78	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26XWR	64	10
SMF43ANL	22	10
SMF43ASP	1A	5
SMF43BAS	8	
SMF43CLD	22	80
SMF43DSI	22	1
SMF43DTE	12	
SMF43EID	24	
SMF43END	3E	
SMF43FLG	C	
SMF43GBL	22	8
SMF43HOT	22	20
SMF43HSP	1A	2
SMF43INT	28	40404040
SMF43JS3	23	
SMF43J2	20	
SMF43LCL	22	4
SMF43LEN	8	
SMF43LRR	1E	
SMF43L1	28	20
SMF43L2	28	8
SMF43NMU	25	
SMF43OPT	23	
SMF43ORG	26	
SMF43PCO	20	
SMF43PJ3	2E	
SMF43PRC	20	40404040
SMF43PTR	8	8
SMF43REF	22	2
SMF43RST	22	
SMF43RSV	1C	
SMF43RTY	D	
SMF43RVJ	32	
SMF43RVU	3A	
SMF43RV1	20	
SMF43RV2	23	
SMF43SBG	22	23
SMF43SBP	1E	20
SMF43SBS	1A	
SMF43SEG	A	
SMF43SID	16	
SMF43SIZ	3E	
SMF43TME	E	
SMF43UNT	26	26
SMF43UN4	26	26
SMF43US1	24	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF43WRM	22	40
SMF45ABN	20	80
SMF45ABT	28	20
SMF45ASP	1A	5
SMF45ATM	20	80
SMF45DSI	20	40
SMF45DTE	12	
SMF45END	32	
SMF45FG1	20	
SMF45FLG	C	
SMF45HLT	28	80
SMF45HSP	1A	2
SMF45IND	20	
SMF45JCC	22	
SMF45JS3	20	
SMF45J2	8	
SMF45J3C	21	
SMF45LEN	8	
SMF45LRR	1E	
SMF45L1	2C	1C
SMF45L2	2C	4
SMF45NOS	28	10
SMF45NUL	2C	
SMF45OPS	28	40
SMF45PCO	20	
SMF45PRC	20	40404040
SMF45PTR	8	8
SMF45RSV	1C	
SMF45RTY	D	
SMF45RVJ	26	
SMF45RVU	2E	
SMF45RV1	24	
SMF45SBG	1E	20
SMF45SBS	1A	
SMF45SEG	A	
SMF45SID	16	
SMF45SIZ	32	
SMF45STF	28	
SMF45TME	E	
SMF45UID	29	
SMF45US1	25	
SMF47A	3C	
SMF47ASP	1A	5
SMF47CWK	20	20
SMF47DPL	34	
SMF47DSL	30	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF47DTE	12	
SMF47END	6E	
SMF47EVT	20	
SMF47FLG	C	
SMF47GN	22	
SMF47HSP	1A	2
SMF47JID	28	
SMF47LAA	2E	
SMF47LCF	20	
SMF47LEN	8	
SMF47LIN	2C	
SMF47LN1	22	
SMF47LN2	3C	
SMF47LON	20	4
SMF47LRR	1E	
SMF47LTC	24	
SMF47L1	20	1A
SMF47L2	20	26
SMF47L3	20	5A
SMF47L4	20	34
SMF47MSG	3E	
SMF47PCI	2F	
SMF47PCO	20	
SMF47PLI	25	
SMF47PSW	34	
SMF47PTR	8	8
SMF47RMT	24	
SMF47RSV	1C	
SMF47RTY	D	
SMF47RVJ	62	
SMF47RVU	6A	
SMF47SBG	1E	20
SMF47SBS	1A	
SMF47SEG	A	
SMF47SID	16	
SMF47SIZ	6E	
SMF47SON	20	1
SMF47SPA	20	4
SMF47STL	20	2
SMF47TME	E	
SMF47UID	21	
SMF47ULK	20	1
SMF47UNL	20	80
SMF48ADP	58	
SMF48AD4	5B	
SMF48ASP	1A	5

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF48BXL	3C	1C
SMF48B2L	53	1B
SMF48B3L	67	2B
SMF48CAN	20	2
SMF48CDH	4C	
SMF48CNI	20	40
SMF48CNT	28	
SMF48CPD	44	
SMF48CPG	20	10
SMF48CPU	24	
SMF48CT	58	14
SMF48CTD	48	
SMF48CTH	2C	
SMF48CWK	20	20
SMF48DCK	44	
SMF48DID	54	
SMF48DIO	34	
SMF48DSL	3C	
SMF48DSP	40	
SMF48DTE	12	
SMF48END	67	
SMF48ERR	4C	
SMF48ERS	40	
SMF48EVT	20	
SMF48FLG	C	
SMF48FLS	20	
SMF48HSI	20	8
SMF48HSP	1A	2
SMF48IO	3C	
SMF48LAA	50	
SMF48LA4	53	
SMF48LEN	8	
SMF48LIN	2C	
SMF48LOF	20	4
SMF48LRR	1E	
SMF48L1	58	4F
SMF48NAK	40	
SMF48NKS	46	
SMF48OUT	48	
SMF48PSW	34	
SMF48PTR	8	8
SMF48RMT	24	
SMF48RPI	20	80
SMF48RSV	1C	
SMF48RTY	D	
SMF48RVJ	5F	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF48RVU	63	
SMF48RV1	22	
SMF48SBG	34	3C
SMF48SBP	1E	20
SMF48SBS	1A	
SMF48SEG	A	
SMF48SID	16	
SMF48SIZ	67	
SMF48SOF	20	1
SMF48SPA	20	4
SMF48S0	48	
SMF48S1	49	
SMF48S2	4A	
SMF48S3	4B	
SMF48S4	4C	
SMF48S5	4D	
SMF48S6	4E	
SMF48TID	58	
SMF48TIO	38	
SMF48TME	E	
SMF48TOT	44	
SMF48TRN	3C	
SMF48UID	21	
SMF48ULK	20	1
SMF48USR	4F	
SMF48VIR	30	
SMF48VSD	50	
SMF48XCP	3C	
SMF49A	3C	
SMF49ASP	1A	5
SMF49BND	21	8
SMF49DEF	21	6
SMF49DTE	12	
SMF49EJ2	20	
SMF49EJ22	21	
SMF49EJ3	20	
SMF49EJ32	21	
SMF49END	62	
SMF49EVT	20	
SMF49FLG	C	
SMF49FLN	28	
SMF49GEN	22	
SMF49HSP	1A	2
SMF49LEN	8	
SMF49LER	21	4
SMF49LIM	21	5

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF49LIN	2C	
SMF49LNA	23	
SMF49LN1	22	
SMF49LN2	3C	
SMF49LRR	1E	
SMF49L1	20	1A
SMF49L2	20	26
SMF49L3	20	5A
SMF49MSG	3E	
SMF49NER	21	1
SMF49PCO	20	
SMF49PER	21	2
SMF49PSW	34	
SMF49PTR	8	8
SMF49RMT	24	
SMF49RSV	1C	
SMF49RTY	D	
SMF49RV1	26	
SMF49SBG	1E	20
SMF49SBS	1A	
SMF49SEG	A	
SMF49SID	16	
SMF49SIZ	62	
SMF49SON	21	1
SMF49SPW	21	7
SMF49STL	21	2
SMF49TER	21	8
SMF49TME	E	
SMF49UFO	34	
SMF49VID	20	
SMF52DTE	12	C
SMF52END	46	
SMF52FLG	C	0
SMF52IDL	22	0
SMF52IDN	24	0
SMF52IDO	20	0
SMF52IDS	2E	
SMF52LEN	8	
SMF52LID	46	18
SMF52LIN	36	40404040
SMF52LON	26	1
SMF52LPR	46	8
SMF52OFI	46	26
SMF52OFP	46	1E
SMF52OPS	26	
SMF52POF	1A	0

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF52PRL	1C	0
SMF52PRN	1E	0
SMF52PSW	3E	40404040
SMF52PTR	8	8
SMF52RMT	2E	40404040
SMF52RTY	D	0
SMF52SEG	A	
SMF52SID	16	40404040
SMF52SLN	26	2
SMF52SUB	26	0
SMF52SYS	2A	D1C5E2F2
SMF52TME	E	0
SMF52VER	28	F0F1
SMF53ADP	5A	E2D5C1
SMF53CTR	46	0
SMF53DTE	12	C
SMF53END	5D	
SMF53FLG	C	0
SMF53IDL	22	0
SMF53IDN	24	0
SMF53IDO	20	0
SMF53IDS	2E	
SMF53LEN	8	
SMF53LID	5D	2F
SMF53LIN	36	40404040
SMF53LOF	26	1
SMF53LPR	5D	8
SMF53OFI	5D	26
SMF53OFP	5D	1E
SMF53OPS	26	
SMF53PLN	26	2
SMF53PRL	1C	0
SMF53PRN	1E	0
SMF53PRO	1A	0
SMF53PSW	3E	40404040
SMF53PTR	8	8
SMF53RMT	2E	40404040
SMF53RTY	D	0
SMF53SEG	A	
SMF53SID	16	40404040
SMF53SUB	26	0
SMF53SYS	2A	D1C5E2F2
SMF53TME	E	0
SMF53VER	28	F0F1
SMF54DTE	12	C
SMF54END	46	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF54FLG	C	0
SMF54IDL	22	0
SMF54IDN	24	0
SMF54IDO	20	0
SMF54IDS	2E	
SMF54LEN	8	
SMF54LON	26	1
SMF54OPS	26	
SMF54POF	1A	0
SMF54PRL	1C	0
SMF54PRN	1E	0
SMF54PSW	3E	40404040
SMF54PTR	8	8
SMF54RMT	2E	40404040
SMF54RPW	36	40404040
SMF54RTY	D	0
SMF54SEG	A	
SMF54SID	16	40404040
SMF54SUB	26	0
SMF54SYS	2A	D1C5E2F2
SMF54TME	E	0
SMF54VER	28	F0F1
SMF55BSZ	42	0
SMF55CON	29	40
SMF55DTE	12	C
SMF55END	46	
SMF55EN2	D7	
SMF55FG1	29	0
SMF55FLG	C	0
SMF55HNM	58	40404040
SMF55HSP	1A	2
SMF55IPA	46	0
SMF55LEN	8	
SMF55LNM	3A	40404040
SMF55LPW	2A	40404040
SMF55LRR	1E	0
SMF55MEM	28	0
SMF55NNM	20	40404040
SMF55NPW	32	40404040
SMF55PRT	56	0
SMF55PTR	8	8
SMF55RSO	29	80
SMF55RTY	D	0
SMF55SBS	1A	2
SMF55SEC	29	20
SMF55SEG	A	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF55SID	16	40404040
SMF55STR	1E	18
SMF55SUB	1C	0
SMF55TME	E	0
SMF56BSZ	42	0
SMF56CON	29	40
SMF56DTE	12	C
SMF56END	46	
SMF56EN2	D7	
SMF56FG1	29	0
SMF56FLG	C	0
SMF56HNM	58	40404040
SMF56HSP	1A	2
SMF56IPA	46	0
SMF56LEN	8	
SMF56LNM	3A	40404040
SMF56LPW	2A	40404040
SMF56LRR	1E	0
SMF56MEM	28	0
SMF56NNM	20	40404040
SMF56NPW	32	40404040
SMF56PRT	56	0
SMF56PTR	8	8
SMF56RSO	29	80
SMF56RTY	D	0
SMF56SBS	1A	2
SMF56SEC	29	20
SMF56SEG	A	
SMF56SID	16	40404040
SMF56SUB	1C	0
SMF56TME	E	0
SMF57ACN	60	40404040
SMF57CJD	28	40404040
SMF57CNT	6C	0
SMF57DPS	5C	C
SMF57DSS	54	C
SMF57DTE	12	C
SMF57DVN	48	40404040
SMF57END	70	
SMF57ENN	38	40404040
SMF57ESL	8E	12
SMF57ESS	7C	
SMF57FLG	C	0
SMF57HSP	1A	2
SMF57IND	82	
SMF57JDT	84	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF57JID	20	40404040
SMF57LEN	8	
SMF57LN1	7C	
SMF57LRR	1E	0
SMF57LSW	78	
SMF57LTP	7A	8
SMF57NNN	40	40404040
SMF57NSW	7A	
SMF57NTP	7A	1
SMF57NTR	70	
SMF57ONN	30	40404040
SMF57OSW	74	
SMF57PTR	8	8
SMF57RTY	D	0
SMF57SBS	1A	2
SMF57SEG	A	
SMF57SGT	7E	
SMF57SID	16	40404040
SMF57SJF	82	80
SMF57STR	1E	18
SMF57SUB	1C	0
SMF57TME	E	0
SMF57TPL	7A	C
SMF57TPS	58	0
SMF57TRP	72	74
SMF57TSI	68	40404040
SMF57TSS	50	0
SMF57TU	8E	
SMF57TUL	8C	
SMF58DTE	12	C
SMF58END	32	
SMF58FLG	C	0
SMF58HSP	1A	2
SMF58LEN	8	
SMF58LNM	2A	40404040
SMF58LRR	1E	0
SMF58MEM	28	0
SMF58NNM	20	40404040
SMF58PTR	8	8
SMF58RTY	D	0
SMF58RV1	29	0
SMF58SBS	1A	2
SMF58SEG	A	
SMF58SID	16	40404040
SMF58STR	1E	18
SMF58SUB	1C	0

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF58TME	E	0
SMF6APAL	77	
SMF6APA1	77	1
SMF6BID	6B	
SMF6BIN	74	
SMF6BIN1	74	80
SMF6BIN2	74	40
SMF6BIN3	74	20
SMF6BIN4	74	10
SMF6BNCT	9	
SMF6BNLE	C	
SMF6BNLN	8	
SMF6BNNO	8	
SMF6BNOF	4A	
SMF6BNUM	A	
SMF6BNWI	E	
SMF6BTS	6B	80
SMF6BYTE	4A	
SMF6CCE	64	2
SMF6CHR	52	
SMF6CPS	4A	
SMF6CSP	6B	20
SMF6DCI	4A	
SMF6DCRV	4A	80
SMF6DDNM	7E	
SMF6DEND	EA	
SMF6DFE	64	
SMF6DIE	3F	4
SMF6DPGL	75	10
SMF6DPLS	76	10
SMF6DSIZ	EA	
SMF6DSNM	9E	
SMF6DTE	12	C
SMF6DUPS	75	80
SMF6DUPT	75	40
SMF6EEND	5A	
SMF6EFMN	4E	
SMF6END	7C	
SMF6END2	66	
SMF6ESIZ	5A	
SMF6ESS1	45	10
SMF6FCB	58	
SMF6FDNM	84	
SMF6FEET	68	
SMF6FEND	6C	
SMF6FEXT	45	80

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6FLC	6A	
SMF6FLG	C	0
SMF6FLG3	76	
SMF6FLI	66	
SMF6FMDF	70	
SMF6FMN	41	40404040
SMF6FONT	4C	
SMF6FSIZ	6C	
SMF6FTFR	45	8
SMF6FTL	52	
SMF6FTL1	52	1
SMF6GRP	68	
SMF6IGER	75	1
SMF6IMPS	64	
SMF6IND	4E	
SMF6INDC	4B	
SMF6INT	4A	1
SMF6IOE	3F	0
SMF6IP1	4E	
SMF6IP2	4F	
SMF6IP3	50	
SMF6IP4	51	
SMF6JBID	66	
SMF6JBN	1A	40404040
SMF6JDVT	50	
SMF6JHPP	76	40
SMF6JNM	4C	
SMF6JTPP	76	20
SMF6J2L3	4B	3
SMF6J2L4	4B	4
SMF6J2S	60	64
SMF6J3L3	4B	3
SMF6J3L4	4B	4
SMF6J3S	64	64
SMF6LEN	8	
SMF6LEV2	4B	1
SMF6LEV3	4B	1
SMF6LEV4	4B	5
SMF6LEV6	4B	6
SMF6LEV7	4B	7
SMF6LFNT	50	
SMF6LN1	48	
SMF6LN2	48	
SMF6LN3	48	
SMF6LN4	48	
SMF6LN5	48	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6LN6	48	
SMF6LOLY	58	
SMF6LPGE	BC	
SMF6LPSG	60	
SMF6LSIZ	7C	
SMF6MID	62	
SMF6NDS	40	0
SMF6NLR	3B	0
SMF6NSFO	7C	
SMF6NSOL	78	
SMF6NSPS	80	
SMF6OCN	4A	20
SMF6OCNM	9C	
SMF6OPJ	6B	40
SMF6OPR	66	
SMF6OR	4A	8
SMF6ORD	4A	10
SMF6OSS	4A	2
SMF6OTOK	D6	
SMF6OUT	50	
SMF6OVLY	54	
SMF6OWC	32	40
SMF6PAD1	45	0
SMF6PDNM	8C	
SMF6PGDF	6C	
SMF6PGE	60	
SMF6PGOP	75	
SMF6PGSG	5C	
SMF6PQLN	5E	
SMF6PRMD	96	
SMF6PRNM	76	
SMF6PRTQ	60	
SMF6PTDV	94	
SMF6RBE	64	1
SMF6REND	56	
SMF6RES	4A	
SMF6REXT	45	40
SMF6ROR	4A	4
SMF6ROUT	4A	
SMF6RSD	26	C
SMF6RSIZ	56	
SMF6RST	22	0
SMF6RSV	4F	
SMF6RSVJ	70	
SMF6RSVU	78	
SMF6RTE	64	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6RTY	D	0
SMF6SBS	46	
SMF6SDS	4A	40
SMF6SECS	8E	
SMF6SEG	A	
SMF6SEND	C0	
SMF6SETU	9C	
SMF6SEXT	45	20
SMF6SGID	4A	
SMF6SID	16	40404040
SMF6SIZ	7C	
SMF6SIZ2	66	
SMF6SIZ3	66	
SMF6SJF	4E	80
SMF6SLIG	76	80
SMF6SOER	75	2
SMF6SPGL	75	4
SMF6SSIZ	C0	
SMF6STNM	6E	
SMF6SUCC	75	8
SMF6SYSA	75	20
SMF6TEND	78	
SMF6TME	E	0
SMF6TSIZ	78	
SMF6TU	5A	
SMF6TUL	58	
SMF6UCS	5C	
SMF6UIF	2A	40404040
SMF6UPAS	76	8
SMF6URI	78	
SMF6URIL	5C	
SMF6USID	86	
SMF6WSD	37	C
SMF6WST	33	0
SMF84ASP	12	5
SMF84DTE	A	
SMF84FLG	4	
SMF84FL1	16	
SMF84GNL	28	
SMF84GNN	2A	
SMF84GNS	24	
SMF84GS	0	
SMF84HAS	12	2
SMF84HDR	0	
SMF84JRU	0	
SMF84J1L	30	

Table 516. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF84J1N	32	
SMF84J1O	2C	
SMF84LEN	0	
SMF84LST	16	80
SMF84PRL	20	
SMF84PRN	22	
SMF84PRO	0	
SMF84PRS	1C	
SMF84PTR	0	0
SMF84RTY	5	
SMF84SBS	12	
SMF84SEG	2	
SMF84SGN	14	
SMF84SID	E	
SMF84STI	4	40
SMF84STY	18	
SMF84SZ1	32	34
SMF84TME	6	
SMF84TRN	1A	
SMF84VER	17	
SMF84V2	17	2
SMF84V3	17	3

$SNFWORK information

$SNFWORK heading information

Common name: JES2 SPOOL Sniffer Work Area

Macro ID: $SNFWORK

DSECT name: PCE ($SNFWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SNWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $SNFPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by the JES2 SPOOL Management Processor and by its support routines and exits. $SNFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SNFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESNFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SNFWORK mapping

Table 517. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	6	SNWLSNIF(0)	Extent, offset within extent and bit within byte of last sniffed
334	(14E)	BITSTRING	2		Reserved for future use
336	(150)	ADDRESS	4	SNWQUEUE	Anchor for immediate work to do queue
340	(154)	BITSTRING	1	SNWFLAG1	Flags
		..1.		SNW1BADT	"B'00100000'" Sniffing bad trackgroup
		.... 1...		SNW1MFID	"B'00001000'" Inactive DAS found during examination of DASes for mini fmt
341	(155)	BITSTRING	3		Available for use by IBM
344	(158)	SIGNED	4		Reserved for future use
348	(15C)	BITSTRING	12	SNWTQE	TQE for SNFWAIT processing
360	(168)	BITSTRING	5	SNWMQT	MQT for next sniffing
365	(16D)	BITSTRING	1		Reserved for future use
		The following field represents the MOOB (extent offset bit) of the track group of a DAS whose DAS3EFWZ flag is off. This track group signature record will be re-written with zeros if its SIGJBKEY field in signature record contains FFs and TG is not allocated.			
366	(16E)	BITSTRING	6	SNWMFMOB	Extent number, Extent TG offset and bit of track group of a DAS whose DAS3EFWZ is off(will be mini reformatted with zeros)
376	(178)	DBL WORD	8	(0)	Force double-word alignment
376	(178)	X'30'	0	SNWPCEWS	"*-PCEWORK" Length of work area

Table 518. Cross Reference for $SNFWORK

Name	Offset	Hex Tag
PCE	0	
SNWFLAG1	154	
SNWLSNIF	148	
SNWMFMOB	16E	
SNWMQT	168	
SNWPCEWS	178	30
SNWQUEUE	150	
SNWTQE	15C	
SNW1BADT	154	20
SNW1MFID	154	8

$SPIWORK information

$SPIWORK heading information

Common name: JES2 Sysout API Work Area

Macro ID: $SPIWORK

DSECT name: PCE ($SPIWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SPIWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $SPIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first SYSOUT API PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Sysout API Processor and by its support routines and exits. $SPIWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SPIWORK mapping

Table 519. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	228	SPIWS	WS EBCDIC list
556	(22C)	SIGNED	4	SPIWKOFF	Offset of work JOE
560	(230)	SIGNED	2	SPI#PDDB	Number of PDDBs processed in SSI
562	(232)	SIGNED	2	SPIPDDB#	Number of PDDBs processed in SASR
564	(234)	BITSTRING	1	SPIFLAG1	Copy of SAPFLAG1
565	(235)	BITSTRING	1	SPIFLAGJ	Copy of SAPFLAGJ
566	(236)	BITSTRING	1	SPIFLAGS	Local (SASR) flags
		1...		SPISDISC	"B'10000000'" Discard the data sets that have been processed in this JOE
		.1..		SPISDUPJ	"B'01000000'" Caller wants to reject job if there is another with same name
		..1.		SPISJOE	"B'00100000'" JOE handled by SAIDISP
		...1		SPISJLOK	"B'00010000'" SAIDISP has job lock
567	(237)	CHARACTER	1	SPIMCLAS	Message class of job
568	(238)	BITSTRING	1	SPIFLAG3	Copy of SAPFLAG3
569	(239)	BITSTRING	1	SPIFLAG2	Copy of SAPFLAG2

Table 519. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
570	(23A)	BITSTRING	10		Reserved for future use
580	(244)	SIGNED	4	SPIWRNUM	Thread level value used for JWEL proc
584	(248)	BITSTRING	8	SPIWRASI	Address space level value used for JWEL processing
592	(250)	BITSTRING	3	SPIDEVID	Device ID
595	(253)	BITSTRING	1	SPIFLGJ2	Copy of SAPFLGJ2
596	(254)	SIGNED	4	SPIRECCT	PDDB record count
600	(258)	SIGNED	4	SPIPGCT	PDDB page count
604	(25C)	SIGNED	4	SPIOJOE	Offset of prior JOE
608	(260)	SIGNED	4	SPIOCRTM	Create time of JOE
612	(264)	BITSTRING	192	SPIRGRPM	Parameter list for TREGROUP
804	(324)	BITSTRING	180	SPIWKJOA	Temporary JOA
984	(3D8)	SIGNED	4	SPIXECB(0)	SAPID queue mod ENQ ECB
1008	(3F0)	SIGNED	4	SPIENQST(0)	True start of ENQ list
MACRO-DATE = 03/16/15					
1008	(3F0)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1008	(3F0)	ADDRESS	4		PREFIX - ECB ADDRESS
1008	(3F0)	X'3F4'	0	SPIENQPL	"*" X02113
1012	(3F4)	ADDRESS	1		PELLAST flag byte. X02113
1013	(3F5)	ADDRESS	1		PELMILEN - RNAME length.
1014	(3F6)	BITSTRING	1		
PELFLAG - flag byte 2.					
1015	(3F7)	ADDRESS	1		PELRET - return code byte.
1016	(3F8)	ADDRESS	4		QNAME ADDRESS
1020	(3FC)	ADDRESS	4		RNAME ADDRESS
1020	(3FC)	X'3F0'	0	SPIENQL	"SPIENQST,*-SPIENQST" ENQ parm length, IPCS use
1024	(400)	SIGNED	4	SPIDEQST(0)	True start of DEQ list
MACRO-DATE = 03/16/2015					
1024	(400)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1024	(400)	X'400'	0	SPIDEQPL	"*" X02113
1024	(400)	ADDRESS	1		PELLAST flag byte. X02113
1025	(401)	ADDRESS	1		PELMILEN - RNAME length.
1026	(402)	BITSTRING	1		
PELFLAG - flag byte 2.					
1027	(403)	ADDRESS	1		PELRET - return code byte.
1028	(404)	ADDRESS	4		QNAME ADDRESS
1032	(408)	ADDRESS	4		RNAME ADDRESS
1032	(408)	X'400'	0	SPIDEQL	"SPIDEQST,*-SPIDEQST" DEQ parm length, IPCS use
1036	(40C)	ADDRESS	4	SPIIOT	Address of IOT buffer
1040	(410)	BITSTRING	4	SPIJBKEY	Job key

Table 519. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	BITSTRING	6	SPIANCHR	MQTR of first regular IOT
1050	(41A)	BITSTRING	50	SPIPRTBL	Room for PRMODE table
1100	(44C)	SIGNED	1	SPITYPE	Type of SSI call (See SSS2TYPE in IAZSSS2)
1101	(44D)	BITSTRING	1		Reserved for future use
1104	(450)	ADDRESS	4	(0)	Align on full word
1104	(450)	CHARACTER	8	SPIAJOBN	Application jobname
1112	(458)	CHARACTER	8	SPIAJOBI	Application jobid
1120	(460)	CHARACTER	8	SPIACHKY	Application CSCB CHKEY
1128	(468)	BITSTRING	4	SPIIOTF	MTTR of first IOT in JOE
1132	(46C)	SIGNED	2	SPIPDDBF	PDDB offset of first PDDB in JOE
1134	(46E)	BITSTRING	2		Reserved for future use
1136	(470)	CHARACTER	8	SPITHRED	Thread name (from SSS2APPL)
1144	(478)	ADDRESS	4	SPIJOA	Address of BERT locked JOA
1148	(47C)	ADDRESS	4	SPIMTRB	Address of current MTRB
1152	(480)	DBL WORD	8	(0)	Align on a double word
1152	(480)	BITSTRING	32	SPILSTPR	Perf data when MTRB select
1184	(4A0)	BITSTRING	32	SPICURPR	Perf data when MTRB return
1216	(4C0)	DBL WORD	8	SPIGETCP	CPU time for $#GET
1224	(4C8)	CHARACTER	17	SPIDEVN	Current SAPI device name
1241	(4D9)	BITSTRING	1	SPIRLFLG	Flags set in ROTESFL1
1242	(4DA)	BITSTRING	2		Reserved
1244	(4DC)	SIGNED	4	SPIIOCNT	I/O count field
1248	(4E0)	DBL WORD	8	SPIRQUET	$RQUE queue time
1256	(4E8)	DBL WORD	8	(0)	Multiple Double words long
1256	(4E8)	X'3A0'	0	SPIWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 520. Cross Reference for $SPIWORK

Name	Offset	Hex Tag
PCE	0	
SPI#PDDB	230	
SPIACHKY	460	
SPIAJOBI	458	
SPIAJOBN	450	
SPIANCHR	414	
SPICURPR	4A0	
SPIDEQL	408	400
SPIDEQPL	400	400
SPIDEQST	400	
SPIDEVID	250	
SPIDEVN	4C8	
SPIENQL	3FC	3F0
SPIENQPL	3F0	3F4
SPIENQST	3F0	
SPIFLAGJ	235	

Table 520. Cross Reference for $SPIWORK (continued)

Name	Offset	Hex Tag
SPIFLAGS	236	
SPIFLAG1	234	
SPIFLAG2	239	
SPIFLAG3	238	
SPIFLGJ2	253	
SPIGETCP	4C0	
SPIIOCNT	4DC	
SPIIOT	40C	
SPIIOTF	468	
SPIJBKEY	410	
SPIJOA	478	
SPILSTPR	480	
SPIMCLAS	237	
SPIMTRB	47C	
SPIOCRTM	260	
SPIOJOE	25C	
SPIPDDB#	232	
SPIPDDBF	46C	
SPIPGCT	258	
SPIPRTBL	41A	
SPIRECCT	254	
SPIRGRPM	264	
SPIRLFLG	4D9	
SPIRQUET	4E0	
SPISDISC	236	80
SPISDUPJ	236	40
SPISJLOK	236	10
SPISJOE	236	20
SPITHRED	470	
SPITYPE	44C	
SPIWKJOA	324	
SPIWKOFF	22C	
SPIWKSIZ	4E8	3A0
SPIWRASI	248	
SPIWRNUM	244	
SPIWS	148	
SPIXECB	3D8	

$SPMWORK information

$SPMWORK programming interface information

$SPMWORK is a programming interface.

$SPMWORK heading information

Common name: JES2 Spool Manager Work Area

Macro ID: $SPMWORK

DSECT name: PCE ($SPMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SPMLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $SPOLPCE field of the $HCT data area points to the spool manager PCE.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 spool manager PCE. $SPMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$SPMWORK mapping

Table 521. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL MANAGER PROCESSOR
328	(148)	BITSTRING	1	SPMXECB	XECB TO POST SPOOL MANAGER PCE
	SMMOVER - MOVE ROUTINE WORK AREA				
352	(160)	ADDRESS	4	SPMJCTBF	POINTER TO JCT BUFFER
356	(164)	ADDRESS	4	SPMALLOC	POINTER TO ALLOCATION IOT BUFFER
360	(168)	ADDRESS	4	SPMIOTBF	POINTER TO SECONDARY IOT BUFFER
364	(16C)	ADDRESS	4	SPMCURBF	POINTER TO CURRENT I/O BUFFER
368	(170)	ADDRESS	4	SPMNXTBF	POINTER TO SECONDARY I/O BUFFER
372	(174)	BITSTRING	6	SPMWRTRK	Track address (MQTR) for next buffer write.
378	(17A)	BITSTRING	6	SPMRDTRK	Track address (MQTR) for next buffer read
384	(180)	BITSTRING	6	SPMIOTRG	Track address (MQTR) of first regular IOT
390	(186)	BITSTRING	6	SPMIOTSP	Track address (MQTR) of spin IOT chain
396	(18C)	BITSTRING	6	SPMOCTTK	Track address (MQTR) of OCT chain
402	(192)	CHARACTER	8	SPMTOKEN	PIN token for $GETUCBS
412	(19C)	SIGNED	4	(0)	Ensure fullword <-- alignment in case SPMSG | is used for WTOR |
412	(19C)	BITSTRING	120	SPMSG	Message work area <--
532	(214)	BITSTRING	1	SPMREPLY	Reply area
533	(215)	BITSTRING	1	SPMFLAG1	Spool Manager flag byte
534	(216)	BITSTRING	2		Reserved

Table 521. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
$BLDMSG MF=L Used for $BLDMSG					
536	(218)	SIGNED	4	SPMBLDM(0)	Control block ID
540	(21C)	BITSTRING	4		Console ID
544	(220)	ADDRESS	4		Address of the CART
548	(224)	ADDRESS	4		Pointer for JOBID
552	(228)	ADDRESS	4		Control block address
556	(22C)	ADDRESS	4		Display routine address
560	(230)	ADDRESS	4	(6)	6 word work area
584	(248)	ADDRESS	4		Caller's R11 value
588	(24C)	BITSTRING	2		ROUT code for Message
590	(24E)	BITSTRING	2		Not used
592	(250)	CHARACTER	4		Message ID
596	(254)	CHARACTER	1		Separator character
597	(255)	ADDRESS	1		Flag byte 1
598	(256)	ADDRESS	1		'DISPER'
599	(257)	ADDRESS	1		Flag byte 2
600	(258)	ADDRESS	1		Flag byte 3
601	(259)	ADDRESS	1		Severity of message
602	(25A)	CHARACTER	8		Symbolic name of dest.
610	(262)	BITSTRING	14		Not used
624	(270)	ADDRESS	4	(0)	Ensure multiple of 4
624	(270)	ADDRESS	2	(0)	
624	(270)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
624	(270)	BITSTRING	13	SPMDASWK	DAS indicators save area
637	(27D)	BITSTRING	3		Reserved
640	(280)	DBL WORD	8	SPMGSTRT(2)	STCKE SMCMGNEW last entered
640	(280)	X'148'	0	SPMLNGTH	"*-PCEWORK" SPMWORK LENGTH
SPMFLAG1 FIRST FLAG BYTE DEFINITIONS					
		1...		SPM1ERR	"B'10000000'" ERROR ENCOUNTERED DURING JOB MOVE
		.1..		SPM1TGA	"B'01000000'" AT LEAST ONE TG ALLOC FOR MOVE
		..1.		SPM1STUN	"B'00100000'" DADSTUNT called

Table 522. Cross Reference for $SPMWORK

Name	Offset	Hex Tag
PCE	0	
SPMALLOC	164	
SPMBLDM	218	C2D3C440
SPMCURBF	16C	
SPMDASWK	270	
SPMFLAG1	215	
SPMGSTRT	280	
SPMIOTBF	168	

Table 522. Cross Reference for $SPMWORK (continued)

Name	Offset	Hex Tag
SPMIOTRG	180	0
SPMIOTSP	186	0
SPMJCTBF	160	
SPMLNGTH	280	148
SPMNXTBF	170	
SPMOCTTK	18C	0
SPMRDTRK	17A	0
SPMREPLY	214	0
SPMSG	19C	0
SPMTOKEN	192	40404040
SPMWRTRK	174	0
SPMXECB	148	0
SPM1ERR	280	80
SPM1STUN	280	20
SPM1TGA	280	40

$SPNWORK information

$SPNWORK programming interface information

$SPNWORK is a programming interface.

$SPNWORK heading information

Common name: Spin Work Area

Macro ID: $SPNWORK

DSECT name: PCE ($SPNWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SPNWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $SPINPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first spin PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 spin processor. $SPNWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPNWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPNID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$SPNWORK mapping

Table 523. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP Spin Processor
		SPIN processors no longer contain an id number in their PCE work areas (field SPNPCEID has been marked 'reserved'.) Instead, all PCEs now have a sequence number in the base section (field PCESEQ.)			
328	(148)	SIGNED	2		Reserved for future use
		1		SPNPCEOD	"B'00000001'" Odd numbered spin PCE
330	(14A)	BITSTRING	1	SPNFLAG1	Spin flag byte 1
		1...		SPN1DIS	"B'10000000'" PCE is disabled
		.1..		SPN1QSUS	"B'01000000'" PCE needs the queues
		..1.		SPN1JBLK	"B'00100000'" PCE needs the job lock
		...1		SPN1MTHR	"B'00010000'" SPFIFO processing mothers
331	(14B)	BITSTRING	1		Reserved for future use
332	(14C)	SIGNED	4	SPNIOTBF	Address of IOT buffer chain
336	(150)	SIGNED	4	SPNTEMP	Temporary storage
340	(154)	ADDRESS	4	SPNJOAA	Address of buffer containing prototype JOA
344	(158)	SIGNED	4	SPNJOAL	Length of buffer containing prototype JOA
348	(15C)	SIGNED	4	SPNJCTBF	Address of JCT buffer
352	(160)	BITSTRING	4	SPNJBKEY	JCT Job Identifier Key
356	(164)	SIGNED	4	SPNERA	Address of ERA
360	(168)	DBL WORD	8	SPNABTIM	Time of last abend by PCE
368	(170)	ADDRESS	4	SPNTRCE(0)	Spin PCE trace entry
400	(190)	SIGNED	4	SPNIOTTR	Save area for track address of next IOT in spin chain
404	(194)	SIGNED	4	SPNMOMTR	Save area for mom MOC MTTR
408	(198)	SIGNED	4	SPNMOMRC	Save area for mom's record
412	(19C)	SIGNED	4	SPNMOMPG	Save area for mom's page
416	(1A0)	SIGNED	4	SPNMOMBT	Save area for mom's byte
420	(1A4)	BITSTRING	4	SPNONEUN	Single UNSPUN MTTR or zero
424	(1A8)	ADDRESS	4	SPNOFFJQ	Offset of first JQE for which job lock not avail
428	(1AC)	CHARACTER	32	SPNNOTPL	Parm list storage for $HNOTIFY call from DSAL
460	(1CC)	BITSTRING	80	SPNCTKNO	Old CTOKEN work area
540	(21C)	BITSTRING	12		Reserved for future use
552	(228)		1	SPNPWAIT	Time PCE last $WAITed
552	(228)	X'F0'	0	SPNWKSIZ	"*-PCEWORK" Size of Spin PCE work area

Table 524. Cross Reference for $SPNWORK

Name	Offset	Hex Tag
PCE	0	
SPNABTIM	168	
SPNCTKNO	1CC	

Table 524. Cross Reference for $SPNWORK (continued)

Name	Offset	Hex Tag
SPNERA	164	
SPNFLAG1	14A	
SPNIOTBF	14C	
SPNIOTTR	190	
SPNJBKEY	160	
SPNJCTBF	15C	
SPNJOAA	154	
SPNJOAL	158	
SPNMOMBT	1A0	
SPNMOMPG	19C	
SPNMOMRC	198	
SPNMOMTR	194	
SPNNOTPL	1AC	
SPNOFFJQ	1A8	
SPNONEUN	1A4	
SPNPCEOD	148	1
SPNPWAIT	228	
SPNTEMP	150	
SPNTRCE	170	
SPNWKSIZ	228	F0
SPN1DIS	14A	80
SPN1JBLK	14A	20
SPN1MTHR	14A	10
SPN1QSUS	14A	40

$SPOOLCB information

$SPOOLCB programming interface information

$SPOOLCB is a programming interface.

$SPOOLCB heading information

Common name: SPOOL information data CB

Macro ID: $SPOOLCB

DSECT name: SPCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: SPCB
Offset: SPCBID-SPCB
Length: L'SPCID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See SPCBLEN

Created by: HASPIRMA

Pointed to by: $SPOOLCB field of the $HCT data area

Serialization: None required

Function: Maps the constants for SPOOL processing (Set by JES2 initialization statements).

$SPOOLCB mapping

Table 525. Structure SPCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPCB	, SPOOL information control block
0	(0)	CHARACTER	4	SPCBID	Eyecatcher
4	(4)	CHARACTER	44	SPCBDSN	SPOOL data set name
48	(30)	CHARACTER	44	SPCBDSMS	SPOOL data set name mask
92	(5C)	BITSTRING	1	SPCFLAGD	Local testing flag
		1...		SPCDABS	"B'10000000'" Use absolute addressing
		.1..		SPCDHIGM	"B'01000000'" Use high M values
93	(5D)	BITSTRING	3		Reserved
96	(60)	SIGNED	4	SPCCOOLT	Spool Migr cool down timer
100	(64)	SIGNED	4	SPCHEART	Spool Migr heartbeat timer
104	(68)	SIGNED	4	SPCKPTLV	Last SPOOLDEF change level
108	(6C)	SIGNED	2	SPCTGSIZ	Prior (old) TG size value
110	(6E)	BITSTRING	2		Reserved
112	(70)	CHARACTER	44	SPCBODSM	Prior (old) SPOOL DS mask
160	(A0)	DBL WORD	8	(0)	Align length
160	(A0)	X'A0'	0	SPCBLEN	"*-SPCB" Length of data area

Table 526. Cross Reference for $SPOOLCB

Name	Offset	Hex Tag
SPCB	0	
SPCBDSMS	30	
SPCBDSN	4	
SPCBID	0	
SPCBLEN	A0	A0
SPCBODSM	70	
SPCCOOLT	60	
SPCDABS	5C	80
SPCDHIGM	5C	40
SPCFLAGD	5C	
SPCHEART	64	
SPCKPTLV	68	
SPCTGSIZ	6C	

$SQD information

$SQD programming interface information

$SQD is a programming interface.

$SQD heading information

Common name: Subtask queue descriptor

Macro ID: $SQD

DSECT name: SQD

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SQD'
Offset: SQDID-SQD
Length: 4

Storage attributes: Subpool: Any
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in JES2 private storage.

Size: See SQDLEN

Created by: Caller of $SUBIT

Pointed to by: The SQD is a parameter of the $SUBIT macro.
The SBWQUEx fields in the SBW data area ($STWORK macro) points to the chain of pending subtask work requests.
The DSUBSQD field in the DTE data area points to the SQD currently being processed.
The WAVESQD field in the WAVE data area points to the SQD associated with that WAVE.

Serialization: The SQDs are added to the work queues (STWQUEx) using the $QUEUE macro. See that macro for serialization of queued elements.

Function: The subtask queue descriptor contains information to be queued to one of the subtask work queues for a general purpose subtask. It includes the address of the routine to be subtasked and its parameter list.

$SQD mapping

Table 527. Structure SQD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SQD	
0	(0)	CHARACTER	4	SQDID	Control block ID
4	(4)	ADDRESS	1	SQDLEVEL	Control block version
		1		SQDVERSN	"X'01'" Control block version EQU
5	(5)	BITSTRING	3		RESERVED
8	(8)	BITSTRING	24	SQDXECB	XECB POSTed when work completed
32	(20)	ADDRESS	4	SQDRTNA	Addr of rtn to be subtasked
40	(28)	DBL WORD	8	SQDP0_64(0)	64 bit parm 0
40	(28)	ADDRESS	4	SQDPAR0H	Parm list R0...bits 0..31
44	(2C)	ADDRESS	4	SQDPARM0	Parm list R0...bits 32..63
48	(30)	DBL WORD	8	SQDP1_64(0)	64 bit parm 1
48	(30)	ADDRESS	4	SQDPAR1H	Parm list R1...bits 0..31
52	(34)	ADDRESS	4	SQDPARM1	Parm list R1...bits 32..63
56	(38)	SIGNED	4	SQDPAR0A	Parm access register 0
60	(3C)	SIGNED	4	SQDPAR1A	Parm access register 1
64	(40)	DBL WORD	8	SQDRC_64(0)	64 bit returned R15
64	(40)	SIGNED	4	SQDRTNH	Routine return R15...0..31
68	(44)	SIGNED	4	SQDRRTN	Routine return code (R15)
72	(48)	DBL WORD	8	SQDR0_64(0)	64 bit routine return R0
72	(48)	SIGNED	4	SQDRR0H	Routine return R0... 0..31
76	(4C)	SIGNED	4	SQDRR0	Routine return R0...32..63
80	(50)	DBL WORD	8	SQDR1_64(0)	64 bit routine return R1
80	(50)	SIGNED	4	SQDRR1H	Routine return R1... 0..31
84	(54)	SIGNED	4	SQDRR1	Routine return R1...32..63

Table 527. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	SIGNED	4	SQDRR0A	Routine return AR0
92	(5C)	SIGNED	4	SQDRR1A	Routine return AR1
96	(60)	SIGNED	4	SQDRETCD	Subtask return code
100	(64)	BITSTRING	1	SQDFLAG1	Flag byte 1
		1...		SQD1UNCN	"B'10000000'" Unconditional routine call
		.1..		SQD1HCT	"B'01000000'" HCT in R11
		..1.		SQD1HCCT	"B'00100000'" HCCT in R11
		...1		SQD1NOST	"B'00010000'" Routine called w/o subtask
		.... 1...		SQD1WAIT	"B'00001000'" WAIT=YES was specified
		.... .1..		SQD1FREE	"B'00000100'" FREESQD=YES specified
		.... ..1.		SQD1ECB@	"B'00000010'" SQDXECB points to ECB (user environment only)
		1		SQD1ACT	"B'00000001'" SQD is active in subtask
101	(65)	BITSTRING	1	SQDFLAG2	Flag byte 2
		1...		SQD2P0HI	"B'10000000'" Hi order half (bits 0..31) of R0 was saved in SQDPAR0H and should be passed to the routine.
		.1..		SQD2P1HI	"B'01000000'" Hi order half (bits 0..31) of R1 was saved in SQDPAR1H and should be passed to the routine.
		..1.		SQD2TRAC	"B'00100000'" PCE trace is active
102	(66)	BITSTRING	1	SQDPRIO	Priority of request (1 is high, 2 is regular, 3 is low)
103	(67)	BITSTRING	2		Reserved for future use
108	(6C)	ADDRESS	4	SQDNSST	NSST address (USER environ)
112	(70)	ADDRESS	4		Reserved
	Various times, valid when request complete. All times in micro seconds.				
120	(78)		1	SQDQTIME	Time spent queued
136	(88)		1	SQDRTIME	Wall clock run time
152	(98)	DBL WORD	8	SQDCTIME	CPU time for request
	MACDATE = 04/03/89				
120	(78)	SIGNED	4	SQDTCBTK(0)	
120	(78)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
120	(78)	BITSTRING	8		
128	(80)	SIGNED	4		
132	(84)	ADDRESS	4		
136	(88)	ADDRESS	4		ASCB ADDRESS (INPUT)
140	(8C)	SIGNED	4	(0)	FLAGS (INPUT)
140	(8C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
141	(8D)	SIGNED	3		RESERVED
160	(A0)	ADDRESS	4	SQDGPQ	Address of GPQE, if any
	Subtask VRA and recovery information.				

Table 527. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	ADDRESS	4	SQDCLRA	$SUBIT caller address
168	(A8)	CHARACTER	8	SQDRNAME	Routine name
176	(B0)	CHARACTER	8	SQDJOBID	JOBID associated with req.
184	(B8)	CHARACTER	8	SQDJOBNM	JOBNAME associated with req
192	(C0)	BITSTRING	3	SQDDEVID	Device id assoc with req
195	(C3)	BITSTRING	1		Reserved
196	(C4)	ADDRESS	4	SQDJQE	PCEJQE value at $SUBIT
200	(C8)	SIGNED	2	SQDASID	Related ASID
202	(CA)	BITSTRING	2		Reserved
		The following routines get called as part of recovery processing to perform routine specific operations. Registers on entry are:			
204	(CC)	ADDRESS	4	SQDVRXAD	Routine VRA exit addr
208	(D0)	ADDRESS	4	SQDESXAD	Routine clean up exit addr
212	(D4)	ADDRESS	4	SQDRTXAD	Routine retry exit addr
216	(D8)	BITSTRING	4		Reserved
224	(E0)	DBL WORD	8	SQDEND(0)	End SQD on a double word
224	(E0)	X'E0'	0	SQDLEN	"SQDEND-SQD" Length of SQD

Table 528. Cross Reference for $SQD

Name	Offset	Hex Tag
SQD	0	
SQDASID	C8	
SQDCLRA	A4	
SQDCTIME	98	
SQDDEVID	C0	
SQDEND	E0	
SQDESXAD	D0	
SQDFLAG1	64	
SQDFLAG2	65	
SQDGPQ	A0	
SQDID	0	E2D8C440
SQDJOBID	B0	
SQDJOBNM	B8	
SQDJQE	C4	
SQDLEN	E0	E0
SQDLEVEL	4	
SQDNSST	6C	
SQDPARM0	2C	
SQDPARM1	34	
SQDPAR0A	38	
SQDPAR0H	28	
SQDPAR1A	3C	
SQDPAR1H	30	
SQDPRIO	66	

Table 528. Cross Reference for $SQD (continued)

Name	Offset	Hex Tag
SQDP0_64	28	
SQDP1_64	30	
SQDQTIME	78	
SQDRC_64	40	
SQDRETCD	60	
SQDRNAME	A8	
SQDRRTN	44	
SQDRR0	4C	
SQDRR0A	58	
SQDRR0H	48	
SQDRR1	54	
SQDRR1A	5C	
SQDRR1H	50	
SQDRTIME	88	
SQDRTNA	20	
SQDRTNH	40	
SQDRTXAD	D4	
SQDR0_64	48	
SQDR1_64	50	
SQDTCBTK	78	
SQDVERSN	4	1
SQDVRXAD	CC	
SQDXECB	8	
SQD1ACT	64	1
SQD1ECB@	64	2
SQD1FREE	64	4
SQD1HCCT	64	20
SQD1HCT	64	40
SQD1NOST	64	10
SQD1UNCN	64	80
SQD1WAIT	64	8
SQD2P0HI	65	80
SQD2P1HI	65	40
SQD2TRAC	65	20

$SRW information

$SRW programming interface information

$SRW is a programming interface.

$SRW heading information

Common name: JES2 SYSOUT Receiver Work Area

Macro ID: $SRW

DSECT name: SRW

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: See $PCE (JES2 address space)
0 (NETSRV address space)
Key: See $PCE (JES2 address space)
0 (NETSRV address space)
Residency: See $PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See SRWLEN

Created by: See $PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTSRWA field of the $NSST data area
X047AREA field of the $XPL data area
X057AREA field of the $XPL data area
Imbedded in the PCE in the JES2 address space.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 SYSOUT Receiver Processor and by its support routines and exits. $SRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$SRW mapping

Table 529. Structure SRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SRW	, SRW mapped as $NJEWORK
0	(0)	CHARACTER	4	SRWEYE	Eyecatcher
4	(4)	CHARACTER	10	SRWDEVN	Device name
14	(E)	BITSTRING	1	SRWDEVTP	Device type
15	(F)	BITSTRING	3	SRWDEVID	Device id
18	(12)	BITSTRING	2	SRWCRSV1	Reserved
20	(14)	ADDRESS	4	SRWWAVE	WAVE address
24	(18)	ADDRESS	4	SRWSQD	SQD address
28	(1C)	ADDRESS	4	SRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	SRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	SRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	SRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	SRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	SRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	SRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	SRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	SRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	SRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	SRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	SRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	SRWJQA	Address of JQA
72	(48)	X'48'	0	SRWJQE	"SRWJQA" Address of JQE

Table 529. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	SRWJCT	Address of JCT
80	(50)	ADDRESS	4	SRWIOT	Address of IOT
80	(50)	X'50'	0	SRWIOTBF	"SRWIOT" Address of IOT
84	(54)	ADDRESS	4	SRWNJH	Network job header address
88	(58)	ADDRESS	4	SRWNJT	Network job trailer address
92	(5C)	SIGNED	4	SRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	SRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	SRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	SRWNERRC	Error code
108	(6C)	X'1'	0	SRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	SRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	SRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	SRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	SRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	SRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	SRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	SRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	SRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	SRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	SRWNESJF	"11" SJF error
108	(6C)	X'C'	0	SRWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	SRWCRSV2	Reserved
120	(78)	DBL WORD	8	SRWDBL	Doubleword work area
128	(80)	DBL WORD	8	SRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	SRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	SRWWRK16	"SRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	SRWWRK24	"SRWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	SRWNDH	Network dataset header address
148	(94)	SIGNED	8	SRWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	SRWJBKEY	JOB KEY
152	(98)	SIGNED	4	SRWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	SRWPDDB	PDDB address
160	(A0)	SIGNED	4	SRWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	SRWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	SRWCLEAR	"SRWCLRST,*-SRWCLRST,C'X'" Area to clear
		NJE RECORD TYPE FLAGS			
168	(A8)	BITSTRING	1	SRW$EXP	'EXPECTED' TYPES (FLAGS)
169	(A9)	BITSTRING	1	SRW$LST	'LAST RECEIVED' TYPE (FLAG)
		1...		SRW$JH	"B'10000000'" JOB HEADER
		.1..		SRW$JT	"B'01000000'" JOB TRAILER
		..1.		SRW$DSH	"B'00100000'" DATA SET HEADER

Table 529. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SRW$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		SRW$DATA	"B'00001000'" DATA RECORD
		.... .1..		SRW$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		SRW$JES2	"B'00000010'" JES2 SECTION RECEIVED
		1		SRW$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
170	(AA)	BITSTRING	1	SRWFLAG2	CONTROL FLAGS
		1...		SRW$BLNK	"B'10000000'" DON'T TRUNC BLANKS
		.1..		SRW$PAGE	"B'01000000'" RECEIVED DS IS PAGE RECORD
		.1..		SRW2NBUF	"B'01000000'" NEW SCR BUFFER NEEDED
		..1.		SRW2MDES	"B'00100000'" JOB HAS MULTIPLE DESTS
		...1		SRW2UNSP	"B'00010000'" UNSPUN IOT'S EXIST
		.... 1...		SRW2STKN	"B'00001000'" Submitter job token found
		.... .1..		SRW2TSCR	"B'00000100'" Token SCR in buffer
		.... ..1.		SRW2TREC	"B'00000010'" Token recv for current DS
		1		SRW2GGIN	"B'00000001'" Grouping strings object is initialized
172	(AC)	ADDRESS	4	SRWDSBUF	Current data buffer address
176	(B0)	SIGNED	4	SRWJBNUM	Work area for job number
180	(B4)	SIGNED	4	SRWTTR	MOST RECENTLY ACQUIRED TTR
184	(B8)	SIGNED	4	SRWMDKEY	DATASET KEY FOR MULTIDEST PDDB
188	(BC)	SIGNED	2	SRWSYSKY	PREVIOUSLY RECEIVED SYSTEM KEY
192	(C0)	SIGNED	4	SRWMXKEY	DATA SET KEYS OVER 32,767
196	(C4)	SIGNED	4	SRWLASKY	LAST DATA SET KEY PROCESSED
200	(C8)	BITSTRING	1	SRWERROR	ERROR FLAGS (AND OTHER SRW FLAGS)
		1...		SRW$CAN	"B'10000000'" CANCEL JOB (TELL XMITTER)
		.1..		SRW$SKIP	"B'01000000'" CANCEL JOB (DON'T TELL XMITTER)
		..1.		SRW$DSU	"B'00100000'" THIS NODE IS ULTIMATE DEST FOR THIS DATA SET
		...1		SRW$DPRG	"B'00010000'" One or more data sets in job not received
		.... 1...		SRW$DIST	"B'00001000'" Severe error in selection
		.... .1..		SRW$NOJB	"B'00000100'" No data received thru EOF
		.... ..1.		SRW$HOPX	"B'00000010'" Job's hop count exceeded
201	(C9)	BITSTRING	1	SRW$RCV	'RECEIVED' TYPE (FLAG)
202	(CA)	SIGNED	2	SRWMDINS	Multi-dest instance count
204	(CC)	ADDRESS	4	(2)	Reserved for future use
212	(D4)	BITSTRING	1	SRWFLAG1	CONTROL FLAGS
		1...		SRW$ULT	"B'10000000'" THIS NODE IS ULTIMATE DEST OF AT LEAST ONE DATA SET
		.1..		SRW$TCEL	"B'01000000'" RECEIVED DS IS TRACK-CELLED

Table 529. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SRW$DS	"B'00100000'" DATA RECORD HAS BEEN RECEIVED
		...1		SRW$JTRC	"B'00010000'" JOB TRAILER HAS BEEN RECEIVED
		.... 1...		SRW$DRN	"B'00001000'" DRAIN SPOF RECEIVER AFTER JOB
		.... .1..		SRW$SIGN	"B'00000100'" $GETSMFB and sign-on msg issued, at least one DSH received for this job
		.... ..1.		SRW$DRFD	"B'00000010'" Data record received since last header processed
		1		SRW$SKDR	"B'00000001'" On - at least one DSH accepted in this hdr sequence Off - skipping data records
213	(D5)	BITSTRING	1	SRWFLAG3	GENERAL USE FLAG BYTE
		1...		SRW3BFER	"B'10000000'" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		.1..		SRW3JDVT	"B'01000000'" Job's JDVT name is set
		..1.		SRW3OAFF	"B'00100000'" Affinity section of header processed
		...1		SRW3LTOK	"B'00010000'" Get local token
		.... 1...		SRW3BLKP	"B'00001000'" Blank padding for mid seg
214	(D6)	ADDRESS	1	SRWLINCT	MAXIMUM LINES PER PAGE
214	(D6)	X'D7'	0	SRWCINIL	"*-SRW" LENGTH FOR INITIAL CLEAR
		PDDB work area below has a standard JES2 prefix (see $CSBPRFX in $HASPEQU). SRWTPDDB points to a start of PDDB in a work area.			
216	(D8)	ADDRESS	4	SRWTPDDB	Work area for PDDB
220	(DC)	SIGNED	4	SRWTPDBM	Max size of PDDB which will fit in SRWTPDDB
224	(E0)	CHARACTER	72	SRWWRKA	WORK AREA FOR $WTO
224	(E0)	BITSTRING	3		SCR header length
227	(E3)	BITSTRING	81		Token length
308	(134)	SIGNED	4	(0)	Align
		Fields SRWNSWB through SRWSSBTL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.			
308	(134)	SIGNED	2	SRWNSWB	Number of SWBTU's for PDDB
310	(136)	SIGNED	2	SRWSWBL	Total size of SWBTU's for PDDB
312	(138)	SIGNED	4	SRWSEGID	Segment ID from PDDB
316	(13C)	ADDRESS	4	SRWSWBTU	Address of SWBTU in data set header
320	(140)	ADDRESS	4	SRWHSWBF	SWBIT buffer chain
324	(144)	ADDRESS	4	SRWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
328	(148)	ADDRESS	4	SRWIPSWB	Addr of IPADDR work area
332	(14C)	SIGNED	2	SRWIPSWL	Length of IPADDR work area
334	(14E)	SIGNED	2		Reserved
336	(150)	SIGNED	4	(0)	Alignment
336	(150)	CHARACTER	8	SRWSSBTL	Default SWBTU pointer list used when only one SWBTU exists

Table 529. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
344	(158)	BITSTRING	1	SRWTUXP	TU extract parameters
		The following fields point to the various tokens associated with a job/data set being received.			
364	(16C)	ADDRESS	4	SRWJTKNA	Job header token address
368	(170)	ADDRESS	4	SRWIJTKN	Internal format Job token
372	(174)	ADDRESS	4	SRWTKNA	External format token which was last processed
376	(178)	ADDRESS	4	SRWITKN	Internal version of SRWTKNA
380	(17C)	ADDRESS	4	SRWIVTKB	Token returned by VERIFYX using SRWTKNA (output destined local)
384	(180)	ADDRESS	4	SRWISFTK	Store and forward token for current job
388	(184)	ADDRESS	4	SRWTWA	Token work area address
392	(188)	BITSTRING	1	SRWFLAGT	Token flags
		1...		SRWTVXPS	"B'10000000'" VERIFYX RC for SRWIVTKN On-> RC=0/4 off-> RC=8
		.1..		SRWTSFPS	"B'01000000'" VERIFYX RC for SRWISFTK On-> RC=0/4 off-> RC=8
393	(189)	BITSTRING	3		Reserved for future use
396	(18C)	ADDRESS	4	SRWB32KH	Addr of temp NJH 32K cell
400	(190)	CHARACTER	1	SRWSAFI	$SAFINFO parameter list
400	(190)	X'2F8'	0	SRWLEN	"*-SRW"
		The following fields exist only in the SRW in the NETSRV address space			
760	(2F8)	ADDRESS	4	SRWACB	ACB address
764	(2FC)	ADDRESS	4	SRWRPL	RPL address
768	(300)	ADDRESS	4	SRWSJB	SJB address
772	(304)	ADDRESS	4	SRWSDB	SDB address
776	(308)	ADDRESS	4	SRWIPDDB	First PDDB for this DS
780	(30C)	ADDRESS	4	SRWIIOT	First IOT for this DS
784	(310)	ADDRESS	4	SRWCUIOT	IOT for current PDDB
788	(314)	BITSTRING	1	SRWNFLG1	Progress flags
		1...		SRWN1JHI	"B'10000000'" Job header in progress
		.1..		SRWN1JHC	"B'01000000'" Job header complete
		..1.		SRWN1DHI	"B'00100000'" DS header in progress
		...1		SRWN1DHC	"B'00010000'" DS header complete
		.... 1...		SRWN1JTI	"B'00001000'" Job trailer in progress
		.... .1..		SRWN1JTC	"B'00000100'" Job trailer complete
		.... ..1.		SRWN1PTI	"B'00000010'" PUT of data in progress
		1		SRWN1ERR	"B'00000001'" Error detected
789	(315)	BITSTRING	1	SRWNFLG2	Progress flags
		1...		SRWN2CLI	"B'10000000'" Fake CLOSE (null PUT) in progress
		.1..		SRWN2EOT	"B'01000000'" EOT received
		..1.		SRWN2EOC	"B'00100000'" EOT processing complete
790	(316)	BITSTRING	2		Reserved
792	(318)	ADDRESS	8	SRWRJQE	Real JQE address in live

Table 529. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
800	(320)	SIGNED	4	SRWRJQEA	version and ALET
804	(324)	SIGNED	4	(5)	Reserved
824	(338)	DBL WORD	8	(0)	Align
824	(338)	X'338'	0	SRWCLEN	"*-SRW" Length of SRW in NETSRV address space

Table 530. Cross Reference for $SRW

Name	Offset	Hex Tag
SRW	0	
SRW$BLNK	AA	80
SRW$CAN	C8	80
SRW$DATA	A9	8
SRW$DIST	C8	8
SRW$DPRG	C8	10
SRW$DRFD	D4	2
SRW$DRN	D4	8
SRW$DS	D4	20
SRW$DSH	A9	20
SRW$DST	A9	10
SRW$DSU	C8	20
SRW$EOF	A9	4
SRW$EXP	A8	
SRW$HOPX	C8	2
SRW$JES2	A9	2
SRW$JH	A9	80
SRW$JT	A9	40
SRW$JTRC	D4	10
SRW$LST	A9	
SRW$NOJB	C8	4
SRW$PAGE	AA	40
SRW$RCV	C9	
SRW$SIGN	D4	4
SRW$SKDR	D4	1
SRW$SKIP	C8	40
SRW$SPOF	A9	1
SRW$TCEL	D4	40
SRW$ULT	D4	80
SRWACB	2F8	
SRWAREA	20	
SRWB32KH	18C	
SRWCINIL	D6	D7
SRWCLEAR	A8	48
SRWCLEN	338	338
SRWCLRST	48	
SRWCRSV1	12	
SRWCRSV2	6D	

Table 530. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRWCRSV3	A4	
SRWCUIOT	310	
SRWCUREC	60	
SRWDBL	78	
SRWDBLE	80	
SRWDBLE1	88	
SRWDEVID	F	
SRWDEVN	4	
SRWDEVTP	E	
SRWDSBUF	AC	
SRWDSKEY	98	
SRWECBCC	30	
SRWERROR	C8	
SRWEYE	0	E2D9E640
SRWFLAGT	188	
SRWFLAG1	D4	
SRWFLAG2	AA	
SRWFLAG3	D5	
SRWHDRCT	A0	
SRWHSWBF	140	
SRWIIOT	30C	
SRWIJTKN	170	
SRWIOT	50	
SRWIOTBF	50	50
SRWIPDDB	308	
SRWIPSWB	148	
SRWIPSWL	14C	
SRWISFTK	180	
SRWITKN	178	
SRWIVTKB	17C	
SRWJBKEY	94	
SRWJBNUM	B0	
SRWJCT	4C	
SRWJOBID	64	
SRWJQA	48	
SRWJQE	48	48
SRWJTKNA	16C	
SRWKEY	94	
SRWLASKY	C4	
SRWLEN	190	2F8
SRWLINCT	D6	
SRWMDINS	CA	
SRWMDKEY	B8	
SRWMXKEY	C0	
SRWNDH	90	
SRWNECBI	6C	7

Table 530. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRWNECLO	6C	5
SRWNEGG	6C	A
SRWNEIOE	6C	6
SRWNEJOB	6C	1
SRWNEJOE	6C	2
SRWNENJH	6C	8
SRWNEOPE	6C	4
SRWNERRC	6C	
SRWNESAF	6C	C
SRWNESEQ	6C	9
SRWNESJF	6C	B
SRWNESUB	6C	3
SRWNFLG1	314	
SRWNFLG2	315	
SRWNITAD	34	
SRWNITAL	38	
SRWNITBL	3C	
SRWNJH	54	
SRWNJT	58	
SRWNSST	24	
SRWNSWB	134	
SRWN1DHC	314	10
SRWN1DHI	314	20
SRWN1ERR	314	1
SRWN1JHC	314	40
SRWN1JHI	314	80
SRWN1JTC	314	4
SRWN1JTI	314	8
SRWN1PTI	314	2
SRWN2CLI	315	80
SRWN2EOC	315	20
SRWN2EOT	315	40
SRWPAREA	1C	
SRWPDDB	9C	
SRWRCOUN	5C	
SRWRJQE	318	
SRWRJQEA	320	
SRWRPL	2FC	
SRWSAFI	190	
SRWSDB	304	
SRWSEGID	138	
SRWSJB	300	
SRWSQD	18	
SRWSSBTL	150	
SRWSWBL	136	
SRWSWBTU	13C	

Table 530. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRWSWPTL	144	
SRWSYSKY	BC	
SRWTAREA	2C	
SRWTBUF	28	
SRWTKNA	174	
SRWTPDBM	DC	
SRWTPDDB	D8	
SRWTSFPS	188	40
SRWTTR	B4	
SRWTUXP	158	
SRWTVXPS	188	80
SRWTWA	184	
SRWWAVE	14	
SRWWRKA	E0	
SRWWRK16	88	80
SRWWRK24	88	78
SRWXDATE	44	
SRWXTIME	40	
SRW2GGIN	AA	1
SRW2MDES	AA	20
SRW2NBUF	AA	40
SRW2STKN	AA	8
SRW2TREC	AA	2
SRW2TSCR	AA	4
SRW2UNSP	AA	10
SRW3BFER	D5	80
SRW3BLKP	D5	8
SRW3JDVT	D5	40
SRW3LTOK	D5	10
SRW3OAFF	D5	20

$STAC information

$STAC heading information

Common name: STAC

Macro ID: $STAC

DSECT name: STAC

Owning component: JES2 (SC1BH)

Eye-catcher ID: STAC
Offset: SACEYE
Length: L'SACEYE

Storage attributes: Subpool: n/a
Key: 1
Residency: In the jesxSTAC data space in cpool STAC

Size: See SACLEN

Created by: HASCSISC

Pointed to by: SACNEXT field of the $STAC data area
SACPREV field of the $STAC data area
SJBSTAC field of the $SJB data area
CCTCSHED field of the $HCCT data area
CCTCSTAI field of the $HCCT data area

Serialization: Double Compare and Swap (via PLO)

Function: The STAC is used by STATUS/CANCEL support. It contains all information needed to perform the STATUS or CANCEL SSI function in the JES2 address space.

$STAC mapping

Table 531. Structure STAC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	STAC	
0	(0)	CHARACTER	4	SACEYE	Eye catcher
		Chaining is double threaded. The pointer fields are positive (hi-bit off) if pointing to a STAC element. The pointer fields have the high bit on if pointing to the head. The next and prev pointer words must be this order			
4	(4)	ADDRESS	4	SACNEXT	<----+ Address of next STAC
8	(8)	ADDRESS	4	SACPREV	<----+ Address of previous STAC
12	(C)	ADDRESS	4	SACSJB	Address of SJB (zero means SJB user no longer wants a response)
16	(10)	ADDRESS	4	SACTAREA	Address of work area
20	(14)	CHARACTER	8	SACTJOBN	Job name
28	(1C)	SIGNED	4	SACTJOBI	Job number
32	(20)	SIGNED	2	SACTDIMP	Size of extension
34	(22)	SIGNED	2	SACTDIMR	Size used or required
36	(24)	SIGNED	2	SACTFUNC	Requested function
38	(26)	SIGNED	2	SACTRETB	SSOBRETN return code
40	(28)	SIGNED	2	SACTRETR	R15 return code
42	(2A)	BITSTRING	1	SACTFLGS	Flags from SSOB extension
43	(2B)	SIGNED	1	SACTULEN	User ID length
44	(2C)	BITSTRING	1	SACTFLOW	JES2 in process indicator
45	(2D)	BITSTRING	1	SACFLAG1	Flags (serialized via CS)
		1...		SAC1XPST	"B'10000000'" Action is complete Data in STAC can be used
		..1.		SAC1PCE	"B'00100000'" In process (SACPCE valid)
		...1		SAC1QUED	"B'00010000'" On FIFO queue
46	(2E)	BITSTRING	16	SACTCBT	TCB Token of requestor
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	CHARACTER	80	SACTOKEN	Security token work area
144	(90)	ADDRESS	4	SACPCE	Address of PCE processing the STAC request
		MACDATE = 04/03/89			
148	(94)	SIGNED	4	SACTTOK(0)	
148	(94)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
148	(94)	BITSTRING	8		
156	(9C)	SIGNED	4		

Table 531. Structure STAC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	ADDRESS	4		
164	(A4)	ADDRESS	4		ASCB ADDRESS (INPUT)
168	(A8)	SIGNED	4	(0)	FLAGS (INPUT)
168	(A8)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
169	(A9)	SIGNED	3		RESERVED
169	(A9)	X'AC'	0	SACLEN1	"*-STAC" IPCS STAC length
4096	(1000)	BITSTRING	1	SACFAREA	Maximum caller area
4096	(1000)	X'10FFF'	0	SACLEN	"*-STAC" STAC Length

Table 532. Cross Reference for $STAC

Name	Offset	Hex Tag
SACEYE	0	
SACFAREA	1000	
SACFLAG1	2D	
SACLEN	1000	10FFF
SACLEN1	A9	AC
SACNEXT	4	
SACPCE	90	
SACPREV	8	
SACSJB	C	
SACTAREA	10	
SACTCBT	2E	
SACTDIMP	20	
SACTDIMR	22	
SACTFLGS	2A	
SACTFLOW	2C	
SACTFUNC	24	
SACTJOBI	1C	
SACTJOBN	14	
SACTOKEN	40	
SACTRETB	26	
SACTRETR	28	
SACTTOK	94	
SACTULEN	2B	
SAC1PCE	2D	20
SAC1QUED	2D	10
SAC1XPST	2D	80
STAC	0	

$STCWORK information

$STCWORK programming interface information

$STCWORK is a programming interface.

$STCWORK heading information

Common name:	JES2 Status/Cancel PCE Work Area
Macro ID:	$STCWORK
DSECT name:	PCE ($STCWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SCNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $STACPCE field of the $HCT data area The SACPCE field of the $STAC data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 Status/Cancel Processor. $STCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $STCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESTCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$STCWORK mapping

Table 533. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	JES2 STC processor executive
328	(148)	DBL WORD	8	SCNWORK	Processor work area
336	(150)	BITSTRING	1	SCNFLAG1	STC flags
		1...		SCN1SGL	"B'10000000'" Exit single request
		.1..		SCN1MUL	"B'01000000'" Exit multiple request
		..1.		SCN1EXCL	"B'00100000'" Exit called request
337	(151)	BITSTRING	3		Reserved
340	(154)	CHARACTER	80	SCNTOKEN	Security token work area
420	(1A4)	BITSTRING	24	SCNXPARM	Exit parm list
444	(1BC)	ADDRESS	4	SCNBUFAD	JCT buffer address
448	(1C0)	DBL WORD	8	(0)	Align STC work area
448	(1C0)	X'78'	0	SCNPCEWL	"*-PCEWORK" STC PCE work area length

Table 534. Cross Reference for $STCWORK

Name	Offset	Hex Tag
PCE	0	
SCNBUFAD	1BC	
SCNFLAG1	150	
SCNPCEWL	1C0	78
SCNTOKEN	154	
SCNWORK	148	

Table 534. Cross Reference for $STCWORK (continued)

Name	Offset	Hex Tag
SCNXPARM	1A4	
SCN1EXCL	150	20
SCN1MUL	150	40
SCN1SGL	150	80

$STW information

$STW programming interface information

$STW is a programming interface.

$STW heading information

Common name: JES2 SYSOUT Transmitter Work Area

Macro ID: $STW

DSECT name: STW

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: See $PCE (JES2 address space)
0 (NETSRV address space)
Key: See $PCE (JES2 address space)
0 (NETSRV address space)
Residency: See $PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See STWLEN

Created by: See $PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTSTWA field of the $NSST data area
X046AREA field of the $XPL data area
X056AREA field of the $XPL data area
Imbedded in the PCE in the JES2 address space.
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 SYSOUT Transmitter Processor and by its support routines and exits. $STW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$STW mapping

Table 535. Structure STW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	STW	, STW mapped as $NJEWORK
0	(0)	CHARACTER	4	STWEYE	Eyecatcher
4	(4)	CHARACTER	10	STWDEVN	Device name
14	(E)	BITSTRING	1	STWDEVTP	Device type
15	(F)	BITSTRING	3	STWDEVID	Device id
18	(12)	BITSTRING	2	STWCRSV1	Reserved
20	(14)	ADDRESS	4	STWWAVE	WAVE address
24	(18)	ADDRESS	4	STWSQD	SQD address

Table 535. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	STWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	STWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	STWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	STWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	STWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	STWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	STWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	STWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	STWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	STWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	STWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	STWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	STWJQA	Address of JQA
72	(48)	X'48'	0	STWJQE	"STWJQA" Address of JQE
76	(4C)	ADDRESS	4	STWJCT	Address of JCT
80	(50)	ADDRESS	4	STWIOT	Address of IOT
80	(50)	X'50'	0	STWIOTBF	"STWIOT" Address of IOT
84	(54)	ADDRESS	4	STWNJH	Network job header address
88	(58)	ADDRESS	4	STWNJT	Network job trailer address
92	(5C)	SIGNED	4	STWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	STWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	STWJOBID	Job id of active job
108	(6C)	BITSTRING	1	STWNERRC	Error code
108	(6C)	X'1'	0	STWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	STWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	STWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	STWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	STWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	STWNEIOE	"6" I/O error
108	(6C)	X'7'	0	STWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	STWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	STWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	STWNEGG	"10" Grouping error
108	(6C)	X'B'	0	STWNESJF	"11" SJF error
108	(6C)	X'C'	0	STWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	STWCRSV2	Reserved
120	(78)	DBL WORD	8	STWDBL	Doubleword work area
128	(80)	DBL WORD	8	STWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	STWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	STWWRK16	"STWDBLE,16,C'X'" 16-byte work area

Table 535. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	X'78'	0	STWWRK24	"STWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	STWNDH	Network dataset header address
148	(94)	SIGNED	8	STWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	STWJBKEY	JOB KEY
152	(98)	SIGNED	4	STWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	STWPDDB	PDDB address
160	(A0)	SIGNED	4	STWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	STWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	STWCLEAR	"STWCLRST,*-STWCLRST,C'X'" Area to clear
168	(A8)	X'A8'	0	STWCINIT	"*" Start of area to clear
168	(A8)	SIGNED	4	STWJOEO	Current JOE offset
172	(AC)	SIGNED	4	STWNRECT	JESNEWS line count
176	(B0)	SIGNED	4	STWNPGCT	JESNEWS page count
180	(B4)	ADDRESS	4	STWJOA	JOA address
184	(B8)	SIGNED	4	STWSEGID	Segment ID from PDDB
188	(BC)	ADDRESS	4	STWPDDBP	Previous PDDB
192	(C0)	ADDRESS	4	STWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
196	(C4)	SIGNED	4	STWNETCH	Head of xmitter's JOE chain This is always an offset
200	(C8)	SIGNED	4	STWJOEOF	Offset of JOE
204	(CC)	ADDRESS	4	STWCHARJ	Address of CHAR JOE
208	(D0)	ADDRESS	4	STWENPDB	POINTER PAST END OF PDDB'S IN IOT
212	(D4)	SIGNED	2	STWSWBL	Total size of SWBTUs
214	(D6)	SIGNED	2	STWNSWB	Total number of SWBTUs
216	(D8)	SIGNED	4	STWBKUPP	Backup pointer Joe/PDDB
220	(DC)	SIGNED	2	STWJID2	JOE's output group 2nd id
222	(DE)	BITSTRING	1	STWFDSER	Flags chking for null ds
		1...		STWFNULD	"B'10000000'" Null dataset error
		.1..		STWFOFJQ	"B'01000000'" Job held by offload
		1		STWFRFND	"B'00000001'" Valid data records in DS
223	(DF)	CHARACTER	9		Reserved
232	(E8)	BITSTRING	1	STWFLAG3	GENERAL USE FLAG BYTE
		1...		STW3ES57	"B'10000000'" PRODUCE THE ESS SECTION OF THE SMF TYPE 57 RECORD
		.1..		STW3BFER	"B'01000000'" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		..1.		STW3MERG	"B'00100000'" SWBTU merge is required for this data set
		...1		STW3SWRD	"B'00010000'" 1 - The JOE SWBIT chain is to be read in 0 - The PDDB SWBIT chain is to be read in
		.... 1...		STW3OPER	"B'00001000'" A SWBIT read error occurred
		.... ..1.		STW3ERON	"B'00000010'" The JOE SWBIT chain only contains erase lists

Table 535. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		STW3SMAB	"B'00000001'" Abend in $SWBMERG service
233	(E9)	BITSTRING	1	STWFLAGS	INTERNAL FLAGS FOR TRANSMITTER
		1...		STW$NORM	"B'10000000'" NORMAL DATA SETS TO TRANSMIT
		.1..		STW$SPIN	"B'01000000'" SPIN DATA SETS TO TRANSMIT
		..1.		STW$IDLE	"B'00100000'" 'IDLE' MESSAGE ISSUED
		...1		STW$MULT	"B'00010000'" MULTI-DESTINATION SCAN MODE
		.... 1...		STW$JOBL	"B'00001000'" JESMSGLG data set sent
		.... .1..		STW$AUTH	"B'00000100'" Authorization failure
		.... ..1.		STW$IOT	"B'00000010'" IOT SPOOL I/O ERROR
		1		STW$INV	"B'00000001'" FIRST BLOCK IS INVALID
234	(EA)	BITSTRING	1	STWJQEFL	JQE flag byte
		1...		STWJHOPR	"B'10000000'" Reset NJE hop count when retransmitting job
235	(EB)	BITSTRING	1	STWWJFLG	Work JOE flags
236	(EC)	CHARACTER	8	STWCRUID	Creator userid for Dataset
244	(F4)	CHARACTER	8	STWUSER	User ID
244	(F4)	X'54'	0	STWCINIL	"*-STWCINIT" Length to clear
252	(FC)	ADDRESS	4	STWSTEE	Chain of ENF elements
256	(100)	CHARACTER	260	STWCWORK	Work area
256	(100)	X'204'	0	STWLEN	"*-STW" Size of STW
		The following fields exist only in the STW in the NETSRV address space			
516	(204)	ADDRESS	4	STWACB	ACB address
520	(208)	ADDRESS	4	STWRPL	RPL address
524	(20C)	ADDRESS	4	STWSJB	SJB address
528	(210)	ADDRESS	4	STWSDB	SDB address
532	(214)	ADDRESS	4	STWDSIOT	IOT for dataset to send
536	(218)	ADDRESS	4	STWDSPDB	PDDB for dataset to send
540	(21C)	ADDRESS	4	STWNWIOT	IOT for JESNEWS
544	(220)	ADDRESS	4	STWNWPDB	PDDB for JESNEWS
548	(224)	ADDRESS	4	STWNWTTR	MTTR of JESNEWS IOT
552	(228)	BITSTRING	1	STWNFLG1	Progress flags
		1...		STWN1JHI	"B'10000000'" NJH creation in progress
		.1..		STWN1JHC	"B'01000000'" NJH creation complete
		..1.		STWN1JHS	"B'00100000'" NJH has been sent
		...1		STWN1GTI	"B'00010000'" Get is in progress
		.... 1...		STWN1JTI	"B'00001000'" NJT creation in progress
		.... .1..		STWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		STWN1JTS	"B'00000010'" NJT has been sent
		1		STWN1ERR	"B'00000001'" Error, abort transmission
553	(229)	BITSTRING	1	STWNFLG2	Progress flags

Table 535. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		STWN2DHI	"B'10000000'" NDH creation in progress
		.1..		STWN2DHC	"B'01000000'" NDH creation complete
		..1.		STWN2DHS	"B'00100000'" NDH has been sent
		...1		STWN2OPE	"B'00010000'" Dataset open for XMIT
		.... 1...		STWN2CBI	"B'00001000'" IOT read started
		.... .1..		STWN2CBC	"B'00000100'" IOT read complete
		.... ..1.		STWN2INC	"B'00000010'" Incomplete send
		1		STWN2EOT	"B'00000001'" EOT has been sent
554	(22A)	BITSTRING	1	STWNFLG3	Progress flags
		1...		STWN3NWI	"B'10000000'" JESNEWS in process
		.1..		STWN3NWS	"B'01000000'" JESNEWS sent
		..1.		STWN3WJ2	"B'00100000'" Wait while JES2 down
555	(22B)	BITSTRING	1		Reserved
560	(230)	DBL WORD	8	(0)	
560	(230)	X'230'	0	STWCLEN	"*-STW" Length of STW in NETSRV address space

Table 536. Cross Reference for $STW

Name	Offset	Hex Tag
STW	0	
STW$AUTH	E9	4
STW$IDLE	E9	20
STW$INV	E9	1
STW$IOT	E9	2
STW$JOBL	E9	8
STW$MULT	E9	10
STW$NORM	E9	80
STW$SPIN	E9	40
STWACB	204	
STWAREA	20	
STWBKUPP	D8	
STWCHARJ	CC	
STWCINIL	F4	54
STWCINIT	A8	A8
STWCLEAR	A8	48
STWCLEN	230	230
STWCLRST	48	
STWCRSV1	12	
STWCRSV2	6D	
STWCRSV3	A4	
STWCRUID	EC	
STWCUREC	60	
STWCWORK	100	
STWDBL	78	
STWDBLE	80	

Table 536. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWDBLE1	88	
STWDEVID	F	
STWDEVN	4	
STWDEVTP	E	
STWDSIOT	214	
STWDSKEY	98	
STWDSPDB	218	
STWECBCC	30	
STWENPDB	D0	
STWEYE	0	E2E3E640
STWFDSER	DE	
STWFLAGS	E9	
STWFLAG3	E8	
STWFNULD	DE	80
STWFOFJQ	DE	40
STWFRFND	DE	1
STWHDRCT	A0	
STWIOT	50	
STWIOTBF	50	50
STWJBKEY	94	
STWJCT	4C	
STWJHOPR	EA	80
STWJID2	DC	
STWJOA	B4	
STWJOBID	64	
STWJOEO	A8	
STWJOEOF	C8	
STWJQA	48	
STWJQE	48	48
STWJQEFL	EA	
STWKEY	94	
STWLEN	100	204
STWNDH	90	
STWNECBI	6C	7
STWNECLO	6C	5
STWNEGG	6C	A
STWNEIOE	6C	6
STWNEJOB	6C	1
STWNEJOE	6C	2
STWNENJH	6C	8
STWNEOPE	6C	4
STWNERRC	6C	
STWNESAF	6C	C
STWNESEQ	6C	9
STWNESJF	6C	B
STWNESUB	6C	3

Table 536. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWNETCH	C4	
STWNFLG1	228	
STWNFLG2	229	
STWNFLG3	22A	
STWNITAD	34	
STWNITAL	38	
STWNITBL	3C	
STWNJH	54	
STWNJT	58	
STWNPGCT	B0	
STWNRECT	AC	
STWNSST	24	
STWNSWB	D6	
STWNWIOT	21C	
STWNWPDB	220	
STWNWTTR	224	
STWN1ERR	228	1
STWN1GTI	228	10
STWN1JHC	228	40
STWN1JHI	228	80
STWN1JHS	228	20
STWN1JTC	228	4
STWN1JTI	228	8
STWN1JTS	228	2
STWN2CBC	229	4
STWN2CBI	229	8
STWN2DHC	229	40
STWN2DHI	229	80
STWN2DHS	229	20
STWN2EOT	229	1
STWN2INC	229	2
STWN2OPE	229	10
STWN3NWI	22A	80
STWN3NWS	22A	40
STWN3WJ2	22A	20
STWPAREA	1C	
STWPDDB	9C	
STWPDDBP	BC	
STWRCOUN	5C	
STWRPL	208	
STWSDB	210	
STWSEGID	B8	
STWSJB	20C	
STWSQD	18	
STWSTEE	FC	
STWSWBL	D4	

Table 536. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWSWPTL	C0	
STWTAREA	2C	
STWTBUF	28	
STWUSER	F4	
STWWAVE	14	
STWWJFLG	EB	
STWWRK16	88	80
STWWRK24	88	78
STWXDATE	44	
STWXTIME	40	
STW3BFER	E8	40
STW3ERON	E8	2
STW3ES57	E8	80
STW3MERG	E8	20
STW3OPER	E8	8
STW3SMAB	E8	1
STW3SWRD	E8	10

$SWBIT information

$SWBIT programming interface information

$SWBIT is a programming interface.

$SWBIT heading information

Common name: Scheduler Work Block Information Table

Macro ID: $SWBIT

DSECT name: SWBIT

Owning component: JES2 (SC1BH)

Eye-catcher ID:
SWBI
Offset: SWBITID-SWBIT
Length: L'SWBITID

Storage attributes:
Subpool: 7 for Main Task,
230 for User Environment
Key: 1
Residency: The $SWBIT is a JES2 spool resident control block.
Virtual and real storage are anywhere.

Size:
See SWBISIZ for size of base SWBIT
See SWBILENG for size of SWB data (SWBTU)
See SWBELENG for size of TU Erase list

Created by:
JES2 NJE processing,
JES2 SWB Modify processing,
JES2 Subsystem Data Set Open processing,
SJB Initialization routine SJBINIT in HASCSRJB.

Pointed to by:
SWBSWB field of the $SWBIT data area
SWBSWBTR field of the $SWBIT data area (addr on spool)
SWBTRACK field of the $SWBIT data area (addr on spool)
JOESWBOT field of the $JOE data area (addr on spool)
PDBSWBOT field of the $PDDB data area (addr on spool)
SJBSWBUF field of the $SJB data area
GCBJSWBT field of the $GCB data area
GCBPSWBT field of the $GCB data area
Various fields in the processor work areas and
parameter lists.

Serialization: The creation of the SWBIT during execution is serialized by the SJB Lock. For SWB Modify, the Job Lock is used for serialization. No other serialization is required.

Function: This control block contains information for the Scheduler Work Block, including text units (SWBTU's) and Erase Text Unit lists (Erase TU's). The text units contain information from various sources such as the OUTPUT JCL statement and SDSF modification of output descriptors.
Note that SWBDATOF should always be used to determine the start of the SWB data area. Equates are only used by code that creates the SWBIT structure.

$SWBIT mapping

Table 537. Structure SWBIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWBIT	HASP SWB INFORMATION TABLE
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'40'	0	SWBSWB	"BUFMEMW1-BFPDSECT+SWBIT" Storage address of next SWBIT
0	(0)	X'44'	0	SWBPSWB	"BUFMEMW2-BFPDSECT+SWBIT" Storage address of prior SWBIT
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER INFORMATION
		Common section - All versions have this section (see SWBVERS for version info).			
0	(0)	X'68'	0	SWBSTART	"*"
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	SWBITID	Eyecatcher
108	(6C)	CHARACTER	8	SWBJNAME	Job name
116	(74)	SIGNED	4	SWBJBNUM	Job number
120	(78)	BITSTRING	8	SWBKEY(0)	Record verification key
120	(78)	SIGNED	4	SWBJBKEY	Job key
124	(7C)	SIGNED	4	SWBDSKEY	Dataset key
124	(7C)	X'18'	0	SWBSPLNG	"*-SWBITID"
		The following EQUs are defined here only for compatibility. For all future references of job key, data set key and job name, the new names defined in SPID should be used.			
124	(7C)	X'78'	0	SWBJKEY	"SWBJBKEY" EQU for Job key
124	(7C)	X'7C'	0	SWBDKEY	"SWBDSKEY" EQU for data set key
124	(7C)	X'6C'	0	SWBJOBNM	"SWBJNAME" EQU for job name
128	(80)	ADDRESS	2	SWBILENG	LEN OF SWB DATA RET BY GETSWB

Table 537. Structure SWBIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
130	(82)	ADDRESS	2	SWBELENG	Len of TU Erase list
132	(84)	ADDRESS	4	SWBTRACK	Track address (MTTR) of this SWBIT.
136	(88)	ADDRESS	4	SWBSWBTR	Track address (MTTR) of next SWBIT.
140	(8C)	ADDRESS	1	SWBDATOF	Offset from SWBSTART to SWB data field
141	(8D)	SIGNED	1	SWBVERS	SWB structure version:
141	(8D)	X'0'	0	SWBVER0	"0" Pre-z/OS 1.12 - no extended section (see below).
141	(8D)	X'C'	0	SWBVER12	"12" z/OS 1.12+ - has extended section (see below).
142	(8E)	BITSTRING	6	SWBIOTMQ	IOT with owning PDDB (MQTR)
142	(8E)	X'2C'	0	SWBDATST_Z11	"*-SWBSTART" Offset from header to SWB data - Pre Z/OS 1.12 (if version is SWBVER0)
142	(8E)	X'94'	0	SWBISIZ_Z11	"*-SWBIT" Size of SWBIT header - Pre Z/OS 1.12 (if version is SWBVER0)
148	(94)	SIGNED	4	SWBDATA_Z11(0)	Start of SWB data - Pre Z/OS 1.12 (if version is SWBVER0)
		SWBIT extension - The following fields are only valid at version SWBVER12+			
148	(94)	BITSTRING	6	SWBMQTRK	Track address (MQTR) of this SWBIT.
154	(9A)	BITSTRING	6	SWBNXTRK	Track address (MQTR) of next SWBIT.
160	(A0)	BITSTRING	12		Reserved for future use
160	(A0)	X'44'	0	SWBDATST_Z12	"*-SWBSTART" Offset from header to SWB data - Z/OS 1.12+ (if version is SWBVER12)
160	(A0)	X'AC'	0	SWBISIZ_Z12	"*-SWBIT" Size of SWBIT header - Z/OS 1.12+ (if version is SWBVER12)
172	(AC)	SIGNED	4	SWBDATA_Z12(0)	Start of SWB data - Z/OS 1.12+ (if version is SWBVER12)

Table 538. Cross Reference for $SWBIT

Name	Offset	Hex Tag
SWBDATA_Z11	94	
SWBDATA_Z12	AC	
SWBDATOF	8C	
SWBDATST_Z11	8E	2C
SWBDATST_Z12	A0	44
SWBDKEY	7C	7C
SWBDSKEY	7C	
SWBELENG	82	
SWBILENG	80	
SWBIOTMQ	8E	
SWBISIZ_Z11	8E	94
SWBISIZ_Z12	A0	AC
SWBIT	0	
SWBITID	68	
SWBJBKEY	78	
SWBJBNUM	74	

Table 538. Cross Reference for $SWBIT (continued)

Name	Offset	Hex Tag
SWBJKEY	7C	78
SWBJNAME	6C	
SWBJOBNM	7C	6C
SWBKEY	78	
SWBMQTRK	94	
SWBNXTRK	9A	
SWBPSWB	0	44
SWBSPLNG	7C	18
SWBSTART	0	68
SWBSWB	0	40
SWBSWBTR	88	
SWBTRACK	84	
SWBVERS	8D	
SWBVER0	8D	0
SWBVER12	8D	C

$SXADDR information

$SXADDR programming interface information

$SXADDR is a programming interface.

$SXADDR heading information

Common name: Scan Exit Routine Address Table/DSECT

Macro ID: $SXADDR

DSECT name: SXADDR

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SXAD'
Offset: SXADDRID-SXADDR
Length: 4

Storage attributes: Subpool: The subpool of the HASJES20 load module
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.

Size: See SXADDRLN

Created by: The $SXADDR is created by assembly of the HASPTABS module in the HASJES20 load module.

Pointed to by: $SXADDR field of the $HCT data area

Serialization: Read only

Function: The SXADDR contains the addresses of all JES2 $SCAN prescan and postscan routines. This allows the routines to be referenced in USER tables without requiring those tables to be link-edited with the HASJES20 load module
This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

$SXADDR mapping

Table 539. Structure SXADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SXADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	SXADDRID	SXADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	SXADDRV	VERSION NUMBER
4	(4)	X'1'	0	SXADDRVN	"1" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Module HASPSXIT exit routines					
8	(8)	ADDRESS	4	SX@PREDBADT	"V(PREDBADT)" BADTRACK prescan
12	(C)	ADDRESS	4	SX@PSTBADTR	"V(PSTBADTR)" BADTRACK postscan
16	(10)	ADDRESS	4	SX@PSTADDR	"V(PSTADDR)" BADTRACK ADDR= postscan
20	(14)	ADDRESS	4	SX@PREBUFH	"V(PREBUFH)" BUFDEF BELOWBUF prescan
24	(18)	ADDRESS	4	SX@PSTBUFH	"V(PSTBUFH)" BUFDEF BELOWBUF postscan
28	(1C)	ADDRESS	4	SX@PREBUFC	"V(PREBUFC)" BUFDEF EXTBUF prescan
32	(20)	ADDRESS	4	SX@PSTBUFC	"V(PSTBUFC)" BUFDEF EXTBUF postscan
36	(24)	ADDRESS	4	SX@PSTCHARS	"V(PSTCHARS)" COMPACT CHARS= postscan
40	(28)	ADDRESS	4	SX@PRECKPT	"V(PRECKPT)" CKPTDEF prescan
44	(2C)	ADDRESS	4	SX@PRECKPTN	"V(PRECKPTN)" CKPTDEF CKPTn/NEWCKPTn prescan
48	(30)	ADDRESS	4	SX@PRECKVRS	"V(PRECKVRS)" CKPTDEF VERSIONS=NUMBER= prescan
52	(34)	ADDRESS	4	SX@PSTCKPT	"V(PSTCKPT)" CKPTDEF postscan
56	(38)	ADDRESS	4	SX@PSTCKPTN	"V(PSTCKPTN)" CKPTDEF CKPTn/NEWCKPTn postscan
60	(3C)	ADDRESS	4	SX@PSTCKVRS	"V(PSTCKVRS)" CKPTDEF VERSIONS=NUMBER= postscan
64	(40)	ADDRESS	4	SX@PSTDSN	"V(PSTDSN)" CKPTDEF CKPT1/NEWCKPT1 DSNAME= postscan
68	(44)	ADDRESS	4	SX@PSTCKVOL	"V(PSTCKVOL)" CKPTDEF CKPT1/NEWCKPT1 VOLUME= postscan
72	(48)	ADDRESS	4	SX@PSTCF	"V(PSTCF)" CKPTDEF CKPT1/NEWCKPT1 STRNAME= postscan
76	(4C)	ADDRESS	4	SX@PREVOLT	"V(PREVOLT)" CKPTDEF CKPTn=VOLATILE= prescan
80	(50)	ADDRESS	4	SX@PRECKSP	"V(PRECKSP)" CKPTDEF CKPTn=SPACE= prescn
84	(54)	ADDRESS	4	SX@PSTCKSPX	"V(PSTCKSPX)" CKPTDEF CKPTn=SPACE= postsc
88	(58)	ADDRESS	4	SX@PSTCKMOD	"V(PSTCKMOD)" CKPTDEF MODE= postscan
92	(5C)	ADDRESS	4	SX@PSTCKLCK	"V(PSTCKLCK)" $E CKPTLOCK postscan
96	(60)	ADDRESS	4	SX@PSTCKPSP	"V(PSTCKPSP)" CKPTSPACE postscan for $T
100	(64)	ADDRESS	4	SX@PREBRNUM	"V(PREBRNUM)" CKPTSPACE BERTNUM= prescan
104	(68)	ADDRESS	4	SX@PREBRTBN	"V(PREBRTBN)" CKPTSPACE BERTIES-skip blnk
108	(6C)	ADDRESS	4	SX@PREBRTCN	"V(PREBRTCN)" CKPTSPACE BERTIES-CB name
112	(70)	ADDRESS	4	SX@PREBRTIC	"V(PREBRTIC)" CKPTSPACE BERTIES prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4	SX@PREBRTUS	"V(PREBRTUS)" CKPTSPACE BERTUSE prescan
120	(78)	ADDRESS	4	SX@PRECLSGP	"V(PRECLSGP)" CLASSGRP prescan
124	(7C)	ADDRESS	4	SX@PSTCLSGP	"V(PSTCLSGP)" CLASSGRP postscan
128	(80)	ADDRESS	4	SX@PRECLGCT	"V(PRECLGCT)" CLASSGRP CLASS prescan
132	(84)	ADDRESS	4	SX@PREDCOMP	"V(PREDCOMP)" COMPACT prescan
136	(88)	ADDRESS	4	SX@PSTCOMP	"V(PSTCOMP)" COMPACT postscan
140	(8C)	ADDRESS	4	SX@PREDCHAR	"V(PREDCHAR)" COMPACT CHARS= prescan
144	(90)	ADDRESS	4	SX@PSTCMB	"V(PSTCMB)" CONDEF postscan
148	(94)	ADDRESS	4	SX@PSTPREFX	"V(PSTPREFX)" CONDEF postscan
152	(98)	ADDRESS	4	SX@PSTCNCHR	"V(PSTCNCHR)" CONDEF CONCHAR= postscan
156	(9C)	ADDRESS	4	SX@PSTRDCHR	"V(PSTRDCHR)" CONDEF RDRCHAR= postscan
160	(A0)	ADDRESS	4	SX@PSTSCOPE	"V(PSTSCOPE)" CONDEF SCOPE= postscan
164	(A4)	ADDRESS	4	SX@PSTDEBUG	"V(PSTDEBUG)" DEBUG postscan
168	(A8)	ADDRESS	4	SX@PSTDBUGA	"V(PSTDBUGA)" DEBUG set all postscan
172	(AC)	ADDRESS	4	SX@PREDEST	"V(PREDEST)" DESTID DEST= prescan
176	(B0)	ADDRESS	4	SX@PREDESI	"V(PREDESI)" DESTID prescan
180	(B4)	ADDRESS	4	SX@PSTDESI	"V(PSTDESI)" DESTID postscan
184	(B8)	ADDRESS	4	SX@PSTEST	"V(PSTEST)" ESTBYTE/ESTIME/ESTLNCT/ ESTPAGE/ ESTPUN postscan
188	(BC)	ADDRESS	4	SX@PREEXIT	"V(PREEXIT)" EXIT prescan
192	(C0)	ADDRESS	4	SX@PSTEXIT	"V(PSTEXIT)" EXIT postscan
196	(C4)	ADDRESS	4	SX@PREEXRTN	"V(PREEXRTN)" EXIT ROUTINES= prescan
200	(C8)	ADDRESS	4	SX@PREDSBEX	"V(PREDSBEX)" EXIT ROUTINES= vector pre
204	(CC)	ADDRESS	4	SX@PSTDSBEX	"V(PSTDSBEX)" EXIT ROUTINES= vector post
208	(D0)	ADDRESS	4	SX@PREFSSDF	"V(PREFSSDF)" FSS prescan
212	(D4)	ADDRESS	4	SX@PSTFSSDF	"V(PSTFSSDF)" FSS postscan
216	(D8)	ADDRESS	4	SX@PREZJCUS	"V(PREZJCUS)" GRPDEF ZJCUSE prescan
220	(DC)	ADDRESS	4	SX@PSTGRPDF	"V(PSTGRPDF)" GRPDEF postscan for $T
224	(E0)	ADDRESS	4	SX@PSTJGNUM	"V(PSTJGNUM)" GRPDEF GRPNUM= postscan
228	(E4)	ADDRESS	4	SX@PREINCL	"V(PREINCL)" INCLUDE Prescan
232	(E8)	ADDRESS	4	SX@PSTINCL	"V(PSTINCL)" INCLUDE Postscan
236	(EC)	ADDRESS	4	SX@PSTINCDS	"V(PSTINCDS)" INCLUDE DSNAME= Postscan
240	(F0)	ADDRESS	4	SX@CLNUPPRW	"V(CLNUPPRW)" INCLUDE cleanup routine
244	(F4)	ADDRESS	4	SX@PREINIT	"V(PREINIT)" INIT prescan
248	(F8)	ADDRESS	4	SX@PSTINIT	"V(PSTINIT)" INIT postscan
252	(FC)	ADDRESS	4	SX@PREPSJB	"V(PREPSJB)" INIT subparm= prescan
256	(100)	ADDRESS	4	SX@PREPITCL	"V(PREPITCL)" INIT CLASS= prescan
260	(104)	ADDRESS	4	SX@PREPTVCL	"V(PREPTVCL)" INIT CLASS= vector prescan
264	(108)	ADDRESS	4	SX@PSTCLASV	"V(PSTCLASV)" INIT CLASS= postscan verify
268	(10C)	ADDRESS	4	SX@PREINECL	"V(PREINECL)" INIT INELIGIBLE_CLASS= prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	ADDRESS	4	SX@PSTINPDF	"V(PSTINPDF)" INPUTDEF postscan
276	(114)	ADDRESS	4	SX@PSTJECDF	"V(PSTJECDF)" JECLDEF postscan
280	(118)	ADDRESS	4	SX@PSTJOBCL	"V(PSTJOBCL)" CLASS= validation postscan
284	(11C)	ADDRESS	4	SX@PRE608	"V(PRE608)" JES2 HASP607 rc prescan
288	(120)	ADDRESS	4	SX@PREAPCE	"V(PREAPCE)" JES2 active PCE prescan
292	(124)	ADDRESS	4	SX@PREACTAS	"V(PREACTAS)" JES2 active addr sp prescan
296	(128)	ADDRESS	4	SX@PREANETW	"V(PREANETW)" JES2 active network prescan
300	(12C)	ADDRESS	4	SX@PREHPCE	"V(PREHPCE)" JES2 held PCE prescan
304	(130)	ADDRESS	4	SX@PREIREA	"V(PREIREA)" JES2 alloc INTRDR prescan
308	(134)	ADDRESS	4	SX@PREXMEMB	"V(PREXMEMB)" JES2 X-memb request prescan
312	(138)	ADDRESS	4	SX@PREEOMCT	"V(PREEOMCT)" JES2 EOM activity prescan
316	(13C)	ADDRESS	4	SX@PREPSOCT	"V(PREPSOCT)" JES2 PSO activity prescan
320	(140)	ADDRESS	4	SX@PRESAPCT	"V(PRESAPCT)" JES2 SAPI activity prescan
324	(144)	ADDRESS	4	SX@PREDEVNM	"V(PREDEVNM)" JES2 Device name prescan
328	(148)	ADDRESS	4	SX@PREDIL	"V(PREDIL)" JES2 DWA BERT prescan
332	(14C)	ADDRESS	4	SX@PRESPM	"V(PRESPM)" JES2 SPOOL Migration DTE
336	(150)	ADDRESS	4	SX@PSTDEVST	"V(PSTDEVST)" JES2/NET Line device status
340	(154)	ADDRESS	4	SX@PRELMT	"V(PRELMT)" JES2 Copy $LIMITS prescan
344	(158)	ADDRESS	4	SX@PRELMLNG	"V(PRELMLNG)" JES2 $D LIMITS,LONG prescan
348	(15C)	ADDRESS	4	SX@PRELMMAS	"V(PRELMMAS)" JES2 $D LIMITS,MASVIEW= scn
352	(160)	ADDRESS	4	SX@PRELMRAT	"V(PRELMRAT)" JES2 LIMTRATE prescan
356	(164)	ADDRESS	4	SX@PRELRUSE	"V(PRELRUSE)" JES2 Locate LIMRUSE prescan
360	(168)	ADDRESS	4	SX@PRELTCNT	"V(PRELTCNT)" JES2 Locate LIMTCNT prescan
364	(16C)	ADDRESS	4	SX@PRELTENT	"V(PRELTENT)" JES2 Locate LIMTENT prescan
368	(170)	ADDRESS	4	SX@PRELTRAT	"V(PRELTRAT)" JES2 Locate LIMTRAT prescan
372	(174)	ADDRESS	4	SX@PSTLMPRV	"V(PSTLMPRV)" JES2 $T LIMITS,PRIV= pstscn
376	(178)	ADDRESS	4	SX@PSTLMT	"V(PSTLMT)" JES2 $D LIMITS postscan
380	(17C)	ADDRESS	4	SX@PSTSMENV	"V(PSTSMENV)" JES2 $T LIMITS,SMALLENV pst
384	(180)	ADDRESS	4	SX@PSTCATAC	"V(PSTCATAC)" JOBCLASS ACTIVE= postscan
388	(184)	ADDRESS	4	SX@PREDAUTH	"V(PREDAUTH)" JOBCLASS/STCCLASS/ TSUCLASS AUTH= prescan
392	(188)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCLASS/STCCLASS/ TSUCLASS AUTH prescan
396	(18C)	ADDRESS	4	SX@PSTQHPST	"V(PSTQHPST)" JOBCLASS QHELD,TYPE,MAX

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	ADDRESS	4	SX@PSTJQPST	"V(PSTJQPST)" General routine to post XEQ
404	(194)	ADDRESS	4	SX@PSTOGDJC	"V(PSTOGDJC)" JOBCLASS/STCCLASS/ TSUCLASS OUTDISP= postscan
408	(198)	ADDRESS	4	SX@PREOGDJC	"V(PREOGDJC)" JOBCLASS/STCCLASS/ TSUCLASS OUTDISP= prescan
412	(19C)	ADDRESS	4	SX@PREREGN	"V(PREREGN)" JOBCLASS/STCCLASS/ TSUCLASS REGION= prescan
416	(1A0)	ADDRESS	4	SX@PSTREGN	"V(PSTREGN)" JOBCLASS/STCCLASS/ TSUCLASS REGION= postscan
420	(1A4)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" JOBCLASS/STCCLASS/ TSUCLASS command postscan
424	(1A8)	ADDRESS	4	SX@PSTCATI	"V(PSTCATI)" JOBCLASS init stmt postscan
428	(1AC)	ADDRESS	4	SX@PSTCATNW	"V(PSTCATNW)" JOBCLASS postscan
432	(1B0)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCLASS JESLOG SET prescan
436	(1B4)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCLASS JESLOG DISP prescn
440	(1B8)	ADDRESS	4	SX@PSTDUPLC	"V(PSTDUPLC)" JOBCLASS DUPL_JOB= postscan
444	(1BC)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for $T
448	(1C0)	ADDRESS	4	SX@PSTJBJNC	"V(PSTJBJNC)" JOBDEF postscan for $T of BAD_JOBNAME_CHAR
452	(1C4)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
456	(1C8)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
460	(1CC)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
464	(1D0)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
468	(1D4)	ADDRESS	4	SX@PSTDUPL	"V(PSTDUPL)" JOBDEF DUPL_JOB= postscan
472	(1D8)	ADDRESS	4	SX@PSTDEFCL	"V(PSTDEFCL)" JOBDEF DEF_CLASS= postscan
476	(1DC)	ADDRESS	4	SX@PSTEVTLS	"V(PSTEVTLS)" JOBDEF SUP_EVENTLOG_SMF pst
480	(1E0)	ADDRESS	4	SX@PRENFYS	"V(PRENFYS)" JOBDEF NFY_SUBJECT prescan
484	(1E4)	ADDRESS	4	SX@PSTNFYS	"V(PSTNFYS)" JOBDEF NFY_SUBJECT postscan
488	(1E8)	ADDRESS	4	SX@PREMESYS	"V(PREMESYS)" MASDEF AUTOEMEM= prescan
492	(1EC)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
496	(1F0)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
500	(1F4)	ADDRESS	4	SX@PSTDRHL	"V(PSTDRHL)" MASDEF HOLD= and DORMANCY= postscan
504	(1F8)	ADDRESS	4	SX@PSTMASDF	"V(PSTMASDF)" MASDEF ENF= postscan
508	(1FC)	ADDRESS	4	SX@PSTCCM2	"V(PSTCCM2)" MASDEF CYCLEMGT= postscan
512	(200)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
516	(204)	ADDRESS	4	SX@PREMDEFD	"V(PREMDEFD)" MEMBER IND= prescan
520	(208)	ADDRESS	4	SX@PSTSNAME	"V(PSTSNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
524	(20C)	ADDRESS	4	SX@PREDSID	"V(PREDSID)" MEMBER RESETBY=, SPOOL MIGRATOR prescan
528	(210)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
532	(214)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
536	(218)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
540	(21C)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
544	(220)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
548	(224)	ADDRESS	4	SX@PREJOEUS	"V(PREJOEUS)" OUTDEF JOEUSE prescan
552	(228)	ADDRESS	4	SX@PREOUTJX	"V(PREOUTJX)" OUTDEF WS_OPT= prescan
556	(22C)	ADDRESS	4	SX@PREXWA	"V(PREXWA)" OUTDEF prescan
560	(230)	ADDRESS	4	SX@PSTLDSR	"V(PSTLDSR)" OUTDEF DSLIMIT= postscan
564	(234)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for $T
568	(238)	ADDRESS	4	SX@PSTOUTDO	"V(PSTOUTDO)" OUTDEF LDEV_OPT= postscan
572	(23C)	ADDRESS	4	SX@PSTOUTSO	"V(PSTOUTSO)" OUTDEF SAPI_OPT= postscan
576	(240)	ADDRESS	4	SX@PSTOUTJX	"V(PSTOUTJX)" OUTDEF WS_OPT= postscan
580	(244)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
584	(248)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
588	(24C)	ADDRESS	4	SX@PSTROPT	"V(PSTROPT)" OUTDEF PRTYOUT= postscan
592	(250)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
596	(254)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
600	(258)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
604	(25C)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
608	(260)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
612	(264)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
616	(268)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command pstscan
620	(26C)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
624	(270)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
628	(274)	ADDRESS	4	SX@PREPCEWF	"V(PREPCEWF)" PCE DETAILS WAIT prescan
632	(278)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
636	(27C)	ADDRESS	4	SX@PREPCEFW	"V(PREPCEFW)" PCE DETAILS subparm prescan
640	(280)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
644	(284)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
648	(288)	ADDRESS	4	SX@PREEVDUR	"V(PREEVDUR)" PERFDATA(EVENT) DURATION=
652	(28C)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PCESTAT) CPU% prescan
656	(290)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PCESTAT) PCENAME= prescan
660	(294)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PCESTAT) PCENAME= prescan
664	(298)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PCESTAT) POST= prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
668	(29C)	ADDRESS	4	SX@PREWAITP	"V(PREWAITP)" PERFDATA(PCESTAT) WAIT= prescan
672	(2A0)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
676	(2A4)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
680	(2A8)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
684	(2AC)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS=
688	(2B0)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS=
692	(2B4)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) and SRVCLASS prescan
696	(2B8)	ADDRESS	4	SX@PREWSCA	"V(PREWSCA)" SRVCLASS prescan for $ADD
700	(2BC)	ADDRESS	4	SX@PSTWSCA	"V(PSTWSCA)" SRVCLASS pstscan for $ADD
704	(2C0)	ADDRESS	4	SX@PSTWSCB	"V(PSTWSCB)" SRVCLASS pstscan for $ADD
708	(2C4)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan
712	(2C8)	ADDRESS	4	SX@PREPRFCT	"V(PREPRFCT)" PERFDATA skip if CYCLEMGT=MANUAL
716	(2CC)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
720	(2D0)	ADDRESS	4	SX@PREPCY	"V(PREPCY)" $POLICY prescan exit
724	(2D4)	ADDRESS	4	SX@PSTPCY	"V(PSTPCY)" $POLICY postscan exit
728	(2D8)	ADDRESS	4	SX@CLNPCY	"V(CLNPCY)" $POLICY cleanup exit
732	(2DC)	ADDRESS	4	SX@PSTPRTDF	"V(PSTPRTDF)" PRINTDEF postscan for $T
736	(2E0)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
740	(2E4)	ADDRESS	4	SX@PRERDSTM	"V(PRERDSTM)" REDIRECT prescan
744	(2E8)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
748	(2EC)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
752	(2F0)	ADDRESS	4	SX@PSTSMFD	"V(PSTSMFD)" SMFDEF postscan
756	(2F4)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
760	(2F8)	ADDRESS	4	SX@PREISPOL	"V(PREISPOL)" SPOOL init stmt prescan
764	(2FC)	ADDRESS	4	SX@PSTSPOOL	"V(PSTSPOOL)" SPOOL postscan
768	(300)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
772	(304)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
776	(308)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
780	(30C)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
784	(310)	ADDRESS	4	SX@PREISPSF	"V(PREISPSF)" SPOOL INIT SYSAFF= prescan
788	(314)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
792	(318)	ADDRESS	4	SX@PSTSPDSN	"V(PSTSPDSN)" SPOOL DSNAME= postscan
796	(31C)	ADDRESS	4	SX@PREATTR	"V(PREATTR)" SPOOL unit data attributes
800	(320)	ADDRESS	4	SX@PREDSTS	"V(PREDSTS)" SPOOL STATUS= prescan
804	(324)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
808	(328)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
812	(32C)	ADDRESS	4	SX@PRESPST	"V(PRESPST)" SPOOL SPACE= prescan
816	(330)	ADDRESS	4	SX@PSTSPSTX	"V(PSTSPSTX)" SPOOL SPACE= postscan
820	(334)	ADDRESS	4	SX@PSTSPTAR	"V(PSTSPTAR)" SPOOL TARGET= postscan
824	(338)	ADDRESS	4	SX@PREMIGDA	"V(PREMIGDA)" SPOOL MIGDATA= prescan
828	(33C)	ADDRESS	4	SX@PREMPERC	"V(PREMPERC)" SPOOL MPERCENT= prescan
832	(340)	ADDRESS	4	SX@PREDRSVD	"V(PREDRSVD)" SPOOL RESERVED= prescan
836	(344)	ADDRESS	4	SX@PREABSTR	"V(PREABSTR)" SPOOL ABSTR= prescan
840	(348)	ADDRESS	4	SX@PSTSPLDF	"V(PSTSPLDF)" SPOOLDEF postscan for $T
844	(34C)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for $T
848	(350)	ADDRESS	4	SX@PRECYLDS	"V(PRECYLDS)" SPOOLDEF CYL_MANAGED = prescan
852	(354)	ADDRESS	4	SX@PSTCYLDS	"V(PSTCYLDS)" SPOOLDEF CYL_MANAGED = postscan
856	(358)	ADDRESS	4	SX@PSTSPL	"V(PSTSPL)" SPOOLDEF SPOOLNUM= postscan
860	(35C)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
864	(360)	ADDRESS	4	SX@PRESDFRE	"V(PRESDFRE)" SPOOLDEF TGSPACE=FREE pre
868	(364)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
872	(368)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
876	(36C)	ADDRESS	4	SX@PREENCRS	"V(PREENCRS)" SPOOLDEF ADVANCED_FORMAT= prescan
880	(370)	ADDRESS	4	SX@PSTENCRS	"V(PSTENCRS)" SPOOLDEF ADVANCED_FORMAT= postscan
884	(374)	ADDRESS	4	SX@PREDSSI	"V(PREDSSI)" SSI prescan
888	(378)	ADDRESS	4	SX@PRETPB	"V(PRETPB)" TPDEF BSCBUF prescan
892	(37C)	ADDRESS	4	SX@PSTTPB	"V(PSTTPB)" TPDEF BSCBUF postscan
896	(380)	ADDRESS	4	SX@PRETPS	"V(PRETPS)" TPDEF SNABUF prescan
900	(384)	ADDRESS	4	SX@PSTTPS	"V(PSTTPS)" TPDEF SNABUF postscan
904	(388)	ADDRESS	4	SX@PSTSICE	"V(PSTSICE)" TPDEF postscan
908	(38C)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
912	(390)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
916	(394)	ADDRESS	4	SX@PRETDFID	"V(PRETDFID)" TRACEDEF IDS= prescan
920	(398)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
924	(39C)	ADDRESS	4	SX@PSTTRFLT	"V(PSTTRFLT)" TRACE filtering postscan
928	(3A0)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
932	(3A4)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
936	(3A8)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/ RANGE prescan
940	(3AC)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/ RANGE postscan
944	(3B0)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do $QSUSE

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
948	(3B4)	ADDRESS	4	SX@PREQSNOI	"V(PREQSNOI)" and one for no I/O active
952	(3B8)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
956	(3BC)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
960	(3C0)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
964	(3C4)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
968	(3C8)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS command prescan
972	(3CC)	ADDRESS	4	SX@PRECATI	"V(PRECATI)" JOBCLASS init stmt prescan
976	(3D0)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCLASS/TSUCLASS prescan
980	(3D4)	ADDRESS	4		Reserved - delete for xmit
984	(3D8)	ADDRESS	4	SX@PSTCGROP	"V(PSTCGROP)" JOBCLASS GROUP postscan
988	(3DC)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
992	(3E0)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities
996	(3E4)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
1000	(3E8)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" $D ACTIVATE prescan
1004	(3EC)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" ACTIVATE postscan
1008	(3F0)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCLASS SCHENV= postscan
1012	(3F4)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCLASS SCHENV = Pstscan
1016	(3F8)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
1020	(3FC)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
1024	(400)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
1028	(404)	ADDRESS	4	SX@PREJCLMD	"V(PREJCLMD)" JOBCLASS MODE prescan
1032	(408)	ADDRESS	4	SX@PSTJCLMD	"V(PSTJCLMD)" JOBCLASS MODE postscan
1036	(40C)	ADDRESS	4	SX@PSTHPRM	"V(PSTHPRM)" INIT PARM HASPPARM = postscan
1040	(410)	ADDRESS	4	SX@PSTPMEM	"V(PSTPMEM)" INIT PARM MEMBER = postscan
1044	(414)	ADDRESS	4	SX@PRESNIFF	"V(PRESNIFF)" SPOOLDEF SNIFF prescan
1048	(418)	ADDRESS	4	SX@PSTSNIFF	"V(PSTSNIFF)" SPOOLDEF SNIFF pstscan
1052	(41C)	ADDRESS	4	SX@PREZRCHK	"V(PREZRCHK)" General prescan to skip display if field is zero
1056	(420)	ADDRESS	4	SX@PREFFCHK	"V(PREFFCHK)" General prescan to skip display if field is FFs
1060	(424)	ADDRESS	4	SX@PREFLHOT	"V(PREFLHOT)" COLD/FORMAT start option
1064	(428)	ADDRESS	4	SX@PREDEVID	"V(PREDEVID)" General prescan to display devid fields
1068	(42C)	ADDRESS	4	SX@PREZPSEQ	"V(PREZPSEQ)" Format z/OS product level
1072	(430)	ADDRESS	4		Reserved for future use
1076	(434)	ADDRESS	4		Reserved for future use
1080	(438)	ADDRESS	4		Reserved for future use
1084	(43C)	ADDRESS	4		Reserved for future use

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1088	(440)	ADDRESS	4		Reserved for future use
1092	(444)	ADDRESS	4		Reserved for future use
1096	(448)	ADDRESS	4		Reserved for future use
		Module HASPSXDV exit routines Note: Many routines in HASPSXDV are called for several types of devices or several keywords on a specific device type.			
1100	(44C)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
1104	(450)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
1108	(454)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
1112	(458)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
1116	(45C)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
1120	(460)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
1124	(464)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
1128	(468)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
1132	(46C)	ADDRESS	4	SX@PRELNSTK	"V(PRELNSTK)" LINE CONNECT time prescan
1136	(470)	ADDRESS	4	SX@PRELDFLT	"V(PRELDFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan
1140	(474)	ADDRESS	4	SX@PRELDNDE	"V(PRELDNDE)" LINE NODES= display prescan
1144	(478)	ADDRESS	4	SX@PRELFNDE	"V(PRELFNDE)" LINE NODES= display prescan
1148	(47C)	ADDRESS	4	SX@PSTLTRST	"V(PSTLTRST)" LINE TRACE= set postscan
1152	(480)	ADDRESS	4	SX@PSTLTRSS	"V(PSTLTRSS)" LINE TRACE= set postscan
1156	(484)	ADDRESS	4	SX@PREVTRC	"V(PREVTRC)" LINE/NETSRV TRACE= filter prescan
1160	(488)	ADDRESS	4	SX@PRELNERS	"V(PRELNERS)" LINE RMTSHARE= prescan
1164	(48C)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
1168	(490)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
1172	(494)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
1176	(498)	ADDRESS	4	SX@PSTSRVA	"V(PSTSRVA)" NETSRV postscan
1180	(49C)	ADDRESS	4	SX@PRESVSES	"V(PRESVSES)" NETSRV SESSIONS= prescan
1184	(4A0)	ADDRESS	4	SX@PSTSVSCK	"V(PSTSVSCK)" NETSRV SOCKET= postscan
1188	(4A4)	ADDRESS	4	SX@PSTNTRST	"V(PSTNTRST)" NETSRV TRACE= set postscan
1192	(4A8)	ADDRESS	4	SX@PSTNTRSS	"V(PSTNTRSS)" NETSRV TRACE= set postscan
1196	(4AC)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
1200	(4B0)	ADDRESS	4	SX@PSTMDRC	"V(PSTMDRC)" OFFn.SR MOD=ROUTECDE= postscan
1204	(4B4)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
1208	(4B8)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
1212	(4BC)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1216	(4C0)	ADDRESS	4	SX@PSTSAF	"V(PSTSAF)" OFF.JT/OFF.JR SYSAFF= postscan
1220	(4C4)	ADDRESS	4	SX@PREOFFCL	"V(PREOFFCL)" OFF.JT/OFF.JR class prescan
1224	(4C8)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
1228	(4CC)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
1232	(4D0)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
1236	(4D4)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
1240	(4D8)	ADDRESS	4	SX@PSTDDSET	"V(PSTDDSET)" PROCLIB DD DSN/PATH set
1244	(4DC)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
1248	(4E0)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
1252	(4E4)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
1256	(4E8)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
1260	(4EC)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
1264	(4F0)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
1268	(4F4)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
1272	(4F8)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= postscan
1276	(4FC)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
1280	(500)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
1284	(504)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
1288	(508)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
1292	(50C)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
1296	(510)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
1300	(514)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subparm= prescan (FSS query)
1304	(518)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subparm= prescan (PFSQUERY cleanup)
1308	(51C)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subparm= prescan (test non-impact)
1312	(520)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subparm= prescan (test **** value)
1316	(524)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subparm= prescan (test RESET value)
1320	(528)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subparm= prescan (test drain)
1324	(52C)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subparm= prescan (test operator action)
1328	(530)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subparm= postscan (FSA update)
1332	(534)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subparm= postscan (FSACB update)
1336	(538)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subparm= postscan (FSS SET order)
1340	(53C)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subparm= postscan (FSS SYNCH order)
1344	(540)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
1348	(544)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
1352	(548)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1356	(54C)	ADDRESS	4	SX@PSTSELCT	"V(PSTSELCT)" Rn.PRn/Rn.PUn SELECT= postscan
1360	(550)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
1364	(554)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
1368	(558)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
1372	(55C)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
1376	(560)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
1380	(564)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1384	(568)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1388	(56C)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
1392	(570)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan
1396	(574)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT postscan
1400	(578)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan
1404	(57C)	ADDRESS	4	SX@PRERMTP	"V(PRERMTP)" RMT PASSWORD= prescan
1408	(580)	ADDRESS	4	SX@PRERMTSH	"V(PRERMTSH)" RMT SHARABLE= prescan
1412	(584)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan
1416	(588)	ADDRESS	4	SX@PRERMTST	"V(PRERMTST)" RMT STATUS= prescan
1420	(58C)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan
1424	(590)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan
1428	(594)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan
1432	(598)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan
1436	(59C)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan
1440	(5A0)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan
1444	(5A4)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/ XEQDEST prescan
1448	(5A8)	ADDRESS	4	SX@PRERNG	"V(PRERNG)" Device RANGE= prescan
1452	(5AC)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan
1456	(5B0)	ADDRESS	4	SX@PREDVSTK	"V(PREDVSTK)" Device RESTART time prescan
1460	(5B4)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan
1464	(5B8)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan
1468	(5BC)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan
1472	(5C0)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan
1476	(5C4)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan
1480	(5C8)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan
1484	(5CC)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan
1488	(5D0)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan
1492	(5D4)	ADDRESS	4	SX@PSTSRSF2	"V(PSTSRSF2)" Device SYSAFF= postscan
1496	(5D8)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan
1500	(5DC)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan
1504	(5E0)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan
1508	(5E4)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1512	(5E8)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan
1516	(5EC)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan
1520	(5F0)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status
1524	(5F4)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device
1528	(5F8)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan
1532	(5FC)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan
1536	(600)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan
1540	(604)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc
1544	(608)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc
1548	(60C)	ADDRESS	4	SX@PSTCDCT	"V(PSTCDCT)" CDCT synch, all devices
1552	(610)	ADDRESS	4	SX@PSTCDCTO	"V(PSTCDCTO)" CDCT synch, offload devices
1556	(614)	ADDRESS	4	SX@PSTCDCTS	"V(PSTCDCTS)" CDCT synch, MDCDTDCT chain is processed.
1560	(618)	ADDRESS	4	SX@PSTSBMDD	"V(PSTSBMDD)" SUBMITRDR DD_DEFAULT= pstsc
1564	(61C)	ADDRESS	4		Reserved for future use
1568	(620)	ADDRESS	4		Reserved for future use
1572	(624)	ADDRESS	4		Reserved for future use
1576	(628)	ADDRESS	4		Reserved for future use
1580	(62C)	ADDRESS	4		Reserved for future use
1584	(630)	ADDRESS	4		Reserved for future use
1588	(634)	ADDRESS	4		Reserved for future use
1592	(638)	ADDRESS	4		Reserved for future use
1596	(63C)	ADDRESS	4		Reserved for future use
Module HASPSXNJ exit routines					
1600	(640)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan
1604	(644)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan
1608	(648)	ADDRESS	4	SX@PREAPSTK	"V(PREAPSTK)" APPL CONNECT= time prescan
1612	(64C)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE/SOCKET LINE= prescan
1616	(650)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE/SOCKET LINE= postscan
1620	(654)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL/SOCKET NODE= prescan
1624	(658)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1628	(65C)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1632	(660)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1636	(664)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1640	(668)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1644	(66C)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1648	(670)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1652	(674)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1656	(678)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1660	(67C)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1664	(680)	ADDRESS	4	SX@PREDSESN	"V(PREDSESN)" LINE/LOGON SESSIONS= prescan
1668	(684)	ADDRESS	4	SX@POSTNRM	"V(POSTNRM)" $POST Net Resource Monitor
1672	(688)	ADDRESS	4	SX@PRESZNET	"V(PRESZNET)" $S/$P/$Z NET prescan
1676	(68C)	ADDRESS	4	SX@PSTSZNET	"V(PSTSZNET)" $S/$P/$Z NET postscan
1680	(690)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1684	(694)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1688	(698)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1692	(69C)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1696	(6A0)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1700	(6A4)	ADDRESS	4	SX@PSTNJEC	"V(PSTNJEC)" NJEDEF CONNECT postscan
1704	(6A8)	ADDRESS	4	SX@PRENNUM	"V(PRENNUM)" NJEDEF NODENUM prescan
1708	(6AC)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1712	(6B0)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1716	(6B4)	ADDRESS	4	SX@PRENACT	"V(PRENACT)" NODE NAME= prescan
1720	(6B8)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1724	(6BC)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1728	(6C0)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1732	(6C4)	ADDRESS	4	SX@PRENDSTK	"V(PRENDSTK)" NODE CONNECT time prescan
1736	(6C8)	ADDRESS	4	SX@PSTNVFY	"V(PSTNVFY)" NODE VFYPATH postscan
1740	(6CC)	ADDRESS	4	SX@PSTNCHG	"V(PSTNCHG)" NODE ckpt'ed parm prescan
1744	(6D0)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1748	(6D4)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1752	(6D8)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1756	(6DC)	ADDRESS	4	SX@PSTSOCK	"V(PSTSOCK)" SOCKET postscan
1760	(6E0)	ADDRESS	4	SX@PRESKSTK	"V(PRESKSTK)" SOCKET CONNECT time prescan
1764	(6E4)	ADDRESS	4	SX@PREDPSWD	"V(PREDPSWD)" General PASSWORD= prescan
1768	(6E8)	ADDRESS	4	SX@PREIPAD	"V(PREIPAD)" General prescan to convert 32-bit IP addresses
1772	(6EC)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1776	(6F0)	ADDRESS	4	SX@PRESHOST	"V(PRESHOST)" SOCKET HOST= prescanuse
1780	(6F4)	ADDRESS	4	SX@PRESOKID	"V(PRESOKID)" SOCKET SOCKID= prescan
1784	(6F8)	ADDRESS	4	SX@PSTSOKST	"V(PSTSOKST)" SOCKET STATUS= postscan
1788	(6FC)	ADDRESS	4	SX@PRESOCK	"V(PRESOCK)" SOCKET prescan
1792	(700)	ADDRESS	4		Reserved for future use
1796	(704)	ADDRESS	4		Reserved for future use

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1800	(708)	ADDRESS	4		Reserved for future use
1804	(70C)	ADDRESS	4		Reserved for future use
1808	(710)	ADDRESS	4		Reserved for future use
1812	(714)	ADDRESS	4		Reserved for future use
1816	(718)	ADDRESS	4		Reserved for future use
1820	(71C)	ADDRESS	4		Reserved for future use
Module HASPSXOT exit routines					
1824	(720)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1828	(724)	ADDRESS	4	SX@PREJOAUP	"V(PREJOAUP)" OUTPUT UPDATE JOA prescan
1832	(728)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1836	(72C)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1840	(730)	ADDRESS	4	SX@PREJOBSY	"V(PREJOBSY)" OUTPUT BUSY= prescan
1844	(734)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1848	(738)	ADDRESS	4	SX@PREHLDRC	"V(PREHLDRC)" OUTPUT HOLDRC= prescan
1852	(73C)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1856	(740)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan
1860	(744)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1864	(748)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1868	(74C)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1872	(750)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1876	(754)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1880	(758)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1884	(75C)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1888	(760)	ADDRESS	4	SX@PREOJQX	"V(PREOJQX)" OUTPUT keyword= prescan for JQX fields
1892	(764)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1896	(768)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1900	(76C)	ADDRESS	4	SX@PREJOOFS	"V(PREJOOFS)" OUTPUT OFFS= prescan
1904	(770)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1908	(774)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1912	(778)	ADDRESS	4	SX@PSTSOFFS	"V(PSTSOFFS)" JOB/OUTPUT OFFS= postscan
1916	(77C)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for '****' value
1920	(780)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1924	(784)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" $LJ READY/HELD prescan
1928	(788)	ADDRESS	4	SX@PRELOTOT	"V(PRELOTOT)" $LJ OUTGRPS prescan
1932	(78C)	ADDRESS	4	SX@PRELOLP	"V(PRELOLP)" $LJ RECORDS/PAGES prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1936	(790)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1940	(794)	ADDRESS	4	SX@PRENDDEL	"V(PRENDDEL)" Skip display on delete call
1944	(798)	ADDRESS	4		Reserved for future use
1948	(79C)	ADDRESS	4		Reserved for future use
1952	(7A0)	ADDRESS	4		Reserved for future use
1956	(7A4)	ADDRESS	4		Reserved for future use
1960	(7A8)	ADDRESS	4		Reserved for future use
1964	(7AC)	ADDRESS	4		Reserved for future use
1968	(7B0)	ADDRESS	4		Reserved for future use
1972	(7B4)	ADDRESS	4		Reserved for future use
1976	(7B8)	ADDRESS	4		Reserved for future use
1980	(7BC)	ADDRESS	4		Reserved for future use
Module HASPSXJB exit routines					
1984	(7C0)	ADDRESS	4	SX@PREDJB	"V(PREDJB)" $D DUPJOB command prescan
1988	(7C4)	ADDRESS	4	SX@PSTDJB	"V(PSTDJB)" $D DUPJOB command postscan
1992	(7C8)	ADDRESS	4	SX@CLNUPDJB	"V(CLNUPDJB)" $D DUPJOB command cleanup
1996	(7CC)	ADDRESS	4	SX@PREMZJOB	"V(PREMZJOB)" GROUP command prescan
2000	(7D0)	ADDRESS	4	SX@PREMZOD	"V(PREMZOD)" GROUP command prescan
2004	(7D4)	ADDRESS	4	SX@PREMZDSK	"V(PREMZDSK)" GROUP command job list pre
2008	(7D8)	ADDRESS	4	SX@PREMZODL	"V(PREMZODL)" GROUP command job list pre
2012	(7DC)	ADDRESS	4	SX@PREWHEN	"V(PREWHEN)" WHEN keyword prescan
2016	(7E0)	ADDRESS	4	SX@PREZODCK	"V(PREZODCK)" GROUP keyword prescan
2020	(7E4)	ADDRESS	4	SX@PREDEPL	"V(PREDEPL)" JOB AFTER/BEFORE prescan
2024	(7E8)	ADDRESS	4	SX@PSTMZOD	"V(PSTMZOD)" GROUP command postscan
2028	(7EC)	ADDRESS	4	SX@PREJCOR	"V(PREJCOR)" JOB JOBCORR= prescan
2032	(7F0)	ADDRESS	4	SX@PSTJCOR	"V(PSTJCOR)" JOB JOBCORR= postscan
2036	(7F4)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
2040	(7F8)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
2044	(7FC)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
2048	(800)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
2052	(804)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan
2056	(808)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
2060	(80C)	ADDRESS	4	SX@PREJQAUP	"V(PREJQAUP)" JOB update mode JQA prescan
2064	(810)	ADDRESS	4	SX@PREJQBSY	"V(PREJQBSY)" JOB BUSY= prescan
2068	(814)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
2072	(818)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
2076	(81C)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
2080	(820)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
2084	(824)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
2088	(828)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2092	(82C)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
2096	(830)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
2100	(834)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
2104	(838)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
2108	(83C)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
2112	(840)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
2116	(844)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ
2120	(848)	ADDRESS	4	SX@PREJQEPH	"V(PREJQEPH)" JOB prescan Queued pre HOPE
2124	(84C)	ADDRESS	4	SX@PRESBYS	"V(PRESBYS)" JOB SECLABEL_AFF prescan
2128	(850)	ADDRESS	4	SX@PREJTGP	"V(PREJTGP)" JOB SPOOL=PERCENT= prescan
2132	(854)	ADDRESS	4	SX@PREFTGP	"V(PREFTGP)" JOB SPOOL=PERCENT= prescan
2136	(858)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
2140	(85C)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
2144	(860)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan
2148	(864)	ADDRESS	4	SX@PREJDSC	"V(PREJDSC)" JOB SRVCLASS= prescan $D
2152	(868)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan $T
2156	(86C)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
2160	(870)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
2164	(874)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
2168	(878)	ADDRESS	4	SX@PRENHOLD	"V(PRENHOLD)" JOB NHOLD= prescan
2172	(87C)	ADDRESS	4	SX@PSTNHOLD	"V(PSTNHOLD)" JOB NHOLD= postscan
2176	(880)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
2180	(884)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
2184	(888)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine
2188	(88C)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
2192	(890)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
2196	(894)	ADDRESS	4	SX@PREJHOLD	"V(PREJHOLD)" JOB Hold prescan
2200	(898)	ADDRESS	4	SX@PREHUSTB	"V(PREHUSTB)" JOB HOLDUNTL/STARTBY prescn
2204	(89C)	ADDRESS	4	SX@PRECATAF	"V(PRECATAF)" JOBCLASS QAFF= prescan
2208	(8A0)	ADDRESS	4	SX@PRECATA2	"V(PRECATA2)" JOBCLASS QAFF= prescan
2212	(8A4)	ADDRESS	4	SX@PRECAPAF	"V(PRECAPAF)" JOBCLASS QAFF= prescan
2216	(8A8)	ADDRESS	4	SX@PSTWSC	"V(PSTWSC)" SRVCLASS postscan
2220	(8AC)	ADDRESS	4	SX@PREWSCA2	"V(PREWSCA2)" SRVCLASS QAFF= prescan
2224	(8B0)	ADDRESS	4	SX@PREWSCAF	"V(PREWSCAF)" SRVCLASS QAFF= prescan
2228	(8B4)	ADDRESS	4	SX@PSTWQAFF	"V(PSTWQAFF)" SRVCLASS pstscan for QAFF
2232	(8B8)	ADDRESS	4	SX@PSTWTYPE	"V(PSTWTYPE)" SRVCLASS TYPE= postscan
2236	(8BC)	ADDRESS	4	SX@PREWSCCO	"V(PREWSCCO)" SRVCLASS COUNT= prescan
2240	(8C0)	ADDRESS	4	SX@PREWSCCT	"V(PREWSCCT)" SRVCLASS COUNT= prescan
2244	(8C4)	ADDRESS	4	SX@PREWSCMC	"V(PREWSCMC)" SRVCLASS MASCOUNT= prescan

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2248	(8C8)	ADDRESS	4	SX@CLNUPWSC	"V(CLNUPWSC)" SRVCLASS cleanup routine
2252	(8CC)	ADDRESS	4	SX@PRESRPAF	"V(PRESRPAF)" SRVCLASS ACTIVE= prescan
2256	(8D0)	ADDRESS	4	SX@PREQCHNG	"V(PREQCHNG)" AGE, HOURS, DAYS, SECONDS prescan
2260	(8D4)	ADDRESS	4	SX@PREXHOUR	"V(PREXHOUR)" Hours of job execution
2264	(8D8)	ADDRESS	4		Reserved for future use
2268	(8DC)	ADDRESS	4		Reserved for future use
2272	(8E0)	ADDRESS	4		Reserved for future use
2276	(8E4)	ADDRESS	4		Reserved for future use
2280	(8E8)	ADDRESS	4		Reserved for future use
2284	(8EC)	ADDRESS	4		Reserved for future use
2288	(8F0)	ADDRESS	4		Reserved for future use
2292	(8F4)	ADDRESS	4		Reserved for future use
Module HASPCSV exit routines					
2296	(8F8)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
2300	(8FC)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
2304	(900)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
2308	(904)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
2312	(908)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
2316	(90C)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
2320	(910)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan
2324	(914)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
2328	(918)	ADDRESS	4		Reserved for future use
2332	(91C)	ADDRESS	4		Reserved for future use
2336	(920)	ADDRESS	4		Reserved for future use
2340	(924)	ADDRESS	4		Reserved for future use
2344	(928)	ADDRESS	4		Reserved for future use
2348	(92C)	ADDRESS	4		Reserved for future use
2352	(930)	ADDRESS	4		Reserved for future use
2356	(934)	ADDRESS	4		Reserved for future use
2360	(938)	ADDRESS	4		Reserved for future use
2364	(93C)	ADDRESS	4		Reserved for future use
Module HASPMSG exit routines					
2368	(940)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" $HASP496 KEYWORD prescan
2372	(944)	ADDRESS	4	SX@PRE536	"V(PRE536)" $HASP536 prescan
2376	(948)	ADDRESS	4	SX@PRE542	"V(PRE542)" $HASP542 prescan
2380	(94C)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
2384	(950)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name

Table 539. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2388	(954)	ADDRESS	4	SX@MSG607TX	"V(MSG607TX)" $HASP607 prescan
2392	(958)	ADDRESS	4		Reserved for future use
2396	(95C)	ADDRESS	4		Reserved for future use
2400	(960)	ADDRESS	4		Reserved for future use
2404	(964)	ADDRESS	4		Reserved for future use
2408	(968)	ADDRESS	4		Reserved for future use
2412	(96C)	ADDRESS	4		Reserved for future use
2416	(970)	ADDRESS	4		Reserved for future use
2420	(974)	ADDRESS	4		Reserved for future use
2424	(978)	ADDRESS	4		Reserved for future use
Module HASPPCY exit routines					
2428	(97C)	ADDRESS	4	SX@PREJPERR	"V(PREJPERR)" $HASP1630 prescan
2432	(980)	ADDRESS	4		Reserved for future use
2436	(984)	ADDRESS	4		Reserved for future use
2440	(988)	ADDRESS	4		Reserved for future use
2444	(98C)	ADDRESS	4		Reserved for future use
2448	(990)	ADDRESS	4		Reserved for future use
2452	(994)	ADDRESS	4		Reserved for future use
2456	(998)	ADDRESS	4		Reserved for future use
2460	(99C)	ADDRESS	4		Reserved for future use
2464	(9A0)	ADDRESS	4		Reserved for future use
2468	(9A4)	ADDRESS	4		Reserved for future use
2468	(9A4)	X'9A8'	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

Table 540. Cross Reference for $SXADDR

Name	Offset	Hex Tag
SX@CLNPCY	2D8	
SX@CLNUPDJB	7C8	
SX@CLNUPJOE	728	
SX@CLNUPJQE	888	
SX@CLNUPPAD	4D4	
SX@CLNUPPRW	F0	
SX@CLNUPWSC	8C8	
SX@CVLDRAIN	308	
SX@MSG607TX	954	
SX@PFSQFREE	518	
SX@PFSQUERY	514	
SX@POSTNRM	684	
SX@PREABSTR	344	
SX@PREACMEM	44C	
SX@PREACTAS	124	
SX@PREACTM	94C	
SX@PREACTSZ	3E8	
SX@PREANETW	128	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREAPCE	120	
SX@PREAPNOD	654	
SX@PREAPPL	640	
SX@PREAPSTK	648	
SX@PREATTR	31C	
SX@PREAUTH	188	
SX@PREBRNUM	64	
SX@PREBRTBN	68	
SX@PREBRTCN	6C	
SX@PREBRTIC	70	
SX@PREBRTUS	74	
SX@PREBUFC	1C	
SX@PREBUFH	14	
SX@PRECAPAF	8A4	
SX@PRECAT	3C8	
SX@PRECATAF	89C	
SX@PRECATA2	8A0	
SX@PRECATI	3CC	
SX@PRECATTS	3D0	
SX@PRECKLEV	3C4	
SX@PRECKPT	28	
SX@PRECKPTN	2C	
SX@PRECKPTT	21C	
SX@PRECKSP	50	
SX@PRECKVRS	30	
SX@PRECLGCT	80	
SX@PRECLSGP	78	
SX@PRECMDR	2EC	
SX@PRECMEMB	664	
SX@PRECNODE	668	
SX@PRECONCT	658	
SX@PRECYLDS	350	
SX@PREDAUTH	184	
SX@PREDBADT	8	
SX@PREDCHAR	8C	
SX@PREDCOMP	84	
SX@PREDCRST	678	
SX@PREDDVJB	5C4	
SX@PREDDVRC	5C8	
SX@PREDELAY	828	
SX@PREDEMEM	218	
SX@PREDEPL	7E4	
SX@PREDESI	B0	
SX@PREDEST	AC	
SX@PREDEVDR	528	
SX@PREDEVID	428	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREDEVNM	144	
SX@PREDFLNO	4E4	
SX@PREDFSS	4FC	
SX@PREDIL	148	
SX@PREDJB	7C0	
SX@PREDJSAF	870	
SX@PREDJVOL	85C	
SX@PREDMOD	900	
SX@PREDMODX	904	
SX@PREDNEGZ	3BC	
SX@PREDNET	690	
SX@PREDNOCB	3C0	
SX@PREDNPM	674	
SX@PREDPRMD	59C	
SX@PREDPSWD	6E4	
SX@PREDPZPT	568	
SX@PREDQST	200	
SX@PREDRC	5B8	
SX@PREDRNE	824	
SX@PREDRNG	5AC	
SX@PREDRRC	5F8	
SX@PREDRSAF	5CC	
SX@PREDRSVD	340	
SX@PREDSAF	4BC	
SX@PREDSAFL	3E0	
SX@PREDSBEX	C8	
SX@PREDSESN	680	
SX@PREDSID	20C	
SX@PREDSLCT	550	
SX@PREDSPWD	6BC	
SX@PREDSSAF	30C	
SX@PREDSSI	374	
SX@PREDSTAT	5C0	
SX@PREDSTS	320	
SX@PREDUSEC	300	
SX@PREDUSEP	304	
SX@PREDVDRN	5F0	
SX@PREDVSTK	5B0	
SX@PREDWS	5E4	
SX@PREENCRS	36C	
SX@PREEOMCT	138	
SX@PREEVDUR	288	
SX@PREEXIT	BC	
SX@PREEXRTN	C4	
SX@PREFFCHK	420	
SX@PREFJSAF	874	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREFJVOL	860	
SX@PREFLHOT	424	
SX@PREFNODE	66C	
SX@PREFNPM	670	
SX@PREFOCLS	734	
SX@PREFOFFS	774	
SX@PREFOUTG	740	
SX@PREFPATH	6EC	
SX@PREFPRMD	5A0	
SX@PREFRC	5BC	
SX@PREFRRC	5FC	
SX@PREFSPAF	314	
SX@PREFSSDF	D0	
SX@PREFTGP	854	
SX@PREHLDRC	738	
SX@PREHOTS	3B8	
SX@PREHPCE	12C	
SX@PREHUSTB	898	
SX@PREINCL	E4	
SX@PREINECL	10C	
SX@PREINIT	F4	
SX@PREIPAD	6E8	
SX@PREIREA	130	
SX@PREISPOL	2F8	
SX@PREISPSF	310	
SX@PREISTC	3E4	
SX@PREJABS	814	
SX@PREJABU	818	
SX@PREJBDUP	800	
SX@PREJCKJO	75C	
SX@PREJCLAS	820	
SX@PREJCLMD	404	
SX@PREJCOR	7EC	
SX@PREJDEST	74C	
SX@PREJDMND	764	
SX@PREJDSC	864	
SX@PREJESLD	1B4	
SX@PREJESLS	1B0	
SX@PREJHOLD	894	
SX@PREJINIT	82C	
SX@PREJLOCK	790	
SX@PREJOAUP	724	
SX@PREJOBSY	730	
SX@PREJOE	720	
SX@PREJOERC	750	
SX@PREJOEUS	224	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREJOFFS	770	
SX@PREJOFRC	754	
SX@PREJOOFS	76C	
SX@PREJOSTA	758	
SX@PREJPERR	97C	
SX@PREJPRIF	834	
SX@PREJQAUP	80C	
SX@PREJQBSY	810	
SX@PREJQE	7F4	
SX@PREJQEPH	848	
SX@PREJQEXQ	844	
SX@PREJQOFS	768	
SX@PREJQPRI	830	
SX@PREJQRDS	804	
SX@PREJRBLD	1C8	
SX@PREJRCPG	748	
SX@PREJST	7F8	
SX@PREJSTAT	86C	
SX@PREJTGN	858	
SX@PREJTGP	850	
SX@PRELDED	64C	
SX@PRELDEV	458	
SX@PRELDFLT	470	
SX@PRELDNDE	474	
SX@PRELDVL	454	
SX@PRELFNDE	478	
SX@PRELIMIT	3A8	
SX@PRELINE	460	
SX@PRELINST	48C	
SX@PRELMLNG	158	
SX@PRELMMAS	15C	
SX@PRELMRAT	160	
SX@PRELMT	154	
SX@PRELNERS	488	
SX@PRELNSTK	46C	
SX@PRELOAD	8F8	
SX@PRELOADF	910	
SX@PRELOADR	908	
SX@PRELOADT	90C	
SX@PRELOLP	78C	
SX@PRELORDY	784	
SX@PRELOTOT	788	
SX@PRELRUSE	164	
SX@PRELSFRM	504	
SX@PRELTCNT	168	
SX@PRELTENT	16C	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PRELTRAT	170	
SX@PREMCKPT	950	
SX@PREMDEFD	204	
SX@PREMESYS	1E8	
SX@PREMIGDA	338	
SX@PREMPERC	33C	
SX@PREMSNM	220	
SX@PREMULFM	58C	
SX@PREMULRC	600	
SX@PREMZDSK	7D4	
SX@PREMZJOB	7CC	
SX@PREMZOD	7D0	
SX@PREMZODL	7D8	
SX@PRENACT	6B4	
SX@PRENDDEL	794	
SX@PRENDPAS	6B8	
SX@PRENDSTK	6C4	
SX@PRENFYS	1E0	
SX@PRENHOLD	878	
SX@PRENIPRT	51C	
SX@PRENNUM	6A8	
SX@PRENODE	6AC	
SX@PRENODES	6C0	
SX@PRENULL	3A0	
SX@PREODRDY	744	
SX@PREOFFCL	4C4	
SX@PREOGDJC	198	
SX@PREOGDOC	25C	
SX@PREOGDOS	254	
SX@PREOGDSR	4AC	
SX@PREOGDST	4B4	
SX@PREOJQX	760	
SX@PREOPACT	52C	
SX@PREOTGRP	73C	
SX@PREOUTJX	228	
SX@PREPCEDJ	278	
SX@PREPCEDN	270	
SX@PREPCEDT	26C	
SX@PREPCEFW	27C	
SX@PREPCETB	264	
SX@PREPCEWF	274	
SX@PREPCY	2D0	
SX@PREPDRPT	2AC	
SX@PREPDSRV	2B0	
SX@PREPIDNT	694	
SX@PREPIFNL	520	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREPITCL	100	
SX@PREPITRS	3DC	
SX@PREPMODE	508	
SX@PREPPATH	6D4	
SX@PREPRFCT	2C8	
SX@PREPRFDT	2CC	
SX@PREPRFFL	294	
SX@PREPRFNL	290	
SX@PREPRFPA	2A4	
SX@PREPRFPC	28C	
SX@PREPRFPS	298	
SX@PREPRFQA	2A8	
SX@PREPRFRS	280	
SX@PREPRFSU	284	
SX@PREPRFWA	2A0	
SX@PREPRFZR	2C4	
SX@PREPROCL	4CC	
SX@PREPRT	4DC	
SX@PREPSJB	FC	
SX@PREPSOCT	13C	
SX@PREPSTAT	6D8	
SX@PREPTF	914	
SX@PREPTVCL	104	
SX@PREPVIA	6D0	
SX@PREQCHNG	8D0	
SX@PREQSNOI	3B4	
SX@PREQSUSE	3B0	
SX@PRERDEST	5A4	
SX@PRERDEV	544	
SX@PRERDSTM	2E4	
SX@PRERDVAU	548	
SX@PREREGN	19C	
SX@PRERHELD	1F0	
SX@PRERMT	56C	
SX@PRERMTP	57C	
SX@PRERMTRC	560	
SX@PRERMTSH	580	
SX@PRERMTST	588	
SX@PRERNG	5A8	
SX@PRERPRPU	604	
SX@PRERPZPT	564	
SX@PRESAPCT	140	
SX@PRESBYS	84C	
SX@PRESDFRE	360	
SX@PRESDPCT	364	
SX@PRESHOST	6F0	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PRESJSAF	880	
SX@PRESKSTK	6E0	
SX@PRESNIFF	414	
SX@PRESOCK	6FC	
SX@PRESOKID	6F4	
SX@PRESPM	14C	
SX@PRESPOOL	2F4	
SX@PRESPST	32C	
SX@PRESRPAF	8CC	
SX@PRESVSES	49C	
SX@PRESZNET	688	
SX@PRETDFID	394	
SX@PRETPB	378	
SX@PRETPS	380	
SX@PRETRCDV	5F4	
SX@PRETRCID	398	
SX@PREUNIT	5DC	
SX@PREVOLT	4C	
SX@PREVTRC	484	
SX@PREWAITP	29C	
SX@PREWHEN	7DC	
SX@PREWSC	2B4	
SX@PREWSCA	2B8	
SX@PREWSCAF	8B0	
SX@PREWSCA2	8AC	
SX@PREWSCCO	8BC	
SX@PREWSCCT	8C0	
SX@PREWSCMC	8C4	
SX@PREXHOUR	8D4	
SX@PREXMEMB	134	
SX@PREXWA	22C	
SX@PREZAPJB	3F8	
SX@PREZJCUS	D8	
SX@PREZODCK	7E0	
SX@PREZPSEQ	42C	
SX@PREZRCHK	41C	
SX@PRE4STAR	77C	
SX@PRE496KY	940	
SX@PRE536	944	
SX@PRE542	948	
SX@PRE608	11C	
SX@PRPRESET	524	
SX@PSTACTIV	3EC	
SX@PSTADDR	10	
SX@PSTAPPL	644	
SX@PSTBADTR	C	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTBUFC	20	
SX@PSTBUFH	18	
SX@PSTCAT	1A4	
SX@PSTCATAC	180	
SX@PSTCATI	1A8	
SX@PSTCATNW	1AC	
SX@PSTCATSC	3F0	
SX@PSTCCM2	1FC	
SX@PSTCDCT	60C	
SX@PSTCDCTO	610	
SX@PSTCDCTS	614	
SX@PSTCF	48	
SX@PSTCFVQE	7FC	
SX@PSTCGROP	3D8	
SX@PSTCHARS	24	
SX@PSTCKLCK	5C	
SX@PSTCKMOD	58	
SX@PSTCKPSP	60	
SX@PSTCKPT	34	
SX@PSTCKPTN	38	
SX@PSTCKSPX	54	
SX@PSTCKVOL	44	
SX@PSTCKVRS	3C	
SX@PSTCLASV	108	
SX@PSTCLSGP	7C	
SX@PSTCMB	90	
SX@PSTCNCHR	98	
SX@PSTCOMP	88	
SX@PSTCONCT	65C	
SX@PSTCSCHE	3F4	
SX@PSTCSTAT	67C	
SX@PSTCYLDS	354	
SX@PSTDBUGA	A8	
SX@PSTDCNCT	660	
SX@PSTDDFCB	4EC	
SX@PSTDDSET	4D8	
SX@PSTDEBUG	A4	
SX@PSTDEFCL	1D8	
SX@PSTDESI	B4	
SX@PSTDEVST	150	
SX@PSTDFCB	4F4	
SX@PSTDJB	7C4	
SX@PSTDRHL	1F4	
SX@PSTDSBEX	CC	
SX@PSTDSN	40	
SX@PSTDUCS	510	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTDUPL	1D4	
SX@PSTDUPLC	1B8	
SX@PSTDWRKQ	324	
SX@PSTEMEM	214	
SX@PSTENCRS	370	
SX@PSTEST	B8	
SX@PSTEVTLS	1DC	
SX@PSTEXIT	C0	
SX@PSTFEN	34C	
SX@PSTFENO	35C	
SX@PSTFSNSP	534	
SX@PSTFSSDF	D4	
SX@PSTFSSET	538	
SX@PSTFSUPD	530	
SX@PSTFSYNC	53C	
SX@PSTGRPDF	DC	
SX@PSTHPRM	40C	
SX@PSTINCDS	EC	
SX@PSTINCL	E8	
SX@PSTINIT	F8	
SX@PSTINPDF	110	
SX@PSTIRTRC	450	
SX@PSTJBJNC	1C0	
SX@PSTJBNUM	1C4	
SX@PSTJCLMD	408	
SX@PSTJCOR	7F0	
SX@PSTJECDF	114	
SX@PSTJEXFL	840	
SX@PSTJGNUM	E0	
SX@PSTJOBCL	118	
SX@PSTJOBDF	1BC	
SX@PSTJOBNM	594	
SX@PSTJODSP	72C	
SX@PSTJONUM	244	
SX@PSTJQASC	890	
SX@PSTJQDSP	808	
SX@PSTJQPRI	838	
SX@PSTJQPST	190	
SX@PSTJRNG	1CC	
SX@PSTJSCHE	88C	
SX@PSTJSCLS	81C	
SX@PSTJSRVC	868	
SX@PSTLDED	650	
SX@PSTLDSR	230	
SX@PSTLGNA	494	
SX@PSTLIMIT	3AC	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTLIM1	3A4	
SX@PSTLINE	464	
SX@PSTLINEA	468	
SX@PSTLINST	490	
SX@PSTLMPRV	174	
SX@PSTLMT	178	
SX@PSTLOAD	8FC	
SX@PSTLSPIN	38C	
SX@PSTLTRSS	480	
SX@PSTLTRST	47C	
SX@PSTMASDF	1F8	
SX@PSTMDRC	4B0	
SX@PSTMDSAF	4B8	
SX@PSTMESYS	1EC	
SX@PSTMIND	210	
SX@PSTMZOD	7E8	
SX@PSTNCHG	6CC	
SX@PSTNETAC	698	
SX@PSTNFYS	1E4	
SX@PSTNHOLD	87C	
SX@PSTNJEC	6A4	
SX@PSTNLM	6A0	
SX@PSTNODE	6B0	
SX@PSTNOTAB	390	
SX@PSTNRT	69C	
SX@PSTNTRSS	4A8	
SX@PSTNTRST	4A4	
SX@PSTNVFY	6C8	
SX@PSTOARCH	4C8	
SX@PSTOGDJC	194	
SX@PSTOGDOC	260	
SX@PSTOGDOS	258	
SX@PSTOUTDF	234	
SX@PSTOUTDO	238	
SX@PSTOUTJX	240	
SX@PSTOUTSO	23C	
SX@PSTPCETB	268	
SX@PSTPCY	2D4	
SX@PSTPJQUE	83C	
SX@PSTPMEM	410	
SX@PSTPRDFL	4E8	
SX@PSTPREFX	94	
SX@PSTPRFCB	4F0	
SX@PSTPRFLS	4F8	
SX@PSTPRMD	598	
SX@PSTPROCL	4D0	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTPRT	4E0	
SX@PSTPRTDF	2DC	
SX@PSTPRTY	1D0	
SX@PSTPRUCS	50C	
SX@PSTPRYO	248	
SX@PSTPUN	540	
SX@PSTQHPST	18C	
SX@PSTRC	5B4	
SX@PSTRDCHR	9C	
SX@PSTRDEV	55C	
SX@PSTRDSTM	2E8	
SX@PSTRDVCM	554	
SX@PSTRDVCO	558	
SX@PSTRECV	2E0	
SX@PSTREGN	1A0	
SX@PSTRMT	570	
SX@PSTRMTA	574	
SX@PSTRMTLN	578	
SX@PSTRMTSH	584	
SX@PSTROPT	24C	
SX@PSTRPRPU	608	
SX@PSTSAF	4C0	
SX@PSTSBMDD	618	
SX@PSTSCOPE	A0	
SX@PSTSEGLM	250	
SX@PSTSELCT	54C	
SX@PSTSFSS	500	
SX@PSTSICE	388	
SX@PSTSJSAF	884	
SX@PSTSMENV	17C	
SX@PSTSMFD	2F0	
SX@PSTSNAME	208	
SX@PSTSNIFF	418	
SX@PSTSOCK	6DC	
SX@PSTSOFFS	778	
SX@PSTSOKST	6F8	
SX@PSTSPDSN	318	
SX@PSTSPDVL	368	
SX@PSTSPL	358	
SX@PSTSPLDF	348	
SX@PSTSPOOL	2FC	
SX@PSTSPSAF	328	
SX@PSTSPSTX	330	
SX@PSTSPTAR	334	
SX@PSTSRSAF	5D0	
SX@PSTSRSF2	5D4	

Table 540. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTSRVA	498	
SX@PSTSTMOD	780	
SX@PSTSVSCK	4A0	
SX@PSTSZNET	68C	
SX@PSTTPB	37C	
SX@PSTTPS	384	
SX@PSTTRANS	45C	
SX@PSTTRCDV	5EC	
SX@PSTTRFLT	39C	
SX@PSTUNIT	5D8	
SX@PSTVJBID	400	
SX@PSTVOL	5E0	
SX@PSTWFORM	590	
SX@PSTWQAFF	8B4	
SX@PSTWS	5E8	
SX@PSTWSC	8A8	
SX@PSTWSCA	2BC	
SX@PSTWSCB	2C0	
SX@PSTWTYPE	8B8	
SX@PSTZAPJB	3FC	
SXADDR	0	
SXADDRID	0	E2E7C1C4
SXADDRLN	9A4	9A8
SXADDRV	4	
SXADDRVN	4	1

$SYMCB information

$SYMCB heading information

Common name: $SYMREC main control block

Macro ID: $SYMCB

DSECT name: SYM

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'SYM '
Offset: SYMID-SYM
Length: 4

Storage attributes: Subpool: 0
Key: 0
Residency: Virtual and real storage are anywhere (above or below the 16M line).

Size: See SYMLEN

Created by: $SYMREC service

Pointed to by: N/A

Serialization: None.

Function: This control block contains a work area for the $SYMREC service followed by the space for a maximum size symptom record

$SYMCB mapping

Table 541. Structure SYM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYM	
0	(0)	CHARACTER	4	SYMID	Control block ID
4	(4)	ADDRESS	1	SYMLEVEL	Control block version
		.... ..1.		SYMVERSN	"X'02'" Control block version EQU
5	(5)	BITSTRING	1	SYMFLAG1	SYMREC control flags
		1...		SYM1NMSG	"B'10000000'" Suppress DEBUG message
6	(6)	BITSTRING	2		RESERVED
		Table of addresses of control blocks defined by CBDEFs			
8	(8)	ADDRESS	4	SYMCB1	Control block #1 address
12	(C)	ADDRESS	4	SYMCB2	Control block #2 address
16	(10)	ADDRESS	4	SYMCB3	Control block #3 address
20	(14)	ADDRESS	4	SYMCB4	Control block #4 address
24	(18)	ADDRESS	4	SYMCB5	Control block #5 address
28	(1C)	ADDRESS	4	SYMCB6	Control block #6 address
32	(20)	ADDRESS	4	SYMCB7	Control block #7 address
36	(24)	ADDRESS	4	SYMCB8	Control block #8 address
40	(28)	ADDRESS	4	SYMCB9	Control block #9 address
44	(2C)	ADDRESS	4	SYMCB10	Control block #10 address
48	(30)	ADDRESS	4	SYMCBBAS	Address of base control block
		Registers R2-R13 that were current when the $SYMREC macro was invoked.			
52	(34)	SIGNED	4	SYMCLR2	Callers register 2 data
56	(38)	SIGNED	4	SYMCLR3	Callers register 3 data
60	(3C)	SIGNED	4	SYMCLR4	Callers register 4 data
64	(40)	SIGNED	4	SYMCLR5	Callers register 5 data
68	(44)	SIGNED	4	SYMCLR6	Callers register 6 data
72	(48)	SIGNED	4	SYMCLR7	Callers register 7 data
76	(4C)	SIGNED	4	SYMCLR8	Callers register 8 data
80	(50)	SIGNED	4	SYMCLR9	Callers register 9 data
84	(54)	SIGNED	4	SYMCLR10	Callers register 10 data
88	(58)	SIGNED	4	SYMCLR11	Callers register 11 data
92	(5C)	SIGNED	4	SYMCLR12	Callers register 12 data
96	(60)	SIGNED	4	SYMCLR13	Callers register 13 data
		Bits set by the TYPE=COND keyword of the $SYMTAB macro			
100	(64)	BITSTRING	1	SYMBYTE1	Condition byte 1 (bits 1-8)
101	(65)	BITSTRING	1	SYMBYTE2	Condition byte 2 (bits 9-16)
102	(66)	BITSTRING	2		Reserved for future use
104	(68)	ADDRESS	4	SYMCURP	Current data pointer
108	(6C)	ADDRESS	4	SYMSTRTP	Pointer to start of current section
112	(70)	DBL WORD	8	SYMGWORK(0)	General work area
112	(70)	SIGNED	4	SYMHEXP(0)	Parm list for HEXCNVT

Table 541. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
112	(70)	ADDRESS	4	SYMHEXPI	+0 address of input area
116	(74)	ADDRESS	4	SYMHEXPO	+4 address of output area
120	(78)	SIGNED	2	SYMHEXPL	+8 Length of input area
122	(7A)	BITSTRING	10		+10 Work area for convert
112	(70)	DBL WORD	8	SYMDWORK	Work area for CVD
120	(78)	BITSTRING	12	SYMWORK2	Work area for edit instruction
	MACDATE = 06/12/85				
112	(70)	SIGNED	4	(0)	ALIGN THE LIST TO WORD BOUNDARY
112	(70)	CHARACTER	16	SYMRECL(0)	
112	(70)	BITSTRING	1	ASR1475L	LEVEL AND VERSION OF SYMREC MACRO
113	(71)	BITSTRING	3	ASR1475O	RESERVED
116	(74)	ADDRESS	4	ASR1475S	ADDRESS OF SYMPTOM RECORD
120	(78)	BITSTRING	8	ASR1475R	RESERVED
112	(70)	SIGNED	4	SYMMAP(0)	MODMAP-STYLE ENTRY
132	(84)	ADDRESS	4	SYMCNVTH	Address of convert routine to HEX
	Actual symptom record				
136	(88)	BITSTRING	1900	SYMSYMR	Symtom record storage
136	(88)	X'D0'	0	SYMLEN3	"SYMSYMR+ADSRDBL-ADSR" Length of section 3
136	(88)	X'D2'	0	SYMOFF3	"SYMSYMR+ADSRDBO-ADSR" Offset to section 3
136	(88)	X'D4'	0	SYMLEN4	"SYMSYMR+ADSRROSL-ADSR" Length of section 4
136	(88)	X'D6'	0	SYMOFF4	"SYMSYMR+ADSRROSA-ADSR" Offset to section 4
136	(88)	X'D8'	0	SYMLEN5	"SYMSYMR+ADSRRONL-ADSR" Length of section 5
136	(88)	X'DA'	0	SYMOFF5	"SYMSYMR+ADSRRONA-ADSR" Offset to section 5
2036	(7F4)	BITSTRING	1	SYMSYME(0)	End of symptom record
	Text for DEBUG WTO				
2036	(7F4)	BITSTRING	120	SYMCBMSG	Work area for WTO text
2160	(870)	DBL WORD	8	(0)	Ensure Double Word length
2160	(870)	X'870'	0	SYMLEN	"*-SYM" Length of storage
	Equates for SYMPTOM keys in section 5. Certain key ranges have specific meanings. The following table describes the defined ranges: Key range User category and data type 0001-00FF Reserved 0100-0FFF MVS System programs 1000-18FF VM System programs 1900-1FFF DOS/VSE System programs 2000-BFFF Reserved C900-CFFF Program products and non-printable HEX data D000-DFFF Program products and printable EBCDIC data E900-EFFF Reserved F000 Any program and printable EBCDIC F001-F0FF Not assigned F100-FEFF Reserved FF00 Any program and non-printable EBCDIC data FF01-FFFF Not assigned JES2 uses keys in the 0100-0FFF range				

Table 541. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2160	(870)	BITSTRING	0	SYKBUFF	"X'0100'" Buffer contents
2160	(870)	BITSTRING	0	SYKJQE	"X'0101'" JQE contents
2160	(870)	BITSTRING	0	SYKJCT	"X'0102'" JCT contents
2160	(870)	BITSTRING	0	SYKNCC	"X'0103'" NCC record
2160	(870)	BITSTRING	0	SYKNTQ	"X'0104'" NTQ contents
2160	(870)	BITSTRING	0	SYKSWBM	"X'0105'" SJF SJSMP (SWBTU_MERGE) contents
2160	(870)	BITSTRING	0	SYKSJSP	"X'0106'" SJF SJTSP (SWBTUREQ SPLIT)
2160	(870)	BITSTRING	0	SYKSMSU	"X'0107'" SWB Modify Subtask parms
2160	(870)	BITSTRING	0	SYKNMR	"X'0108'" NMR CONTENTS
2160	(870)	BITSTRING	0	SYKWTOPL	"X'0109'" $WTO PARM LIST CONTENTS
2160	(870)	BITSTRING	0	SYKNJH	"X'010A'" Network Header contents
2160	(870)	BITSTRING	0	SYKSMF	"X'010B'" SMF $CPOOL info
2160	(870)	BITSTRING	0	SYKX15	"X'010C'" Exit 15 parm list
2160	(870)	BITSTRING	0	SYKMQT	"X'010D'" MQT for SPOOL management
2160	(870)	BITSTRING	0	SYKSIGE	"X'010E'" Expected signature record
2160	(870)	BITSTRING	0	SYKSIGA	"X'010F'" Actual signature record
2160	(870)	BITSTRING	0	SYKF256	"X'0110'" First 256 bytes of first block of failing trkgrp
2160	(870)	BITSTRING	0	SYKICE	"X'0111'" ICE contents
2160	(870)	BITSTRING	0	SYKICEAD	"X'0112'" ICE address
2160	(870)	BITSTRING	0	SYKBERT	"X'0113'" BERT data
2160	(870)	BITSTRING	0	SYKBRTAD	"X'0114'" BERT address
2160	(870)	BITSTRING	0	SYKPDD	"X'0115'" DD name of dataset
2160	(870)	BITSTRING	0	SYKPCNT	"X'0116'" Job total counts
2160	(870)	BITSTRING	0	SYKJQEO	"X'0117'" JQE contents of signature record JQE
2160	(870)	BITSTRING	0	SYKMTTR	"X'0118'" MTTR associated with error
2160	(870)	BITSTRING	0	SYKNJET	"X'0119'" $NJETRC trace table
2160	(870)	BITSTRING	0	SYKMQTR	"X'011A'" MQTR associated with error
2160	(870)	BITSTRING	0	SYKSJIOB	"X'011B'" SJIOB associated with error
2160	(870)	BITSTRING	0	SYKDAS	"X'011C'" DAS associated with error
2160	(870)	BITSTRING	0	SYKDASTR	"X'011D'" Target DAS if SPOOL migr
2160	(870)	BITSTRING	0	SYKPSV	"X'011E'" PSV format save area
2160	(870)	BITSTRING	0	SYKPSVAR	"X'011F'" PSV format AR save area
2160	(870)	BITSTRING	0	SYKBTE	"X'0120'" Bad track entry (BTE)
2160	(870)	BITSTRING	0	SYKBAT	"X'0121'" BAT associated with error
2160	(870)	BITSTRING	0	SYKENFRC	"X'0122'" ENFREQ RC value
2160	(870)	BITSTRING	0	SYKENFSG	"X'0123'" ENFREQ signal
2160	(870)	BITSTRING	0	SYKCKA	"X'0124'" CKPT CKA data area
2160	(870)	BITSTRING	0	SYKCKIP	"X'0125'" CKPT CKIP data area
2160	(870)	BITSTRING	0	SYKCCWA	"X'0126'" CCW area address
2160	(870)	BITSTRING	0	SYKCCWS	"X'0127'" CCW area contents
2160	(870)	BITSTRING	0	SYKCDATA	"X'0128'" CCW data areas address
2160	(870)	BITSTRING	0	SYKCDAT	"X'0129'" CCW data areas contents
2160	(870)	BITSTRING	0	SYKDSN	"X'012A'" Data set name

Table 541. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2160	(870)	BITSTRING	0	SYKVOL	"X'012B'" Volume Serial
2160	(870)	BITSTRING	0	SYKDEB	"X'012C'" DEB contents
2160	(870)	BITSTRING	0	SYKDXPRM	"X'012D'" Define Extent parms
2160	(870)	BITSTRING	0	SYKWSCNM	"X'012E'" WSC block in error
2160	(870)	BITSTRING	0	SYKWSCLB	"X'012F'" Label where WSC error found
2160	(870)	BITSTRING	0	SYKWSCOV	"X'0130'" Old value
2160	(870)	BITSTRING	0	SYKWSCRV	"X'0131'" Good value (replacing old)
2160	(870)	BITSTRING	0	SYKRECLN	"X'0132'" Record length

Table 542. Cross Reference for $SYMCB

Name	Offset	Hex Tag
ASR1475L	70	1
ASR1475O	71	0
ASR1475R	78	0
ASR1475S	74	
SYKBAT	870	121
SYKBERT	870	113
SYKBRTAD	870	114
SYKBTE	870	120
SYKBUFF	870	100
SYKCCWA	870	126
SYKCCWS	870	127
SYKCDAT	870	129
SYKCDATA	870	128
SYKCKA	870	124
SYKCKIP	870	125
SYKDAS	870	11C
SYKDASTR	870	11D
SYKDEB	870	12C
SYKDSN	870	12A
SYKDXPRM	870	12D
SYKENFRC	870	122
SYKENFSG	870	123
SYKF256	870	110
SYKICE	870	111
SYKICEAD	870	112
SYKJCT	870	102
SYKJQE	870	101
SYKJQEO	870	117
SYKMQT	870	10D
SYKMQTR	870	11A
SYKMTTR	870	118
SYKNCC	870	103
SYKNJET	870	119
SYKNJH	870	10A

Table 542. Cross Reference for $SYMCB (continued)

Name	Offset	Hex Tag
SYKNMR	870	108
SYKNTQ	870	104
SYKPCNT	870	116
SYKPDD	870	115
SYKPSV	870	11E
SYKPSVAR	870	11F
SYKRECLN	870	132
SYKSIGA	870	10F
SYKSIGE	870	10E
SYKSJIOB	870	11B
SYKSJSP	870	106
SYKSMF	870	10B
SYKSMSU	870	107
SYKSWBM	870	105
SYKVOL	870	12B
SYKWSCLB	870	12F
SYKWSCNM	870	12E
SYKWSCOV	870	130
SYKWSCRV	870	131
SYKWTOPL	870	109
SYKX15	870	10C
SYM	0	
SYMBYTE1	64	
SYMBYTE2	65	
SYMCBBAS	30	
SYMCBMSG	7F4	
SYMCB1	8	
SYMCB10	2C	
SYMCB2	C	
SYMCB3	10	
SYMCB4	14	
SYMCB5	18	
SYMCB6	1C	
SYMCB7	20	
SYMCB8	24	
SYMCB9	28	
SYMCLR10	54	
SYMCLR11	58	
SYMCLR12	5C	
SYMCLR13	60	
SYMCLR2	34	
SYMCLR3	38	
SYMCLR4	3C	
SYMCLR5	40	
SYMCLR6	44	
SYMCLR7	48	

Table 542. Cross Reference for $SYMCB (continued)

Name	Offset	Hex Tag
SYMCLR8	4C	
SYMCLR9	50	
SYMCNVTH	84	
SYMCURP	68	
SYMDWORK	70	
SYMFLAG1	5	
SYMGWORK	70	
SYMHEXP	70	
SYMHEXPI	70	
SYMHEXPL	78	
SYMHEXPO	74	
SYMID	0	E2E8D440
SYMLEN	870	870
SYMLEN3	88	D0
SYMLEN4	88	D4
SYMLEN5	88	D8
SYMLEVEL	4	
SYMMAP	70	
SYMOFF3	88	D2
SYMOFF4	88	D6
SYMOFF5	88	DA
SYMRECL	70	
SYMSTRTP	6C	
SYMSYME	7F4	
SYMSYMR	88	
SYMVERSN	4	2
SYMWORK2	78	
SYM1NMSG	5	80

$S35D information

$S35D programming interface information

$S35D is a programming interface.

$S35D heading information

Common name: WTO (SVC 35) work area DSECT

Macro ID: $S35D

DSECT name: S35DSECT

Owning component: JES2 (SC1BH)

Eye-catcher ID:
S35D Job log message
S35S Message from another address space
S35R Reply command
Offset: S35DID-S35DSECT
Length: L'S35DID

Storage attributes:
Subpool: N/A
Key: 1
Residency: In the xxxxWTO data space

Size: See S35DL

Created by: HASCSIRQ during REPLY command processing (SSICMD)
HASCSIRQ during WTO exit processing (SSIWTA)

Pointed to by: S35DPREV field of the S35D data area
S35DNEXT field of the S35D data area
TINHEAD field of the TINA data area
TINTAIL field of the TINA data area
TREWTAWA field of the TRE data area

Serialization: FIFOENQ, FIFODEQ, FIFOBLK

Function: This DSECT represents a message that is to be placed into the JOB LOG of a job. This area is obtained by:
SSIWTA for WTOs and WTORs issued by an address space
SSICMD for reply commands

$S35D mapping

Table 543. Structure S35DSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	S35DSECT	
0	(0)	CHARACTER	4	S35DID	Eyecatcher (see above)
4	(4)	ADDRESS	4	S35DNEXT	Pointer to next buffer
8	(8)	ADDRESS	4	S35DPREV	Address of prior buffer
12	(C)	SIGNED	2	S35DMSGL	LENGTH OF TEXT IN LOG BUFFER
14	(E)	CHARACTER	146	S35DMSG(0)	MESSAGE AREA
14	(E)	CHARACTER	8	S35DTIME	HH.MM.SS
14	(E)	CHARACTER	2		Indent id 2 characters
16	(10)	CHARACTER	4	S35DMCON	Connect id for minor WQE
22	(16)	CHARACTER	1		
23	(17)	CHARACTER	8	S35DJOB	JOB NNNN
31	(1F)	CHARACTER	1		
32	(20)	CHARACTER	1	S35DACTF	
33	(21)	CHARACTER	1	S35DTEXT(0)	Start of text
33	(21)	X'9'	0	S35HIDL	"9" SIZE OF HASP ID PORTION OF TEXT
33	(21)	CHARACTER	1	S35DHID	HASPXXX-
33	(21)	X'1C'	0	S35DFILL	"*-S35DMSG" Length to indent message
42	(2A)	CHARACTER	8	S35DJOBN	JOBNAME
50	(32)	CHARACTER	1		
50	(32)	X'6D'	0	S35DTXTL	"(S35DMSG+L'S35DMSG-*)"
51	(33)	CHARACTER	109	S35DTXT	Message text
160	(A0)	SIGNED	2	S35DTMSL	Total message length
162	(A2)	SIGNED	2	S35DMS2L	Length of 2nd half of msg
164	(A4)	ADDRESS	4	S35DMS2P	Start of 2nd half of msg
168	(A8)	BITSTRING	1	S35DFLG1	Flag byte
		1...		S35DSPLT	"B'10000000'" Message is to be split
		.1..		S35DJOBI	"B'01000000'" JOBID needs to be added
		..1.		S35DSUPP	"B'00100000'" WTO was suppressed
172	(AC)	SIGNED	4	(0)	
172	(AC)	BITSTRING	16	S35DTMST(0)	<--+ Time associated with msg
172	(AC)		8	S35DTME	| Time in HHMMSSthmiju0000
180	(B4)		4	S35DDATE	| Date in 0YYYYDDD
184	(B8)	SIGNED	4		<--+ Reserved (must be 0)

Table 543. Structure S35DSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
188	(BC)	SIGNED	4	S35CNSID	Console id for message
192	(C0)	DBL WORD	8	S35DSTCK	STCK timestamp of a message
192	(C0)	X'84'	0	S35DMAX	"132" Maximum log lrecl size
200	(C8)	DBL WORD	8	(0)	
200	(C8)	X'C8'	0	S35DL	"*-S35DSECT" LENGTH OF WORK AREA
200	(C8)	X'FF'	0	S35SP	"255" SUBPOOL FOR WORK AREA

Table 544. Cross Reference for $S35D

Name	Offset	Hex Tag
S35CNSID	BC	
S35DACTF	20	
S35DDATE	B4	
S35DFILL	21	1C
S35DFLG1	A8	
S35DHID	21	
S35DID	0	E2F3F5A7
S35DJOB	17	
S35DJOBI	A8	40
S35DJOBN	2A	
S35DL	C8	C8
S35DMAX	C0	84
S35DMCON	10	
S35DMSG	E	
S35DMSGL	C	
S35DMS2L	A2	
S35DMS2P	A4	
S35DNEXT	4	
S35DPREV	8	
S35DSECT	0	
S35DSPLT	A8	80
S35DSTCK	C0	
S35DSUPP	A8	20
S35DTEXT	21	
S35DTIME	E	
S35DTME	AC	
S35DTMSL	A0	
S35DTMST	AC	
S35DTXT	33	
S35DTXTL	32	6D
S35HIDL	21	9
S35SP	C8	FF

$TAB information

$TAB programming interface information

$TAB is a programming interface.

$TAB heading information

Common name:	HASP Track Allocation Block DSECT
Macro ID:	$TAB
DSECT name:	TAB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	See TABLNGTH
Created by:	$TABs are created when the data area into which they are imbedded are created.
Pointed to by:	$TABs are imbedded in the $IOT or $SDB data areas
Serialization:	In the user environment, updates are via PLO if there are records remaining in the TAB and via ENQ if there are no records remaining in the TAB. See routine $STRAK in HASCSRIC for details. In the JES2 environment, main task serialization is all that is required.
Function:	The TAB describes a information needed to track the allocation of SPOOL space to a job or a data set. TABs are created as part of another control ($SDB or $IOT) and do not exist as separate control blocks.

$TAB mapping

Table 545. Structure TAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TAB	, TRACK ALLOCATION BLOCK
0	(0)	SIGNED	4	TABMTTR	Last allocated buffer (must end up DWORD aligned for a PLO)
4	(4)	BITSTRING	1	TABFLAG	FLAG BYTE
		....		TABMINOR	"B'00000000'" NON-TRACK-CELLED -- PDDB LEVEL
		.1..		TABMAJOR	"B'01000000'" TRACK-CELLED -- PDDB LEVEL
		11..		TABMASTR	"B'11000000'" NON-TRACK-CELLED -- JOB LEVEL
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	TABMAXR	MAX RECD NBR ON TRACK
7	(7)	BITSTRING	1	TABUFCNT	NBR BUFFERS LEFT IN CELL
7	(7)	X'4'	0	TABRCPBA	"TABFLAG,*-TABFLAG" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES
8	(8)	SIGNED	4	TABAIOT	ADDR OF ALLOCATION IOT
8	(8)	X'C'	0	TABLNGTH	"*-TAB" TAB DSECT LENGTH

Table 546. Cross Reference for $TAB

Name	Offset	Hex Tag
TAB	0	

Table 546. Cross Reference for $TAB (continued)

Name	Offset	Hex Tag
TABAIOT	8	
TABFLAG	4	
TABLNGTH	8	C
TABMAJOR	4	40
TABMASTR	4	C0
TABMAXR	6	
TABMINOR	4	0
TABMTTR	0	
TABRCPBA	7	4
TABUFCNT	7	

$TED information

$TED heading information

Common name: Trace Enablement Descriptor

Macro ID: $TED

DSECT name: TED

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'TED '
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual is in 31 bit common storage. Real storage can be anywhere in 64 bit storage

Size: See the TEDLEN equate (plus an 8 byte prefix)

Created by: HASPIRSI

Pointed to by: CCTTED field of the $HCCT data area

Serialization: None required

Function: The $TED DSECT maps the data areas needed to determine if a particular trace is active and if so, what filters may apply to that trace.
The $TED has a basic header followed by an array of 256 entries that specify the characteristics for all possible trace entries.

$TED mapping

Table 547. Structure TED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TED	
0	(0)	ADDRESS	1	TEDVERS	Version number of TED
0	(0)	X'1'	0	TEDVERSN	"1,1,C'X'" Current version number
1	(1)	BITSTRING	1	TEDTRFLG	Trace facility flag byte
		1...		TEDTRACT	"B'10000000'" Event tracing activated
		.1..		TEDTRLOG	"B'01000000'" Event trace log active
2	(2)	BITSTRING	2		Reserved
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	TEDTRBTH(0)	---+ Next 2 fields stay together

Table 547. Structure TED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	TEDTRTBL	| Address of current trace table
12	(C)	ADDRESS	4	TEDTRLGG	---+ Addr of table being logged
16	(10)	ADDRESS	4	TEDTRPLG	Addr of previous log table
20	(14)	SIGNED	4	TEDTRSIZ	Trace table size (in bytes)
24	(18)	DBL WORD	8	TEDTRTOT(0)	---+ Next two fields are CDS
24	(18)	SIGNED	4	TEDTRRLC	| Count of recent discards
28	(1C)	SIGNED	4	TEDTRCTL	---+ Count of total discards
32	(20)	SIGNED	4	TEDTRCUR	Count of current trace tables
36	(24)	SIGNED	4	TEDTRNEW	Count of target trace tables
40	(28)	SIGNED	4	TEDTRFRE	Count of free trace tables
44	(2C)	ADDRESS	4	TEDDM654	Address of domid for 654 msg
48	(30)	SIGNED	4	TEDTM654	Time the 654 msg was issued
52	(34)	ADDRESS	2	TEDTRCPG	TRACEDEF PAGES= parameter
54	(36)	ADDRESS	2	TEDTRCWP	HASP050 warning percentage
56	(38)	SIGNED	4	TEDTRLGS	Trace log spin size, in lines
60	(3C)	CHARACTER	1	TEDTRCLS	Trace log sysout class
61	(3D)	ADDRESS	3		Reserved for future use
64	(40)	ADDRESS	8	TEDRJQE	Addr JQE Rolling Trace Tbl
72	(48)	ADDRESS	8	TEDRJOE	Addr JOE Rolling Trace Tbl
80	(50)	ADDRESS	8	TEDRDISP	Dispatcher rolling trace tb
88	(58)	ADDRESS	8	TEDRSAPI	SAPI rolling trace table
96	(60)	ADDRESS	8	TEDRCKPT	CKPT rolling trace table
104	(68)	ADDRESS	8	TEDRQGET	QGET rolling trace table
112	(70)	SIGNED	4	(0)	
112	(70)	BITSTRING	1	TEDTRIDS	Descriptors for each trace entry
112	(70)	X'88'	0	TEDTIDTB	"TEDTRIDS+TEDELEN" Trace ID=1-255. (ID=0 is used internally for discarding)
6256	(1870)	DBL WORD	8	(0)	Align on a double word
6256	(1870)	X'1870'	0	TEDLEN	"*-TED" Length of the TED

Table 548. Structure TEDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TEDE	, Trace descriptor entry
		The TEDTRFL1 flag serve a dual purpose. The trace id bit definitions start with bit 0 and use increasing bit numbers while the SSI function bit definitions start at bit 7 and use decreasing bit numbers. Unused bits in the middle are reserved for future use.			
0	(0)	BITSTRING	1	TEDTRFL1	TRACE/SSI flag byte
		1...		TEDTRDEF	"B'10000000'" Trace id is defined
		.1..		TEDTRDON	"B'01000000'" Trace id is being traced
		1		TEDSSION	"B'00000001'" SSI function being traced

Table 548. Structure TEDE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Filtering is done by ensuring that if any of the TEDFILTR bits are on, then the current environment must match one of the conditions specified. If filtering is active (one of the TEDFILTR bits is on), then if any of TEDLIMTR bits are on, then current environment must match all of the conditions specified (in addition to one of the condition indicated by TEDFILTR)			
1	(1)	BITSTRING	1	TEDFILTR	Filtering flag byte (OR filtering)
		1...		TEDFJOBN	"B'10000000'" Filter on job name
		.1..		TEDFJNUM	"B'01000000'" Filter on job number
		..1.		TEDFASID	"B'00100000'" Filter on ASID
2	(2)	BITSTRING	1	TEDLIMTR	Additional LIMITs (AND filtering)
		1...		TEDLTCBA	"B'10000000'" Limit to specified TCB
3	(3)	BITSTRING	1		Reserved
4	(4)	CHARACTER	8	TEDJOBNM	Job name to filter on
12	(C)	SIGNED	4	TEDJBNUM	Job number to filter on
16	(10)	SIGNED	4	TEDTCBA	TCB address to limit tracing
20	(14)	ADDRESS	2	TEDASID	ASID to filter on
24	(18)	SIGNED	4	(0)	Align on full word
24	(18)	X'18'	0	TEDELEN	"*-TEDE" Length of an entry

Table 549. Cross Reference for $TED

Name	Offset	Hex Tag
TED	0	
TEDASID	14	
TEDDM654	2C	
TEDE	0	
TEDELEN	18	18
TEDFASID	1	20
TEDFILTR	1	0
TEDFJNUM	1	40
TEDFJOBN	1	80
TEDJBNUM	C	
TEDJOBNM	4	
TEDLEN	1870	1870
TEDLIMTR	2	0
TEDLTCBA	2	80
TEDRCKPT	60	
TEDRDISP	50	
TEDRJOE	48	
TEDRJQE	40	
TEDRQGET	68	
TEDRSAPI	58	
TEDSSION	0	1
TEDTCBA	10	
TEDTIDTB	70	88
TEDTM654	30	

Table 549. Cross Reference for $TED (continued)

Name	Offset	Hex Tag
TEDTRACT	1	80
TEDTRBTH	8	
TEDTRCLS	3C	
TEDTRCPG	34	
TEDTRCTL	1C	
TEDTRCUR	20	
TEDTRCWP	36	
TEDTRDEF	0	80
TEDTRDON	0	40
TEDTRFLG	1	0
TEDTRFL1	0	0
TEDTRFRE	28	
TEDTRIDS	70	
TEDTRLGG	C	
TEDTRLGS	38	
TEDTRLOG	1	40
TEDTRNEW	24	
TEDTRPLG	10	
TEDTRRLC	18	
TEDTRSIZ	14	
TEDTRTBL	8	
TEDTRTOT	18	
TEDVERS	0	
TEDVERSN	0	1

$TEWA information

$TEWA heading information

Common name: Timed Event Work Area

Macro ID: $TEWA

DSECT name: TEWA

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$TEWA'
Offset: 0
Length: 8

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See TEWALEN

Created by: HASPNUC

Pointed to by: - PCBTEWA in $PERFCB.

Serialization: - None

Function: The $TEWA contains storage used by the MTTR Timed Event Data processing.

$TEWA mapping

Table 550. Structure TEWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TEWA	
0	(0)	CHARACTER	8	TEWA_ACRO	Eye catcher $TEWA
8	(8)	BITSTRING	16	TEWA_TOKEN	Token
24	(18)	BITSTRING	216	TEWA_SAVEAREA	Savearea for IEATEDS service
240	(F0)	ADDRESS	4	TEWA_PCESAVE	Savearea for PCE address
244	(F4)	CHARACTER	8	TEWA_THREAD	Saved Thread Name
252	(FC)	CHARACTER	32	TEWA_DATA	Work area
252	(FC)	X'FC'	0	TEWA_DATA16	"TEWA_DATA,16,C'X'" Data to pass to IEATEDS
288	(120)	DBL WORD	8	(0)	Align TedWorkArea on dbl word
288	(120)	BITSTRING	1	TEWA_WORKAREA	
		MACDATE -06/08/18-<0>			
0	(0)	X'920'	0	M00M1480	"TEWAPLD" ++ IEATEDS NAME
2336	(920)	DBL WORD	8	TEWAPLD(0)	++ IEATEDS PARM LIST
2336	(920)	BITSTRING	1	TEWAPLD_XVERSION	++ INPUT XVERSION
2337	(921)	BITSTRING	1	TEWAPLD_XREQUEST	++ XREQUEST
2337	(921)	X'0'	0	TEWAPLD_XREQUEST_RECORD	"0" ++ XREQUEST.RECORD KEYWORD
2337	(921)	X'1'	0	TEWAPLD_XREQUEST_REGISTER	"1" ++ XREQUEST.REGISTER KEYWORD
2338	(922)	BITSTRING	1	TEWAPLD_XEVENTTYPE	++ XEVENTTYPE
2338	(922)	X'0'	0	TEWAPLD_XEVENTTYPE_START	"0" ++ XEVENTTYPE.START KEYWORD
2338	(922)	X'1'	0	TEWAPLD_XEVENTTYPE_MID	"1" ++ XEVENTTYPE.MID KEYWORD
2338	(922)	X'2'	0	TEWAPLD_XEVENTTYPE_END	"2" ++ XEVENTTYPE.END KEYWORD
2339	(923)	CHARACTER	1	TEWAPLD_XRSV0002	++ RESERVED
2340	(924)	CHARACTER	32	TEWAPLD_XCOMPNAME	++
2372	(944)	CHARACTER	8	TEWAPLD_XMODNAME	++
2380	(94C)	CHARACTER	8	TEWAPLD_XMODLEVEL	++
2388	(954)	SIGNED	4	TEWAPLD_XMODOFFSET	++ FIELD_LABEL
2392	(958)	CHARACTER	8	TEWAPLD_XEVENTTHREAD	++
2400	(960)	CHARACTER	16	TEWAPLD_XTEDTOKEN	++
2416	(970)	CHARACTER	32	TEWAPLD_XEVENTDESC	++
2448	(990)	CHARACTER	16	TEWAPLD_XUSERDATACOMBI	++ FIELD_LABEL
2464	(9A0)	SIGNED	4	TEWAPLD_XMAXEVENTS	++
2468	(9A4)	ADDRESS	4	TEWAPLD_XWORKAREA_ADDR	++ ADDR
2472	(9A8)	CHARACTER	24	TEWAPLD_XRSV0004	++ RESERVED
2472	(9A8)	X'A0'	0	TEWAPLDL	"*-TEWAPLD" ++ LENGTH OF PLIST
		IEATEDS-0			
0	(0)	X'9C0'	0	TEWALEN	"*-TEWA" Length of entire TEWA

Table 551. Cross Reference for $TEWA

Name	Offset	Hex Tag
M00M1480	0	920
TEWA	0	

Table 551. Cross Reference for $TEWA (continued)

Name	Offset	Hex Tag
TEWA_ACRO	0	
TEWA_DATA	FC	
TEWA_DATA16	FC	FC
TEWA_PCESAVE	F0	
TEWA_SAVEAREA	18	
TEWA_THREAD	F4	
TEWA_TOKEN	8	
TEWA_WORKAREA	120	
TEWALEN	0	9C0
TEWAPLD	920	
TEWAPLD_XCOMPNAME	924	
TEWAPLD_XEVENTDESC	970	
TEWAPLD_XEVENTTHREAD	958	
TEWAPLD_XEVENTTYPE	922	
TEWAPLD_XEVENTTYPE_END	922	2
TEWAPLD_XEVENTTYPE_MID	922	1
TEWAPLD_XEVENTTYPE_START	922	0
TEWAPLD_XMAXEVENTS	9A0	
TEWAPLD_XMODLEVEL	94C	
TEWAPLD_XMODNAME	944	
TEWAPLD_XMODOFFSET	954	
TEWAPLD_XREQUEST	921	
TEWAPLD_XREQUEST_RECORD	921	0
TEWAPLD_XREQUEST_REGISTER	921	1
TEWAPLD_XRSV0002	923	
TEWAPLD_XRSV0004	9A8	
TEWAPLD_XTEDTOKEN	960	
TEWAPLD_XUSERDATACOMBI	990	
TEWAPLD_XVERSION	920	
TEWAPLD_XWORKAREA_ADDR	9A4	
TEWAPLDL	9A8	A0

$TEXWORK information

$TEXWORK heading information

Common name: JES2 Time Excession Monitor PCE Work Area

Macro ID: $TEXWORK

DSECT name: PCE ($TEXWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol TEXPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $TXIMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by a JES2 Time Excession Monitor Processor and by its support routines and exits. $TEXWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TEXWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETEXID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TEXWORK mapping

Table 552. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	64	TEXWORK	Work area
392	(188)	DBL WORD	8	(0)	Force double-word alignment
392	(188)	X'40'	0	TEXPCEWS	"*-PCEWORK" Length of work area

$TGB information

$TGB heading information

Common name: Track Group Block

Macro ID: $TGB

DSECT name: TGB

Owning component: JES2 (SC1BH)

Eye-catcher ID: None if BLOB TGBS $BTE IF BADTRACK BTE

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).

Size: See BTESIZE for BADTRACK BTEs.
See TGBBSIZE for BLOB TGBs.

Created by: TQUEBTG in the event of a SPOOL I/O error in the user's address space or in an FSS address space or in a JES2 subtask.
$IOERRTN in the event of a SPOOL I/O error in the JES2 main task.
JES2 initialization for BADTRACK initialization statement processing.

Pointed to by: CCTIOERR field of the $HCCT data area
BTENEXT field of the $BTE data area if on the CCTIOERR queue
CCTTGBF field of the $HCCT data area for TGBs in the BLOB
CCTTGBL field of the $HCCT data area for TGBs in the BLOB
TGBs in the BLOB are contiguous.

Serialization: Compare and swap is used to queue the BTEs on the CCTIOERR chain. Compare double and swap is used to change the contents of a TGB in the BLOB.

Function: There is a pool of track group blocks (TGBs) of available space called a BLOB. A track group block represents one track group. The number of TGBs in the BLOB is set and maintained by JES2 (field CKPTGESZ in the checkpoint PCE work area).
A TGB may be allocated for a job by selecting a TGB from the BLOB using CDS logic in $TRACK and $STRAK. The BLOB is replenished during the checkpoint cycle.
BTEs are used for bad track group (BADTRACK) processing. BTENEXT is used to chain the BTEs from $SPOOLQ for HASPSPOL.
BTEs are also used whenever IOS has determined that a volume had an I/O error as a result of losing all paths to the device. The BTE is queued on the $SPOOLQ just as for bad track group processing, but when it is discovered that the I/O error was the result of an entire volume being inaccessible, the volume will be halted as opposed to just the track group being marked bad.

$TGB mapping

Table 553. Structure TGB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TGB	ALLOCATION TRACK GROUP BLK
0	(0)	DBL WORD	8	TGBENTRY(0)	Used to compare and swap next two words
0	(0)	BITSTRING	5	TGBMQT	Allocated MQT
5	(5)	BITSTRING	3	TGBJQEI	Index to JQE for JQESUMSK
5	(5)	X'0'	0	TGBAVAIL	"0" TGB available
5	(5)	X'FFFFFF'	0	TGBASYS	"-1" TGB allocated
5	(5)	X'FFFFFE'	0	TGBBKUP	"-2" TGB allocated state not yet recorded on CKPT
5	(5)	X'FFFFFD'	0	TGBASIG	"-3" TGB allocated state not yet recorded on SPOOL
8	(8)	DBL WORD	8	TGBENTYB(0)	Used to ref next 2 words
8	(8)	BITSTRING	5	TGBMQTB	Backup of Allocated MQT
13	(D)	BITSTRING	3	TGBJQEIB	Backup of Offset to JQE
16	(10)	BITSTRING	16	TGBTTOKN	TCB Token of task in signature record process
16	(10)	X'10'	0	TGBASTKN	"TGBTTOKN,8" Address space token of AS in signature rcd process
32	(20)	DBL WORD	8	(0)	Ensure alignment
32	(20)	X'20'	0	TGBBSIZE	"*-TGB" TGB DSECT LGTH FOR BLOB ENTRIES

Table 554. Structure BTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BTE	Bad track element
0	(0)	CHARACTER	4	BTEID	Eye catcher
4	(4)	ADDRESS	4	BTENEXT	Address of next BTE on the Bad Track queue
8	(8)	BITSTRING	6	BTEMQTR	MQTR of block in error
14	(E)	BITSTRING	1	BTEFLAG1	Flags
		1...		BTE1CC3	"B'10000000'" IOS has discovered that the extent has no paths
		.1..		BTE1MQER	"B'01000000'" JES2 main task queued this BTE

Table 554. Structure BTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		BTE1UQER	"B'00100000'" User environment task queued this BTE
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	SIGNED	2	BTEASID	ASID of failing task
18	(12)	BITSTRING	6		Reserved for future use
24	(18)	DBL WORD	8	(0)	Ensure alignment
24	(18)	X'18'	0	BTESIZE	"*-BTE" BTE length for bad track

Table 555. Structure TGR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TGR	, Track Group record entry
0	(0)	X'2'	0	TGRVERS	"TGRVZ22" Current TGR version number
0	(0)	X'2'	0	TGRVZ22	"2" z22 mode version number
0	(0)	BITSTRING	5	TGRMQTR	First MQTR in entry

Table 556. Cross Reference for $TGB

Name	Offset	Hex Tag
BTE	0	
BTEASID	10	
BTEFLAG1	E	
BTEID	0	5BC2E3C5
BTEMQTR	8	
BTENEXT	4	
BTESIZE	18	18
BTE1CC3	E	80
BTE1MQER	E	40
BTE1UQER	E	20
TGB	0	
TGBASIG	5	FFFFFD
TGBASTKN	10	10
TGBASYS	5	FFFFFF
TGBAVAIL	5	0
TGBBKUP	5	FFFFFE
TGBBSIZE	20	20
TGBENTRY	0	
TGBENTYB	8	
TGBJQEI	5	
TGBJQEIB	D	
TGBMQT	0	
TGBMQTB	8	
TGBTTOKN	10	
TGR	0	
TGRMQTR	0	
TGRVERS	0	2
TGRVZ22	0	2

$TIMWORK information

$TIMWORK heading information

Common name: JES2 STIMER/TTIMER PCE Work Area

Macro ID: $TIMWORK

DSECT name: PCE ($TIMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol TIMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $TIMEPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by a JES2 STIMER/TTIMER Processor and by its support routines and exits. $TIMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TIMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETIMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TIMWORK mapping

Table 557. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	24	TIMXECB	Timer XECB
352	(160)	DBL WORD	8	(0)	Force double-word alignment
352	(160)	X'18'	0	TIMPCEWS	"*-PCEWORK" Length of work area

$TLGWORK information

$TLGWORK heading information

Common name: JES2 Event Trace Log PCE Work Area

Macro ID: $TLGWORK

DSECT name: PCE ($TLGWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol TLGPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $TRCPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Event Trace Log Processor and by its support routines and exits. $TLGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TLGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEVTLID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TLGWORK mapping

Table 558. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	BITSTRING	16	TLGMAP	Work area for TRACE ID 20
344	(158)	ADDRESS	4	TLGJCT	ADDRESS OF JCT FOR $TRCLOG
348	(15C)	ADDRESS	4	TLGIOT	Address of current IOT
352	(160)	ADDRESS	4	TLGBSAVE	ADDRESS OF CURRENT RCB
356	(164)	ADDRESS	4	TLGBUFAD	ADDRESS OF CURRENT OUTPUT BUFFER
360	(168)	ADDRESS	4	TLGIOTAD	ADDRESS OF CURRENT SPIN IOT
364	(16C)	BITSTRING	6	TLGIOTMQ	MQTR of current SPIN IOT
370	(172)	BITSTRING	2		Reserved
372	(174)	SIGNED	4	TLGWORK1	WORK AREA
376	(178)	SIGNED	4	TLGWORK2	WORK AREA
384	(180)	DBL WORD	8	TLGWORK3	WORK AREA
396	(18C)	ADDRESS	4	TLGTTP	ADDRESS OF CURRENT TRACE TABLE
400	(190)	ADDRESS	4	TLGTTESV	ADDRESS OF CURRENT TTE ENTRY
404	(194)	ADDRESS	4	TLGVFPFX	ADDRESS OF PREFIX OF CURRENT VARIABLE FORMAT FIELD
408	(198)	SIGNED	4	(0)	FULLWORD ALIGN NEXT FIELD
408	(198)	SIGNED	8	TLGMINOR(0)	RNAME--FULLWORD ALIGN, LENTH 8
408	(198)	CHARACTER	4	TLGREYE	EYECATCHER IN RNAME
412	(19C)	ADDRESS	4	TLGRNAME	TABLE ADDRESS IN RNAME
RESERVE ENOUGH ROOM FOR THE ENQ AND DEQ PARAMETER LISTS TO COVER ALL OPTIONS.					
416	(1A0)	SIGNED	4	TLGENQST(0)	TRUE START OF ENQ LIST
MACRO-DATE = 03/16/15					
416	(1A0)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
416	(1A0)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
420	(1A4)	ADDRESS	4		PREFIX - ECB ADDRESS
420	(1A4)	X'1A8'	0	TLGENQPL	"*" X02113
424	(1A8)	ADDRESS	1		PELLAST flag byte. X02113
425	(1A9)	ADDRESS	1		PELMILEN - RNAME length.
426	(1AA)	BITSTRING	1		

Table 558. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
			PELFLAG - flag byte 2.		
427	(1AB)	ADDRESS	1		PELRET - return code byte.
428	(1AC)	ADDRESS	4		QNAME ADDRESS
432	(1B0)	ADDRESS	4		RNAME ADDRESS
432	(1B0)	X'1A0'	0	TLGENQUE	"TLGENQST,*-TLGENQST" Used only in IPCS
436	(1B4)	SIGNED	4	TLGDEQST(0)	TRUE START OF DEQ LIST
	MACRO-DATE = 03/16/2015				
436	(1B4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
436	(1B4)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
436	(1B4)	X'1B8'	0	TLGDEQPL	"*" X02113
440	(1B8)	ADDRESS	1		PELLAST flag byte. X02113
441	(1B9)	ADDRESS	1		PELMILEN - RNAME length.
442	(1BA)	BITSTRING	1		
			PELFLAG - flag byte 2.		
443	(1BB)	ADDRESS	1		PELRET - return code byte.
444	(1BC)	ADDRESS	4		QNAME ADDRESS
448	(1C0)	ADDRESS	4		RNAME ADDRESS
448	(1C0)	X'1B4'	0	TLGDEQUE	"TLGDEQST,*-TLGDEQST" Used only in IPCS
452	(1C4)	SIGNED	4	TLGRECCT	TRACE LOG DATA SET RECORD COUNT
456	(1C8)	BITSTRING	12	TLGTQE	TQE FOR TRACE TABLE TRUNCATION
468	(1D4)	SIGNED	2	TLGVFCNT	NUMBER OF VARIABLE FIELDS LEFT
470	(1D6)	BITSTRING	1	TLGSAVID	FOR SAVING RECORD TYPE ID
471	(1D7)	BITSTRING	1	TLGFLAG1	FLAGS
472	(1D8)	SIGNED	4	(0)	FULLWORK ALIGN XECB
472	(1D8)	BITSTRING	1	TLGXECB	XECB FOR EXCLUSIVE ENQ ECB
472	(1D8)	X'A8'	0	TLGPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA
	TLGFLAG1				
		1...		TLG1OPEN	"B'10000000'" TRACE LOG IS OPEN
		.1..		TLG1ERR	"B'01000000'" ERROR PRODUCING TRACE LOG
		..1.		TLG1TRUN	"B'00100000'" ID=20 TRUNCATE CURRENT LINE
		...1		TLG1HEAD	"B'00010000'" Currently producing header

Table 559. Cross Reference for $TLGWORK

Name	Offset	Hex Tag
PCE	0	
TLGBSAVE	160	
TLGBUFAD	164	
TLGDEQPL	1B4	1B8

Table 559. Cross Reference for $TLGWORK (continued)

Name	Offset	Hex Tag
TLGDEQST	1B4	
TLGDEQUE	1C0	1B4
TLGENQPL	1A4	1A8
TLGENQST	1A0	
TLGENQUE	1B0	1A0
TLGFLAG1	1D7	
TLGIOT	15C	
TLGIOTAD	168	
TLGIOTMQ	16C	
TLGJCT	158	
TLGMAP	148	
TLGMINOR	198	
TLGPCEWS	1D8	A8
TLGRECCT	1C4	
TLGREYE	198	
TLGRNAME	19C	
TLGSAVID	1D6	
TLGTQE	1C8	
TLGTTESV	190	
TLGTTP	18C	
TLGVFCNT	1D4	
TLGVFPFX	194	
TLGWORK1	174	
TLGWORK2	178	
TLGWORK3	180	
TLGXECB	1D8	
TLG1ERR	1D8	40
TLG1HEAD	1D8	10
TLG1OPEN	1D8	80
TLG1TRUN	1D8	20

$TQE information

$TQE programming interface information

$TQE is a programming interface.

$TQE heading information

Common name: TQE - HASP TIMER QUEUE ELEMENT

Macro ID: $TQE

DSECT name: NONE

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: 0, 1, 25, or 241
Key: 1
Residency: Anywhere. Depending on the control block the $TQE is imbedded in, it may or may not be within the JES2 address space.

Size: See TQELENG

Created by: $PCEDYN services or HASPIRMA, depending on which control block the $TQE is imbedded in.

Pointed to by: $TQEQUE field of the $HCT data area
TQETQE field of the $TQE data area

Serialization: Various serialization methods are used depending on the control block the $TQE is imbeded in.

Function: $TQE maps the HASP Timer Queue Element displacements imbedded in various JES2 data areas as follows:
Field Data area
ACTTQE $ACT
CKPSTQE $CKPWORK
CKPMITQE $CKPWORK
CKPCFTQE $CKPWORK
JPCETQE $CNVWORK
FSWTQE $FSSWORK
RESTQE $RESWORK
MLMTQE $MLMWORK
NRMTQE $NRMWORK
SJBSTQE $SJB
TLGTQE $TLGWORK
WRMTQE $WARNWRK
XFMSCTQE $XFMWORK
SRWTQE $SFRWORK
SNWTQE $SNFWORK
The third field mapped out by the TQE is the PCE address for $POST. The high order bit is used as a flag bit to indicate if the timer has popped or not.

$TQE mapping

Table 560. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
,$MODULE - $CADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $HASPEQU WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MIT WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MITETBL WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PARMLST WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PSV WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $USERCBS WILL BE GENERATED, IT IS REQUIRED BY
```

```
01 CHANGE ACTIVITY:
 $420P105=SWBMOD HJE4420 900904 RPG: PTM 105 PCE Misc Wakeup
 $520LSNF=SNIFFER HJE5520 940210 J_K2: SPOOL Management
 $R03P033=PTMS HJE6603 960627 K_W: PTM PSL0033
 $Z22LACT=CKPTUNE HJE77A0 140120 ALP: Ckpt tuning stage 2
 A000000-999999 CREATED FOR JES2 PRE SP
   TQETQE
     ADDRESS OF NEXT HASP TIMER QUEUE ELEMENT
   TQETIME
```

```
        SPECIFIED INTERVAL (IN TIMER UNITS)
   TQEPCE
        PCE ADDRESS FOR $POST (HIGH ORDER BIT
                               IS A FLAG)
        HASP TIMER QUEUE ELEMENT DISPLACEMENTS
```

0	(0)	X'0'	0	TQETQE	"0,4" ADDR OF NEXT TIMER QUEUE ELMT
0	(0)	X'4'	0	TQETIME	"4,4" SPECIFIED INTERVAL(TIMER UNITS) NOTE THAT THIS SHOULD BE RESET BEFORE EACH CALL TO $STIMER
0	(0)	X'8'	0	TQEPCE	"8,4" FLAG BYTE AND PCE ADDR TO $POST
0	(0)	X'8'	0	TQEFLAG1	"TQEPCE,1" OFFSET TO FLAG BIT IN TQEPCE
0	(0)	X'C'	0	TQELENG	"L'TQETQE+L'TQETIME+L'TQEPCE" LENGTH OF THE TQE

Table 560. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Special form of TQE uses two additional fields. This form of TQE should be double-word aligned.			
0	(0)	X'C'	0	TQEINTL	"12,4" Original length of interval
0	(0)	X'10'	0	TQESTRT	"16,8" Timestamp of interval start
0	(0)	X'18'	0	TQELENG2	"TQELENG+L'TQEINTL+L'TQESTRT" Length of special TQE
		TQEFLAG1 BIT DEFINITIONS			
		1...		TQE1TPOP	"B'10000000'" TIMER POP
		EQU B'01111111' Cannot be used			

Table 561. Cross Reference for $TQE

Name	Offset	Hex Tag
TQEFLAG1	0	8
TQEINTL	0	C
TQELENG	0	C
TQELENG2	0	18
TQEPCE	0	8
TQESTRT	0	10
TQETIME	0	4
TQETQE	0	0
TQE1TPOP	0	80

$TRCA information

$TRCA programming interface information

$TRCA is a programming interface.

$TRCA heading information

Common name: Termination recovery control area

Macro ID: $TRCA

DSECT name: TRCA

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$$$$TRCA' or 'TEMPTRCA' or '$SUBTRCA'
Offset: 0
Length: 8

Storage attributes: Subpool: any
Key: 1
Residency: anywhere

Size: See TRCALENG for the length of the TRCA used by the JES2 main task. See TRCADTEL for the length of the TRCA used by JES2 subtasks.

Created by: The TRCA for a main task abend (except one in a PC routine) is within CSECT HASPTERM. This TRCA has the eyecatcher '$$$$TRCA.'
The TRCA for an abend within a main task PC routine is obtained by routine $PCABEND. This TRCA has the eyecatcher 'TEMPTRCA.'
The TRCA for a subtask abend is assembled within the $DTE macro. This TRCA has the eyecatcher '$SUBTRCA.'

Pointed to by: The $ERRTRCA field of the $HCT data area points to the TRCA assembled within HASPTERM.

Serialization: None.

Function: Provides work areas and communication fields required by $ABEND, $PCABEND, $STABEND and the various recovery analysis routines.

$TRCA mapping

Table 562. Structure TRCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRCA	
0	(0)	CHARACTER	8		TRCA identifier
8	(8)	BITSTRING	1	TRCAFLAG	
		1...		TRCANOPC	"X'80'" $CURPCE = 0 OR PROCESSOR NOT ACTUALLY IN CONTROL --- (SEE CODE AND ESPECIALLY THE NOTE IN ABNDCKRP REGARDING THE VALIDITY OF THIS BIT WHEN NO SDWA)
		.1..		TRCAOREC	"X'40'" OPR AUTHORIZED RECOVERY
		..1.		TRCAODMP	"X'20'" OPR AUTHORIZED (DID NOT SUPPRESS) DUMP (HASP070)
		...1		TRCATERM	"X'10'" RECOVERY NOT POSSIBLE
		.... 1...		TRCAABND	"X'08'" $ABEND IN CONTROL
		.... .1..		TRCARTRY	"X'04'" $RETRY IN CONTROL
		.... ..1.		TRCAEEIU	"X'02'" EMERGENCY ERA IN USE
		1		TRCASUBT	"X'01'" SUBTASK ($STABEND) TRCA
9	(9)	BITSTRING	1	TRCAFLG2	HEXIT FLAG BYTE
		1...		TRCAPJS2	"B'10000000'" $PJES2
		.1..		TRCAINIT	"B'01000000'" EXIT FROM INITIALIZATION
		..1.		TRCAEXIT	"B'00100000'" OPR REPLIED 'EXIT' TO HASP098
		...1		TRCAINTA	"B'00010000'" ABEND UNDER INIT PCE
		.... 1...		TRCA26EX	"B'00001000'" EXIT 26 ROUTINE INVOKED
		.... .1..		TRCA26AB	"B'00000100'" EXIT 26 ROUTINE ABENDED
		.... ..1.		TRCA2ARR	"B'00000010'" Processing in an ARR
		1		TRCA2PRC	"B'00000001'" JES2 percolated
10	(A)	BITSTRING	1	TRCAFLG3	Third flag byte
		1...		TRCA3CFT	"B'10000000'" Cleaning up checkpoint
		.1..		TRCA3RMT	"B'01000000'" REMOTE ind. for SDUMP
		..1.		TRCA3AUT	"B'00100000'" Auto reply to $HASP098
		...1		TRCA3STR	"B'00010000'" STRLIST exists
11	(B)	BITSTRING	1	TRCASNPF	FLAG BYTE USED BY ABNDSNAP
		1...		TRCAHCPY	"B'10000000'" INDICATES WTOS TO HARDCOPY LOG
12	(C)	ADDRESS	4	TRCAERA	ADDRESS OF ERA

Table 562. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	DBL WORD	8	TRCAWORK(2)	16 BYTE WORK AREA
32	(20)	ADDRESS	4	TRCAREMO	Address of remote table
36	(24)	ADDRESS	4	TRCAJOBL	Address of joblist table
40	(28)	CHARACTER	144	TRCASTRL	Area for STRLIST on SDUMPX
184	(B8)	SIGNED	4	TRCACNCT	CONNECT ID FOR MLWTO
188	(BC)	SIGNED	4	TRCAMSGW	
188	(BC)	SIGNED	4	(0)	
188	(BC)	ADDRESS	2		TEXT LENGTH
190	(BE)	BITSTRING	2		MCSFLAGS
192	(C0)	CHARACTER	53		
263	(107)	BITSTRING	2		DESCRIPTOR CODES
265	(109)	BITSTRING	2		ROUTING CODES
267	(10B)	BITSTRING	2		LINE TYPE
269	(10D)	BITSTRING	1		AREA ID
270	(10E)	ADDRESS	1		TOTAL NUMBER OF LINES X02007
188	(BC)	BITSTRING	1		Space for dump title length
189	(BD)	CHARACTER	100		and title text
336	(150)	SIGNED	4	TRCAMODW(0)	MODMAP-STYLE ENTRY FOR ERMODULE
352	(160)	SIGNED	4	TRCARIPL	COUNT OF OUTSTANDING ERRORS REQUIRING RE-IPL- INCREMENTED IN $ABEND, DECREMENTED IN $RETRY WHEN RECOVERY HAS BEEN SUCCESSFUL. ANY TERMINATION WHILE NON-ZERO CAUSES SETTING OF CCTSTRPL IN CCTSTUS IN HCCT
356	(164)	SIGNED	4	TRCAREGS(6)	REGS R13-R2 ON ENTRY TO $ABEND
356	(164)	X'168'	0	TRCAREGE	"TRCAREGS+4,4" REG 14 SLOT IN TRCAREGS
356	(164)	X'170'	0	TRCAREG0	"TRCAREGS+12,4" REG 0 SLOT IN TRCAREGS
356	(164)	X'174'	0	TRCAREG1	"TRCAREGS+16,4" REG 1 SLOT IN TRCAREGS
356	(164)	X'178'	0	TRCAREG2	"TRCAREGS+20,4" REG 2 SLOT IN TRCAREGS
380	(17C)	SIGNED	4		Reserved
384	(180)	ADDRESS	4	TRCALDAD	Address of LISTD storage
388	(184)	ADDRESS	4	TRCAARMT	Address of REMOTE storage
392	(188)	SIGNED	4	TRCASDMP(0)	SDUMP PARAMETER LIST
392	(188)	ADDRESS	1		FLAG BYTE
393	(189)	ADDRESS	1		FLAG BYTE
394	(18A)	ADDRESS	1		FLAG BYTE
395	(18B)	ADDRESS	1		FLAG BYTE
396	(18C)	ADDRESS	4		ADDRESS OF DCB
400	(190)	ADDRESS	4		ADDRESS OF STORAGE LIST
404	(194)	ADDRESS	4		ADDRESS OF USER DATA
408	(198)	ADDRESS	4		ADDRESS OF ECB/SRB
412	(19C)	ADDRESS	2		CURRENT ASID
414	(19E)	ADDRESS	2		OTHER ASID
416	(1A0)	ADDRESS	4		ADDRESS OF ASID LIST
420	(1A4)	ADDRESS	4		ADDRESS OF SUMLIST/SUMLSTA LIST

Table 562. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
424	(1A8)	ADDRESS	4		RESERVED
428	(1AC)	ADDRESS	4		RESERVED
432	(1B0)	ADDRESS	1		FLAG BYTE
433	(1B1)	ADDRESS	1		CONTROL FLAG BYTE
434	(1B2)	ADDRESS	1		TYPE FLAG BYTE
435	(1B3)	ADDRESS	1		VERSION
436	(1B4)	ADDRESS	1		EXIT FLAG BYTE
437	(1B5)	ADDRESS	1		EXIT FLAG BYTE
438	(1B6)	ADDRESS	1		SDATA OPTIONS
439	(1B7)	ADDRESS	1		RESERVED SDATA OPTIONS
440	(1B8)	ADDRESS	4		ADDRESS OF SUBPLST
444	(1BC)	ADDRESS	4		ADDRESS OF KEYLIST
448	(1C0)	ADDRESS	4		RESERVED
452	(1C4)	ADDRESS	4		ALET OF DCB PARAMETER
456	(1C8)	ADDRESS	4		ALET OF STORAGE PARAM
460	(1CC)	ADDRESS	4		ALET OF HDR PARAMETER
464	(1D0)	ADDRESS	4		ALET OF ASIDLST PARAM
468	(1D4)	ADDRESS	4		ALET OF SUMLIST PARAM
472	(1D8)	ADDRESS	4		ALET OF SUBPLST PARAM
476	(1DC)	ADDRESS	4		ALET OF KEYLIST PARAM
480	(1E0)	ADDRESS	4		ADDRESS OF LISTD
484	(1E4)	ADDRESS	4		No ALET for LISTD/LIST64
488	(1E8)	ADDRESS	4		No SUMLSTL or SUMLIST64
492	(1EC)	ADDRESS	4		ALET SUMLSTL or SUMLIST64
496	(1F0)	ADDRESS	4		No address for PSWREGS
500	(1F4)	ADDRESS	4		No Alet for PSWREGS
504	(1F8)	ADDRESS	4		ADDRESS OF SYMREC
508	(1FC)	ADDRESS	4		ALET OF SYMREC
512	(200)	ADDRESS	4		ADDRESS OF ID
516	(204)	ADDRESS	4		ALET OF ID
520	(208)	ADDRESS	4		ADDRESS FOR STRLIST
524	(20C)	ADDRESS	4		ALET OF STRLIST PARAM
528	(210)	ADDRESS	4		ADDRESS FOR INTOKEN
532	(214)	ADDRESS	4		ALET OF INTOKEN PARAM
536	(218)	ADDRESS	4		ADDRESS FOR REMOTE
540	(21C)	ADDRESS	4		ALET OF REMOTE PARAM
544	(220)	ADDRESS	4		ADDRESS FOR PROBDESC
548	(224)	ADDRESS	4		ALET OF PROBDESC PARAM
552	(228)	ADDRESS	4		ADDRESS FOR JOBLIST
556	(22C)	ADDRESS	4		ALET OF JOBLIST PARAM
560	(230)	ADDRESS	4		ADDRESS FOR DSPLIST
564	(234)	ADDRESS	4		ALET OF DSPLIST PARAM
568	(238)	ADDRESS	1		SDUMP Control Flag values
569	(239)	BITSTRING	3		RESERVED
572	(23C)	ADDRESS	4		ADDRESS FOR UTOKEN

Table 562. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
572	(23C)	X'B8'	0	TRCASDML	"*-TRCASDMP" Length of SDUMPX MF=L
576	(240)	DBL WORD	8	(0)	
576	(240)	X'240'	0	TRCADTEL	"*-TRCA" Length of DTE TRCAs
		All fields in the TRCA used by the ABNDSNAP service and services called by ABNDSNAP must be defined before the TRCADTEL equate. Fields used only in TRCAs in the NETSRV address space			
576	(240)	ADDRESS	4	TRCANSST	NSST address
580	(244)	ADDRESS	4	TRCANSCT	NSCT address
584	(248)	ADDRESS	4	TRCANSWE	NSWE address
588	(24C)	ADDRESS	4	TRCAFINS	Failing instruction addr
592	(250)	ADDRESS	4	TRCARGRB	RB containing regs
600	(258)	DBL WORD	8	(0)	
600	(258)	X'258'	0	TRCANSVL	"*-TRCA"
		Fields used only in TRCAs in the JES2 main task			
576	(240)	ADDRESS	4	TRCA72ID	072 DOM ID
580	(244)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE
584	(248)	SIGNED	4	TRCAECB	ECB FOR WTORS, SDUMPS, ETC
588	(24C)	BITSTRING	328	TRCAPSV	PCE STYLE SAVE AREA
916	(394)	ADDRESS	4	TRCADTE	CURRENT DTE ADDRESS
920	(398)	DBL WORD	8	TRCA26WK	WORK AREA FOR EXIT26
928	(3A0)	DBL WORD	8	TRCASIDS(0)	ASID LIST FOR $SDUMP
928	(3A0)	X'6'	0	TRCASDNO	"(*-TRCASIDS)/2" Number of ASIDs allowed
940	(3AC)	CHARACTER	4	TRCAOPT	TERMINATION OPTION AND SDUMP
940	(3AC)	X'3B0'	0	TRCADMPT	"TRCAOPT+L'TRCAOPT,101,C'C'" TITLE, KEEP TOGETHER
1048	(418)	SIGNED	4	TRCARRGS(16)	RESUMPTION REGS MOVED TO HERE
1048	(418)	X'418'	0	TRCARRG0	"TRCARRGS,4" JUST PRIOR TO FREEING OF ERA
1048	(418)	X'448'	0	TRCARRGC	"TRCARRGS+(R12*4),4"
1048	(418)	X'450'	0	TRCARRGE	"TRCARRGS+(R14*4),4"
1048	(418)	X'454'	0	TRCARRGF	"TRCARRGS+(R15*4),4"
1112	(458)	SIGNED	4	TRCAHRGS(16)	Resumption high reg halves
1112	(458)	X'494'	0	TRCAHRGF	"TRCAHRGS+(R15*4),4" High half of R15
1176	(498)	SIGNED	4	TRCAARGS(16)	RESUMPTION ARS MOVED HERE
1240	(4D8)	BITSTRING	1	TRCAMODE	MODE (MOVED FROM PREMODE)
1241	(4D9)	BITSTRING	3		Reserveds
1244	(4DC)	SIGNED	4	TRCASDWK	WORK AREA FOR $SDUMP MSGS,TITLE
1252	(4E4)	BITSTRING	492	TRCAEERA	EMERGENCY ERA
1744	(6D0)	SIGNED	4	TRCASAVX(0)	PCE STYLE SAVE AREA FOR EXIT 26
2072	(818)	SIGNED	4	TRCAPPL(0)	PURGE PARAMETER LIST
2088	(828)	SIGNED	4	TRCASMFB(0)	EXIT SMF 'BUFFER'
2124	(84C)	CHARACTER	6	TRCACODE	TERMINATION CODE FOR TRACE ID=7
2130	(852)	BITSTRING	4	TRCAMAFF	Mask of systems to dump

Table 562. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2134	(856)	CHARACTER	8	TRCARCV	RECVOPTS copied from HCT
2144	(860)	SIGNED	4		Reserved
2152	(868)	DBL WORD	8	(0)	ALIGN END OF TRCA
2152	(868)	X'868'	0	TRCALENG	"*-TRCA" LENGTH OF TRCA EQU

Table 563. Structure TRCALSTD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRCALSTD	START OF LISTD FOR SDUMPX
0	(0)	SIGNED	4	TRCALLEN	LENGTH OF LISTD AREA
4	(4)	CHARACTER	8	TRCASTKN	STOKEN FOR LISTD
12	(C)	SIGNED	4	TRCARNUM	NUMBER OF ADDRESS RANGES
16	(10)	SIGNED	4	TRCAR1S	RANGE 1 STARTING ADDRESS
20	(14)	SIGNED	4	TRCAR1E	RANGE 1 ENDING ADDRESS
20	(14)	X'14'	0	TRCALSZ	"*-TRCASTKN" Length of 1 entry

Table 564. Cross Reference for $TRCA

Name	Offset	Hex Tag
TRCA	0	
TRCAABND	8	8
TRCAARGS	498	
TRCAARMT	184	
TRCACNCT	B8	
TRCACODE	84C	
TRCADMPT	3AC	3B0
TRCADTE	394	
TRCADTEL	240	240
TRCAECB	248	
TRCAEEIU	8	2
TRCAEERA	4E4	
TRCAERA	C	
TRCAEXIT	9	20
TRCAFINS	24C	
TRCAFLAG	8	
TRCAFLG2	9	
TRCAFLG3	A	
TRCAHCPY	B	80
TRCAHRGF	458	494
TRCAHRGS	458	
TRCAINIT	9	40
TRCAINTA	9	10
TRCAJOBL	24	
TRCALDAD	180	
TRCALENG	868	868
TRCALLEN	0	
TRCALSTD	0	

Table 564. Cross Reference for $TRCA (continued)

Name	Offset	Hex Tag
TRCALSZ	14	14
TRCAMAFF	852	
TRCAMODE	4D8	
TRCAMODW	150	
TRCAMSGW	BC	
TRCANOPC	8	80
TRCANSCT	244	
TRCANSST	240	
TRCANSVL	258	258
TRCANSWE	248	
TRCAODMP	8	20
TRCAOPT	3AC	
TRCAOREC	8	40
TRCAPJS2	9	80
TRCAPPL	818	
TRCAPSV	24C	
TRCARCV	856	
TRCAREGE	164	168
TRCAREGS	164	
TRCAREG0	164	170
TRCAREG1	164	174
TRCAREG2	164	178
TRCAREMO	20	
TRCARGRB	250	
TRCARIPL	160	
TRCARNUM	C	
TRCARRGC	418	448
TRCARRGE	418	450
TRCARRGF	418	454
TRCARRGS	418	
TRCARRG0	418	418
TRCARTRY	8	4
TRCAR1E	14	
TRCAR1S	10	
TRCASAVX	6D0	
TRCASDML	23C	B8
TRCASDMP	188	
TRCASDNO	3A0	6
TRCASDWK	4DC	
TRCASIDS	3A0	
TRCASMFB	828	
TRCASNPF	B	
TRCASTKN	4	
TRCASTRL	28	
TRCASUBT	8	1
TRCATERM	8	10

Table 564. Cross Reference for $TRCA (continued)

Name	Offset	Hex Tag
TRCATOKN	244	
TRCAWORK	10	
TRCA2ARR	9	2
TRCA2PRC	9	1
TRCA26AB	9	4
TRCA26EX	9	8
TRCA26WK	398	
TRCA3AUT	A	20
TRCA3CFT	A	80
TRCA3RMT	A	40
TRCA3STR	A	10
TRCA72ID	240	

$TRE information

$TRE programming interface information

The following field is **NOT** programming interface information:

- TRERB

$TRE heading information

Common name: TCB Recovery Element

Macro ID: $TRE

DSECT name: TRE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'TRE '
Offset: TREID-TRE
Length: 4

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and Real storage are anywhere (above or below 16M) in the private storage of the address space of the task that is currently running in the JES2 code.

Size: TRELEN

Created by: The $SSIBEGN routine in HASCLINK obtains the $CPOOL for the $TREs.
The GETTRE routine in HASCLINK creates the individual $TRE.

Pointed to by: HXBTRE field of the $HASXB data area points to the first TRE for the address space.
PSVADDR field of the $PSV points to the associated TRE.
SSWTRE field of the $SFSWORK data area.
TREBRNCH field of the $TRE data area is used to chain the remaining TRE's of the address space.
TRXTRE field of the $TRX data area.

Serialization: Compare and Swap must be used to update the TRETCB field which indicates the owning TCB.
In SRB mode, TRETCB is set to x'FFFFFFFF'.

Function: The TRE contains information useful during recovery and status on global resources the TCB has acquired. The TRE resides within an MVS cell pool specifically created for it by the $SSIBEGN routine.
TREs can also be used in SRB mode.

$TRE mapping

Table 565. Structure TRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRE	BEGINNING OF TRE DSECT
0	(0)	CHARACTER	4	TREID	EYECATCHER OF TRE
4	(4)	ADDRESS	1	TREVRSN	VERSION FIELD OF THE TRE BLOCK
4	(4)	X'4'	0	TREVRNUM	"4" Current version of TRE
5	(5)	BITSTRING	1	TRECKEY	Original caller's PSWBYTE1 (KEY and PROB bits)
6	(6)	SIGNED	2	TREFUNC	Original caller's SSOBFUNC (Zero if not SSI TRE)
6	(6)	BITSTRING	0	TREFINT	"X'8000'" Internal function ind
6	(6)	X'8001'	0	TREFIRDR	"TREFINT+1" Internal reader function
8	(8)	ADDRESS	4	TREBRNCH	ADDRESS OF NEXT TRE ON CHAIN
12	(C)	ADDRESS	4	TRETCB	ADDRESS OF CALLER'S TCB or x'FFFFFFFF' if an SRB
16	(10)	ADDRESS	4	TRERB	ADDRESS OF TCB'S ACTIVE RB
20	(14)	ADDRESS	4	TRECSAVE	ADDRESS OF CALLER'S SAVE AREA
24	(18)	ADDRESS	4	TREHCCT	Address of HCCT
28	(1C)	ADDRESS	4	TRESSIBP	Address of $SSIBEGN parms
32	(20)	ADDRESS	4	TRETRXCR	ADDRESS OF MOST RECENT TRX
		ALL FIELDS AFTER THIS POINT WILL BE SET TO ZERO DURING TRE INITIALIZATION. INITIALIZATION OF FIELDS ABOVE THE TRERSAVE FIELD ARE SET BY SPECIFIC REFERENCE TO THE PARTICULAR FIELD. NEW FIELDS SHOULD BE ADDED AFTER THE TRERSAVE FIELD.			
36	(24)	ADDRESS	4	TRERSAVE	ADDR OF MOST RECENT SAVE AREA
40	(28)	ADDRESS	4	TRESJBLK	SJB ADDR (IF LOCKED BY TASK)
44	(2C)	ADDRESS	4	TRECPOOL	$GETHP CHAINING FIELD
48	(30)	ADDRESS	4	TREKEYSV	STORAGE KEY, XRT SAVE AREA, USED BY EXIT EFFECTOR, AND TRACE
52	(34)	ADDRESS	4	TREUSERA	RESERVED FOR USER
56	(38)	ADDRESS	4	TREUSERB	RESERVED FOR USER
60	(3C)	BITSTRING	1	TREUSECT	USE COUNT FOR $TRACK ENTRY
61	(3D)	BITSTRING	1	TREFLAG3	Status flag byte 3
		1...		TRE3JSLR	"B'10000000'" JESLOG ENQ requested
		.1..		TRE3JESL	"B'01000000'" JESLOG ENQ active
		..1.		TRE3SJBL	"B'00100000'" SJB lock inherited from higher level SSI
		...1		TRE3STAX	"B'00010000'" STAX DEFER=YES done
		.... 1...		TRE3SARR	"B'00001000'" SSI covered by an ARR
		.... .1..		TRE3ESTA	"B'00000100'" ESTAEX is established
		.... ..1.		TRE3UANY	"B'00000010'" Create by (USER,ANY) save
		1		TRE3PERC	"B'00000001'" ABEND percolation occured
62	(3E)	BITSTRING	1	TREFLAG4	Status flag byte 4
		1...		TRE4TRNQ	"B'10000000'" Attempting to get trace ENQ
		.1..		TRE4ENQH	"B'01000000'" Trace table ENQ held by $TRACER routine

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		TRE4WPUR	"B'00100000'" Purge WQE when finished
		...1		TRE4WSPN	"B'00010000'" JESLOG spin required
		.... 1...		TRE4BEWT	"B'00001000'" WTO SSI process BEWTO
		.... .1..		TRE4SMSG	"B'00000100'" SYSMSG ENQ held
		.... ..1.		TRE4SIRB	"B'00000010'" IRB blocked for SYSMSG ENQ
		1		TRE4SSJB	"B'00000001'" HFEXSPIN SJB lock obtained
63	(3F)	BITSTRING	1	TRERSV	Reserved field
64	(40)	ADDRESS	4	TREWAITE	POINTER TO A WAIT ELEMENT
68	(44)	BITSTRING	1	TREFLAG1	STATUS/FLAG BYTE 1
		1...		TRE1TYPE	"B'10000000'" TRE GOTTEN DURING $SSIBEGN PROCESSING, FREE DURING $SSIEND PROCESSING, NOT $RETURN
		.1..		TRE1TRAC	"B'01000000'" TCB SPECIFIC TRACING BIT
		..1.		TRE1SSI	"B'00100000'" TRE REPRESENTS AN SSI FUNCTION
		...1		TRE1SENQ	"B'00010000'" Task issued $STRAK ENQ
		.... 1...		TRE1TRAK	"B'00001000'" $STRAK IS IN CONTROL
		.... .1..		TRE1NIRB	"B'00000100'" TCBNOIRB needs to be reset by $SJBUNLOK
		.... ..1.		TRE1STAX	"B'00000010'" STAX ISSUED BY $SJBLOCK RTN
		1		TRE1NDMP	"B'00000001'" RESTORE DUMP=NO ON RETURN TO RTM FROM $SSI ESTAE
69	(45)	BITSTRING	1	TREFLAG2	STATUS/FLAG BYTE 2
		1...		TRE2X33	"B'10000000'" SSIDACLO - EXIT 33--ISSUE MESSAGE FLAG
		.1..		TRE2CNCL	"B'01000000'" SSIALOC - Internal reader allocation was cancelled
		..1.		TRE2LHLD	"B'00100000'" SJBLOCK obtained in WTALOGQ
		...1		TRE2TERM	"B'00010000'" $ERROR ind to terminate
		.... 1...		TRE2LOG	"B'00001000'" Log the error in LOGREC (via SETRP RECORD=YES)
		.... .1..		TRE2LKUS	"B'00000100'" SJBLOCK was usurped from this RB
		.... ..1.		TRE2LL	"B'00000010'" SJBLOCK got local lock
		1		TRE2LKST	"B'00000001'" SJBLOCK was stolen from this task
70	(46)	BITSTRING	1	TREUSER1	STATUS/FLAG RESERVED FOR USER
71	(47)	BITSTRING	1	TREX30TP	EXIT 30--TYPE OF DATASET BYTE
72	(48)	SIGNED	4		Reserved
76	(4C)	BITSTRING	1	TRECRTRC	CALLRTM return code (see $SJBLOCK routine)
77	(4D)	BITSTRING	1	TREFLAG5	Flag byte 5
		1...		TRE5IRDR	"B'10000000'" Set for Internal reader
		.1..		TRE5BLSC	"B'01000000'" Linkage Stack Compaction has been blocked
		..1.		TRE5SDBL	"B'00100000'" HFEXSPIN obtained SDB lock

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		TRE5SCNT	"B'00010000'" HFEXSPIN set SDBOPNCT TO 1
		.... 1...		TRE5RECT	"B'00001000'" RECOVERY trace done (only set in recovery TRE)
78	(4E)	BITSTRING	2		Reserved
		The following words are used by WTALOGQ in HASCSIRQ which is invoked under multiple SSIs. The mapping has to be available to all environments, hence the fields are in the TRE common area. TREWTAWA contains the address of the S35D currently being constructed and queued. If the value is zero, there is no current S35D. If positive, then it is the address of a CPOOL cell in the WTO data space.			
80	(50)	ADDRESS	4	TREWTAWA	Work area addr for SSIWTA
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4	TREWTASJ	Addr of SJB with log prob.
92	(5C)	SIGNED	4	TRESAVE(0)	SAVE AREA FOR SAVE/RETURN SRVCS
96	(60)	DBL WORD	8	TREDOUB	Generate dword scratch area MCSFLUSH places TOD here
96	(60)	DBL WORD	8	TREBNAME	CATREAD dword scratch area used to store NAME= value for $DOGBERT call.
		ENQ/DEQ PARAMETER LISTS			
268	(10C)	SIGNED	2	TRENQSTR(0)	START OF THE ENQ/DEQ PARM LISTS
		MACRO-DATE = 03/16/15			
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TRERDRNQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
		PELFLAG - flag byte 2.			
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRERDRNL	"*-TRERDRNQ" Length of RDR ENQ list form
		MACRO-DATE = 03/16/2015			
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TRERDRDQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
		PELFLAG - flag byte 2.			
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRERDRDL	"*-TRERDRDQ" Length of RDR DEQ list form
MACRO-DATE = 03/16/15					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TRESVJNQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
PELFLAG - flag byte 2.					
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRESVJNL	"*-TRESVJNQ" Length SVJ ENQ list form
MACRO-DATE = 03/16/2015					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TRESVJDQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
PELFLAG - flag byte 2.					
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRESVJDL	"*-TRESVJDQ" Length SVJ DEQ list form
MACRO-DATE = 03/16/15					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TRESAPNQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
PELFLAG - flag byte 2.					
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRESAPNL	"*-TRESAPNQ" Length SAPID ENQ list form
MACRO-DATE = 03/16/2015					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
268	(10C)	X'10C'	0	TRESAPDQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
				PELFLAG - flag byte 2.	
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRESAPDL	"*-TRESAPDQ" Length SAPID DEQ list form
				MACRO-DATE = 03/16/15	
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TREJLGNQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
				PELFLAG - flag byte 2.	
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TREJLGNL	"*-TREJLGNQ" Length JESLOG ENQ list form
				MACRO-DATE = 03/16/2015	
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	X'10C'	0	TREJLGDQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
				PELFLAG - flag byte 2.	
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TREJLGDL	"*-TREJLGDQ" Length JESLOG DEQ list form
				MACDATE = 04/03/89	
268	(10C)	SIGNED	4	TRESJBTK(0)	
268	(10C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
268	(10C)	BITSTRING	8		
276	(114)	SIGNED	4		
280	(118)	ADDRESS	4		

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	ADDRESS	4		ASCB ADDRESS (INPUT)
288	(120)	SIGNED	4	(0)	FLAGS (INPUT)
288	(120)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
289	(121)	SIGNED	3		RESERVED
289	(121)	X'18'	0	TRESJBTL	"*-TRESJBTK" Length TCBTOKEN list form
THE RNAME FOR THE ENQ MUST MATCH THE RNAME FOR THE EXCLUSIVE ENQ THAT IS KEPT IN THE EVENT TRACE LOG PCE WORKAREA ($TLGWORK).					
MACRO-DATE = 03/16/15					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
272	(110)	ADDRESS	4		PREFIX - ECB ADDRESS
272	(110)	X'114'	0	TRETRENQ	"*" X02113
276	(114)	ADDRESS	1		PELLAST flag byte. X02113
277	(115)	ADDRESS	1		PELMILEN - RNAME length.
278	(116)	BITSTRING	1		
PELFLAG - flag byte 2.					
279	(117)	ADDRESS	1		PELRET - return code byte.
280	(118)	ADDRESS	4		QNAME ADDRESS
284	(11C)	ADDRESS	4		RNAME ADDRESS
284	(11C)	X'C'	0	TRETRENL	"*-TRETRENQ" Length of TCB ENQ list form
MACRO-DATE = 03/16/2015					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
268	(10C)	X'110'	0	TRETRDEQ	"*" X02113
272	(110)	ADDRESS	1		PELLAST flag byte. X02113
273	(111)	ADDRESS	1		PELMILEN - RNAME length.
274	(112)	BITSTRING	1		
PELFLAG - flag byte 2.					
275	(113)	ADDRESS	1		PELRET - return code byte.
276	(114)	ADDRESS	4		QNAME ADDRESS
280	(118)	ADDRESS	4		RNAME ADDRESS
280	(118)	X'C'	0	TRETRDEL	"*-TRETRDEQ" Length of TCB DEQ list form
292	(124)	SIGNED	4	(0)	FULWORD ALIGN
292	(124)	CHARACTER	8	TRERNAME(0)	RNAME FOR DEQ
292	(124)	CHARACTER	4	TREREYE	EYECATCHER IN RNAME
296	(128)	ADDRESS	4	TRERCUR	TRACE TABLE ADDRESS IN RNAME
Dump header value name for RECOVERY. Used only in recovery TRE.					

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
92	(5C)	BITSTRING	1	TRERECHL	Length of dump header
93	(5D)	CHARACTER	100	TRERECHD	Dump header work area
200	(C8)	DBL WORD	8	TRERECDW	RECOVERY work area
300	(12C)	X'5C'	0	TREGWORK	"TRESAVE,*-TRESAVE" General work area available assuming $SAVE/$RETURN and $ESTAE not used
		THE FOLLOWING SAVE AREA IS POINTED TO BY REGISTER 13 THROUGHOUT THE SSI CODE, GENERALLY SPEAKING. AS IT IS A C'F1SA' TYPE OF SAVE AREA, MVS SERVICES WHICH ARE ACCESS REGISTER SENSITIVE WILL NOT USE IT, BUT WILL INSTEAD USE THE LINKAGE STACK. JES2 SSI CODE USES THE LINKAGE STACK TO SAVE REGISTERS AND STATUS. THE SAVE AREA IS A STANDARD SAVE AREA, BUT WITH JES2 EXTENSIONS.			
304	(130)	DBL WORD	8	(0)	Align save area
304	(130)	CHARACTER	176	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
308	(134)	CHARACTER	4	TRECF1SV	MAKE IT A C'F1SA' SAVE AREA
480	(1E0)	DBL WORD	8	TRESSIWK(0)	SSI FUNCTION DEPENDENT WORKAREA ORG'D OVER BY MAPPINGS BELOW
		The following mapping of the TRESSIWK area is used by the HIRDRPUT routine in HASCPHAM.			
480	(1E0)	ADDRESS	4	TREIRWD	Current/locked IRWD addr
484	(1E4)	BITSTRING	1	TRERPLRQ	RPLREQ value
		THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIDACLO.			
480	(1E0)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE
481	(1E1)	BITSTRING	1	TREDAXFG	TRE flag byte
		1...		TREDAXCC	"B'10000000'" Close count adjusted
		The following mapping of the TRESSIWK area is used by SSINOUS for Notify SSI support.			
480	(1E0)	ADDRESS	4	TRENUWRK	Addr of NOUSWRK area
484	(1E4)	ADDRESS	4	TRECMB	Addr of CSA CMB created
		THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIALUNA FOR EXIT 48 SUPPORT.			
480	(1E0)	ADDRESS	4	TREDAXPL	CONTAINS POINTER TO XPL
		The following mapping of the TRESSIWK area is used by SSISFS for Scheduler Services SSI support.			
480	(1E0)	ADDRESS	4	TRESFWRK	Addr of SFSWORK area
484	(1E4)	ADDRESS	4	TRESFRB	Addr of CSA SFRB created
		The following mapping of the TRESSIWK area is used by the HASCJBST JBSELECT routine for the list form of ESTAE.			
480	(1E0)	SIGNED	4	(0)	
480	(1E0)	ADDRESS	1	TREJBEST	FLAGS FOR ESTAEX
481	(1E1)	ADDRESS	1		SECOND FLAG BYTE
482	(1E2)	ADDRESS	1		THIRD FLAG BYTE

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
483	(1E3)	ADDRESS	1		VERSION NUMBER
484	(1E4)	ADDRESS	4		TOKEN VALUE AREA
488	(1E8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
492	(1EC)	ADDRESS	4		ALET FOR PARM LIST
496	(1F0)	ADDRESS	4		EXIT ADDR NOT SPECD
496	(1F0)	X'14'	0	TREJBESL	"*-TREJBEST" Length of ESTAEX parameter list
		The following mapping of the TRESSIWK area is used by the SSIPJCL routine in HASCARMS.			
480	(1E0)	ADDRESS	4	TREPJRB	PJCL MTRB
		The following mapping of the TRESSIWK area is used by the SSIUALOC routine in HASCDSAL.			
480	(1E0)	SIGNED	4	TREJBKEY	Job key for $CBIO
		The following mapping of the TRESSIWK area is used by the SSISOUT2 routine in HASCSAPI.			
480	(1E0)	SIGNED	4	TRESAPIA	SAPI ALET value for SAPID
484	(1E4)	ADDRESS	4	TRESAPID	SAPI address of SAPID
		The following mapping of the TRESSIWK area is used by the CVDEVID routine in HASCSISC.			
480	(1E0)	BITSTRING	3	TREDVID	Device ID in binary
483	(1E3)	BITSTRING	1		Reserved for future use
484	(1E4)	CHARACTER	18	TREDVNAM	Converted name in EBCDIC
		The following mapping of the TRESSIWK area is used by the HFEXSPIN routine in HASCDSOC.			
480	(1E0)	ADDRESS	4	TRESPINS	Address of SDB locked by HFEXSPIN (valid only if TRE5SDBL on)
		The following mapping of the TRESSIWK area is used by recovery in HASCLINK.			
480	(1E0)	SIGNED	4	TRERECRA	Holds the retry address
484	(1E4)	SIGNED	4	TRERECSA	Addr of SSI caller's save area
488	(1E8)	SIGNED	4	TRERECFA	Addr of SSI function addr
492	(1EC)	SIGNED	4	TRERECWK	Temp work area for VRADATA
496	(1F0)	SIGNED	2	TRERECFN	Abending SSI function num
498	(1F2)	SIGNED	2		Reserved
500	(1F4)	SIGNED	2	TRERECSC	System ABEND code
502	(1F6)	SIGNED	2	TRERECUC	User ABEND code
504	(1F8)	ADDRESS	4	TRERECAD	Failing/ABEND address
508	(1FC)	ADDRESS	4	TRERECLM	Failing LMT address
512	(200)	ADDRESS	4	TRERECCS	Failing MIT/CSECT address
516	(204)	SIGNED	4	(4)	Reserved
516	(204)	X'34'	0	TRESSIWL	"*-TRESSIWK" Size of SSI work area
536	(218)	DBL WORD	8	TRECRTIM	Time TRE was claimed (made active)
544	(220)	DBL WORD	8	TREDWORK	Work area

Table 565. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
552	(228)	BITSTRING	1	TREFRESA	Basic save area for $FRETRE
		Make sure the TRE is not smaller than the TRX, since the TRX'es are obtained in the TRE cell pool.			
680	(2A8)	DBL WORD	8		as TRX
		Ensure that TREs stay within a page (ie do not cross a page boundary). Round the size to a page boundary minus the GETHP prefix minus the 8 byte guard byte.			
1008	(3F0)	X'3F0'	0	TRELEN	"*-TRE" LENGTH OF TRE DSECT

Table 566. Cross Reference for $TRE

Name	Offset	Hex Tag
TRE	0	
TREBNAME	60	
TREBRNCH	8	
TRECF1SA	130	
TRECF1SV	134	C6F1E2C1
TRECKEY	5	
TRECMB	1E4	
TRECPOOL	2C	
TRECRTIM	218	
TRECRTRC	4C	
TRECSAVE	14	
TREDAXCC	1E1	80
TREDAXDT	1E0	
TREDAXFG	1E1	
TREDAXPL	1E0	
TREDOUB	60	
TREDVID	1E0	
TREDVNAM	1E4	
TREDWORK	220	
TREFINT	6	8000
TREFIRDR	6	8001
TREFLAG1	44	
TREFLAG2	45	
TREFLAG3	3D	
TREFLAG4	3E	
TREFLAG5	4D	
TREFRESA	228	
TREFUNC	6	
TREGWORK	12C	5C
TREHCCT	18	
TREID	0	E3D9C540
TREIRWD	1E0	
TREJBESL	1F0	14

Table 566. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TREJBEST	1E0	
TREJBKEY	1E0	
TREJLGDL	114	C
TREJLGDQ	10C	10C
TREJLGNL	114	C
TREJLGNQ	10C	10C
TREKEYSV	30	
TRELEN	3F0	3F0
TRENQSTR	10C	
TRENUWRK	1E0	
TREPJRB	1E0	
TRERB	10	
TRERCUR	128	
TRERDRDL	114	C
TRERDRDQ	10C	10C
TRERDRNL	114	C
TRERDRNQ	10C	10C
TRERECAD	1F8	
TRERECCS	200	
TRERECDW	C8	
TRERECFA	1E8	
TRERECFN	1F0	
TRERECHD	5D	
TRERECHL	5C	
TRERECLM	1FC	
TRERECRA	1E0	
TRERECSA	1E4	
TRERECSC	1F4	
TRERECUC	1F6	
TRERECWK	1EC	
TREREYE	124	
TRERNAME	124	
TRERPLRQ	1E4	
TRERSAVE	24	
TRERSV	3F	
TRESAPDL	114	C
TRESAPDQ	10C	10C
TRESAPIA	1E0	
TRESAPID	1E4	
TRESAPNL	114	C
TRESAPNQ	10C	10C
TRESAVE	5C	
TRESFRB	1E4	
TRESFWRK	1E0	
TRESJBLK	28	
TRESJBTK	10C	

Table 566. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TRESJBTL	121	18
TRESPINS	1E0	
TRESSIBP	1C	
TRESSIWK	1E0	
TRESSIWL	204	34
TRESVJDL	114	C
TRESVJDQ	10C	10C
TRESVJNL	114	C
TRESVJNQ	10C	10C
TRETCB	C	
TRETRDEL	118	C
TRETRDEQ	10C	110
TRETRENL	11C	C
TRETRENQ	110	114
TRETRXCR	20	
TREUSECT	3C	
TREUSERA	34	
TREUSERB	38	
TREUSER1	46	
TREVRNUM	4	4
TREVRSN	4	
TREWAITE	40	
TREWTASJ	58	
TREWTAWA	50	
TREX30TP	47	
TRE1NDMP	44	1
TRE1NIRB	44	4
TRE1SENQ	44	10
TRE1SSI	44	20
TRE1STAX	44	2
TRE1TRAC	44	40
TRE1TRAK	44	8
TRE1TYPE	44	80
TRE2CNCL	45	40
TRE2LHLD	45	20
TRE2LKST	45	1
TRE2LKUS	45	4
TRE2LL	45	2
TRE2LOG	45	8
TRE2TERM	45	10
TRE2X33	45	80
TRE3ESTA	3D	4
TRE3JESL	3D	40
TRE3JSLR	3D	80
TRE3PERC	3D	1
TRE3SARR	3D	8

Table 566. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TRE3SJBL	3D	20
TRE3STAX	3D	10
TRE3UANY	3D	2
TRE4BEWT	3E	8
TRE4ENQH	3E	40
TRE4SIRB	3E	2
TRE4SMSG	3E	4
TRE4SSJB	3E	1
TRE4TRNQ	3E	80
TRE4WPUR	3E	20
TRE4WSPN	3E	10
TRE5BLSC	4D	40
TRE5IRDR	4D	80
TRE5RECT	4D	8
TRE5SCNT	4D	10
TRE5SDBL	4D	20

$TRX information

$TRX programming interface information

$TRX is a programming interface.

$TRX heading information

Common name: TCB Recovery Element Extension

Macro ID: $TRX

DSECT name: TRX

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'TRX '
Offset: TRXID-TRE
Length: 4

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the user address space

Size: TRXLEN

Created by: The $SSIBEGN service creates an initial TRX for a subsystem interface request.
The $SAVE service creates an initial TRX for a user environment routine that is called from outside the user environment.
The $ESTAE service creates an additional TRX when a new recovery routine is specified.

Pointed to by: TRETRXCR field of the $TRE data area
TRXTPREV field of the $TRX data area

Serialization: None

Function: Contains recovery-related information for JES2 user-environment routines.

$TRX mapping

Table 567. Structure TRX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRX	Beginning of the TRX DSECT
0	(0)	CHARACTER	4	TRXID	Eyecatcher of TRX
4	(4)	ADDRESS	1	TRXVRSN	Version field of the TRX
4	(4)	X'3'	0	TRXVRNUM	"3" Current version
5	(5)	BITSTRING	1	TRXRCVRY	Current recovery level
6	(6)	BITSTRING	1	TRXRECNM	Number of $ERRORs issued
7	(7)	BITSTRING	1	TRXFLAG1	Flag byte 1
		1...		TRX1SSI	"B'10000000'" TRX represents ESTAE established by $SSIBEGN
		.1..		TRX1ESTA	"B'01000000'" TRX represents ESTAE established by $ESTAE
		..1.		TRX1ESTE	"B'00100000'" Associated ESTAE is established
		...1		TRX1RCVY	"B'00010000'" In use by RECOVERY - If this bit is on when cancel, percolated
		.... 1...		TRX1PERC	"B'00001000'" Percolation required - this flag is for use by $ESTAE recovery exits
		.... .1..		TRX1NDMP	"B'00000100'" Suppress dump
		.... ..1.		TRX1RECY	"B'00000010'" This is temporary recovery TRX
8	(8)	ADDRESS	4	TRXRECAD	Address of recovery exit
12	(C)	ADDRESS	4	TRXRADDR	Retry address vector - 2 byte cnt followed by 4 byte addrs
16	(10)	ADDRESS	4	TRXTOKEN	ESTAE token for this ESTAE
20	(14)	ADDRESS	4	TRXPREV	Address of previous TRX
24	(18)	ADDRESS	4	TRXTRE	Address of TRE for this TRX
28	(1C)	ADDRESS	4	TRXUSER1	User field 1
32	(20)	ADDRESS	4	TRXUSER2	User field 2
		Next comes a caller address array. This is a 25x16 byte array, with header fields, used to save the addresses of the caller of a routine which issues a $SAVE macro. This array is used to determine the sequence of calls both for dump analysis, as well as for the $HASP088 message, in the (unlikely?) event that the JES2 Main Task blows up while executing code in the user environment.			
36	(24)	ADDRESS	4	TRXNEXTN	Entry in caller addr array
36	(24)	X'19'	0	TRXNUMEN	"25" Number of entries in array
36	(24)	X'10'	0	TRXCLRLN	"L'TRXCLRAR" Length of a single entry
36	(24)	X'0'	0	TRXCLRAD	"0,4,C'A'" Address of caller of routine
36	(24)	X'4'	0	TRXCLRNM	"4,4,C'A'" Address of called routine name
36	(24)	X'8'	0	TRXCLRLS	"8,4,C'F'" Linkage stack pointer
36	(24)	X'C'	0	TRXCLREX	"12,1,C'X'" Exit number
40	(28)	BITSTRING	16	TRXCLRAR(0)	Caller array
40	(28)	X'28'	0	TRXESTAE	"TRXCLRAR,16*TRXNUMEN" Work area for ESTAEX

Table 567. Structure TRX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Up to 32 bytes of debugging data (for example, a textual footprint) can be stored in field TRXTRACK. The RECOVERY routine in HASCLINK records the contents of this field in the variable recording area (VRA). The actual length of the data must be set in field TRXLOGLN.			
440	(1B8)	CHARACTER	32	TRXTRACK	Area for debugging data
472	(1D8)	SIGNED	2	TRXTRACL(0)	Length of debugging data
472	(1D8)	SIGNED	1	TRXLOGWK	Upper byte of length (0)
473	(1D9)	SIGNED	1	TRXLOGLN	Length of data (0-32)
474	(1DA)	BITSTRING	2		Reserved
476	(1DC)	SIGNED	4	TRXLSAD	Linkage stack address TRX was created
		Registers are saved when the $ESTAE is established in the user environment.			
480	(1E0)	SIGNED	4	TRXGRSAV(16)	Low half general registers at time of $ESTAE invocation
544	(220)	SIGNED	4	TRXGRHSV(16)	High half general registers at time of $ESTAE invocation
608	(260)	SIGNED	4	TRXARSAV(16)	Access register save area at time of $ESTAE invocation
672	(2A0)	SIGNED	4	TRXECBTR	ECB used to WAIT forever
672	(2A0)	X'2A4'	0	TRXLEN	"*-TRX"

Table 568. Cross Reference for $TRX

Name	Offset	Hex Tag
TRX	0	
TRXARSAV	260	
TRXCLRAD	24	0
TRXCLRAR	28	
TRXCLREX	24	C
TRXCLRLN	24	10
TRXCLRLS	24	8
TRXCLRNM	24	4
TRXECBTR	2A0	
TRXESTAE	28	28
TRXFLAG1	7	
TRXGRHSV	220	
TRXGRSAV	1E0	
TRXID	0	E3D9E740
TRXLEN	2A0	2A4
TRXLOGLN	1D9	
TRXLOGWK	1D8	0
TRXLSAD	1DC	
TRXNEXTN	24	
TRXNUMEN	24	19
TRXPREV	14	
TRXRADDR	C	

Table 568. Cross Reference for $TRX (continued)

Name	Offset	Hex Tag
TRXRCVRY	5	
TRXRECAD	8	
TRXRECNM	6	
TRXTOKEN	10	
TRXTRACK	1B8	
TRXTRACL	1D8	
TRXTRE	18	
TRXUSER1	1C	
TRXUSER2	20	
TRXVRNUM	4	3
TRXVRSN	4	
TRX1ESTA	7	40
TRX1ESTE	7	20
TRX1NDMP	7	4
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1RECY	7	2
TRX1SSI	7	80

$TTETBL information

$TTETBL heading information

Common name: TTE Trace Table DSECT

Macro ID: $TTETBL

DSECT name: TTETBL

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'TTETBL '
Offset: TTETEYEC
Length: L'TTETEYEC

Storage attributes: Subpool: 231
Key: 1
Residency: Virtual is in 31 bit common storage (ESCA), real can be anywhere in 64 bit storage.

Size: The TTE trace table is variable in size. The total size of the table itself is the number of sections included in the TTE (found in field TTETSCNT) times the length of a table entry (defined by equate TTETENTL).
The total size of data referenced by the table is determined by taking the table size calculated above and adding in the size of data referenced by each table entry (in field TTETSDLN).

Created by: The TTE Trace Table is created by code that wishes to trace data whose DSECTs may vary in size or content across a HOT start. An example is TRACE ID 25, where the TTE Trace Table is created in module HASPFSSM by routine FSMCHKPT when it will issue a ID 25 trace entry. The $TRACE macro is used to allocate a TTE to contain the trace data, the code in FSMCHKPT then initializes some data and then fills in the TTE Trace Table as it loads sections of trace data into the TTE.

Pointed to by: The TTE Trace Table is located in the TTEDATA portion of the TTE. Its specific location is determined by the code utilizing the structure. For TRACE ID 25, the TTE Trace Table is located after the register values stored in TTEDATA. There is no specific pointer field identifying its location.

Serialization: See comments in $TRACER service for serialization requirements.

Function: The TTE Trace Table DSECT allows for the assembly or reading of a variable number of sections of trace data, each section which contains a variable amount of data. Use of the TTE Trace Table avoids problems tracing/printing data from control blocks that might have been built using a previous version of the control block structure, which can occur across a hot start. The code responsible for printing the trace data can rely on the section table entries in the TTE Trace Table to define the type of data being traced and its size.

The first field in the table is an 8 byte eyecatcher "TTETBL ". Code that processes the trace data for printing can check for this eyecatcher to verify the data is in a recognizeable TTE Trace Table format.

The second field in the table is a 2 byte count of sections defined in the table. This will be a constant value defined by the level of FSSM being executed.

Next in the table is an entry per section being traced. Each section will contain an 8 character eyecatcher identifying the section, a 2 byte offset into TTEDATA where the data is stored, then a 2 byte length of data contained in the section.

Note that HASPFSSM and HASPEVTL must have the same list of 8 character section eyecatchers in order for the data to print with the proper headers. If HASPEVTL encounters an eyecatcher it does not recognize it will output the TTE Table entry eyecatcher for the title.

The table will be followed by the sections of data.

The TTE layout will look like this:

```
+-----------------------------------------------+
| TTETBL | COUNT OF SECTIONS | |
|-----------------------------------------------|
| SECTION1 EYECATCHER | SECTION1 OFFSET | |
|-----------------------------------------------|
| SECTION1 LENGTH | SECTION2 EYECATCHER | ..... |
|-----------------------------------------------|
| ............................................. |
|-----------------------------------------------|
| SECTION1 DATA |
|-----------------------------------------------|
| SECTION2 DATA |
| . |
| . |
| . |
| . |
+-----------------------------------------------+
```

Note: The section offset is used in halfword calculations (which are signed), so the total length of a section's data must be x'7FFF' or less.

$TTETBL mapping

Table 569. Structure TTETBL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TTETBL	TTE Trace Table DSECT
0	(0)	CHARACTER	8	TTETEYEC	TTETBL eyecatcher
8	(8)	SIGNED	2	TTETSCNT	Count of TTE Trace Table Entries
8	(8)	X'A'	0	TTETBLH	"*-TTETBL" Length of TTE Table header
10	(A)	SIGNED	2	TTETTENT(0)	TTE Trace Table Entry
10	(A)	CHARACTER	8	TTETSEYE	TTE trace section type eyecatcher

Table 569. Structure TTETBL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	SIGNED	2	TTETSOFF	TTE trace section offset into TTEDATA where the section data is located
20	(14)	SIGNED	2	TTETSDLN	TTE Trace section data len
20	(14)	X'C'	0	TTETENTL	"*-TTETTENT" TTE Trace Table Entry Len
20	(14)	X'8'	0	TTEEYELN	"L'TTETSEYE" Length of eyecatcher
20	(14)	X'1C'	0	TTEHDRLN	"28" Length of trace output header used in EVTL

Table 570. Cross Reference for $TTETBL

Name	Offset	Hex Tag
TTEEYELN	14	8
TTEHDRLN	14	1C
TTETBL	0	
TTETBLH	8	A
TTETENTL	14	C
TTETEYEC	0	E3E3C5E3
TTETSCNT	8	
TTETSDLN	14	
TTETSEYE	A	
TTETSOFF	12	
TTETTENT	A	

$WARMWRK information

$WARMWRK programming interface information

$WARMWRK is a programming interface.

$WARMWRK heading information

Common name: JES2 Warm Start PCE Work Area

Macro ID: $WARMWRK

DSECT name: PCE ($WARMWRK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol WRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: For the mother PCEs, see $PCE
For daughter PCEs, the PCE is created by $PCEDYN. Daughter PCEs are created while processing JQEs during warm start. The daughter PCEs are deleted before warm start is complete.

Pointed to by: The $WARMPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first warm start PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 warm start Processor and by its support routines and exits. $WARMWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $WARMWRK are actually part of the PCE DSECT, but only map PCEs with the value PCEWRMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$WARMWRK mapping

Table 571. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP WARM START PROCESSOR
328	(148)	BITSTRING	12	WRMTQE	TIMER QUEUE ELEMENT
340	(154)	ADDRESS	4	WRMCYLMP	ADDR OF TRK ALLOCATE WORK AREA
344	(158)	ADDRESS	8	WRMTGMA	Address of temp TGM
352	(160)	SIGNED	4	WRMTGML	Length of temp TGM
356	(164)	SIGNED	4	WRMTGMSZ	4K Rounded size of temp TGM
360	(168)	ADDRESS	4	WRMJCTBF	JCT BUFFER ADDRESS
364	(16C)	ADDRESS	4	WRMIOTBF	IOT buffer address
368	(170)	SIGNED	4	WRMMTTR	SAVE AREA FOR MTTR
372	(174)	BITSTRING	4		Reserved
376	(178)	SIGNED	4	WRMMONXT	MTTR of IOT after mother
380	(17C)	SIGNED	4	WRMMOCUR	MTTR of current Mother IOT
384	(180)	BITSTRING	5	WRMWMQT	MQT work area
389	(185)	BITSTRING	3		Reserved
392	(188)	ADDRESS	4	WRMWCA	Addr warm start comm area
396	(18C)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE
400	(190)	ADDRESS	4	WRMESYSQ	Addr of $E SYS QSE
404	(194)	SIGNED	4	WRMDOMID	DOMID for HASP493
408	(198)	ADDRESS	4	WRMWSJQE	Single JQE to warm start
412	(19C)	ADDRESS	4	WRMJQE	Current JQA
416	(1A0)	SIGNED	4	WRMJQEOF	Offset of current real JQE
420	(1A4)	BITSTRING	32	WRMSUMSK	JOB SPLS USED MASK BUILD AREA
452	(1C4)	BITSTRING	8	WRMSDOWN	SYSTEM DOWN TABLE
460	(1CC)	SIGNED	2	WRMNRDAU	Number of daughter PCEs
462	(1CE)	BITSTRING	1		Reserved for future use
463	(1CF)	BITSTRING	1	WRMFLAG1	WARM START PROCESSOR STATUS BYTE
		1...		WRM1PCEM	"B'10000000'" This is a mother PCE
		.1..		WRM1PCED	"B'01000000'" This is a daughter PCE
		..1.		WRM1RERD	"B'00100000'" SET TO READ BOTH CHAINS OF IOTS
		...1		WRM1UNSP	"B'00010000'" UNSPUN IOT EXISTS FOR JOB

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		WRM1RDER	"B'00001000'" JCT READ ERROR OCCURRED
		.... .1..		WRM1CLSQ	"B'00000100'" Called from class queue
		.... ..1.		WRM1JQEJ	"B'00000010'" RUNNING JQE JOE CHAIN FOR JOB
		1		WRM1HLDQ	"B'00000001'" Called from Hold queue
464	(1D0)	ADDRESS	4	WRMCHKBF	CHK I/O BUFFER ADDRESS
468	(1D4)	BITSTRING	1	WRMFLAG2	WARM START JOB STATUS FLAG
		1...		WRM2TEST	"B'10000000'" REQUEUE JOB AFTER MORE TESTING
		.1..		WRM2PURG	"B'01000000'" REQUEUE JOB FOR PURGE
		..1.		WRM2NSPL	"B'00100000'" SPOOL NOT AVAILABLE
		...1		WRM2STRT	"B'00010000'" REQUEUE STARTING STC/TSU JOB
		.... 1...		WRM2NBSY	"B'00001000'" REQUEUE NON-BUSY JOB
		.... .1..		WRM2JERR	"B'00000100'" JOB HAS JCT ERROR
		.... ..1.		WRM2QREM	"B'00000010'" Remove job from the system
		1		WRM2MTTR	"B'00000001'" UPDATE JOB'S SPOOLS USED MASK FROM THE MTTR
469	(1D5)	BITSTRING	1	WRMFLAG3	WARM START FLAG BYTE 3
		1...		WRM3SIOT	"B'10000000'" SPIN IOT TO BE READ
		.1..		WRM3DAUG	"B'01000000'" Daughter IOT to process
		..1.		WRM3MACT	"B'00100000'" Mother PCE which is active
		...1		WRM3NICN	"B'00010000'" Not in init continuation
		.... 1...		WRM3PJOE	"B'00001000'" Processing JOE purge queue
		.... .1..		WRM3LOCK	"B'00000100'" Warm start lock acquired
		.... ..1.		WRM3DUPS	"B'00000010'" Duplicate jobs released
		1		WRM3RJOE	"B'00000001'" Processing JOE rebuild que
470	(1D6)	BITSTRING	1	WRMTYPE	Warm start type (bits are the same as those defined for $WARMTYP)
471	(1D7)	BITSTRING	1	WRMFLAG4	Warm Start flag byte 4
		1...		WRM4E58S	"B'10000000'" ENF58 signal should not be issued when a JOE is $#PUT back onto the queue
		.1..		WRM4NQIK	"B'01000000'" This member not quick startable => AMWS abort
		..1.		WRM4AMWS	"B'00100000'" This warmstart began as all member type
		...1		WRM4ALIC	"B'00010000'" Work found for ALICE
		.... 1...		WRM4DONE	"B'00001000'" Job already disposed of
		.... .1..		WRM4JLOK	"B'00000100'" Job lock acquired
		1		WRM4FAIL	"B'00000001'" $E MEMBER failed (only on in mother PCE)
472	(1D8)	BITSTRING	1	WRMSTAT1	Job state flag (See $WR1xxxx in HASPWARM)
473	(1D9)	BITSTRING	1	WRMFLAG5	Warm Start flag byte 5
		1...		WRM5JODL	"B'10000000'" JOE was deleted

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		WRM5NXST	"B'01000000'" SPOOL does not exist
		..1.		WRM5RSTR	"B'00100000'" Routine NQREQUE found job to be restartable
474	(1DA)	BITSTRING	2		Reserved for future use
476	(1DC)	ADDRESS	4	WRMMASTB	Address of Master table for various scenarios
480	(1E0)	DBL WORD	8	WRMTIMES	Timestamp used by DILBERT PCE to find mother warm start PCE
488	(1E8)	BITSTRING	2	WRMESQIX	ESQ index
490	(1EA)	BITSTRING	2		Reserved for future use
492	(1EC)	ADDRESS	4	WRMBLOB	Address of temporary checkpointed BLOB
496	(1F0)	SIGNED	4	WRMTGRSZ	WRMBLOB TGR element size
500	(1F4)	SIGNED	4	WRMJQEFA	Number of JQE warmstart failures
504	(1F8)	SIGNED	4	WRMQECB(0)	Confirm start msg ecb
528	(210)	CHARACTER	9	WRMQREPL	Confirm start reply area
------- $BLDMSG MF=L List form of $BLDMSG					
540	(21C)	SIGNED	4	WRMBLMSG(0)	Control block ID
544	(220)	BITSTRING	4		Console ID
548	(224)	ADDRESS	4		Address of the CART
552	(228)	ADDRESS	4		Pointer for JOBID
556	(22C)	ADDRESS	4		Control block address
560	(230)	ADDRESS	4		Display routine address
564	(234)	ADDRESS	4	(6)	6 word work area
588	(24C)	ADDRESS	4		Caller's R11 value
592	(250)	BITSTRING	2		ROUT code for Message
594	(252)	BITSTRING	2		Not used
596	(254)	CHARACTER	4		Message ID
600	(258)	CHARACTER	1		Separator character
601	(259)	ADDRESS	1		Flag byte 1
602	(25A)	ADDRESS	1		'DISPER'
603	(25B)	ADDRESS	1		Flag byte 2
604	(25C)	ADDRESS	1		Flag byte 3
605	(25D)	ADDRESS	1		Severity of message
606	(25E)	CHARACTER	8		Symbolic name of dest.
614	(266)	BITSTRING	14		Not used
628	(274)	ADDRESS	4	(0)	Ensure multiple of 4
628	(274)	ADDRESS	2	(0)	
------- $IOTERR MF=L List form of $IOTERR					
628	(274)	SIGNED	4	(0)	Align on fullword boundary
628	(274)	BITSTRING	1	WRM$SIR	$IOTERR parameter list
------- IARV64 MF=(L,WRMIARV),PLISTVER=MAX MF=L IARV64 MACDATE -03/01/19-<6>					
0	(0)	X'288'	0	M00M1119	"WRMIARV" ++ IARV64 NAME

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
648	(288)	DBL WORD	8	WRMIARV(0)	++ IARV64 PARM LIST
648	(288)	BITSTRING	1	WRMIARV_XVERSION	++ INPUT XVERSION
649	(289)	BITSTRING	1	WRMIARV_XREQUEST	++ XREQUEST
649	(289)	X'1'	0	WRMIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
649	(289)	X'2'	0	WRMIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
649	(289)	X'3'	0	WRMIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
649	(289)	X'4'	0	WRMIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
649	(289)	X'5'	0	WRMIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
649	(289)	X'6'	0	WRMIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
649	(289)	X'7'	0	WRMIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
649	(289)	X'8'	0	WRMIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
649	(289)	X'9'	0	WRMIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
649	(289)	X'A'	0	WRMIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
649	(289)	X'B'	0	WRMIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
649	(289)	X'C'	0	WRMIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
649	(289)	X'D'	0	WRMIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
649	(289)	X'E'	0	WRMIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
649	(289)	X'F'	0	WRMIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
649	(289)	X'10'	0	WRMIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
649	(289)	X'11'	0	WRMIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
649	(289)	X'12'	0	WRMIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
650	(28A)	BITSTRING	1	WRMIARV_XFLAGS0	++ FIELD_LABEL
		1...		WRMIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		WRMIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		WRMIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
651	(28B)	BITSTRING	1	WRMIARV_XKEY	++
652	(28C)	BITSTRING	1	WRMIARV_XFLAGS1	++ FIELD_LABEL
		1...		WRMIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		WRMIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		WRMIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		WRMIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		WRMIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		WRMIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		WRMIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		WRMIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
653	(28D)	BITSTRING	1	WRMIARV_XFLAGS2	++ FIELD_LABEL
		1...		WRMIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		WRMIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		WRMIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		WRMIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		WRMIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		WRMIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		WRMIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		WRMIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
654	(28E)	BITSTRING	1	WRMIARV_XFLAGS3	++ FIELD_LABEL
		1...		WRMIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		WRMIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		WRMIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		WRMIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		WRMIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		WRMIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		WRMIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		WRMIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
655	(28F)	BITSTRING	1	WRMIARV_XFLAGS4	++ FIELD_LABEL
		1...		WRMIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		WRMIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		WRMIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		WRMIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		WRMIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		WRMIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		WRMIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		WRMIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
656	(290)	DBL WORD	8	WRMIARV_XSEGMENTS	++
664	(298)	CHARACTER	16	WRMIARV_XTTOKEN	++
680	(2A8)	DBL WORD	8	WRMIARV_XUSERTKN	++
688	(2B0)	ADDRESS	8	WRMIARV_XORIGIN	++
696	(2B8)	ADDRESS	8	WRMIARV_XRANGLIST	++
704	(2C0)	ADDRESS	8	WRMIARV_XMEMOBJSTART	++
712	(2C8)	SIGNED	4	WRMIARV_XGUARDSIZE	++
716	(2CC)	SIGNED	4	WRMIARV_XCONVERTSIZE	++
720	(2D0)	SIGNED	4	WRMIARV_XALETVALUE	++
724	(2D4)	SIGNED	4	WRMIARV_XNUMRANGE	++
728	(2D8)	ADDRESS	4	WRMIARV_XV64LISTPTR	++
732	(2DC)	SIGNED	4	WRMIARV_XV64LISTLENGTH	++
736	(2E0)	DBL WORD	8	WRMIARV_XCONVERTSTART	++
744	(2E8)	DBL WORD	8	WRMIARV_XCONVERTSIZE64	++
752	(2F0)	DBL WORD	8	WRMIARV_XGUARDSIZE64	++
760	(2F8)	CHARACTER	8	WRMIARV_XUSERTOKEN	++
768	(300)	BITSTRING	1	WRMIARV_XDUMPPRIORITY	++
769	(301)	BITSTRING	1	WRMIARV_XFLAGS5	++ FIELD_LABEL
		1...		WRMIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		WRMIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		WRMIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		WRMIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		WRMIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		WRMIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		WRMIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		WRMIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
770	(302)	BITSTRING	1	WRMIARV_XFLAGS6	++ FIELD_LABEL
		1...		WRMIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		WRMIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		WRMIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		WRMIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		WRMIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		WRMIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		WRMIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		WRMIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
771	(303)	BITSTRING	1	WRMIARV_XFLAGS7	++ FIELD_LABEL
		1...		WRMIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		WRMIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		WRMIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		WRMIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		WRMIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		WRMIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		WRMIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		WRMIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
772	(304)	BITSTRING	1	WRMIARV_XDUMP	++ XDUMP
772	(304)	X'0'	0	WRMIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
772	(304)	X'1'	0	WRMIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
772	(304)	X'2'	0	WRMIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
772	(304)	X'3'	0	WRMIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
772	(304)	X'20'	0	WRMIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
772	(304)	X'21'	0	WRMIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
772	(304)	X'FF'	0	WRMIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
773	(305)	BITSTRING	1	WRMIARV_XFLAGS8	++ FIELD_LABEL
		1...		WRMIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		WRMIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		WRMIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		WRMIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		WRMIARV_XUSE2GTO64G_YES	"B'00001000'" ++ XUSE2GTO64G.YES KEYWORD
		.... .1..		WRMIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		WRMIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		1		WRMIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
774	(306)	BITSTRING	2	WRMIARV_XOWNERASID	++
776	(308)	BITSTRING	1	WRMIARV_XOPTIONVALUE	++
777	(309)	CHARACTER	8	WRMIARV_XRSV0001	++ RESERVED
785	(311)	CHARACTER	8	WRMIARV_XOWNERJOBNAME	++
793	(319)	CHARACTER	7	WRMIARV_XRSV0004	++ RESERVED
800	(320)	ADDRESS	8	WRMIARV_XDMAPAGETABLE	++
808	(328)	DBL WORD	8	WRMIARV_XUNITS	++

Table 571. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
816	(330)	BITSTRING	1	WRMIARV_XFLAGS9	++ FIELD_LABEL
		1...		WRMIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		WRMIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		WRMIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		WRMIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		WRMIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		WRMIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
817	(331)	BITSTRING	1	WRMIARV_XFLAGS10	++ FIELD_LABEL
		1...		WRMIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		WRMIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		WRMIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
818	(332)	CHARACTER	6	WRMIARV_XRSV0005	++ RESERVED
818	(332)	X'338'	0	WRMIARV_PL_END	"*" ++ END OF BASE PLIST
680	(2A8)	DBL WORD	8	WRMIARV_XOUTMOTKN	++
680	(2A8)	DBL WORD	8	WRMIARV_XMOTKN	++
704	(2C0)	ADDRESS	8	WRMIARV_XINORIGIN	++
824	(338)	X'B0'	0	WRMIARVL	"*-WRMIARV" ++ LENGTH OF PLIST
				IARV64-6	
824	(338)	DBL WORD	8	WRMI64SG	Number of segments
832	(340)	DBL WORD	8	WRMI64GR	Number of guard segments
840	(348)	DBL WORD	8	(0)	Align warm PCE work area
840	(348)	X'200'	0	WRMPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 572. Cross Reference for $WARMWRK

Name	Offset	Hex Tag
M00M1119	0	288
PCE	0	
WRM$SIR	274	
WRMBLMSG	21C	C2D3C440
WRMBLOB	1EC	
WRMCHKBF	1D0	
WRMCYLMP	154	
WRMDOMID	194	
WRMESQIX	1E8	
WRMESYSQ	190	
WRMFLAG1	1CF	
WRMFLAG2	1D4	
WRMFLAG3	1D5	
WRMFLAG4	1D7	
WRMFLAG5	1D9	
WRMIARV	288	

Table 572. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_KEYUSED_CONVERTSIZE64	28C	4
WRMIARV_KEYUSED_CONVERTSTART	28C	10
WRMIARV_KEYUSED_DUMP	303	80
WRMIARV_KEYUSED_GUARDSIZE64	28C	8
WRMIARV_KEYUSED_INORIGIN	331	80
WRMIARV_KEYUSED_KEY	28C	80
WRMIARV_KEYUSED_MOTKN	28C	2
WRMIARV_KEYUSED_OPTIONVALUE	303	40
WRMIARV_KEYUSED_OWNERJOBNAME	28C	1
WRMIARV_KEYUSED_SVCDUMPRGN	303	20
WRMIARV_KEYUSED_TTOKEN	28C	20
WRMIARV_KEYUSED_UNITS	330	80
WRMIARV_KEYUSED_USERTKN	28C	40
WRMIARV_PL_END	332	338
WRMIARV_XAFFINITY_SYSTEM	28E	40
WRMIARV_XALETVALUE	2D0	
WRMIARV_XAMOUNTSIZE_1MEG	302	2
WRMIARV_XAMOUNTSIZE_4K	302	4
WRMIARV_XATTRIBUTE_DEFS	303	10
WRMIARV_XATTRIBUTE_NOTOWNERGONE	303	4
WRMIARV_XATTRIBUTE_OWNERGONE	303	8
WRMIARV_XCHANGEACCESS_GLOBAL	28D	8
WRMIARV_XCLEAR_NO	28F	40
WRMIARV_XCOND_YES	28D	80
WRMIARV_XCONTROL_AUTH	28D	20
WRMIARV_XCONVERT_FROMGUARD	28F	2
WRMIARV_XCONVERT_TOGUARD	28F	4
WRMIARV_XCONVERTSIZE	2CC	
WRMIARV_XCONVERTSIZE64	2E8	
WRMIARV_XCONVERTSTART	2E0	
WRMIARV_XDETACHFIXED_YES	302	20
WRMIARV_XDISCARDPAGES_YES	0	4
WRMIARV_XDMAPAGETABLE	320	
WRMIARV_XDOAUTHCHECKS_YES	302	10
WRMIARV_XDUMP	304	
WRMIARV_XDUMP_ALL	304	FF
WRMIARV_XDUMP_LIKECSA	304	3
WRMIARV_XDUMP_LIKELSQA	304	21
WRMIARV_XDUMP_LIKERGN	304	20
WRMIARV_XDUMP_LIKESQA	304	2
WRMIARV_XDUMP_NO	304	1
WRMIARV_XDUMP_NONE	304	0
WRMIARV_XDUMPPRIORITY	300	
WRMIARV_XDUMPPROTOCOL_YES	301	80
WRMIARV_XEXECUTABLE_NO	0	1
WRMIARV_XEXECUTABLE_YES	0	2

Table 572. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XFLAGS0	28A	
WRMIARV_XFLAGS1	28C	
WRMIARV_XFLAGS10	331	
WRMIARV_XFLAGS2	28D	
WRMIARV_XFLAGS3	28E	
WRMIARV_XFLAGS4	28F	
WRMIARV_XFLAGS5	301	
WRMIARV_XFLAGS6	302	
WRMIARV_XFLAGS7	303	
WRMIARV_XFLAGS8	305	
WRMIARV_XFLAGS9	330	
WRMIARV_XFPROT_NO	28D	40
WRMIARV_XGUARDLOC_HIGH	28D	10
WRMIARV_XGUARDSIZE	2C8	
WRMIARV_XGUARDSIZE64	2F0	
WRMIARV_XINORIGIN	2C0	
WRMIARV_XKEEPREAL_NO	28F	1
WRMIARV_XKEY	28B	
WRMIARV_XLOCALSYSAREA_YES	302	8
WRMIARV_XLONG_NO	28F	80
WRMIARV_XMATCH_MOTOKEN	28A	20
WRMIARV_XMATCH_USERTOKEN	28E	80
WRMIARV_XMEMLIMIT_COND	302	1
WRMIARV_XMEMLIMIT_NO	302	40
WRMIARV_XMEMOBJSTART	2C0	
WRMIARV_XMOTKN	2A8	
WRMIARV_XMOTKNCREATOR_SYSTEM	28A	40
WRMIARV_XMOTKNSOURCE_SYSTEM	28A	80
WRMIARV_XNUMRANGE	2D4	
WRMIARV_XOPTIONVALUE	308	
WRMIARV_XORDER_DUMPPRIORITY	301	40
WRMIARV_XORIGIN	2B0	
WRMIARV_XOUTMOTKN	2A8	
WRMIARV_XOWNER_NO	28E	10
WRMIARV_XOWNERASID	306	
WRMIARV_XOWNERCOM_BYASID	301	1
WRMIARV_XOWNERCOM_HOME	301	8
WRMIARV_XOWNERCOM_PRIMARY	301	4
WRMIARV_XOWNERCOM_SYSTEM	301	2
WRMIARV_XOWNERJOBNAME	311	
WRMIARV_XPAGEFRAMESIZE_ALL	28D	1
WRMIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
WRMIARV_XPAGEFRAMESIZE_MAX	28D	2
WRMIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	305	80
WRMIARV_XPAGEFRAMESIZE_1M	330	10
WRMIARV_XPAGEFRAMESIZE_1MEG	28D	4

Table 572. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XPAGEFRAMESIZE_2G	330	8
WRMIARV_XRANGLIST	2B8	
WRMIARV_XREQUEST	289	
WRMIARV_XREQUEST_CHANGEACCESS	289	B
WRMIARV_XREQUEST_CHANGEGUARD	289	D
WRMIARV_XREQUEST_COUNTPAGES	289	10
WRMIARV_XREQUEST_DETACH	289	3
WRMIARV_XREQUEST_DISCARDDATA	289	7
WRMIARV_XREQUEST_GETCOMMON	289	F
WRMIARV_XREQUEST_GETSHARED	289	2
WRMIARV_XREQUEST_GETSTOR	289	1
WRMIARV_XREQUEST_LIST	289	E
WRMIARV_XREQUEST_PAGEFIX	289	4
WRMIARV_XREQUEST_PAGEIN	289	8
WRMIARV_XREQUEST_PAGEOUT	289	6
WRMIARV_XREQUEST_PAGEUNFIX	289	5
WRMIARV_XREQUEST_PCIEFIX	289	11
WRMIARV_XREQUEST_PCIEUNFIX	289	12
WRMIARV_XREQUEST_PROTECT	289	9
WRMIARV_XREQUEST_SHAREMEMOBJ	289	A
WRMIARV_XREQUEST_UNPROTECT	289	C
WRMIARV_XRSV0001	309	
WRMIARV_XRSV0004	319	
WRMIARV_XRSV0005	332	
WRMIARV_XSADMP_NO	0	10
WRMIARV_XSADMP_YES	0	20
WRMIARV_XSEGMENTS	290	
WRMIARV_XSENSITIVE_NO	331	20
WRMIARV_XSENSITIVE_YES	331	40
WRMIARV_XSVCDUMPRGN_ALL	28E	1
WRMIARV_XSVCDUMPRGN_NO	28E	4
WRMIARV_XTRACKINFO_YES	303	2
WRMIARV_XTTOKEN	298	
WRMIARV_XTYPE_DREF	301	10
WRMIARV_XTYPE_FIXED	330	4
WRMIARV_XTYPE_PAGEABLE	301	20
WRMIARV_XUNITS	328	
WRMIARV_XUNITSIZE_1M	330	40
WRMIARV_XUNITSIZE_2G	330	20
WRMIARV_XUNLOCKED_YES	303	1
WRMIARV_XUSERTKN	2A8	
WRMIARV_XUSERTOKEN	2F8	
WRMIARV_XUSE2GTO32G_YES	28E	20
WRMIARV_XUSE2GTO64G_YES	0	8
WRMIARV_XVERSION	288	
WRMIARV_XVIEW_HIDDEN	28F	8

Table 572. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XVIEW_READONLY	28F	20
WRMIARV_XVIEW_SHAREDWRITE	28F	10
WRMIARV_XV64COMMON_NO	302	80
WRMIARV_XV64LISTLENGTH	2DC	
WRMIARV_XV64LISTPTR	2D8	
WRMIARV_XV64SELECT_NO	28E	8
WRMIARV_XV64SHARED_NO	28E	2
WRMIARVL	338	B0
WRMIOTBF	16C	
WRMI64GR	340	
WRMI64SG	338	
WRMJCTBF	168	
WRMJQE	19C	
WRMJQEFA	1F4	
WRMJQEOF	1A0	
WRMMASTB	1DC	
WRMMOCUR	17C	
WRMMONXT	178	
WRMMTTR	170	
WRMNRDAU	1CC	
WRMOTHER	18C	
WRMPCEWS	348	200
WRMQECB	1F8	
WRMQREPL	210	40404040
WRMSDOWN	1C4	0
WRMSTAT1	1D8	
WRMSUMSK	1A4	
WRMTGMA	158	
WRMTGML	160	
WRMTGMSZ	164	
WRMTGRSZ	1F0	
WRMTIMES	1E0	0
WRMTQE	148	
WRMTYPE	1D6	
WRMWCA	188	
WRMWMQT	180	
WRMWSJQE	198	
WRM1CLSQ	1CF	4
WRM1HLDQ	1CF	1
WRM1JQEJ	1CF	2
WRM1PCED	1CF	40
WRM1PCEM	1CF	80
WRM1RDER	1CF	8
WRM1RERD	1CF	20
WRM1UNSP	1CF	10
WRM2JERR	1D4	4

Table 572. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRM2MTTR	1D4	1
WRM2NBSY	1D4	8
WRM2NSPL	1D4	20
WRM2PURG	1D4	40
WRM2QREM	1D4	2
WRM2STRT	1D4	10
WRM2TEST	1D4	80
WRM3DAUG	1D5	40
WRM3DUPS	1D5	2
WRM3LOCK	1D5	4
WRM3MACT	1D5	20
WRM3NICN	1D5	10
WRM3PJOE	1D5	8
WRM3RJOE	1D5	1
WRM3SIOT	1D5	80
WRM4ALIC	1D7	10
WRM4AMWS	1D7	20
WRM4DONE	1D7	8
WRM4E58S	1D7	80
WRM4FAIL	1D7	1
WRM4JLOK	1D7	4
WRM4NQIK	1D7	40
WRM5JODL	1D9	80
WRM5NXST	1D9	40
WRM5RSTR	1D9	20

$WAVE information

$WAVE programming interface information

$WAVE is a programming interface.

$WAVE heading information

Common name: Work Access Verification Element

Macro ID: $WAVE

DSECT name: WAVE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'WAVE'
Offset: WAVEID-WAVE
Length: 4

Storage attributes: Subpool: 0 (if done as part of $GETWORK);
6 (In JES2 initialization);
229 (At all other times)
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 or the User address spaces.

Size: See WAVLEN

Created by: Caller of $SEAS

Pointed to by:	SQDPARM1 field of the $SQD data area if the $SEAS request was issued from the Main Task. PCEWAVE field of the $PCE data area.
Serialization:	None
Function:	The Work Access Verification Element is the parameter list for the $RACROUT routine. It contains the list forms of the RACROUTE request types used by JES2.

$WAVE mapping

Table 573. Structure WAVE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WAVE	
0	(0)	CHARACTER	4	WAVEID	Control block ID
4	(4)	ADDRESS	1	WAVLEVEL	Control block version
		1		WAVERSN	"X'01'" Control block version equate
5	(5)	BITSTRING	1	WAVEPRIO	Priority of request
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	WAVESQD	Address of SQD
12	(C)	SIGNED	4	WAVRETCD	$RACROUT return code
16	(10)	SIGNED	4	WAVRSNCD	$RACROUT reason code
20	(14)	SIGNED	4	WAVRACRC	RACROUTE service return code
24	(18)	SIGNED	4	WAVRACCD	RACROUTE service reason code
28	(1C)	CHARACTER	4	WAVRCBN	Acronym of function related control block
32	(20)	ADDRESS	4	WAVRCBA	Address of function related control block
36	(24)	BITSTRING	1	WAVFUNCD	Function code Exits 36/37
37	(25)	BITSTRING	3		Reserved
40	(28)	ADDRESS	4	WAVJMSKA	Job mask address for Exit 36/37
44	(2C)	BITSTRING	1	WAVEXITP	Exit 36/37 indicators
		1...		WAVXJ2C	"B'10000000'" $SEAS JES2 coder
		.1..		WAVXUSR	"B'01000000'" $SEAS user coder
		..1.		WAVXMSGA	"B'00100000'" Message addr for $HASP077
		...1		WAVXFNCD	"B'00010000'" Function code for $HASP077
45	(2D)	SIGNED	1	WAVREQST	Request indicators
45	(2D)	X'1'	0	WAVRAUTH	"1" RACROUTE REQUEST=AUTH
45	(2D)	X'2'	0	WAVRTBLD	"2" RACROUTE REQUEST=TOKENBLD
45	(2D)	X'3'	0	WAVRTMAP	"3" RACROUTE REQUEST=TOKENMAP
45	(2D)	X'4'	0	WAVRTXTR	"4" RACROUTE REQUEST=TOKENXTR
45	(2D)	X'5'	0	WAVRVFYX	"5" RACROUTE REQUEST=VERIFYX
45	(2D)	X'6'	0	WAVRVFYC	"6" RACROUTE REQUEST=VERIFY CREATE
45	(2D)	X'7'	0	WAVRVFYD	"7" RACROUTE REQUEST=VERIFY DELETE
45	(2D)	X'8'	0	WAVRCMD	"8" CMDAUTH SERVICE
45	(2D)	X'9'	0	WAVRXTRT	"9" RACROUTE REQUEST=EXTRACT
45	(2D)	X'A'	0	WAVRAUD	"10" RACROUTE REQUEST=AUDIT
45	(2D)	X'B'	0	WAVRXTRB	"11" RACROUTE REQUEST=EXTRACT, BRANCH=YES
45	(2D)	X'C'	0	WAVRDIRA	"12" RACROUTE REQUEST=DIRAUTH

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
46	(2E)	BITSTRING	2		Reserved for future use
48	(30)	SIGNED	4	(0)	
48	(30)	BITSTRING	1	WAVFLAG1	Flags
		1...		WAV1SUBF	"B'10000000'" Subtasked $RACROUT failed
		.1..		WAV1WAIT	"B'01000000'" WAIT=YES requested
		.... ..1.		WAV1NCOD	"B'00000010'" User return code to be used
		1		WAV1BYPS	"B'00000001'" SAF call to be bypassed
49	(31)	BITSTRING	3		Reserved
52	(34)	SIGNED	4	WAVEXTLA	Address of extract list
56	(38)	BITSTRING	4		Reserved
60	(3C)	SIGNED	4	(0)	Align user reserved word
60	(3C)	BITSTRING	4	WAVURSV	Reserved for user
64	(40)	SIGNED	4	WAVRACRP(0)	Parameter lists
RACROUTE REQUEST=AUTH,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1499A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01508	"*"
168	(A8)	ADDRESS	1	IHB1499C	LENGTH OF RACHECK PARAMETER LIST
169	(A9)	ADDRESS	3		
172	(AC)	BITSTRING	1		
173	(AD)	ADDRESS	3		
176	(B0)	BITSTRING	1		
177	(B1)	ADDRESS	3		
180	(B4)	BITSTRING	1		Flag3
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD
188	(BC)	ADDRESS	4		- APPL ADDRESS
192	(C0)	ADDRESS	4		- ACEE ADDRESS
196	(C4)	ADDRESS	4		- OWNER ADDRESS.
200	(C8)	ADDRESS	4		ADDRESS OF INSTALLATION DATA
204	(CC)	ADDRESS	4		ENTITY OR PROFILE ADDRESS FIELD
208	(D0)	ADDRESS	4		CLASS NAME ADDRESS FIELD
212	(D4)	ADDRESS	4		VOLSER ADDR FIELD
216	(D8)	ADDRESS	4		- ACCESS VALUE ADDRESS.
220	(DC)	ADDRESS	4		- 2ND ACCESS ADDRESS.
224	(E0)	ADDRESS	2		FILESEQ
226	(E2)	BITSTRING	1		
227	(E3)	BITSTRING	1		
228	(E4)	ADDRESS	4		- USER NAME ADDRESS
232	(E8)	ADDRESS	4		- GROUP NAME ADDRESS
236	(EC)	ADDRESS	4		- DDNAME ADDRESS
240	(F0)	ADDRESS	4		- RESERVED
244	(F4)	ADDRESS	4		- UTOKEN ADDRESS
248	(F8)	ADDRESS	4		- RTOKEN ADDRESS
252	(FC)	ADDRESS	4		- LOGSTR ADDRESS
256	(100)	ADDRESS	4		- RECEIVER ADDRESS
		RACROUTE REQUEST=TOKENBLD,MF=L,RELEASE=1.9			
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1509A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01518	"*"
168	(A8)	ADDRESS	1	IHB1509C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
	RACROUTE REQUEST=TOKENMAP,MF=L,RELEASE=1.9				
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1519A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01528	"*"
168	(A8)	ADDRESS	4	IHB1519C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1528A(0)	
RACROUTE REQUEST=TOKENXTR,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1529A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01538	"*"
168	(A8)	ADDRESS	4	IHB1529C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1538A(0)	
RACROUTE REQUEST=VERIFYX,MF=L,RELEASE=7730					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1539A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 7730
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01548	"*"
168	(A8)	ADDRESS	1	IHB1539C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
268	(10C)	ADDRESS	4		- ENVRIN ADDRESS
272	(110)	ADDRESS	4		- ENVROUT ADDRESS
276	(114)	ADDRESS	4		- POENET ADDRESS FIELD
280	(118)	ADDRESS	4		- X500NAME FIELD
284	(11C)	ADDRESS	4		- RESERVED
288	(120)	ADDRESS	4		- SERVAUTH FIELD
292	(124)	ADDRESS	4		- PHRASE ADDRESS FIELD
296	(128)	ADDRESS	4		- NEWPHRASE ADDRESS FIELD
300	(12C)	ADDRESS	4		- ICTX ADDRESS FIELD

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
RACROUTE REQUEST=VERIFY,ENVIR=CREATE,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1549A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01558	"*"
168	(A8)	ADDRESS	1	IHB1549C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=VERIFY,ENVIR=DELETE,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1559A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01568	"*"
168	(A8)	ADDRESS	1	IHB1559C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1569A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	SIGNED	4	IHB1569C(0)	
168	(A8)	SIGNED	4	ICH1578A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1578B	"*" END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1578C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1578D(0)	

```
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,BRANCH=YES,
      MF=L,RELEASE=1.9
```

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1587A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	SIGNED	4	IHB1587C(0)	
168	(A8)	SIGNED	4	ICH1596A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1596B	"*" END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1596C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1596D(0)	
	RACROUTE REQUEST=AUDIT,MF=L,RELEASE=1.9				
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1605A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	IHB1605C(0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1614B	VERSION
170	(AA)	ADDRESS	2		LENGTH
172	(AC)	ADDRESS	4		
176	(B0)	ADDRESS	2		EVENT QUALIFIER
178	(B2)	ADDRESS	2		RESERVED
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	1		RESULT BYTE
197	(C5)	ADDRESS	3		RESERVED
200	(C8)	SIGNED	4	(4)	RESERVED
216	(D8)	SIGNED	2	ICH1614F(0)	END OF RACAUDIT PLIST

```
RACROUTE REQUEST=DIRAUTH,RESCSECLABEL=,
      RELEASE=7740,MF=L
```

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1620A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 7740
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01629	"*"
168	(A8)	BITSTRING	1	IHB1620C	LOG value
169	(A9)	ADDRESS	1		Parmlist version
170	(AA)	ADDRESS	2		Parmlist length
172	(AC)	ADDRESS	4		- RTOKEN Address
176	(B0)	BITSTRING	1		TYPE Value
177	(B1)	BITSTRING	1		ACCESS Value
178	(B2)	BITSTRING	1	(2)	Reserved
180	(B4)	ADDRESS	4		Classname address
184	(B8)	ADDRESS	4		RESCSECLABEL address
188	(BC)	ADDRESS	4		USERSECLABEL address
192	(C0)	ADDRESS	4		ACEE address
196	(C4)	ADDRESS	4		ACEEALET address
200	(C8)	ADDRESS	4		LOGSTR address
		Parameters for use with CMDAUTH Parm area used with $SEAS call			
64	(40)	ADDRESS	4	WAVCCRN	Command Resource Name addr
68	(44)	ADDRESS	4	WAVCTKN	ToKeN addr of cmd issuer
72	(48)	ADDRESS	4	WAVCTXT	Addr of command TeXT (preceded by a one byte length field
76	(4C)	ADDRESS	4	WAVCSSCM	Addr of SSCM
80	(50)	ADDRESS	4	WAVCARTA	Addr of command CART
84	(54)	BITSTRING	1	WAVCACL	Command ACess Level

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		WAVCNTRL	"B'00001000'" Control (system)
		.... .1..		WAVCUPD	"B'00000100'" Update (job, device)
		.... ..1.		WAVCREAD	"B'00000010'" Read (display)
85	(55)	BITSTRING	3		Reserved
88	(58)	SIGNED	4	WAVCUCMI	UCMID of console responsible for issuing the command
92	(5C)	ADDRESS	4	WAVCMSG	Address of message list (if any) returned by CMDAUTH
		List form of CMDAUTH used when calling CMDAUTH Generated label on equate for length will be WAVCALN CMDAUTH MF=(L,WAVCA,NODSECT)			
96	(60)	SIGNED	4	WAVCA(0)	-Parameter list
96	(60)	CHARACTER	4	WAVCA01	-'CAPL ' acronym
100	(64)	BITSTRING	1	WAVCA02	-Version level
101	(65)	BITSTRING	1	WAVCA03	-Security access level
102	(66)	BITSTRING	1	WAVCA04	-Miscellaneous flags
103	(67)	BITSTRING	1	WAVCA05	-Control block type
104	(68)	SIGNED	4	WAVCA06	-Subpool number for security interface
108	(6C)	ADDRESS	4	WAVCA07	-Address of requestor identifier
112	(70)	ADDRESS	4	WAVCA08	-Address of subsystem identifier
116	(74)	ADDRESS	4	WAVCA09	-Address of user specified control block
120	(78)	ADDRESS	4	WAVCA10	-Address of logstring
124	(7C)	ADDRESS	4	WAVCA11	-Address of entity name
128	(80)	CHARACTER	12	WAVCA12	-Reserved
128	(80)	X'2C'	0	WAVCALN	"*-WAVCA" -Length of parameter list
		Parameters for R_Usermap service (IRRSIM00)			
		Parameter list			
64	(40)	ADDRESS	4	WAVMPARM(13)	R_Usermap parameter list
		Values for parameters			
116	(74)	SIGNED	4	WAVMALET	ALET for parameters
120	(78)	SIGNED	4	WAVMDUM	Dummy entity (zeroes)
124	(7C)	SIGNED	2	WAVMFUNC	Function code
304	(130)	SIGNED	4	(0)	Alignment
304	(130)	X'F0'	0	WAVRACLN	"*-WAVRACRP" Length of longest parmlist
		The WAVRSRCN is used to build various resource names for SAF calls that may extend beyond 53 bytes. (Note that the JESSPOOL resource name is limited to 53 bytes.			
304	(130)	SIGNED	2	WAVRNAMS(0)	
304	(130)	CHARACTER	53	WAVRSRCN(0)	Max. resource name length
304	(130)	CHARACTER	8	WAVRNODE	Nodename portion
312	(138)	CHARACTER	1	WAVRSEP1	separator

Table 573. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
313	(139)	CHARACTER	44	WAVRDSNM	DSNAME portion
313	(139)	X'35'	0	WAVRSRCL	"*-WAVRSRCN" Resource name length
304	(130)	CHARACTER	53	WAVRJNAM	JESSPOOL Resource name
304	(130)	CHARACTER	63	WAVRINAM	ISFAUTH Resource name
304	(130)	CHARACTER	8	WAVRDCLS	DCT SECLABEL extract class
312	(138)	CHARACTER	39	WAVRDNAM	and resource name
304	(130)	CHARACTER	8	WAVSECLB	Seclabel for DIRAUTH
368	(170)	DBL WORD	8	(0)	Ensure doubleword alignment
368	(170)	CHARACTER	1024	WAVRRWK	Work area for RACF services
1392	(570)	DBL WORD	8	WAVEND(0)	Ensure WAVE ends on a dblw
1392	(570)	X'570'	0	WAVLEN	"WAVEND-WAVE" Length of WAVE

Table 574. Cross Reference for $WAVE

Name	Offset	Hex Tag
ICH01508	A8	A8
ICH01518	A8	A8
ICH01528	A8	A8
ICH01538	A8	A8
ICH01548	A8	A8
ICH01558	A8	A8
ICH01568	A8	A8
ICH01629	A8	A8
ICH1528A	C0	
ICH1538A	C0	
ICH1578A	A8	
ICH1578B	B0	B4
ICH1578C	D4	
ICH1578D	D4	
ICH1596A	A8	
ICH1596B	B0	B4
ICH1596C	D4	
ICH1596D	D4	
ICH1614B	A8	
ICH1614F	D8	
IHB1499A	40	40
IHB1499C	A8	
IHB1509A	40	40
IHB1509C	A8	
IHB1519A	40	40
IHB1519C	A8	
IHB1529A	40	40
IHB1529C	A8	
IHB1539A	40	40
IHB1539C	A8	
IHB1549A	40	40

Table 574. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
IHB1549C	A8	
IHB1559A	40	40
IHB1559C	A8	
IHB1569A	40	40
IHB1569C	A8	
IHB1587A	40	40
IHB1587C	A8	
IHB1605A	40	40
IHB1605C	A8	
IHB1620A	40	40
IHB1620C	A8	80
WAVCA	60	
WAVCACL	54	
WAVCALN	80	2C
WAVCARTA	50	
WAVCA01	60	
WAVCA02	64	
WAVCA03	65	
WAVCA04	66	
WAVCA05	67	
WAVCA06	68	
WAVCA07	6C	
WAVCA08	70	
WAVCA09	74	
WAVCA10	78	
WAVCA11	7C	
WAVCA12	80	
WAVCCRN	40	
WAVCMSG	5C	
WAVCNTRL	54	8
WAVCREAD	54	2
WAVCSSCM	4C	
WAVCTKN	44	
WAVCTXT	48	
WAVCUCMI	58	
WAVCUPD	54	4
WAVE	0	
WAVEID	0	E6C1E5C5
WAVEND	570	
WAVEPRIO	5	
WAVERSN	4	1
WAVESQD	8	
WAVEXITP	2C	
WAVEXTLA	34	
WAVFLAG1	30	
WAVFUNCD	24	

Table 574. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
WAVJMSKA	28	
WAVLEN	570	570
WAVLEVEL	4	
WAVMALET	74	
WAVMDUM	78	
WAVMFUNC	7C	
WAVMPARM	40	
WAVRACCD	18	
WAVRACLN	130	F0
WAVRACRC	14	
WAVRACRP	40	
WAVRAUD	2D	A
WAVRAUTH	2D	1
WAVRCBA	20	
WAVRCBN	1C	
WAVRCMD	2D	8
WAVRDCLS	130	
WAVRDIRA	2D	C
WAVRDNAM	138	
WAVRDSNM	139	
WAVREQST	2D	
WAVRETCD	C	
WAVRINAM	130	
WAVRJNAM	130	
WAVRNAMS	130	
WAVRNODE	130	
WAVRRWK	170	
WAVRSEP1	138	
WAVRSNCD	10	
WAVRSRCL	139	35
WAVRSRCN	130	
WAVRTBLD	2D	2
WAVRTMAP	2D	3
WAVRTXTR	2D	4
WAVRVFYC	2D	6
WAVRVFYD	2D	7
WAVRVFYX	2D	5
WAVRXTRB	2D	B
WAVRXTRT	2D	9
WAVSECLB	130	
WAVURSV	3C	
WAVXFNCD	2C	10
WAVXJ2C	2C	80
WAVXMSGA	2C	20
WAVXUSR	2C	40
WAV1BYPS	30	1

Table 574. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40

$WLMD information

$WLMD programming interface information

$WLMD is a programming interface.

$WLMD heading information

Common name:	Work Load Manager Data Bundle
Macro ID:	$WLMD
DSECT name:	WLMD
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	WLMD Offset: WLMID Length: L'WLMID
Storage attributes:	Subpool: 0 Key: 1 Residency: Anywhere
Size:	See WLMSIZE
Created by:	HASPIRDA
Pointed to by:	$WLMDATA of the HCT
Serialization:	None required
Function:	Container for WLM related data areas used for communicating with Work Load Manager

$WLMD mapping

Table 575. Structure WLMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WLMD	
0	(0)	CHARACTER	4	WLMID	Eye catcher
4	(4)	BITSTRING	4	WLMCONN	WLM connect token
		WLMSVDEF has a value of all FFs if the JESplex is using a WLM default service definition on each member.			
8	(8)	BITSTRING	32	WLMSVDEF	WLM service definition ID from the JES2 CKPT
40	(28)	BITSTRING	32	WLMCURSV	WLM service definition ID for this system (from WLM)
72	(48)	BITSTRING	32	WLMCKVSV	WLM service definition ID for checkpoint version
104	(68)	CHARACTER	16	WLMJTOK	Our Sysplex wide unique WLM token
120	(78)	BITSTRING	1	WLMFLAG1	Flags
		1...		WLM1DEF	"B'10000000'" WLMCURSV is a WLM default
121	(79)	BITSTRING	3		Reserved for future use

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Work areas used by JOBQSAMP to collect sampling data to pass to WLM. JOBQSAMP is called under the checkpoint version subtask and these fields are for use only by that service.			
124	(7C)	ADDRESS	4	WLMJSDSR	Address of IAZDSERV area
128	(80)	ADDRESS	4	WLMJSBQS	Address of IRABQS area
132	(84)	SIGNED	4	WLMJBQSZ	Size of DSERV/BQS/DJB
136	(88)	ADDRESS	4	WLMJSWRK	Work area address
140	(8C)	SIGNED	4	WLMJSWLN	Work area length
		Work areas used by WLMGOALS and QGET for initiator balancing			
144	(90)	SIGNED	4	WLMGSAFF(0)	Number of single-affinity jobs each member
272	(110)	SIGNED	4	WLMGMAFF(0)	Number of multi-affinity jobs each member
272	(110)	X'90'	0	WLMGCOUN	"WLMGSAFF,*-WLMGSAFF" Composite of all counters
400	(190)	BITSTRING	1	WLMGFLG1	Flags
		.1..		WLMG1PSX	"B'01000000'" $POSTXEQ required
		..1.		WLMG1SM	"B'00100000'" This is single member MAS
		...1		WLMG1DST	"B'00010000'" $DISTERR was done once
		.... 1...		WLMG1CHK	"B'00001000'" Hourly init count in progress
		.... .1..		WLMG1DEF	"B'00000100'" Hourly count delayed
404	(194)	SIGNED	4	WLMGSTON(0)	Stolen counts for current QGET
532	(214)	SIGNED	2	WLMGMAFG	Multi-Aff goal current QGET
534	(216)	SIGNED	2	WLMASID	WLM ASIDfor future use
536	(218)	ADDRESS	4	WLMGDJBS	Address of first DJB obtained by WLMGOALS
540	(21C)	SIGNED	4	WLMGJQUE	Number of jobs ready to run
544	(220)	BITSTRING	4	WLMGSECT	Selection mask before goal computation
548	(224)	BITSTRING	4	WLMGSECA	Selection mask during goal computation
552	(228)	BITSTRING	4	WLMGWACT	Members that can select WLM work (e.g. not $P, not $P XEQ)
556	(22C)	BITSTRING	1	WLMGNISY	Members not in independent mode
		Data areas for calling WLM services			
560	(230)	DBL WORD	8	WLMDATAD(0)	General double word area
560	(230)	SIGNED	4	WLMDATA1	General data area 1
564	(234)	SIGNED	4	WLMDATA2	General data area 2
568	(238)	SIGNED	4	WLMDATA3	General data area 3
572	(23C)	SIGNED	4	WLMDATA4	General data area 4
572	(23C)	X'230'	0	WLMDATAX	"WLMDATA1,16,C'X'" 16 byte work area
576	(240)	SIGNED	4	WLMRETCD	WLM service return code
580	(244)	SIGNED	4	WLMRESCD	WLM service reason code

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	BITSTRING	1	WLMLFUNC	Last function called (used for HASP712 message)
584	(248)	X'1'	0	WLMFCONN	"1" IWMCONN - connect
584	(248)	X'2'	0	WLMFPQRY	"2" IWMPQRY - query policy
584	(248)	X'3'	0	WLMFDISC	"3" IWMDISC - disconnect
584	(248)	X'4'	0	WLMFBREG	"4" IWMBREG - Registration
584	(248)	X'5'	0	WLMFDREG	"5" IWMBDREG - Deegistration
584	(248)	X'6'	0	WLMFCLAS	"6" IWMCLASFY - Classify
585	(249)	BITSTRING	3		Reserved
--BLDM $BLDMSG MF=L List form of $BLDMSG					
588	(24C)	SIGNED	4	WLMBLDM(0)	Control block ID
592	(250)	BITSTRING	4		Console ID
596	(254)	ADDRESS	4		Address of the CART
600	(258)	ADDRESS	4		Pointer for JOBID
604	(25C)	ADDRESS	4		Control block address
608	(260)	ADDRESS	4		Display routine address
612	(264)	ADDRESS	4	(6)	6 word work area
636	(27C)	ADDRESS	4		Caller's R11 value
640	(280)	BITSTRING	2		ROUT code for Message
642	(282)	BITSTRING	2		Not used
644	(284)	CHARACTER	4		Message ID
648	(288)	CHARACTER	1		Separator character
649	(289)	ADDRESS	1		Flag byte 1
650	(28A)	ADDRESS	1		'DISPER'
651	(28B)	ADDRESS	1		Flag byte 2
652	(28C)	ADDRESS	1		Flag byte 3
653	(28D)	ADDRESS	1		Severity of message
654	(28E)	CHARACTER	8		Symbolic name of dest.
662	(296)	BITSTRING	14		Not used
676	(2A4)	ADDRESS	4	(0)	Ensure multiple of 4
676	(2A4)	ADDRESS	2	(0)	
0	(0)	X'58'	0	WLMBLDML	"*-WLMBLDM" Length of $BLDMSG MF=L
676	(2A4)	SIGNED	4	WLMPORG(0)	Org label for inline parm lists
WLM connect					
0	(0)	X'2A8'	0	M00M1501	"WLMCONNL" ++ IWMCONN NAME
680	(2A8)	DBL WORD	8	WLMCONNL(0)	++ IWMCONN PARM LIST
680	(2A8)	BITSTRING	1	WLMCONNL_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMCONNL_XCONNECT_OPTIONS	++ FIELD_LABEL
		1...		WLMCONNL_XCONNTKNKEYP_VALUE	
					"B'10000000'" ++ XCONNTKNKEYP.VALUE KEYWORD
682	(2AA)	CHARACTER	1	WLMCONNL_XRSV0002	++ RESERVED XRSV0002
683	(2AB)	BITSTRING	1	WLMCONNL_XCONNTKNKEY	++ XCONNTKNKEY
684	(2AC)	CHARACTER	4	WLMCONNL_XSUBSYS	++ XSUBSYS

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
688	(2B0)	ADDRESS	4	WLMCONNL_XSUBSYSNM_ADDR	++ ADDR XSUBSYSNM
692	(2B4)	CHARACTER	4	WLMCONNL_XRSV000C	++ RESERVED XRSV000C
696	(2B8)	SIGNED	4	WLMCONNL_XNUMBERASCB	++ XNUMBERASCB
700	(2BC)	ADDRESS	4	WLMCONNL_XTOPOLOGY_ADDR	++ ADDR XTOPOLOGY
704	(2C0)	CHARACTER	4	WLMCONNL_XRSV0018	++ RESERVED XRSV0018
708	(2C4)	BITSTRING	4	WLMCONNL_XCONNTKN	++ XCONNTKN
712	(2C8)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++ XQMGR_EXIT@
712	(2C8)	X'2CC'	0	WLMCONNL_PL_END	"*" ++ END OF BASE PLIST
712	(2C8)	X'24'	0	WLMCONNLL	"*-WLMCONNL" ++ LENGTH OF PLIST
				IWMCONN-4	
WLM Disconnect					
MACDATE -11/09/04-<0>					
0	(0)	X'2A8'	0	M00M1503	"WLMDISCL" ++ IWMDISC NAME
680	(2A8)	DBL WORD	8	WLMDISCL(0)	++ IWMDISC PARM LIST
680	(2A8)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMDISCL_XOPTIONS	++ FIELD_LABEL XOPTIONS
682	(2AA)	CHARACTER	2	WLMDISCL_XRSV0002	++ RESERVED XRSV0002
684	(2AC)	BITSTRING	4	WLMDISCL_XCONNTKN	++ XCONNTKN
688	(2B0)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED XRSV0008
688	(2B0)	X'C'	0	WLMDISCLL	"*-WLMDISCL" ++ LENGTH OF PLIST
				IWMDISC-0	
WLM policy query					
MACDATE -02/26/97-<0>					
0	(0)	X'2A8'	0	M00M1504	"WLMPQRYL" ++ IWMPQRY NAME
680	(2A8)	DBL WORD	8	WLMPQRYL(0)	++ IWMPQRY PARM LIST
680	(2A8)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED XRSV0001
684	(2AC)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR XANSAREA
688	(2B0)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET XANSAREA
692	(2B4)	SIGNED	4	WLMPQRYL_XANSLEN	++ XANSLEN
696	(2B8)	SIGNED	4	WLMPQRYL_XQUERYLEN	++ XQUERYLEN
700	(2BC)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED XRSV0014
700	(2BC)	X'18'	0	WLMPQRYLL	"*-WLMPQRYL" ++ LENGTH OF PLIST
				IWMPQRY-0	
WLM queue registration					
MACDATE -04/02/97-<0>					
0	(0)	X'2A8'	0	M00M1505	"WLMQREG" ++ IWMBREG NAME
680	(2A8)	DBL WORD	8	WLMQREG(0)	++ IWMBREG PARM LIST
680	(2A8)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMQREG_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMQREG_XPLISTLEN	++ INPUT XPLISTLEN

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
684	(2AC)	CHARACTER	16	WLMQREG_XQTOKEN	++ XQTOKEN
700	(2BC)	CHARACTER	32	WLMQREG_XSVDEF_ID	++ XSVDEF_ID
732	(2DC)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR XAPPLENV
736	(2E0)	CHARACTER	8	WLMQREG_XSRVCLSNM	++ XSRVCLSNM
744	(2E8)	SIGNED	4	WLMQREG_XNUMSYS	++ XNUMSYS
748	(2EC)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED XRSV0044
748	(2EC)	X'4C'	0	WLMQREGL	"*-WLMQREG" ++ LENGTH OF PLIST
				IWMBREG-0	
		WLM queue deregistration			
		MACDATE -02/24/97-<0>			
0	(0)	X'2A8'	0	M00M1506	"WLMQDREG" ++ IWMBDREG NAME
680	(2A8)	DBL WORD	8	WLMQDREG(0)	++ IWMBDREG PARM LIST
680	(2A8)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMQDREG_XQTOKEN	++ XQTOKEN
700	(2BC)	BITSTRING	1	WLMQDREG_XDEREG_OPTIONS	++ FIELD_LABEL
		1...		WLMQDREG_XTYPE_SPECIFIC	"B'10000000'" ++ XTYPE.SPECIFIC KEYWORD
		.1..		WLMQDREG_XTYPE_ALL	"B'01000000'" ++ XTYPE.ALL KEYWORD
701	(2BD)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED XRSV0015
701	(2BD)	X'1C'	0	WLMQDREGL	"*-WLMQDREG" ++ LENGTH OF PLIST
				IWMBDREG-0	
		WLM service class validation			
		MACDATE -03/27/97-<0>			
0	(0)	X'2A8'	0	M00M1507	"WLMBSET" ++ IWMBSET NAME
680	(2A8)	DBL WORD	8	WLMBSET(0)	++ IWMBSET PARM LIST
680	(2A8)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED XRSV001
682	(2AA)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	BITSTRING	4	WLMBSET_XSERVCLS	++ XSERVCLS
688	(2B0)	CHARACTER	8	WLMBSET_XSRVCLSNM	++ XSRVCLSNM
696	(2B8)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED XRSV002
696	(2B8)	X'14'	0	WLMBSETL	"*-WLMBSET" ++ LENGTH OF PLIST
				IWMBSET-0	
		WLM scheduling environment availability testing			
0	(0)	X'2A8'	0	M00M1508	"WLMBSCHE" ++ IWMSEDES NAME
680	(2A8)	DBL WORD	8	WLMBSCHE(0)	++ IWMSEDES PARM LIST
680	(2A8)	BITSTRING	1	WLMBSCHE_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMBSCHE_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMBSCHE_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMBSCHE_XSCHENV	++ XSCHENV

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
700	(2BC)	CHARACTER	8	WLMBSCHE_XSYSTEM_NAME	++ XSYSTEM_NAME
708	(2C4)	CHARACTER	16	WLMBSCHE_XRSV001C	++ RESERVED XRSV001C
708	(2C4)	X'2C'	0	WLMBSCHEL	"*-WLMBSCHE" ++ LENGTH OF PLIST
				IWMSEDES-0	
				WLM scheduling environment definition testing	
				MACDATE -04/02/97-<0>	
0	(0)	X'2A8'	0	M00M1509	"WLMSEVAL" ++ IWMSEVAL NAME
680	(2A8)	DBL WORD	8	WLMSEVAL(0)	++ IWMSEVAL PARM LIST
680	(2A8)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMSEVAL_XSCHENV	++ XSCHENV
700	(2BC)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED XRSV0014
700	(2BC)	X'24'	0	WLMSEVALL	"*-WLMSEVAL" ++ LENGTH OF PLIST
				IWMSEVAL-0	
				WLM demand batch inquiry processing	
				MACDATE -01/19/15-<0>	
0	(0)	X'2A8'	0	M00M1510	"WLMBLOC" ++ IWMBLOC NAME
680	(2A8)	DBL WORD	8	WLMBLOC(0)	++ IWMBLOC PARM LIST
680	(2A8)	BITSTRING	1	WLMBLOC_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBLOC_XBLOC_OPTIONS	++ FIELD_LABEL
		1...		WLMBLOC_KEYUSED_NUMJOBS	"B'10000000'" ++ KEYUSED.NUMJOBS KEYWORD
		.1..		WLMBLOC_KEYUSED_POSONQUE	"B'01000000'" ++ KEYUSED.POSONQUE KEYWORD
682	(2AA)	BITSTRING	2	WLMBLOC_XPLISTLEN	++ INPUT
684	(2AC)	CHARACTER	16	WLMBLOC_XQTOKEN	++
700	(2BC)	ADDRESS	4	WLMBLOC_XSYSTEML_ADDR	++ ADDR
704	(2C0)	SIGNED	4	WLMBLOC_XNUMSYS	++
708	(2C4)	CHARACTER	8	WLMBLOC_XSRVCLSNM	++
716	(2CC)	CHARACTER	8	WLMBLOC_XSYSNAME	++
724	(2D4)	SIGNED	4	WLMBLOC_XNUMJOBS	++
728	(2D8)	SIGNED	4	WLMBLOC_XPOSONQUE	++
728	(2D8)	X'34'	0	WLMBLOCL	"*-WLMBLOC" ++ LENGTH OF PLIST
				IWMBLOC-0	
756	(2F4)	SIGNED	4	WLMSNUM	Number of MVS systems
760	(2F8)	CHARACTER	8	WLMSLIST(0)	List of MVS system names
				WLM demand batch request processing	
				MACDATE -01/19/15-<0>	
0	(0)	X'2A8'	0	M00M1511	"WLMBREQ" ++ IWMBREQ NAME

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
680	(2A8)	DBL WORD	8	WLMBREQ(0)	++ IWMBREQ PARM LIST
680	(2A8)	BITSTRING	1	WLMBREQ_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBREQ_XBREQ_OPTIONS	++ FIELD_LABEL
		1...		WLMBREQ_KEYUSED_JOBTOKENL	"B'10000000'" ++ KEYUSED.JOBTOKENL KEYWORD
		.1..		WLMBREQ_KEYUSED_NUMJOBS	"B'01000000'" ++ KEYUSED.NUMJOBS KEYWORD
682	(2AA)	BITSTRING	2	WLMBREQ_XPLISTLEN	++ INPUT
684	(2AC)	CHARACTER	8	WLMBREQ_XJOBTOKEN	++
692	(2B4)	CHARACTER	16	WLMBREQ_XQTOKEN	++
708	(2C4)	SIGNED	4	WLMBREQ_XNUMJOBS	++
712	(2C8)	ADDRESS	4	WLMBREQ_XJOBTOKENL_ADDR	++ ADDR
712	(2C8)	X'24'	0	WLMBREQL	"*-WLMBREQ" ++ LENGTH OF PLIST
				IWMBREQ-0	
		WLM service class reset processing			
		MACDATE -12/18/03-<0>			
0	(0)	X'2A8'	0	M00M1512	"WLMBRST" ++ IWMRESET NAME
680	(2A8)	DBL WORD	8	WLMBRST(0)	++ IWMRESET PARM LIST
680	(2A8)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBRST_XOPTIONS	++ FIELD_LABEL
		1...		WLMBRST_KEYUSED_SRVCLASS	"B'10000000'" ++ KEYUSED.SRVCLASS KEYWORD
		.1..		WLMBRST_KEYUSED_PERFORM	"B'01000000'" ++ KEYUSED.PERFORM KEYWORD
		..1.		WLMBRST_XFUNCTION_QUIESCE	"B'00100000'" ++ XFUNCTION.QUIESCE KEYWORD
		...1		WLMBRST_XFUNCTION_RESUME	"B'00010000'" ++ XFUNCTION.RESUME KEYWORD
		.... 1...		WLMBRST_KEYUSED_JOBNAME	"B'00001000'" ++ KEYUSED.JOBNAME KEYWORD
		.... .1..		WLMBRST_KEYUSED_ASID	"B'00000100'" ++ KEYUSED.ASID KEYWORD
682	(2AA)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	8	WLMBRST_XJOBNAME	++ XJOBNAME
692	(2B4)	BITSTRING	2	WLMBRST_XASID	++ XASID
694	(2B6)	BITSTRING	2	WLMBRST_XPERFORM	++ XPERFORM
696	(2B8)	CHARACTER	8	WLMBRST_XSRVCLASS	++ XSRVCLASS
704	(2C0)	CHARACTER	8	WLMBRST_XUSERID	++ XUSERID
712	(2C8)	CHARACTER	8	WLMBRST_XPRODUCT	++ XPRODUCT
712	(2C8)	X'28'	0	WLMBRSTL	"*-WLMBRST" ++ LENGTH OF PLIST
				IWMRESET-0	
		End of inline parm lists			
1016	(3F8)	X'2A4'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
1016	(3F8)	DBL WORD	8	(0)	Double word alignment
1016	(3F8)	SIGNED	4	WLMICHEK(2)	TOD for next initiator active check
1024	(400)	DBL WORD	8	(0)	Alignment

Table 575. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1024	(400)	X'400'	0	WLMSIZE	"*-WLMD" Size of bundle

Table 576. Cross Reference for $WLMD

Name	Offset	Hex Tag
M00M1501	0	2A8
M00M1503	0	2A8
M00M1504	0	2A8
M00M1505	0	2A8
M00M1506	0	2A8
M00M1507	0	2A8
M00M1508	0	2A8
M00M1509	0	2A8
M00M1510	0	2A8
M00M1511	0	2A8
M00M1512	0	2A8
WLMASID	216	
WLMBLDM	24C	C2D3C440
WLMBLDML	0	58
WLMBLOC	2A8	
WLMBLOC_KEYUSED_NUMJOBS	2A9	80
WLMBLOC_KEYUSED_POSONQUE	2A9	40
WLMBLOC_XBLOC_OPTIONS	2A9	
WLMBLOC_XNUMJOBS	2D4	
WLMBLOC_XNUMSYS	2C0	
WLMBLOC_XPLISTLEN	2AA	
WLMBLOC_XPOSONQUE	2D8	
WLMBLOC_XQTOKEN	2AC	
WLMBLOC_XSRVCLSNM	2C4	
WLMBLOC_XSYSNAME	2CC	
WLMBLOC_XSYSTEML_ADDR	2BC	
WLMBLOC_XVERSION	2A8	
WLMBLOCL	2D8	34
WLMBREQ	2A8	
WLMBREQ_KEYUSED_JOBTOKENL	2A9	80
WLMBREQ_KEYUSED_NUMJOBS	2A9	40
WLMBREQ_XBREQ_OPTIONS	2A9	
WLMBREQ_XJOBTOKEN	2AC	
WLMBREQ_XJOBTOKENL_ADDR	2C8	
WLMBREQ_XNUMJOBS	2C4	
WLMBREQ_XPLISTLEN	2AA	
WLMBREQ_XQTOKEN	2B4	
WLMBREQ_XVERSION	2A8	
WLMBREQL	2C8	24
WLMBRST	2A8	
WLMBRST_KEYUSED_ASID	2A9	4

Table 576. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMBRST_KEYUSED_JOBNAME	2A9	8
WLMBRST_KEYUSED_PERFORM	2A9	40
WLMBRST_KEYUSED_SRVCLASS	2A9	80
WLMBRST_XASID	2B4	
WLMBRST_XFUNCTION_QUIESCE	2A9	20
WLMBRST_XFUNCTION_RESUME	2A9	10
WLMBRST_XJOBNAME	2AC	
WLMBRST_XOPTIONS	2A9	
WLMBRST_XPERFORM	2B6	
WLMBRST_XPLISTLEN	2AA	
WLMBRST_XPRODUCT	2C8	
WLMBRST_XSRVCLASS	2B8	
WLMBRST_XUSERID	2C0	
WLMBRST_XVERSION	2A8	
WLMBRSTL	2C8	28
WLMBSCHE	2A8	
WLMBSCHE_XPLISTLEN	2AA	
WLMBSCHE_XRSV0001	2A9	
WLMBSCHE_XRSV001C	2C4	
WLMBSCHE_XSCHENV	2AC	
WLMBSCHE_XSYSTEM_NAME	2BC	
WLMBSCHE_XVERSION	2A8	
WLMBSCHEL	2C4	2C
WLMBSET	2A8	
WLMBSET_XPLISTLEN	2AA	
WLMBSET_XRSV001	2A9	
WLMBSET_XRSV002	2B8	
WLMBSET_XSERVCLS	2AC	
WLMBSET_XSRVCLSNM	2B0	
WLMBSET_XVERSION	2A8	
WLMBSETL	2B8	14
WLMCKVSV	48	
WLMCONN	4	
WLMCONNL	2A8	
WLMCONNL_PL_END	2C8	2CC
WLMCONNL_XCONNECT_OPTIONS	2A9	
WLMCONNL_XCONNTKN	2C4	
WLMCONNL_XCONNTKNKEY	2AB	
WLMCONNL_XCONNTKNKEYP_VALUE	2A9	80
WLMCONNL_XNUMBERASCB	2B8	
WLMCONNL_XQMGR_EXIT@	2C8	
WLMCONNL_XRSV000C	2B4	
WLMCONNL_XRSV0002	2AA	
WLMCONNL_XRSV0018	2C0	
WLMCONNL_XSUBSYS	2AC	
WLMCONNL_XSUBSYSNM_ADDR	2B0	

Table 576. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMCONNL_XTOPOLOGY_ADDR	2BC	
WLMCONNL_XVERSION	2A8	
WLMCONNLL	2C8	24
WLMCURSV	28	
WLMD	0	
WLMDATAD	230	
WLMDATAX	23C	230
WLMDATA1	230	
WLMDATA2	234	
WLMDATA3	238	
WLMDATA4	23C	
WLMDISCL	2A8	
WLMDISCL_XCONNTKN	2AC	
WLMDISCL_XOPTIONS	2A9	
WLMDISCL_XRSV0002	2AA	
WLMDISCL_XRSV0008	2B0	
WLMDISCL_XVERSION	2A8	
WLMDISCLL	2B0	C
WLMFBREG	248	4
WLMFCLAS	248	6
WLMFCONN	248	1
WLMFDISC	248	3
WLMFDREG	248	5
WLMFLAG1	78	
WLMFPQRY	248	2
WLMGCOUN	110	90
WLMGDJBS	218	
WLMGFLG1	190	
WLMGJQUE	21C	
WLMGMAFF	110	
WLMGMAFG	214	
WLMGNISY	22C	
WLMGSAFF	90	
WLMGSECA	224	
WLMGSECT	220	
WLMGSTON	194	
WLMGWACT	228	
WLMG1CHK	190	8
WLMG1DEF	190	4
WLMG1DST	190	10
WLMG1PSX	190	40
WLMG1SM	190	20
WLMICHEK	3F8	
WLMID	0	
WLMJBQSZ	84	
WLMJSBQS	80	

Table 576. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMJSDSR	7C	
WLMJSWLN	8C	
WLMJSWRK	88	
WLMJTOK	68	
WLMLFUNC	248	
WLMPARM	3F8	2A4
WLMPORG	2A4	
WLMPQRYL	2A8	
WLMPQRYL_XANSAREA_ADDR	2AC	
WLMPQRYL_XANSAREA_ALET	2B0	
WLMPQRYL_XANSLEN	2B4	
WLMPQRYL_XQUERYLEN	2B8	
WLMPQRYL_XRSV0001	2A9	
WLMPQRYL_XRSV0014	2BC	
WLMPQRYL_XVERSION	2A8	
WLMPQRYLL	2BC	18
WLMQDREG	2A8	
WLMQDREG_XDEREG_OPTIONS	2BC	
WLMQDREG_XPLISTLEN	2AA	
WLMQDREG_XQTOKEN	2AC	
WLMQDREG_XRSV0001	2A9	
WLMQDREG_XRSV0015	2BD	
WLMQDREG_XTYPE_ALL	2BC	40
WLMQDREG_XTYPE_SPECIFIC	2BC	80
WLMQDREG_XVERSION	2A8	
WLMQDREGL	2BD	1C
WLMQREG	2A8	
WLMQREG_XAPPLENV_ADDR	2DC	
WLMQREG_XNUMSYS	2E8	
WLMQREG_XPLISTLEN	2AA	
WLMQREG_XQTOKEN	2AC	
WLMQREG_XRSV0001	2A9	
WLMQREG_XRSV0044	2EC	
WLMQREG_XSRVCLSNM	2E0	
WLMQREG_XSVDEF_ID	2BC	
WLMQREG_XVERSION	2A8	
WLMQREGL	2EC	4C
WLMRESCD	244	
WLMRETCD	240	
WLMSEVAL	2A8	
WLMSEVAL_XPLISTLEN	2AA	
WLMSEVAL_XRSV0001	2A9	
WLMSEVAL_XRSV0014	2BC	
WLMSEVAL_XSCHENV	2AC	
WLMSEVAL_XVERSION	2A8	
WLMSEVALL	2BC	24

Table 576. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMSIZE	400	400
WLMSLIST	2F8	
WLMSNUM	2F4	
WLMSVDEF	8	
WLM1DEF	78	80

$WSA information

$WSA programming interface information

$WSA is a programming interface.

$WSA heading information

Common name: Work selection work area

Macro ID: $WSA

DSECT name: WSA

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'WSA '
Offset: WSAID-WSA
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage anywhere, in the private storage of the JES2 address space.

Size: See WSALEN

Created by: JES2 initialization

Pointed to by: $WSAPTR field of the $HCT data area

Serialization: JES2 Main Task - contents may be destroyed via any $WAIT

Function: Provides a work area for the work selection service routines ($#GET, GTSCREEN, WSSETUP, WSSERV).

$WSA mapping

Table 577. Structure WSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSA	WORK SELECTION AREA DSECT
0	(0)	CHARACTER	4	WSAID	WSA ID
4	(4)	BITSTRING	1	WSAVERS	VERSION NUMBER
4	(4)	X'3'	0	WSAVRSN	"3" Current version number
5	(5)	BITSTRING	3	WSARSV1	Reserved for future use
8	(8)	SIGNED	4	WSASRVSV(18)	WSSERV/WSSETUP SAVE AREA
80	(50)	SIGNED	4	WSASAVE(18)	GTSCREEN ROUTINE SAVE AREA
152	(98)	SIGNED	4	WSACLRST(0)	Put on fullword boundary
152	(98)	CHARACTER	104	WSAWKL1	Save area for exact mtch WS
256	(100)	CHARACTER	104	WSAWKL2	Save area for priority WS
360	(168)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
361	(169)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
362	(16A)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST

Table 577. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
442	(1BA)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
444	(1BC)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
448	(1C0)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
449	(1C1)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
450	(1C2)	BITSTRING	1	WSAFLAG1	$#GET WORK FLAG 1
		1...		WSA1OPT	"B'10000000'" OPTIONAL CRITERIA FLAG
		.1..		WSA1HOLD	"B'01000000'" HELD OUTPUT SELECTED
		..1.		WSA1BEST	"B'00100000'" BEST JOE FOUND FOR SPOF
		...1		WSA1CNET	"B'00010000'" Currently on network Q
		.... 1...		WSA1CHLD	"B'00001000'" Currently on hold Q
		.... .1..		WSA1CLOC	"B'00000100'" Currently on local Q
		.... ..1.		WSA1CRMT	"B'00000010'" Currently on remote Q
		1		WSA1CUSR	"B'00000001'" Currently on userid Q
450	(1C2)	X'1F'	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+ WSA1CUS R" Composition of all Qs
451	(1C3)	BITSTRING	1	WSAFLAG2	$#GET WORK FLAG 2
		1...		WSA2LOC	"B'10000000'" SCANNED LOCAL QUEUE
		.1..		WSA2USE	"B'01000000'" SCANNED USERID QUEUE
		..1.		WSA2RMT	"B'00100000'" SCANNED REMOTE QUEUE
		...1		WSA2RQTM	"B'00010000'" TERMINATE REMOTE QUEUE SCAN
		.... 1...		WSA2RQCN	"B'00001000'" CONTINUE REMOTE QUEUE SCAN
		.... .1..		WSA2NQTM	"B'00000100'" SELECT WORK FROM NETWORK Q
		.... ..1.		WSA2QQTM	"B'00000010'" Terminate current Q scan
		1		WSA2BSRC	"B'00000001'" Best route code found in current queue
452	(1C4)	BITSTRING	1	WSAFLAG3	$#GET/$#POST work flag 3
		1...		WSA3GJOA	"B'10000000'" WSAJOA obtained by WSSERV
		.1..		WSA3GJQA	"B'01000000'" JQA obtained by WSSERV rtn
		..1.		WSA3GOPT	"B'00100000'" $#GET optimized get performed
		...1		WSA3JPPS	"B'00010000'" JOE post-screening done
		.... 1...		WSANOOPT	"B'00001000'" $#GET caller specified optimized - but JOEINDEX index was not active OR JOEINDEX denoted legacy $#GET must be run
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	BITSTRING	25	WSABSTV	Best criteria value
481	(1E1)	BITSTRING	25	WSACURV	Current criteria value
506	(1FA)	BITSTRING	26	WSAWRMSK	Highest possible value mask
532	(214)	ADDRESS	4	WSATABS	ADDR OF WS TABLES
		1...		WSAUSER	"X'80'" WS USER CRITERION IND
536	(218)	SIGNED	4	WSALLIM	Number of lines chained
540	(21C)	SIGNED	4	WSAPLIM	Number of pages chained
544	(220)	ADDRESS	4	WSACBA(0)	CONTROL BLOCK ADDRESSES

Table 577. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
544	(220)	ADDRESS	4	WSAHCT	ADDR OF HCT
548	(224)	ADDRESS	4	WSAUCT	ADDR OF UCT
552	(228)	ADDRESS	4	WSADCT	Address of DCT or zero
556	(22C)	ADDRESS	4	WSAWSP	Address of WSP
560	(230)	ADDRESS	4	WSAWSA	ADDR OF WSA
564	(234)	ADDRESS	4	WSAJQE	ADDR OF JQE
568	(238)	ADDRESS	4	WSAPCE	Addr of PCE
572	(23C)	ADDRESS	4	WSAJCT	ADDR OF JCT
576	(240)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
580	(244)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
584	(248)	ADDRESS	4	WSAJOA	ADDR OF JOA
588	(24C)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
592	(250)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
596	(254)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
600	(258)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
604	(25C)	ADDRESS	4	WSANJHT	Security Section Job Hdr
608	(260)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
612	(264)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
616	(268)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
620	(26C)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
624	(270)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
628	(274)	ADDRESS	4	WSANDHT	Security Section DS Hdr
632	(278)	ADDRESS	4	WSANJHOX	Affinity section job header
636	(27C)	SIGNED	4	WSASTCK	High order word of TOD
640	(280)	ADDRESS	4	WSALST	ADDR OF WS LIST
644	(284)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
648	(288)	ADDRESS	4	WSANTRT	MVS NAME/TOKEN Retrieve rtn
652	(28C)	BITSTRING	128	WSAVOL(4)	VOLUME MASK
780	(30C)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
784	(310)	SIGNED	4	WSAMDSTU	Lowest special local route code
	Work area for ASAXWC macros				
788	(314)	SIGNED	4	WSADATAL	Length of input string MACDATE -12/21/18-<0>
0	(0)	X'318'	0	M00M1502	"WSALIST" ++ ASAXWC NAME
792	(318)	SIGNED	4	WSALIST(0)	++ ASAXWC PARM LIST
792	(318)	CHARACTER	4	WSALIST_XPARMAREA1	++ FIELD_LABEL
796	(31C)	CHARACTER	24	WSALIST_XPARMAREA2	++ FIELD_LABEL
796	(31C)	X'334'	0	WSALIST_PL_END	"*" ++ END OF BASE PLIST
792	(318)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR
796	(31C)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++
800	(320)	ADDRESS	4	WSALIST_XSTRING_ADDR	++ ADDR
804	(324)	SIGNED	4	WSALIST_XSTRINGLEN	++
808	(328)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR

Table 577. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
816	(330)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR
792	(318)	ADDRESS	4	WSALIST_XPPPATTERNINFO_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPPATTERNSTR_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPPATTERNSTRLEN	++
804	(324)	ADDRESS	4	WSALIST_XPPZEROORMORE_ADDR	++ ADDR
808	(328)	ADDRESS	4	WSALIST_XPPONECHAR_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XPPDELIMITER_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPSTRING_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPSTRINGLEN	++
820	(334)	X'1C'	0	WSALISTL	"*-WSALIST" ++ LENGTH OF PLIST
				ASAXWC-0	
820	(334)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
				Parameter list for MVS Name/Token retrieve service (IEANTRT).	
820	(334)	SIGNED	4	WSATKPRM(0)	IEANTRT parameter list
820	(334)	ADDRESS	4	WSATKLVA	Level address
824	(338)	ADDRESS	4	WSATKNMA	Name address
828	(33C)	ADDRESS	4	WSATKTKA	Token address
832	(340)	ADDRESS	4	WSATKRCA	Return code address
				Token information	
836	(344)	SIGNED	4	WSATKLVL	Task level for token
840	(348)	BITSTRING	16	WSATKTOK	Token of NAME/TOKEN pair
856	(358)	SIGNED	4	WSATKRET	Service return code
860	(35C)	BITSTRING	16	WSATKNAM	Name of NAME/Token pair
				$JCORBLD Job Correlator build service work area	
1076	(434)	CHARACTER	68	WSAJCOR	Job correlator
1144	(478)	DBL WORD	8	(0)	
1144	(478)	X'478'	0	WSAWSLN	"*-WSA" Length of area cleared by WSSETUP
				Nothing beyond this point is cleared by WSSETUP ASAXWC translate table	
1144	(478)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
				Work area for EBCDIC work selection list creation	
1400	(578)	BITSTRING	1	WSAWSLST	Work selection list (EBCDIC)
				Work area for $#GET "count" type call. Counts are accumulated for all JOEs which match the selection criteria.	
1628	(65C)	SIGNED	4	WSACTJOE	Number of JOEs matching
1632	(660)	SIGNED	4	WSACLINE	Number of lines

Table 577. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1636	(664)	SIGNED	4	WSACPAGE	Number of pages
1636	(664)	X'65C'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X'"
	Work area for $#POST				
1640	(668)	BITSTRING	576	WSATWSP	Temporary WSP
2216	(8A8)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
2266	(8DA)	BITSTRING	34	WSASPLWA	Working spools used mask
2300	(8FC)	ADDRESS	4	WSAPSGTW	Address of GTW
2304	(900)	SIGNED	4	(0)	Ensure fullword alignment
2304	(900)	X'900'	0	WSALEN	"*-WSA" LENGTH OF WSA

Table 578. Cross Reference for $WSA

Name	Offset	Hex Tag
M00M1502	0	318
WSA	0	
WSAAREA	334	
WSAASLAS	169	
WSABCLVL	1C1	
WSABSTV	1C8	
WSABSTWK	1BC	
WSACBA	220	
WSACJOE	244	
WSACLINE	660	
WSACLRST	98	
WSACLVAL	1C0	
WSACOUNT	664	65C
WSACPAGE	664	
WSACTJOE	65C	
WSACURV	1E1	
WSADATAL	314	
WSADCT	228	
WSADELIM	168	0
WSAFLAG1	1C2	
WSAFLAG2	1C3	
WSAFLAG3	1C4	
WSAFLG	1BA	0
WSAHCT	220	
WSAID	0	E6E2C140
WSAJCOR	434	
WSAJCT	23C	
WSAJOA	248	
WSAJQE	234	
WSALEN	900	900
WSALIST	318	
WSALIST_PL_END	31C	334

Table 578. Cross Reference for $WSA (continued)

Name	Offset	Hex Tag
WSALIST_XDELIMITER_ADDR	330	
WSALIST_XONECHAR_ADDR	32C	
WSALIST_XPARMAREA1	318	
WSALIST_XPARMAREA2	31C	
WSALIST_XPATTERNSTR_ADDR	318	
WSALIST_XPATTERNSTRLEN	31C	
WSALIST_XPPDELIMITER_ADDR	32C	
WSALIST_XPPONECHAR_ADDR	328	
WSALIST_XPPPATTERNINFO_ADDR	318	
WSALIST_XPPPATTERNSTR_ADDR	31C	
WSALIST_XPPPATTERNSTRLEN	320	
WSALIST_XPPSTRING_ADDR	31C	
WSALIST_XPPSTRINGLEN	320	
WSALIST_XPPZEROORMORE_ADDR	324	
WSALIST_XSTRING_ADDR	320	
WSALIST_XSTRINGLEN	324	
WSALIST_XZEROORMORE_ADDR	328	
WSALISTL	334	1C
WSALLIM	218	
WSALST	280	
WSALSTCR	284	
WSAMDSTR	30C	
WSAMDSTU	310	
WSANDHA	268	
WSANDHG	260	
WSANDHS	26C	
WSANDHT	274	
WSANDHU	270	
WSANDH2	264	
WSANJHG	24C	
WSANJHO	254	
WSANJHOX	278	
WSANJHT	25C	
WSANJHU	258	
WSANJH2	250	
WSANOOPT	1C4	8
WSANTRT	288	
WSAPCE	238	
WSAPLIM	21C	
WSAPRTBL	8A8	
WSAPSGTW	8FC	
WSARSV1	5	
WSASAVE	50	0
WSASPLWA	8DA	
WSASRVSV	8	0
WSASTCK	27C	

Table 578. Cross Reference for $WSA (continued)

Name	Offset	Hex Tag
WSASVLST	16A	F0F04040
WSATABS	214	
WSATKLVA	334	
WSATKLVL	344	
WSATKNAM	35C	
WSATKNMA	338	
WSATKPRM	334	
WSATKRCA	340	
WSATKRET	358	
WSATKTKA	33C	
WSATKTOK	348	
WSATRTAB	478	
WSATWSP	668	
WSAUCT	224	
WSAUSER	214	80
WSAVERS	4	
WSAVOL	28C	
WSAVRSN	4	3
WSAWJOE	240	
WSAWKL1	98	
WSAWKL2	100	
WSAWRMSK	1FA	
WSAWSA	230	
WSAWSLN	478	478
WSAWSLST	578	
WSAWSP	22C	
WSA1BEST	1C2	20
WSA1CHLD	1C2	8
WSA1CLOC	1C2	4
WSA1CNET	1C2	10
WSA1CRMT	1C2	2
WSA1CURQ	1C2	1F
WSA1CUSR	1C2	1
WSA1HOLD	1C2	40
WSA1OPT	1C2	80
WSA2BSRC	1C3	1
WSA2LOC	1C3	80
WSA2NQTM	1C3	4
WSA2QQTM	1C3	2
WSA2RMT	1C3	20
WSA2RQCN	1C3	8
WSA2RQTM	1C3	10
WSA2USE	1C3	40
WSA3GJOA	1C4	80
WSA3GJQA	1C4	40
WSA3GOPT	1C4	20

Table 578. Cross Reference for $WSA (continued)

Name	Offset	Hex Tag
WSA3JPPS	1C4	10

$WSC information

$WSC programming interface information

$WSC is a programming interface.

$WSC heading information

Common name:	WLM Service Class Queue Anchor
Macro ID:	$WSC
DSECT name:	WSC
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See WSCLEN
Created by:	$DOGWSCQ
Pointed to by:	Constructed dynamically from data in BERTs
Serialization:	None Required
Function:	The WSC serves as an anchor for the workload manager service class queue for a particular service class.

$WSC mapping

Table 579. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/ dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1...		WSC1DREG	"B'10000000'" WSCREG represents systems which have deregistered
		.1..		WSC1PERM	"B'01000000'" Permanent WSC
		..1.		WSC1IACT	"B'00100000'" At least one member needs to recompute its WSCIACT
		...1		WSC1INIT	"B'00010000'" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WSCLSTAD	Index of most recently added JQE/JQX

Table 579. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	1	WSCSELCT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity

```
The rules for counting initiators and executings
batch jobs as a consequence of a $TJnnn command
are as follows:
     o If a job was selected by a WINIT (WLM
Initiator), it is forever going to be included
when counting active jobs for a service class.
     o If a job was selected by a JINIT (JES
Initiator), it is forever not included when
counting active jobs for a service class.
     o If an executing job's service class is
changed from one class to another via a
$TJnnn,SRVCLASS=something (something can be all
blanks) or a RESET MVS command and the job was
selected by a WINIT, then the job will be removed
from the original service class count and added to
the new service class count (and the initiator
count will be changed similarly). The job count
can take as long as 30 seconds to be updated. The
initiator count is instanteneous.
     o If a characteristic of an executing job is
changed (something that influences the service
class assigned to the job), then nothing will be,
done to alter any counts. The service class is
not changed until and unless the job re-executes.
     o If a job's job class is changed to a
different class and that class has the opposite
mode of the original class (original was MODE=JES
and new has MODE=WLM or vice versa), there will be
no changing of active job count (If the job
started as a WINIT job, it stays a WINIT job; if
it started as a JINIT job, it stays a JINIT job).
```

40	(28)	SIGNED	4	WSCIACT(0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"

Table 580. Cross Reference for $WSC

Name	Offset	Hex Tag
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80

Table 580. Cross Reference for $WSC (continued)

Name	Offset	Hex Tag
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELCT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

$WSP information

$WSP programming interface information

The following fields are **NOT** programming interface information:

- WSPGTW
- WSPPRTBL

$WSP heading information

Common name: HASP Work Selection Parameter List

Macro ID: $WSP

DSECT name: WSP

Owning component: JES2 (SC1BH)

Eye-catcher ID:
WSP
Offset: WSPID2-WSP
Length: 4

Storage attributes:
Subpool: 2
Key: 1
Residency: Virtual and real are anywhere

Size: See WSPLENG

Created by:
As part of DCT creation (see $DCT).
Whenever SAPI (Sysout API) needs to select work

Pointed to by:
at label DCTCWS of the DCT
SAPWSP field of the SAP data area
WSAWSP field of the WSA data area
CCTSAWST/CCTSAWXO/CCTSAWXN fields of HCCT data area
WSPNACTV/WSPPACTV fields of WSP data area

Serialization: JES2 reentrancy techniques.

Function: The WSP is used as a parameter list for $#GET processing. The WSP is built either as part of a DCT or as a stand-alone data area created for SAPI processing.
The WSP contains selection criteria used to select JOEs or JQEs.
There are two types of WSPs for JOE selection:
- WSPs with selection by JOE token
- WSPs with selection expression based on the JOE fields
WSPs for JQE selection use selection expressions based on JQE felds.

$WSP mapping

Table 581. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/ dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1...		WSC1DREG	"B'10000000'" WSCREG represents systems which have deregistered
		.1..		WSC1PERM	"B'01000000'" Permanent WSC
		..1.		WSC1IACT	"B'00100000'" At least one member needs to recompute its WSCIACT
		...1		WSC1INIT	"B'00010000'" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WSCLSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELCT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity

Table 581. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					The rules for counting initiators and executings batch jobs as a consequence of a $TJnnn command are as follows: o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class. o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class. o If an executing job's service class is changed from one class to another via a $TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instanteneous. o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be, done to alter any counts. The service class is not changed until and unless the job re-executes. o If a job's job class is changed to a different class and that class has the opposite mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).
40	(28)	SIGNED	4	WSCIACT(0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"

Table 582. Cross Reference for $WSP

Name	Offset	Hex Tag
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	

Table 582. Cross Reference for $WSP (continued)

Name	Offset	Hex Tag
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELCT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

$XBCWORK information

$XBCWORK heading information

Common name: $XBCAST parameter list/work area

Macro ID: $XBCWORK

DSECT name: XBCWORK

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'XBCW'
Offset: XBCEYE
Length: L'XBCEYE

Storage attributes: Subpool: 1
Key: 1
Residency: JES2 address space. Virtual and Real are above or below the 16M line.

Size: See XBCWLEN

Created by: $XBCAST macro

Pointed to by: R1 when routine XCFBCAST is called

Serialization: JES2 main task re-entrancy.

Function: This control block contains the parameters and work area for the XCFBCAST routine. It is created and initialized by the $XBCAST macro.

$XBCWORK mapping

Table 583. Structure XBCWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XBCWORK	XBCAST parm list/work area
0	(0)	CHARACTER	4	XBCEYE	Eyecatcher
4	(4)	ADDRESS	1	XBCVERS	Version
4	(4)	X'1'	0	XBCVERSN	"1" Current version
5	(5)	BITSTRING	1	XBCOPT	Broadcast options:
		1...		XBSNDLOC	"B'10000000'" Send to local member
		.1..		XBXSYGRP	"B'01000000'" Use cross system data retrieval XCF group
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	XBCBUFA	Address of buffer to send

Table 583. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	XBCBUFL	Length of buffer
16	(10)	ADDRESS	4	XBCMASKA	Address of affinity field
20	(14)	ADDRESS	4	XBCMBNA	Address of mail box name
24	(18)	CHARACTER	16	XBCMEMBN	Member name work area
40	(28)	ADDRESS	4	XBCXGTKN	XCF group token work area
44	(2C)	BITSTRING	4		Reserved
48	(30)	DBL WORD	8	XBCXLST(0)	Doubleword aligned
------- IXZXIXSM MF=(L,XBCXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'30'	0	M00M1506	"XBCXIXSM" ++ IXZXIXSM NAME
48	(30)	DBL WORD	8	XBCXIXSM(0)	++ IXZXIXSM PARM LIST
48	(30)	BITSTRING	1	XBCXIXSM_XVERSION	++ INPUT XVERSION
49	(31)	CHARACTER	6	XBCXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
55	(37)	BITSTRING	1	XBCXIXSM_XMSGATTR	++ INPUT
		1...		XBCXIXSM_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		XBCXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
56	(38)	CHARACTER	16	XBCXIXSM_XMBOXNAME	++ XMBOXNAME
72	(48)	CHARACTER	16	XBCXIXSM_XMEMBER	++ XMEMBER
88	(58)	ADDRESS	4	XBCXIXSM_XDATA	++ XDATA
92	(5C)	SIGNED	4	XBCXIXSM_XDATALEN	++ XDATALEN
96	(60)	BITSTRING	8	XBCXIXSM_XREQTOKEN	++ XREQTOKEN
104	(68)	CHARACTER	16	XBCXIXSM_XREQMBOX	++ XREQMBOX
120	(78)	SIGNED	4	XBCXIXSM_XDATAALET	++ XDATAALET
124	(7C)	SIGNED	4	XBCXIXSM_XRESPDALT	++ XRESPDALT
128	(80)	SIGNED	4	XBCXIXSM_XECB	++ XECB
132	(84)	SIGNED	4	XBCXIXSM_XEXIT	++ XEXIT
136	(88)	BITSTRING	8	XBCXIXSM_XCONNECT	++ XCONNECT
144	(90)	SIGNED	4	XBCXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
148	(94)	SIGNED	4	XBCXIXSM_XUSERRC	++ XUSERRC
152	(98)	SIGNED	4	XBCXIXSM_XRESPDATA	++ XRESPDATA
156	(9C)	SIGNED	4	XBCXIXSM_XRESPDLEN	++ XRESPDLEN
160	(A0)	CHARACTER	4	XBCXIXSM_XRSV00001	++ RESERVED XRSV00001
164	(A4)	BITSTRING	8	XBCXIXSM_XMSGTOKEN	++ XMSGTOKEN
172	(AC)	SIGNED	4	XBCXIXSM_XRIPSIZE	++ XRIPSIZE
176	(B0)	BITSTRING	1	XBCXIXSM_XREQTYPE	++ INPUT
		1...		XBCXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		XBCXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		XBCXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		XBCXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
177	(B1)	BITSTRING	1	XBCXIXSM_XSEGTYPE	++ INPUT

Table 583. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		XBCXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		XBCXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		XBCXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		XBCXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		XBCXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
178	(B2)	BITSTRING	1	XBCXIXSM_XKEYS	++ FIELD_LABEL
		1...		XBCXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		XBCXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		XBCXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		XBCXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		XBCXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		XBCXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		XBCXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
179	(B3)	BITSTRING	1	XBCXIXSM_XKEYS1	++ FIELD_LABEL
		1...		XBCXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		XBCXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		XBCXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		XBCXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
179	(B3)	X'84'	0	XBCXIXSML	"*-XBCXIXSM" ++ LENGTH OF PLIST
				IXZXIXSM-2	
184	(B8)	DBL WORD	8	(0)	Doubleword aligned
184	(B8)	X'30'	0	XBCXLIST	"XBCXLST,*-XBCXLST" IXZ list form
184	(B8)	X'B8'	0	XBCWLEN	"*-XBCWORK" Length of work area

Table 584. Cross Reference for $XBCWORK

Name	Offset	Hex Tag
M00M1506	0	30
XBCBUFA	8	
XBCBUFL	C	
XBCEYE	0	
XBCMASKA	10	
XBCMBNA	14	
XBCMEMBN	18	
XBCOPT	5	

Table 584. Cross Reference for $XBCWORK (continued)

Name	Offset	Hex Tag
XBCVERS	4	
XBCVERSN	4	1
XBCWLEN	B8	B8
XBCWORK	0	
XBCXGTKN	28	
XBCXIXSM	30	
XBCXIXSM_KEYUSED_CONNECT	B2	4
XBCXIXSM_KEYUSED_DATAALET	B3	40
XBCXIXSM_KEYUSED_ECB	B3	80
XBCXIXSM_KEYUSED_EXIT	B2	10
XBCXIXSM_KEYUSED_MSGATTR	B2	1
XBCXIXSM_KEYUSED_MSGTOKEN	B2	2
XBCXIXSM_KEYUSED_RELEASE_CADS	B3	20
XBCXIXSM_KEYUSED_REQMBOX	B2	20
XBCXIXSM_KEYUSED_REQTOKEN	B2	40
XBCXIXSM_KEYUSED_REQTYPE	B2	80
XBCXIXSM_KEYUSED_RIPSIZE	B3	10
XBCXIXSM_KEYUSED_SEGTYPE	B2	8
XBCXIXSM_XCONNECT	88	
XBCXIXSM_XDATA	58	
XBCXIXSM_XDATAALET	78	
XBCXIXSM_XDATALEN	5C	
XBCXIXSM_XECB	80	
XBCXIXSM_XEXIT	84	
XBCXIXSM_XEYECATCH	31	
XBCXIXSM_XGROUPTOKEN	90	
XBCXIXSM_XKEYS	B2	
XBCXIXSM_XKEYS1	B3	
XBCXIXSM_XMBOXNAME	38	
XBCXIXSM_XMEMBER	48	
XBCXIXSM_XMSGATTR	37	
XBCXIXSM_XMSGATTR_EXPRESS	37	40
XBCXIXSM_XMSGATTR_J3CONNECT	37	80
XBCXIXSM_XMSGTOKEN	A4	
XBCXIXSM_XREQMBOX	68	
XBCXIXSM_XREQTOKEN	60	
XBCXIXSM_XREQTYPE	B0	
XBCXIXSM_XREQTYPE_ASYNC	B0	80
XBCXIXSM_XREQTYPE_ASYNCACK	B0	20
XBCXIXSM_XREQTYPE_COMM	B0	10
XBCXIXSM_XREQTYPE_SYNC	B0	40
XBCXIXSM_XRESPDALT	7C	
XBCXIXSM_XRESPDATA	98	
XBCXIXSM_XRESPDLEN	9C	
XBCXIXSM_XRIPSIZE	AC	
XBCXIXSM_XRSV00001	A0	

Table 584. Cross Reference for $XBCWORK (continued)

Name	Offset	Hex Tag
XBCXIXSM_XSEGTYPE	B1	
XBCXIXSM_XSEGTYPE_ABORT	B1	8
XBCXIXSM_XSEGTYPE_FIRST	B1	40
XBCXIXSM_XSEGTYPE_LAST	B1	10
XBCXIXSM_XSEGTYPE_MIDDLE	B1	20
XBCXIXSM_XSEGTYPE_SINGLE	B1	80
XBCXIXSM_XUSERRC	94	
XBCXIXSM_XVERSION	30	
XBCXIXSML	B3	84
XBCXLIST	B8	30
XBCXLST	30	
XBSNDLOC	5	80
XBXSYGRP	5	40

$XCMWORK information

$XCMWORK heading information

Common name: JES2 XCFCMND PCE Work Area

Macro ID: $XCMWORK

DSECT name: PCE ($XCMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol XCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $XCMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 XCFCMND Processor and by its support routines and exits. $XCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$XCMWORK mapping

Table 585. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	CHARACTER	16	XCMMBNAM	XCF CMD Mail box name
344	(158)	SIGNED	4	XCMXCECB(0)	XECB for XCF posts

Table 585. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
368	(170)	ADDRESS	4	XCMXBUFA	Address of current XREQ
372	(174)	ADDRESS	4	XCMXBUFP	Current data area pointer
376	(178)	SIGNED	4	XCMXBUFL	Current data area length
380	(17C)	BITSTRING	8	XCMXTOKN	Current XCF message token
388	(184)	ADDRESS	4	XCMACKPT	Acknowledgement XREQ ptr
392	(188)	SIGNED	4	XCMERRCT	ABEND count
		List form macros for JESXCF services			
400	(190)	DBL WORD	8	(0)	
400	(190)	BITSTRING	160	XCMIXLST	JESXCF list form macros
560	(230)	DBL WORD	8	XCMIXEND(0)	End of list form area
------- IXZXIXAC MF=(L,XCMXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'190'	0	M00M1510	"XCMXIXAC" ++ IXZXIXAC NAME
400	(190)	DBL WORD	8	XCMXIXAC(0)	++ IXZXIXAC PARM LIST
400	(190)	BITSTRING	1	XCMXIXAC_XVERSION	++ INPUT XVERSION
401	(191)	CHARACTER	6	XCMXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
407	(197)	BITSTRING	1	XCMXIXAC_XSTB	++ INPUT
		1...		XCMXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XCMXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
408	(198)	BITSTRING	8	XCMXIXAC_XMSGTOKEN	++ XMSGTOKEN
416	(1A0)	ADDRESS	4	XCMXIXAC_XDATA	++ XDATA
420	(1A4)	SIGNED	4	XCMXIXAC_XDATALEN	++ XDATALEN
424	(1A8)	SIGNED	4	XCMXIXAC_XUSERRC	++ XUSERRC
428	(1AC)	SIGNED	4	XCMXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
432	(1B0)	SIGNED	4	XCMXIXAC_XSYSRC	++ XSYSRC
436	(1B4)	SIGNED	4	XCMXIXAC_XSYSRSN	++ XSYSRSN
440	(1B8)	BITSTRING	1	XCMXIXAC_XKEYS	++ FIELD_LABEL
		1...		XCMXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		XCMXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		XCMXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		XCMXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XCMXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
441	(1B9)	BITSTRING	1	XCMXIXAC_XMSGATTR	++ INPUT
		1...		XCMXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		XCMXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
441	(1B9)	X'2A'	0	XCMXIXACL	"*-XCMXIXAC" ++ LENGTH OF PLIST
		IXZXIXAC-1			
442	(1BA)	ADDRESS	2	(0)	Ensure area fits

Table 585. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXMB MF=(L,XCMXIXMB) Create mailbox MACDATE -93/05/10-<1>					
400	(190)	SIGNED	2	M00M1512(0)	IXZXIXMB-1
400	(190)	DBL WORD	8	XCMXIXMB(0)	++ IXZXIXMB PARM LIST
400	(190)	BITSTRING	1	XCMXIXMB_XVERSION	++ INPUT XVERSION
401	(191)	CHARACTER	6	XCMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
407	(197)	CHARACTER	1	XCMXIXMB_XRSV0001	++ RESERVED XRSV0001
408	(198)	CHARACTER	16	XCMXIXMB_XMBOXNAME	++ XMBOXNAME
424	(1A8)	ADDRESS	4	XCMXIXMB_XPOSTXIT	++ XPOSTXIT
428	(1AC)	ADDRESS	4	XCMXIXMB_XPOSTDATA	++ XPOSTDATA
432	(1B0)	SIGNED	4	XCMXIXMB_XPOSTALET	++ XPOSTALET
436	(1B4)	SIGNED	4	XCMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
440	(1B8)	BITSTRING	1	XCMXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		XCMXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		XCMXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
440	(1B8)	X'29'	0	XCMXIXMBL	"*-XCMXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
442	(1BA)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,XCMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
400	(190)	SIGNED	2	M00M1513(0)	IXZXIXMD-1
400	(190)	DBL WORD	8	XCMXIXMD(0)	++ IXZXIXMD PARM LIST
400	(190)	BITSTRING	1	XCMXIXMD_XVERSION	++ INPUT XVERSION
401	(191)	CHARACTER	6	XCMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
407	(197)	BITSTRING	1	XCMXIXMD_XSTB	++ INPUT
		1...		XCMXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XCMXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
408	(198)	CHARACTER	16	XCMXIXMD_XMBOXNAME	++ XMBOXNAME
424	(1A8)	SIGNED	4	XCMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
424	(1A8)	X'1C'	0	XCMXIXMDL	"*-XCMXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
428	(1AC)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,XCMXIXRM) Receive message MACDATE -93/05/10-<1>					
400	(190)	SIGNED	2	M00M1514(0)	IXZXIXRM-1
400	(190)	DBL WORD	8	XCMXIXRM(0)	++ IXZXIXRM PARM LIST
400	(190)	BITSTRING	1	XCMXIXRM_XVERSION	++ INPUT XVERSION
401	(191)	CHARACTER	6	XCMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
407	(197)	CHARACTER	1	XCMXIXRM_XRSV0001	++ RESERVED XRSV0001
408	(198)	CHARACTER	16	XCMXIXRM_XMBOXNAME	++ XMBOXNAME
424	(1A8)	ADDRESS	4	XCMXIXRM_XDATA	++ XDATA

Table 585. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
428	(1AC)	SIGNED	4	XCMXIXRM_XDATALEN	++ XDATALEN
432	(1B0)	BITSTRING	8	XCMXIXRM_XMSGTOKEN	++ XMSGTOKEN
440	(1B8)	SIGNED	4	XCMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
444	(1BC)	BITSTRING	1	XCMXIXRM_XMSGFETCH	++ INPUT
		1...		XCMXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		XCMXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		XCMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		XCMXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
445	(1BD)	BITSTRING	1	XCMXIXRM_XKEYS	++ FIELD_LABEL
		1...		XCMXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
445	(1BD)	X'2E'	0	XCMXIXRML	"*-XCMXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
446	(1BE)	ADDRESS	2	(0)	Ensure area fits
	$SCAN output work area				
560	(230)	CHARACTER	1024	XCMSCANW	SCAN message work area
1584	(630)	ADDRESS	4	XCMXSJBQ	Address of current SJB queue head
1592	(638)	DBL WORD	8	(0)	Force double-word alignment
1592	(638)	X'4F0'	0	XCMPCEWS	"*-PCEWORK" Length of work area

Table 586. Cross Reference for $XCMWORK

Name	Offset	Hex Tag
M00M1510	0	190
M00M1512	190	
M00M1513	190	
M00M1514	190	
PCE	0	
XCMACKPT	184	
XCMERRCT	188	
XCMIXEND	230	
XCMIXLST	190	
XCMMBNAM	148	E2E8E2D1
XCMPCEWS	638	4F0
XCMSCANW	230	
XCMXBUFA	170	
XCMXBUFL	178	
XCMXBUFP	174	
XCMXCECB	158	
XCMXIXAC	190	

Table 586. Cross Reference for $XCMWORK (continued)

Name	Offset	Hex Tag
XCMXIXAC_KEYUSED_DATA	1B8	80
XCMXIXAC_KEYUSED_DATALEN	1B8	40
XCMXIXAC_KEYUSED_SYSRC	1B8	10
XCMXIXAC_KEYUSED_SYSRSN	1B8	8
XCMXIXAC_KEYUSED_USERRC	1B8	20
XCMXIXAC_XDATA	1A0	
XCMXIXAC_XDATALEN	1A4	
XCMXIXAC_XEYECATCH	191	
XCMXIXAC_XGROUPTOKEN	1AC	
XCMXIXAC_XKEYS	1B8	
XCMXIXAC_XMSGATTR	1B9	
XCMXIXAC_XMSGATTR_EXPRESS	1B9	40
XCMXIXAC_XMSGATTR_J3CONNECT	1B9	80
XCMXIXAC_XMSGTOKEN	198	
XCMXIXAC_XSTB	197	
XCMXIXAC_XSTB_NO	197	80
XCMXIXAC_XSTB_YES	197	40
XCMXIXAC_XSYSRC	1B0	
XCMXIXAC_XSYSRSN	1B4	
XCMXIXAC_XUSERRC	1A8	
XCMXIXAC_XVERSION	190	
XCMXIXACL	1B9	2A
XCMXIXMB	190	
XCMXIXMB_XEYECATCH	191	
XCMXIXMB_XGROUPTOKEN	1B4	
XCMXIXMB_XMBOXNAME	198	
XCMXIXMB_XPOSTALET	1B0	
XCMXIXMB_XPOSTDATA	1AC	
XCMXIXMB_XPOSTXIT	1A8	
XCMXIXMB_XRSV0001	197	
XCMXIXMB_XSYSEVENT_NO	1B8	40
XCMXIXMB_XSYSEVENT_YES	1B8	80
XCMXIXMB_XSYSEVENTS	1B8	
XCMXIXMB_XVERSION	190	
XCMXIXMBL	1B8	29
XCMXIXMD	190	
XCMXIXMD_XEYECATCH	191	
XCMXIXMD_XGROUPTOKEN	1A8	
XCMXIXMD_XMBOXNAME	198	
XCMXIXMD_XSTB	197	
XCMXIXMD_XSTB_NO	197	80
XCMXIXMD_XSTB_YES	197	40
XCMXIXMD_XVERSION	190	
XCMXIXMDL	1A8	1C
XCMXIXRM	190	
XCMXIXRM_KEYUSED_MSGFETCH	1BD	80

Table 586. Cross Reference for $XCMWORK (continued)

Name	Offset	Hex Tag
XCMXIXRM_XDATA	1A8	
XCMXIXRM_XDATALEN	1AC	
XCMXIXRM_XEYECATCH	191	
XCMXIXRM_XGROUPTOKEN	1B8	
XCMXIXRM_XKEYS	1BD	
XCMXIXRM_XMBOXNAME	198	
XCMXIXRM_XMSGFETCH	1BC	
XCMXIXRM_XMSGFETCH_ACKS	1BC	10
XCMXIXRM_XMSGFETCH_ALL	1BC	80
XCMXIXRM_XMSGFETCH_MESSAGES	1BC	40
XCMXIXRM_XMSGFETCH_SYSEVENT	1BC	20
XCMXIXRM_XMSGTOKEN	1B0	
XCMXIXRM_XRSV0001	197	
XCMXIXRM_XVERSION	190	
XCMXIXRML	1BD	2E
XCMXSJBQ	630	
XCMXTOKN	17C	

$XECB information

$XECB programming interface information

$XECB is a programming interface.

$XECB heading information

Common name: JES2 Extended event control block

Macro ID: $XECB

DSECT name: XECB

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes:
Subpool: Any
Key: Any system key (0-7)
Residency: Anywhere in the private address space

Size: See XECBLEN

Created by: Generally part of other data areas

Pointed to by:
$EXTECBQ field of the $HCT data area
$XECBQ field of the $HCT data area
XECBCHNS field of the $XECB data area
XECBPSTC field of the $XECB data area

Serialization: The XECBCHNS field may only be changed by the JES2 main task. The XECBPSTC field must be updated via compare and swap logic. Standard ECB serialization techniques must be used to update the XECBECB field. These include owning the local lock to update an initialized ECB (X'80000000' of the XECBECB field) and compare and swap if not.

Function: XECBs are used for 2 purposes depending on the environment. In the JES2 main task, they are used to ensure a PCE is $POSTed when an ECB is posted. This uses the first mapping of the XECB and the $WAIT, $XECBSRV, and MVS post service.
The second use of XECBs can occur in any environment. This function allows for a processing routine to get control when the ECB is posted. In this case, the $XECBSRV service is used to set up the XECB, identify the processing routine and the parameter to pass to the processing routine. The processing routine can get control in task or SRB mode. See $XECBSRV for more information.

$XECB mapping

Table 587. Structure XECB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XECB	XECB DSECT
0	(0)	SIGNED	4	XECBECB	EXTENDED EVENT CONTROL BLOCK
4	(4)	SIGNED	4	XECBPCE	PCE to dispatch on MVS POST (high bit off)
8	(8)	BITSTRING	12	XECBCHNS(0)	NEXT 3 FIELDS STAY TOGETHER
8	(8)	SIGNED	4	XECBQNXT	A(NEXT XECB) ON $XECBQ
12	(C)	SIGNED	4	XECBPSTC	POSTED ECB CHAINING FIELD
16	(10)	SIGNED	4	XECBQPRV	A(PREVIOUS XECB) ON $XECBQ
20	(14)	BITSTRING	1	XECBFLG1	General flag byte
		1...		XECB1CNV	"B'10000000'" ECB has been converted
		.1..		XECB1PRI	"B'01000000'" High priority PCE waiting
21	(15)	BITSTRING	3		Reserved
21	(15)	X'18'	0	XECBLEN	"*-XECB" EXTENDED ECB STRUCTURE LENGTH
		Extended ECB for non-main task services			
4	(4)	ADDRESS	4	XECBRTN	Processing routine address (high bit on)
8	(8)	DBL WORD	8	XECBPRM0	Register 0 on entry
16	(10)	DBL WORD	8	XECBPRM1	Register 1 on entry
16	(10)	X'18'	0	XECBULEN	"*-XECB" Length of XECB
24	(18)	ADDRESS	2	(0)	Ensure both XECBs
24	(18)	ADDRESS	2	(0)	are the same length

Table 588. Cross Reference for $XECB

Name	Offset	Hex Tag
XECB	0	
XECBCHNS	8	
XECBECB	0	
XECBFLG1	14	
XECBLEN	15	18
XECBPCE	4	
XECBPRM0	8	
XECBPRM1	10	
XECBPSTC	C	
XECBQNXT	8	

Table 588. Cross Reference for $XECB (continued)

Name	Offset	Hex Tag
XECBQPRV	10	
XECBRTN	4	
XECBULEN	10	18
XECB1CNV	14	80
XECB1PRI	14	40

$XEQWORK information

$XEQWORK programming interface information

$XEQWORK is a programming interface.

$XEQWORK heading information

Common name: JES2 Execution PCE Work Area

Macro ID: $XEQWORK

DSECT name: PCE ($XEQWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol XEQPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: $EXECPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Execution Processor and by its support routines and exits. $XEQWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XEQWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXEQID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$XEQWORK mapping

Table 589. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
328	(148)	SIGNED	4	XEQOFFST	SJB QUEUE TABLE OFFSET
332	(14C)	SIGNED	4	XEQXPARM(0)	EXIT PARM LIST
332	(14C)	SIGNED	4	XEQXSJB	EXIT PARM ONE
336	(150)	SIGNED	4	XEQNXTTK	NEXT CKPT TOKEN TO $CHECK
340	(154)	SIGNED	4	XEQLSTTK	LAST CKPT TOKEN $CHECKED
344	(158)	SIGNED	4	XEQTOPST	CKPT TOKEN TO BE POSTED

Table 589. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
348	(15C)	SIGNED	4	XEQXECB(0)	HASPXEQ SVJ lock ENQ ECB and jobgroup logging termination
372	(174)	SIGNED	4	XEQENQST(0)	True start of ENQ list
MACRO-DATE = 03/16/15					
372	(174)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
372	(174)	ADDRESS	4		PREFIX - ECB ADDRESS
372	(174)	X'178'	0	XEQENQPL	"*" X02113
376	(178)	ADDRESS	1		PELLAST flag byte. X02113
377	(179)	ADDRESS	1		PELMILEN - RNAME length.
378	(17A)	BITSTRING	1		
PELFLAG - flag byte 2.					
379	(17B)	ADDRESS	1		PELRET - return code byte.
380	(17C)	ADDRESS	4		QNAME ADDRESS
384	(180)	ADDRESS	4		RNAME ADDRESS
384	(180)	X'174'	0	XEQENQL	"XEQENQST,*-XEQENQST" ENQ parm length, IPCS use
388	(184)	SIGNED	4	XEQDEQST(0)	True start of DEQ list
MACRO-DATE = 03/16/2015					
388	(184)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
388	(184)	X'184'	0	XEQDEQPL	"*" X02113
388	(184)	ADDRESS	1		PELLAST flag byte. X02113
389	(185)	ADDRESS	1		PELMILEN - RNAME length.
390	(186)	BITSTRING	1		
PELFLAG - flag byte 2.					
391	(187)	ADDRESS	1		PELRET - return code byte.
392	(188)	ADDRESS	4		QNAME ADDRESS
396	(18C)	ADDRESS	4		RNAME ADDRESS
396	(18C)	X'184'	0	XEQDEQL	"XEQDEQST,*-XEQDEQST" DEQ parm length, IPCS use
400	(190)	CHARACTER	108	XEQMSGWA	$WTO work area
508	(1FC)	ADDRESS	4	XEQPARM	NODE TABLE ADDRESS
512	(200)	ADDRESS	4		CONTROL BLOCK ADDRESS
516	(204)	ADDRESS	4		ADDRESS OF JQE
520	(208)	ADDRESS	1		QUEUE TYPE SPECIFIED
521	(209)	ADDRESS	1		WORK SELECTION TYPE FLAG
522	(20A)	ADDRESS	1		Response byte flags
523	(20B)	ADDRESS	1		Reserved
523	(20B)	X'1FC'	0	XEQLST	"XEQPARM,*-XEQPARM" QGET PARAMETER LIST STORAGE
524	(20C)	BITSTRING	1	XEQSJBF1	SJBFLG1 after SJB is freed
525	(20D)	BITSTRING	1	XEQSJBF2	SJBFLG2 after SJB is freed
526	(20E)	BITSTRING	1	XEQFLAG1	Flags

Table 589. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		XEQ1NDUP	"B'10000000'" Skip release of jobs with duplicate jobnames
		.1..		XEQ1SCAN	"B'01000000'" Do scan of inits
		..1.		XEQ1X14	"B'00100000'" Exit 14 enabled
		...1		XEQ1NOPT	"B'00010000'" Don't optimize class list/ service class list
		.... 1...		XEQ1714I	"B'00001000'" 714 message issued at least once
		.... .1..		XEQ1PHDT	"B'00000100'" Dump taken at $PJES2 time for outstanding AS's
		.... ..1.		XEQ1PHDS	"B'00000010'" Conditions ripe to take HASP714 dump
		1		XEQ1PHNR	"B'00000001'" No more room in ASID list supplied to SDUMPX
527	(20F)	BITSTRING	1	XEQSJBFB	SJBFLGB after SJB is freed
528	(210)	CHARACTER	4	XEQRSV1	Reserved for future use
532	(214)	SIGNED	4	XEQHSBCT	Current count of HASB's
536	(218)	SIGNED	4	XEQHSBCP	Previous count of HASB's
540	(21C)	SIGNED	4		Reserved
544	(220)	DBL WORD	8		Reserved
552	(228)	BITSTRING	4	XEQLDVID	Last used psuedo-device id
556	(22C)	SIGNED	4		Reserved
560	(230)	DBL WORD	8	XEQPHWAI	TOD when last exit from $PHASP
568	(238)	CHARACTER	8	XEQJNAME	Jobname from job card
576	(240)	BITSTRING	1	XEQJQEF7	Copy of JQEFLAG7
577	(241)	BITSTRING	1	XEQFLAG2	Flags
		1...		XEQ2WITH	"B'10000000'" Unmatched WITH= jobs
		.1..		XEQ2SVJL	"B'01000000'" SVJ lock is held
578	(242)	BITSTRING	2		Reserved for future use
580	(244)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements
584	(248)	SIGNED	4	XEQPTIME	TOD $PJES2 process'g began wait-a-bit loop
588	(24C)	SIGNED	4	XEQDTIME	TOD $PJES2 processing began interval to HASP714 dump
592	(250)	SIGNED	2	XEQASIDL(5)	ASID list for SDUMPX and HASP715
592	(250)	X'5'	0	XEQASDNO	"(*-XEQASIDL)/2" Number of ASIDs allowed
602	(25A)	BITSTRING	2		Reserved for future use
604	(25C)	SIGNED	4	XEQDOMID	DOMID for $HASP714
608	(260)	BITSTRING	12	XEQTQE	XEQ TQE for $STIMER
620	(26C)	SIGNED	1	XEQSJBPR	Priority of job from SJB
621	(26D)	BITSTRING	1	XEQSJFN1	Request type from SJB
622	(26E)	BITSTRING	2		Reserved for future use
624	(270)	SIGNED	4	XEQ715DM	DOMID for $HASP715
628	(274)	CHARACTER	8	XEQJBNML(5)	JOBNAME list for HASP715
628	(274)	X'5'	0	XEQJBNMN	"(*-XEQJBNML)/8" Number of JOBNAMEs allowed
668	(29C)	SIGNED	4	XEQASDSA	ASDS data space ALET
672	(2A0)	BITSTRING	1	XEQWLMIS	WLM Init ASDS ent stat updt

Table 589. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
673	(2A1)	BITSTRING	15	XEQRSV2	Reserved for future use
688	(2B0)	DBL WORD	8	(0)	ALIGN XEQ WORK
688	(2B0)	X'168'	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

Table 590. Cross Reference for $XEQWORK

Name	Offset	Hex Tag
PCE	0	
XEQASDNO	250	5
XEQASDSA	29C	
XEQASIDL	250	
XEQDEQL	18C	184
XEQDEQPL	184	184
XEQDEQST	184	
XEQDOMID	25C	
XEQDTIME	24C	
XEQENQL	180	174
XEQENQPL	174	178
XEQENQST	174	
XEQFLAG1	20E	
XEQFLAG2	241	
XEQHSBCP	218	
XEQHSBCT	214	
XEQJBNML	274	
XEQJBNMN	274	5
XEQJNAME	238	
XEQJQEF7	240	
XEQLDVID	228	
XEQLST	20B	1FC
XEQLSTTK	154	
XEQMSGWA	190	
XEQNXTTK	150	
XEQOFFST	148	
XEQPARM	1FC	
XEQPCEWS	2B0	168
XEQPHWAI	230	
XEQPTIME	248	
XEQRSV1	210	
XEQRSV2	2A1	
XEQSJBFB	20F	
XEQSJBF1	20C	
XEQSJBF2	20D	
XEQSJBPR	26C	
XEQSJFN1	26D	
XEQTOPST	158	
XEQTQE	260	

Table 590. Cross Reference for $XEQWORK (continued)

Name	Offset	Hex Tag
XEQWLMIS	2A0	
XEQXECB	15C	
XEQXPARM	14C	
XEQXSJB	14C	
XEQXWM	244	
XEQ1NDUP	20E	80
XEQ1NOPT	20E	10
XEQ1PHDS	20E	2
XEQ1PHDT	20E	4
XEQ1PHNR	20E	1
XEQ1SCAN	20E	40
XEQ1X14	20E	20
XEQ1714I	20E	8
XEQ2SVJL	241	40
XEQ2WITH	241	80
XEQ715DM	270	

$XFMWORK information

$XFMWORK programming interface information

$XFMWORK is a programming interface.

$XFMWORK heading information

Common name: SPOOL Transfer I/O Manager Work Area

Macro ID: $XFMWORK

DSECT name: PCE ($XFMWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol XFMLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $SOMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this PCE work area area used by the SPOOL offload manager PCE. $XFMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XFMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXFMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$XFMWORK mapping

Table 591. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL TRANSFER I/O MANAGER
328	(148)	BITSTRING	12	XFMSCTQE	TQE FOR TERMIN. INTERVAL SCANS
340	(154)	ADDRESS	4	XFMSCPTR	POINTER TO NEXT SCAN ELEMENT
344	(158)	ADDRESS	4	XFMBUFQ	QUEUE FOR REORDERED COMPLETE BUFFERS
348	(15C)	ADDRESS	4	XFMSCDCT	SAVE AREA FOR SUBT SCAN DCT PNTR
352	(160)	DBL WORD	8	XFMCTIME	WORK AREA FOR TERM INTERVL SCAN
360	(168)	BITSTRING	1	XFMMASK	COPY OF LOW ORDER BYTE OF $STIMASK
361	(169)	BITSTRING	1	XFMFLAG1	TIMER ACTIVE FLAG
		1111 1111		XFM1TACT	"X'FF'" TIMER IS ACTIVE
		....		XFM1EXP	"X'00'" TIMER IS EXPIRED
362	(16A)	BITSTRING	1	XFMFLAG2	SECOND FLAG BYTE
		1...		XFM2STRT	"B'10000000'" TRANS/RECEIVER BEEN STARTED
363	(16B)	CHARACTER	125	XFMMSG	AREA FOR BUILDING MESSAGES
363	(16B)	X'A0'	0	XFMLEN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH

Table 592. Cross Reference for $XFMWORK

Name	Offset	Hex Tag
PCE	0	
XFMBUFQ	158	
XFMCTIME	160	
XFMFLAG1	169	
XFMFLAG2	16A	
XFMLEN	16B	A0
XFMMASK	168	
XFMMSG	16B	
XFMSCDCT	15C	
XFMSCPTR	154	
XFMSCTQE	148	
XFM1EXP	169	0
XFM1TACT	169	FF
XFM2STRT	16A	80

$XIT information

$XIT heading information

Common name: Exit information table

Macro ID: $XIT

DSECT name: XIT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'XIT '
Offset: -8 (prefix field $CSPID, before all XITs)
Length: 4

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.

Size: See the XITLNGTH equate.

Created by: A temporary XIT is created early in initialization in JES2 private storage. The permanent XIT is created in common storage by JES2 initialization after exit-related parameters are processed.

Pointed to by: The first XIT entry (exit 0) is pointed to by the $XITADDR field of the $HCT data area, and by the CCTXITA field in the $HCCT data area.

Serialization: The fields that define an exit point and its routines are determined during JES2 initialization and should remain read-only afterward. The flags can be changed by the JES2 main task, for example via commands. The use count is managed with compare-and-swap logic.

Function: The XIT is used as part of the JES2 installation exit facilities. It defines the exit points, points to the exit routines associated with each exit point, and is used for status and control information.

$XIT mapping

Table 593. Structure XIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XIT	HASP EXIT INFO TABLE DSECT
0	(0)	BITSTRING	1	XITFLAGS	EXIT FLAGS
		1...		XITENBLD	"B'10000000'" Exit is enabled
		.1..		XITTRACE	"B'01000000'" Exit is tracing
0	(0)	X'C0'	0	XITEBLTR	"XITENBLD+XITTRACE" Enabled and tracing
		..1.		XITENTDS	"B'00100000'" Exit was entered while it was disabled
		...1		XITRFRSH	"B'00010000'" Refresh routine list
		.... 1...		XITBPD	"B'00001000'" Bypass Exit point defined check for Exit point in HASPFSSM
		.... ..1.		XITCMN	"B'00000010'" Exit must be in CSA/LPA
		1		XITDEF	"B'00000001'" Exit is defined
0	(0)	X'81'	0	XITDENBL	"XITDEF+XITENBLD" EXIT IS DEFINED AND ENABLED
1	(1)	ADDRESS	1	XITNUMBR	Exit number
2	(2)	BITSTRING	2		Reserved
4	(4)	ADDRESS	4	XITXRTAD	Address of the first XRT entry for this exit point
8	(8)	CHARACTER	1	XITENVIR	Assembly environment(s) for the exit, see MITENVIR
9	(9)	BITSTRING	2		Reserved for future use
11	(B)	BITSTRING	1	XITFDIAG	Flags for internal testing
		1...		XITFWTO	"B'10000000'" WTO
		.1..		XITFWTOL	"B'01000000'" WTO (long)
		..1.		XITFWTOR	"B'00100000'" WTOR
		...1		XITFWTOS	"B'00010000'" WTOR (special)
		.... 1...		XITFWAIT	"B'00001000'" WTOR (MVS WAIT)
		.... .1..		XITFLOOP	"B'00000100'" LOOP
		.... ..1.		XITFEXIT	"B'00000010'" EXIT

Table 593. Structure XIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
11	(B)	X'C'	0	XITLNGTH	"*-XIT" LENGTH OF DSECT
0	(0)	CHARACTER	12	XITE	XIT entry

Table 594. Cross Reference for $XIT

Name	Offset	Hex Tag
XIT	0	
XITBPD	0	8
XITCMN	0	2
XITDEF	0	1
XITDENBL	0	81
XITE	0	
XITEBLTR	0	C0
XITENBLD	0	80
XITENTDS	0	20
XITENVIR	8	
XITFDIAG	B	
XITFEXIT	B	2
XITFLAGS	0	
XITFLOOP	B	4
XITFWAIT	B	8
XITFWTO	B	80
XITFWTOL	B	40
XITFWTOR	B	20
XITFWTOS	B	10
XITLNGTH	B	C
XITNUMBR	1	
XITRFRSH	0	10
XITTRACE	0	40
XITXRTAD	4	

$XMAS information

$XMAS programming interface information

$XMAS is a programming interface.

$XMAS heading information

Common name: JES2 Cross MAS Coupling Block and XCF MAS Member Status Block

Macro ID: $XMAS

DSECT name: XMA, XMAQENT

Owning component: JES2 (SC1BH)

Eye-catcher ID: XMAS for XMA dsect (None for XMAQENT)
Offset: XMAID-XMA for XMA dsect (N/A for XMAQENT)
Length: L'XMAID for XMA dsect (N/A for XMAQENT)

Storage attributes: Subpool: 0 for XMA, 228 for XMAQENT
Key: 1
Residency: Virtual and real storage for XMA are anywhere in the JES2 address space. Virtual and real storage for XMAQENT are anywhere in ECSA.

Size: See XMALEN for XMA dsect
See XMAQELEN for XMAQENT dsect

Created by: JES2 Initialization for XMA (and XRENXMAS recovery routine in HASPXCF).
XCFJOIN routine in HASPXCF for XMAQENT.

Pointed to by: XMA
- $XMASADR field of the $HCT data area
XMAQENT
- CCTXMAQ field of the $HCCT data area

Serialization: None required

Function: The JES2 cross MAS coupling block (XMA) is used to maintain the fields used for cross member and cross MAS communication.
The XCF MAS member status block (XMAQENT) contains current status information for the member. It is also used to communicate $ESYS requests from the XCF PCE to the WARM start PCE.

$XMAS mapping

Table 595. Structure XMA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMA	Cross MAS Coupling DSECT
0	(0)	CHARACTER	4	XMAID	XMAS Identifier
4	(4)	BITSTRING	1	XMAVRSN	XMAS Version
4	(4)	X'2'	0	XMAVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	DBL WORD	8	XMAMEMDT	MEMDATA passed on join Reserved for IBM use
16	(10)	BITSTRING	8		Reserved for future use
24	(18)	BITSTRING	16	XMAMEMNM	XCF member name consists of node name and SID with blanks removed
40	(28)	SIGNED	4	XMARTN	XCF return code
44	(2C)	SIGNED	4	XMARSN	XCF reason code
48	(30)	CHARACTER	8	XMASERV	JESXCF service name
56	(38)	BITSTRING	1	XMAFLAG1	Footprint flag
		1...		XMA1JOIN	"B'10000000'" Join complete
		.1..		XMA1INIT	"B'01000000'" XCF processor initialized
		...1		XMA1AXMA	"B'00010000'" This is an alternate XMAS
57	(39)	BITSTRING	1	XMAFLAG2	FRR flag
		1...		XMA2FRR	"B'10000000'" Group exit FRR entered once
		.1..		XMA2CDEL	"B'01000000'" Cell to delete in XCFGEX
58	(3A)	BITSTRING	1	XMAMODE	Sysplex mode FLAG
		1		XMAMLOCL	"B'00000001'" Local mode
59	(3B)	BITSTRING	1	XMAFLAG3	Flag is used for footprint
		1...		XMA3INIT	"B'10000000'" In XCFINIT code
		.1..		XMA3SYSG	"B'01000000'" In XCFSGONE routine
		..1.		XMA3MEMS	"B'00100000'" In XCFEMEMS routine

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		XMA3USRS	"B'00010000'" In XCFEUSRS routine
		.... 1...		XMA3JOIN	"B'00001000'" In XCFJOIN routine
		.... .1..		XMA3USTA	"B'00000100'" In XCFUSTAT routine
		.... ..1.		XMA3LEAV	"B'00000010'" In XCFLEAVE routine
		1		XMA3QUER	"B'00000001'" In XCFQSTAT routine
60	(3C)	BITSTRING	1	XMAFLAG4	Flag is used for footprint
		1...		XMA4DQ	"B'10000000'" XCFMAIN process requests
		.1..		XMA4MAPE	"B'01000000'" XCFMAPEV maps event to QSE XCFDQ thru XCFDOR labels
		..1.		XMA4PURG	"B'00100000'" XCFPURG delete old members
		...1		XMA4DELT	"B'00010000'" XCFDELET delete old members
		.... 1...		XMA4MQER	"B'00001000'" In XCFMSTAT routine
		.... .1..		XMA4MEMN	"B'00000100'" In XCFMEMN routine
		.... ..1.		XMA4XMQU	"B'00000010'" In XCFXMAQU routine
61	(3D)	BITSTRING	1	XMAFLAG5	Flag for service routines
		1...		XMA5ESYS	"B'10000000'" XCFMAPEV has updated a QSE for automatic ESYS
62	(3E)	BITSTRING	1	XMAFLAG6	Flag marks blocks in error
		1...		XMA6XMAS	"B'10000000'" $XMAS has error fields
63	(3F)	BITSTRING	1		Reserved for IBM use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	24	XMAXECB	XECB POSTed on events sent from group exit.
88	(58)	SIGNED	4		Reserved for IBM use
92	(5C)	SIGNED	4		Reserved for IBM use
92	(5C)	X'60'	0	XMAVRALN	"*-XMA" Size of area of XMAS to be included in VRA
96	(60)	SIGNED	4		Reserved for IBM use
100	(64)	BITSTRING	4	XMASYTOK(0)	System id/token for MVS
100	(64)	BITSTRING	1	XMASNUM	System slot number
101	(65)	BITSTRING	3		System number
104	(68)	CHARACTER	8	XMASYSNM	System name except in the event of IXCJOIN failure (XMA1JOIN off) then null
112	(70)	CHARACTER	8	XMAPLXNM	Sysplex name except in the event of IXCJOIN failure (XMA1JOIN off) then null
120	(78)	SIGNED	4	XMAPTIME	Last entry to XCFPURG
124	(7C)	SIGNED	4		Reserved for IBM use
128	(80)	CHARACTER	4	XMASIDNM	SID name work area for messages
132	(84)	SIGNED	4	XMAMADDR	Message address
136	(88)	SIGNED	4	XMAMLEN	Message length
140	(8C)	SIGNED	4	XMAMTOKE(2)	JESXCF Message token
152	(98)	DBL WORD	8	XMAMTOKN	XCF Member token
160	(A0)	BITSTRING	4	XMAMEMUP	MAS member up table
164	(A4)	BITSTRING	4	XMAMEMAT	MAS member active table (XMAMEMUP + hot-startable)

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	BITSTRING	4	XMANPMUP	NPM member up table
172	(AC)	BITSTRING	4	XMACDCUP	CDC member up table
176	(B0)	SIGNED	4	XMAAXRQ	Active XRQ being processed
180	(B4)	BITSTRING	192	XMAQDATA	Work area for XMAQENT
372	(174)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
376	(178)	DBL WORD	8	(0)	
376	(178)	CHARACTER	8	XMAJNNM	Node name use to join XCF (part of XCF member name)
XMABLDM $BLDMSG MF=L List form of $BLDMSG					
384	(180)	SIGNED	4	XMABLDM(0)	Control block ID
388	(184)	BITSTRING	4		Console ID
392	(188)	ADDRESS	4		Address of the CART
396	(18C)	ADDRESS	4		Pointer for JOBID
400	(190)	ADDRESS	4		Control block address
404	(194)	ADDRESS	4		Display routine address
408	(198)	ADDRESS	4	(6)	6 word work area
432	(1B0)	ADDRESS	4		Caller's R11 value
436	(1B4)	BITSTRING	2		ROUT code for Message
438	(1B6)	BITSTRING	2		Not used
440	(1B8)	CHARACTER	4		Message ID
444	(1BC)	CHARACTER	1		Separator character
445	(1BD)	ADDRESS	1		Flag byte 1
446	(1BE)	ADDRESS	1		'DISPER'
447	(1BF)	ADDRESS	1		Flag byte 2
448	(1C0)	ADDRESS	1		Flag byte 3
449	(1C1)	ADDRESS	1		Severity of message
450	(1C2)	CHARACTER	8		Symbolic name of dest.
458	(1CA)	BITSTRING	14		Not used
472	(1D8)	ADDRESS	4	(0)	Ensure multiple of 4
472	(1D8)	ADDRESS	2	(0)	
0	(0)	X'58'	0	XMABLDML	"*-XMABLDM" Size of $BLDMSGL expansion
The XMAXUS field is used to update the user state field for this member. The field is available with this member's record in XCF. The field is limited to 32 bytes and used on for the IXZXIXUS macro to change the user state field in XCF. It is also used to maintain the SYSPLEXID for the current operating sysplex.					
472	(1D8)	DBL WORD	8	(0)	
472	(1D8)	BITSTRING	1	XMAXUSST	HASPXCF USER STATE FIELD
End of the XMAXUS field.					
504	(1F8)	SIGNED	4	XMAMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
508	(1FC)	SIGNED	4	XMAOXMAS	Original XMAS. Invalid XMAS found in recovery

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following fields are used by MVS macros to return data. Because the sizes of these fields may expand without obvious indications during one assembly, these fields should not be accessed outside of the HASPXCF module. Also, fields other than the MVS fields that are to be accessed outside of this module, should precede this comment.			
512	(200)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
528	(210)	BITSTRING	8	XMAPLIWK	Sysplex id work area
536	(218)	SIGNED	4	XMAIFALN	Length of answer area
540	(21C)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
544	(220)	DBL WORD	8	(0)	Double word alignment
		IXCQUERY MF=(L,XMAMFLQR) IXCQUERY list area MACDATE -01/13/18-<2>			
0	(0)	X'220'	0	M00M1519	"XMAMFLQR" ++ IXCQUERY NAME
544	(220)	DBL WORD	8	XMAMFLQR(0)	++ IXCQUERY PARM LIST
544	(220)	BITSTRING	1	XMAMFLQR_XVERSION	++ INPUT XVERSION
545	(221)	BITSTRING	1	XMAMFLQR_XREQTYPE	++ XREQTYPE
545	(221)	X'10'	0	XMAMFLQR_XREQTYPE_IMMEDIATE	"16" ++ XREQTYPE.IMMEDIATE KEYWORD
545	(221)	X'5'	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
546	(222)	BITSTRING	1	XMAMFLQR_XREQINFO	++ XREQINFO
546	(222)	X'80'	0	XMAMFLQR_XREQINFO_GROUP	"128" ++ XREQINFO.GROUP KEYWORD
546	(222)	X'40'	0	XMAMFLQR_XREQINFO_SYSPLEX	"64" ++ XREQINFO.SYSPLEX KEYWORD
546	(222)	X'3F'	0	XMAMFLQR_XREQINFO_CDS	"63" ++ XREQINFO.CDS KEYWORD
546	(222)	X'3E'	0	XMAMFLQR_XREQINFO_CDS_ALLDATA	"62" ++ XREQINFO.CDS_ALLDATA KEYWORD
546	(222)	X'20'	0	XMAMFLQR_XREQINFO_CF	"32" ++ XREQINFO.CF KEYWORD
546	(222)	X'10'	0	XMAMFLQR_XREQINFO_STR	"16" ++ XREQINFO.STR KEYWORD
546	(222)	X'8'	0	XMAMFLQR_XREQINFO_CF_ALLDATA	"8" ++ XREQINFO.CF_ALLDATA KEYWORD
546	(222)	X'4'	0	XMAMFLQR_XREQINFO_STR_ALLDATA	"4" ++ XREQINFO.STR_ALLDATA KEYWORD
546	(222)	X'2'	0	XMAMFLQR_XREQINFO_ARMSTATUS	"2" ++ XREQINFO.ARMSTATUS KEYWORD
546	(222)	X'1'	0	XMAMFLQR_XREQINFO_ARMS_ALLDATA	"1" ++ XREQINFO.ARMS_ALLDATA KEYWORD
547	(223)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	++
548	(224)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	++ ADDR
552	(228)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	++ ALET
556	(22C)	SIGNED	4	XMAMFLQR_XANSLEN	++
560	(230)	CHARACTER	8	XMAMFLQR_XGRPNAME	++
568	(238)	CHARACTER	16	XMAMFLQR_XMEMNAME	++
568	(238)	X'248'	0	XMAMFLQR_PL_END	"*" ++ END OF BASE PLIST
568	(238)	BITSTRING	8	XMAMFLQR_XMEMTOKEN	++

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
560	(230)	CHARACTER	8	XMAMFLQR_XCFNAME	++
568	(238)	CHARACTER	16	XMAMFLQR_XSTRNAME	++
560	(230)	CHARACTER	8	XMAMFLQR_XCDSTYPE	++
584	(248)	X'28'	0	XMAMFLQRL	"*-XMAMFLQR" ++ LENGTH OF PLIST
				IXCQUERY-2	
584	(248)	DBL WORD	8	(0)	Double word alignment
				IXZXIXAT MF=(L,XMAMFLAT) IXZXIXAT list area MACDATE -00/01/11-<6>	
0	(0)	X'248'	0	M00M1521	"XMAMFLAT" ++ IXZXIXAT NAME
584	(248)	DBL WORD	8	XMAMFLAT(0)	++ IXZXIXAT PARM LIST
584	(248)	BITSTRING	1	XMAMFLAT_XVERSION	++ INPUT XVERSION
585	(249)	CHARACTER	6	XMAMFLAT_XEYECATCH	++ CONSTANT
591	(24F)	CHARACTER	1	XMAMFLAT_XRSV0001	++ RESERVED
592	(250)	CHARACTER	8	XMAMFLAT_XGROUP	++
600	(258)	CHARACTER	16	XMAMFLAT_XMEMBER	++
616	(268)	CHARACTER	8	XMAMFLAT_XRELEASE	++
624	(270)	SIGNED	4	XMAMFLAT_XMAINTLVL	++ CONSTANT
628	(274)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++
632	(278)	BITSTRING	1	XMAMFLAT_XFLAG1	++ FIELD_LABEL
		1...		XMAMFLAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		XMAMFLAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		XMAMFLAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		XMAMFLAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		XMAMFLAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		XMAMFLAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		XMAMFLAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
633	(279)	BITSTRING	1	XMAMFLAT_XFLAG2	++ FIELD_LABEL
		1...		XMAMFLAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		XMAMFLAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
634	(27A)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED
636	(27C)	SIGNED	4	XMAMFLAT_XDIAG	++
640	(280)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++ FIELD_LABEL
640	(280)	X'40'	0	XMAMFLATL	"*-XMAMFLAT" ++ LENGTH OF PLIST
				IXZXIXAT-6	
648	(288)	DBL WORD	8	(0)	Double word alignment
				IXZXIXDT MF=(L,XMAMFLDT) IXZXIXDT list area MACDATE -00/02/02-<1>	

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'288'	0	M00M1522	"XMAMFLDT" ++ IXZXIXDT NAME
648	(288)	DBL WORD	8	XMAMFLDT(0)	++ IXZXIXDT PARM LIST
648	(288)	BITSTRING	1	XMAMFLDT_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	6	XMAMFLDT_XEYECATCH	++ CONSTANT XEYECATCH
655	(28F)	CHARACTER	1	XMAMFLDT_XRSV0001	++ RESERVED XRSV0001
656	(290)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++ XGROUPTOKEN
660	(294)	CHARACTER	8	XMAMFLDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
660	(294)	X'14'	0	XMAMFLDTL	"*-XMAMFLDT" ++ LENGTH OF PLIST
				IXZXIXDT-1	
672	(2A0)	DBL WORD	8	(0)	Double word alignment
				IXZXIXMB MF=(L,XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>	
672	(2A0)	SIGNED	2	M00M1523(0)	IXZXIXMB-1
672	(2A0)	DBL WORD	8	XMAMFLMB(0)	++ IXZXIXMB PARM LIST
672	(2A0)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
673	(2A1)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
679	(2A7)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
680	(2A8)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
696	(2B8)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
700	(2BC)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
704	(2C0)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
708	(2C4)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
712	(2C8)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
		1...		XMAMFLMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		XMAMFLMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
712	(2C8)	X'29'	0	XMAMFLMBL	"*-XMAMFLMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
716	(2CC)	SIGNED	4		Reserved for IBM use
720	(2D0)	DBL WORD	8	(0)	Double word alignment
				IXZXIXUS MF=(L,XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>	
720	(2D0)	SIGNED	2	M00M1524(0)	IXZXIXUS-1
720	(2D0)	DBL WORD	8	XMAMFLUS(0)	++ IXZXIXUS PARM LIST
720	(2D0)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION
721	(2D1)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
727	(2D7)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001
728	(2D8)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE
760	(2F8)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
764	(2FC)	BITSTRING	1	XMAMFLUS_XUPDTYPE	++ INPUT
		1...		XMAMFLUS_XUPDTYPE_REPLACE	"B'10000000'" ++ XUPDTYPE.REPLACE KEYWORD
		.1..		XMAMFLUS_XUPDTYPE_AND	"B'01000000'" ++ XUPDTYPE.AND KEYWORD

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		XMAMFLUS_XUPDTYPE_OR	"B'00100000'" ++ XUPDTYPE.OR KEYWORD
764	(2FC)	X'2D'	0	XMAMFLUSL	"*-XMAMFLUS" ++ LENGTH OF PLIST
				IXZXIXUS-1	
768	(300)	SIGNED	4		Reserved for IBM use
776	(308)	DBL WORD	8	(0)	Double word alignment
		IXZXIXIF MF=(L,XMAMFLIF) IXZXIXIF list area MACDATE -11/12/03-<2>			
0	(0)	X'308'	0	M00M1525	"XMAMFLIF" ++ IXZXIXIF NAME
776	(308)	DBL WORD	8	XMAMFLIF(0)	++ IXZXIXIF PARM LIST
776	(308)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
777	(309)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
783	(30F)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
784	(310)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
788	(314)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
804	(324)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
812	(32C)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
816	(330)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
820	(334)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
		1...		XMAMFLIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD
		.1..		XMAMFLIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
821	(335)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
		1...		XMAMFLIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1..		XMAMFLIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1.		XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
822	(336)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT
		1...		XMAMFLIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1..		XMAMFLIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
823	(337)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
		1...		XMAMFLIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1..		XMAMFLIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
824	(338)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
		1...		XMAMFLIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1..		XMAMFLIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
825	(339)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
825	(339)	BITSTRING	0	XMAMFLIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
827	(33B)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
827	(33B)	X'3B'	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
				IXZXIXIF-2	
836	(344)	SIGNED	4		Reserved for IBM use
840	(348)	DBL WORD	8	(0)	Double word alignment
				IXZXIXAC MF=(L,XMAMFLAC) IXZXIXAC list area MACDATE -11/12/03-<1>	
0	(0)	X'348'	0	M00M1526	"XMAMFLAC" ++ IXZXIXAC NAME
840	(348)	DBL WORD	8	XMAMFLAC(0)	++ IXZXIXAC PARM LIST
840	(348)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
841	(349)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
847	(34F)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
		1...		XMAMFLAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XMAMFLAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
848	(350)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
856	(358)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
860	(35C)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
864	(360)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC
868	(364)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
872	(368)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
876	(36C)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN
880	(370)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL
		1...		XMAMFLAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		XMAMFLAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		XMAMFLAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		XMAMFLAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XMAMFLAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
881	(371)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
		1...		XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
881	(371)	X'2A'	0	XMAMFLACL	"*-XMAMFLAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
888	(378)	DBL WORD	8	(0)	Double word alignment
				IXZXIXRM MF=(L,XMAMFLRM) IXZXIXRM list area MACDATE -93/05/10-<1>	
888	(378)	SIGNED	2	M00M1527(0)	IXZXIXRM-1
888	(378)	DBL WORD	8	XMAMFLRM(0)	++ IXZXIXRM PARM LIST
888	(378)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
889	(379)	CHARACTER	6	XMAMFLRM_XEYECATCH	++ CONSTANT XEYECATCH

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
895	(37F)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
896	(380)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
912	(390)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
916	(394)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
920	(398)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
928	(3A0)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
932	(3A4)	BITSTRING	1	XMAMFLRM_XMSGFETCH	++ INPUT
		1...		XMAMFLRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		XMAMFLRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		XMAMFLRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		XMAMFLRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
933	(3A5)	BITSTRING	1	XMAMFLRM_XKEYS	++ FIELD_LABEL
		1...		XMAMFLRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
933	(3A5)	X'2E'	0	XMAMFLRML	"*-XMAMFLRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
936	(3A8)	DBL WORD	8	(0)	Double word alignment
				IXZXIXCL MF=(L,XMAMFLCL) IXZXIXCL list area MACDATE -11/12/03-<1>	
0	(0)	X'3A8'	0	M00M1528	"XMAMFLCL" ++ IXZXIXCL NAME
936	(3A8)	DBL WORD	8	XMAMFLCL(0)	++ IXZXIXCL PARM LIST
936	(3A8)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
937	(3A9)	CHARACTER	6	XMAMFLCL_XEYECATCH	++ CONSTANT XEYECATCH
943	(3AF)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
944	(3B0)	SIGNED	4	XMAMFLCL_XFAILEDSYS	++ XFAILEDSYS
948	(3B4)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
948	(3B4)	X'10'	0	XMAMFLCLL	"*-XMAMFLCL" ++ LENGTH OF PLIST
				IXZXIXCL-1	
952	(3B8)	DBL WORD	8	(0)	Double word alignment
				IXZXIXMC MF=(L,XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>	
952	(3B8)	SIGNED	2	M00M1529(0)	IXZXIXMC-1
952	(3B8)	DBL WORD	8	XMAMFLMC(0)	++ IXZXIXMC PARM LIST
952	(3B8)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
953	(3B9)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
959	(3BF)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
		1...		XMAMFLMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XMAMFLMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD

Table 595. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
960	(3C0)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
976	(3D0)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	++ XGROUPTOKEN
976	(3D0)	X'1C'	0	XMAMFLMCL	"*-XMAMFLMC" ++ LENGTH OF PLIST
				IXZXIXMC-1 End of fields used within MVS macros.	
984	(3D8)	DBL WORD	8	(0)	Ensure double word aligned
984	(3D8)	X'3D8'	0	XMALEN	"*-XMA" Size of XMAS DSECT

Table 596. Structure XMAQENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMAQENT	Define queue status entry
0	(0)	CHARACTER	4	XMAQSID	SID name
4	(4)	CHARACTER	4		Really Reserved for IBM use
				The following fields are used to communicate $ESYS requests to HASPWARM.	
8	(8)	BITSTRING	8	XMAQETIM	Time of event (STCK format)
16	(10)	CHARACTER	8	XMAQESYS	MVS System name.
24	(18)	BITSTRING	4	XMAQESYT	System id / token for MVS
28	(1C)	BITSTRING	1	XMAQEFL1	Member action request
		1		XMAQE1JR	"B'00000001'" Job restart required-$ESYS
		.... ..1.		XMAQE1AE	"B'00000010'" AUTOESYS=ON on MASDEF
		.... .1..		XMAQE1VR	"B'00000100'" Verify ARM registrations
29	(1D)	BITSTRING	1		Reserved for future use
30	(1E)	SIGNED	2	XMAQSIZE	Length of XMAQENT
				The remaining fields contain member status information.	
32	(20)	DBL WORD	8	XMAQUTIM	Event time causing latest status update (STCK)
40	(28)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
48	(30)	BITSTRING	1	XMAQMEMB	Member number
				XMAQSTAT is the current member status based on QSE and XCF status fields. XMAQSTAT is never set to MEMDORM. MEMDORM must be determined by the user based on the current TOD clock, XMAQITIM and $SYNCTOL. A member is MEMDORM if XMAQSTAT indicates MEMACTIV, but XMAQITIM is more than $SYNCTOL seconds ago. Update XCFDSTAT (in HASPXCF) if XMAQSTAT definition changes.	
49	(31)	BITSTRING	1	XMAQSTAT	Current state of member
		1...		MEMDOWN	"B'10000000'" DOWN filter
		.1..		MEMDEF	"B'01000000'" DEFINED fiter
		..1.		MEMINU	"B'00100000'" INUSE filter
		...1		MEMFAIL	"B'00010000'" FAILED filter
		1111		MEMFILTR	"B'11110000'" Filter mask

Table 596. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		MEMUNDEF	"X'01'" Member UNDEFINED
		.... ..1.		MEMUPEND	"X'02'" Member UNDEFINED-PENDING
49	(31)	X'63'	0	MEMACTIV	"MEMDEF+MEMINU+X'03'" Member ACTIVE
49	(31)	X'C4'	0	MEMINACT	"MEMDEF+MEMDOWN+X'04'" Member TERMINATED
49	(31)	X'65'	0	MEMINIT	"MEMDEF+MEMINU+X'05'" Member INITIALIZING
49	(31)	X'66'	0	MEMTERM	"MEMDEF+MEMINU+X'06'" Member TERMINATING
49	(31)	X'D7'	0	MEMJESF	"MEMDEF+MEMDOWN+MEMFAIL+X'07'" Memb JES2-FAILED
49	(31)	X'D8'	0	MEMXCFF	"MEMDEF+MEMDOWN+MEMFAIL+X'08'" Memb JESXCF-FAILED
49	(31)	X'D9'	0	MEMMVSG	"MEMDEF+MEMDOWN+MEMFAIL+X'09'" Memb MVS-GONE
49	(31)	X'6A'	0	MEMDORM	"MEMDEF+MEMINU+X'0A'" Member DORMANT (Never set)
49	(31)	X'CB'	0	MEMDRAIN	"MEMDEF+MEMDOWN+X'0B'" Member DRAINED
49	(31)	X'DC'	0	MEMALICE	"MEMDEF+MEMDOWN+MEMFAIL+X'0C'" Member awaiting ALICE processing
50	(32)	BITSTRING	1	XMAQUFLG	Local copy of XMAUSFLG
51	(33)	BITSTRING	1	XMAQUFL1	Local copy of XMAUSFL1
52	(34)	BITSTRING	1	XMAQNEWS	Latest member state
52	(34)	X'1'	0	XMANSACT	"1" Member is active
52	(34)	X'2'	0	XMANSFLD	"2" JESXCF has terminated
52	(34)	X'3'	0	XMANSGON	"3" MVS is no longer active
52	(34)	X'4'	0	XMANSJES	"4" JES2 ABENDed
53	(35)	BITSTRING	1	XMAQCRF1	CKPT reconfiguration status (see XMAUCRF1 for bit definitions)
54	(36)	BITSTRING	1	XMAQJXF1	JESXCF member status
55	(37)	BITSTRING	1	XMAQEFL2	Status flag byte 2
		1...		XMAQ2PRS	"B'10000000'" MVS Gone status in XMAQNEWS was inferred and cannot be confirmed
56	(38)	SIGNED	4	XMAQHOLD	Hold value
60	(3C)	SIGNED	4	XMAAHOLD	Actual HOLD value
64	(40)	SIGNED	4	XMAADORM	Actual dormancy value
68	(44)	BITSTRING	4	XMAQXSYS	MAS member supports cross system data rtrvl table
72	(48)	CHARACTER	4	XMAQSNAM	Subsystem name. Shadowed from QSESSNAM
76	(4C)	CHARACTER	4	XMAQVSID	MVS System SMF I. D. Shadow of QSEMVSID
80	(50)	BITSTRING	2		Reserved
82	(52)	SIGNED	1	XMAQ2PLV	JES2 Product level. Shadow of QSEJ2PLV
83	(53)	SIGNED	1	XMAQ2SLV	Service level. Shadow of QSEJ2SLV
84	(54)	CHARACTER	8	XMAQ2VRN	Shadow of QSEJ2VRN
92	(5C)	BITSTRING	1	XMAQSTYP	Type of last start Shadowed from QSESTYPE
93	(5D)	BITSTRING	1	XMAQSEST	Shadow of QSESTAT
94	(5E)	BITSTRING	1	XMAQSES2	Shadow of QSESTAT2

Table 596. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
95	(5F)	BITSTRING	1	XMAQSTA3	Third status byte
96	(60)	BITSTRING	1		Reserved
97	(61)	SIGNED	1	XMAQ2VR2	JES2 version last active on this member
98	(62)	CHARACTER	1	XMAQCOM	Command Prefix character Shadow of QSECCHAR
99	(63)	BITSTRING	1	XMAQRSID	ID of member doing reset (Shadow of QSERSTID)
100	(64)	SIGNED	4	XMAQMIND	Minimum Dormancy (Shadow of QSEMIND)
104	(68)	SIGNED	4	XMAQMAXD	Maximum Dormancy (Shadow QSEMAXD)
108	(6C)	SIGNED	4	XMAQSYNC	Current SYNC value (Shadow QSESYNC)
112	(70)	SIGNED	4	XMAQSTIM	STCK TOD of last start
116	(74)	CHARACTER	8	XMAQXNOD	Node name when XCF member did JESXCF attach
124	(7C)	SIGNED	4	XMAQSYSL	Current SYSLOG JQE index
	XMAQPSEQ is the same format as ECVTPSEQ. Byte one is OS type (00 - OS/390 01-z/OS). Bytes 2-4 are VRM - VVRRMM. So for z/OS 1.13 you get 01010D00.				
128	(80)	SIGNED	4	XMAQPSEQ	z/OS product sequence numb.
132	(84)	CHARACTER	16	XMAQMNAM	XCF member name for normal JESXCF group ($XCFGPNM)
148	(94)	SIGNED	4	XMAQTMOF	UTC offset of this member (shadow of QSEGMTOF)
152	(98)	CHARACTER	4	XMAQEMGN	Emergency subsystem name
156	(9C)	SIGNED	4	(3)	Reserved
156	(9C)	X'A8'	0	XMAQECLR	"*-XMAQENT" Length that can be cleared
168	(A8)	ADDRESS	8	XMAQCDCQ	Pointer to CDCTQS for this member (64-bit address)
176	(B0)	ADDRESS	8	XMAQCNIT	Ptr to NIT array for this member (64-bit addr)
184	(B8)	SIGNED	4	XMAQCNIA	ALET for NIT array
188	(BC)	BITSTRING	1	XMAQCNIV	NIT data version
189	(BD)	BITSTRING	1	XMAQCNIP	Nr of paths in each NIT entry
190	(BE)	BITSTRING	2		Reserved
192	(C0)	DBL WORD	8	(0)	Insure double word aligned
192	(C0)	X'C0'	0	XMAQELEN	"*-XMAQENT" Length of XMAQENT element

Table 597. Structure XMAXUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMAXUS	HASP XCF USER STATE FIELD
0	(0)	BITSTRING	4	XMAJXCF(0)	JESXCF user state information
0	(0)	BITSTRING	1	XMAJXFL1	JESXCF status
		1...		XMAATTCH	"B'10000000'" JES2 is attached to JESXCF
		.1..		XMAAJES2	"B'01000000'" Subsystem is running JES2
		..1.		XMAAJES3	"B'00100000'" Subsystem is running JES3

Table 597. Structure XMAXUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		XMAACON	"B'00010000'" Subsystem is connected to other members
		.... 1...		XMAAFSS3	"B'00001000'" JES3 FSS subsystem
		.... .1..		XMAACONS	"B'00000100'" Consoles function active
1	(1)	BITSTRING	1		Release level of the JES
2	(2)	CHARACTER	2	XMASSIN1	First 2 chars of SSINAME
4	(4)	BITSTRING	8	XMACOLDT	Cold start date and time ($COLDDTM)
12	(C)	BITSTRING	8	XMAPLXID	First system IPLed in this current IPL of the sysplex (SYSPLEXID in the IXCQUERY)
20	(14)	BITSTRING	1	XMAUSFLG	User state flag
		1...		XMAUINIT	"B'10000000'" JES2 initializing
		.1..		XMAUTERM	"B'01000000'" JES2 terminating
		..1.		XMAUACTN	"B'00100000'" JES2 NPM PCE initialized
		...1		XMAUNUTS	"B'00010000'" JES2 NPM PCE in HASPNUTS
		.... 1...		XMAUXCMA	"B'00001000'" JES2 XCM PCE initialized
		.... .1..		XMAUCDCA	"B'00000100'" JES2 CDC PCE initialized
		.... ..1.		XMAUDLSM	"B'00000010'" JES2 DLS PCE on this mbr is MAS master
21	(15)	BITSTRING	1	XMAUSFL1	Member options flag
		1...		XMA1AON	"B'10000000'" AUTOESYS=ON specified
		.1..		XMA1AOFF	"B'01000000'" AUTOESYS=OFF specified
22	(16)	ADDRESS	1	XMAUSMID	Member number ($SIDBUSY)
23	(17)	BITSTRING	1	XMAUCRF1	CKPT reconfiguration status
		1...		XMAUC1RC	"B'10000000'" - Reconfiguration capable
		.1..		XMAUC1ST	"B'01000000'" - Reconfiguration started
		..1.		XMAUC1MD	"B'00100000'" - This member MUST drive
		...1		XMAUC1CO	"B'00010000'" - Reconfig is committed (First driving member committed)
		.... 1...		XMAUC1DR	"B'00001000'" - This member is driver
		.... .1..		XMAUC1DL	"B'00000100'" - This member has detected a delayed XCF msg, ack, or user state update
		.... ..1.		XMAUC1CF	"B'00000010'" - This member is committed to fail
		1		XMAUC1IO	"B'00000001'" - CKPTn I/O error on member
23	(17)	X'3F'	0	XMAUC1SC	"XMAUC1MD+XMAUC1CO+XMAUC1DR+XMAUC1DL+ XMAUC1C F+XMAUC1IO" - Flags to clear when a reconfig starts
23	(17)	X'7F'	0	XMAUC1DC	"XMAUC1SC+XMAUC1ST" - Flags to clear when a reconfig completes
24	(18)	BITSTRING	5	XMAUCRLV	Member's CKPT level number (Low-order 5 bytes)

Table 597. Structure XMAXUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The last byte of the user state are shared between JES2, JES3, and JESXCF. There offsets must not change.			
29	(1D)	BITSTRING	1	XMAFEAT(0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
		1...		XMAARM	"B'10000000'" This JES supports ARM
30	(1E)	BITSTRING	2	XMAJXC2(0)	JESXCF user state information
30	(1E)	CHARACTER	2	XMASSIN2	Last 2 chars of SSINAME
30	(1E)	X'20'	0	XMAUSED	"*-XMAXUS" Amount of user state in use
32	(20)	ADDRESS	2	(0)	Ensure length
32	(20)	ADDRESS	2	(0)	is 32 bytes
32	(20)	X'20'	0	XMAUSLEN	"*-XMAXUS" LENGTH OF XUS USER STATE

Table 598. Cross Reference for $XMAS

Name	Offset	Hex Tag
MEMACTIV	31	63
MEMALICE	31	DC
MEMDEF	31	40
MEMDORM	31	6A
MEMDOWN	31	80
MEMDRAIN	31	CB
MEMFAIL	31	10
MEMFILTR	31	F0
MEMINACT	31	C4
MEMINIT	31	65
MEMINU	31	20
MEMJESF	31	D7
MEMMVSG	31	D9
MEMTERM	31	66
MEMUNDEF	31	1
MEMUPEND	31	2
MEMXCFF	31	D8
M00M1519	0	220
M00M1521	0	248
M00M1522	0	288
M00M1523	2A0	
M00M1524	2D0	
M00M1525	0	308
M00M1526	0	348
M00M1527	378	
M00M1528	0	3A8
M00M1529	3B8	
XMA	0	
XMAACON	0	10
XMAACONS	0	4

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAADORM	40	
XMAAFSS3	0	8
XMAAHOLD	3C	
XMAAJES2	0	40
XMAAJES3	0	20
XMAARM	1D	80
XMAATTCH	0	80
XMAAXRQ	B0	
XMABLDM	180	C2D3C440
XMABLDML	0	58
XMACDCUP	AC	
XMACOLDT	4	
XMADIAG	174	
XMAFEAT	1D	
XMAFEAT1	1D	
XMAFLAG1	38	
XMAFLAG2	39	
XMAFLAG3	3B	
XMAFLAG4	3C	
XMAFLAG5	3D	
XMAFLAG6	3E	
XMAID	0	
XMAIFAA	21C	
XMAIFALN	218	
XMAJNNM	178	
XMAJXCF	0	
XMAJXC2	1E	
XMAJXFL1	0	
XMALEN	3D8	3D8
XMAMADDR	84	
XMAMEMAT	A4	
XMAMEMDT	8	
XMAMEMNM	18	
XMAMEMST	1F8	
XMAMEMUP	A0	
XMAMFLAC	348	
XMAMFLAC_KEYUSED_DATA	370	80
XMAMFLAC_KEYUSED_DATALEN	370	40
XMAMFLAC_KEYUSED_SYSRC	370	10
XMAMFLAC_KEYUSED_SYSRSN	370	8
XMAMFLAC_KEYUSED_USERRC	370	20
XMAMFLAC_XDATA	358	
XMAMFLAC_XDATALEN	35C	
XMAMFLAC_XEYECATCH	349	
XMAMFLAC_XGROUPTOKEN	364	
XMAMFLAC_XKEYS	370	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLAC_XMSGATTR	371	
XMAMFLAC_XMSGATTR_EXPRESS	371	40
XMAMFLAC_XMSGATTR_J3CONNECT	371	80
XMAMFLAC_XMSGTOKEN	350	
XMAMFLAC_XSTB	34F	
XMAMFLAC_XSTB_NO	34F	80
XMAMFLAC_XSTB_YES	34F	40
XMAMFLAC_XSYSRC	368	
XMAMFLAC_XSYSRSN	36C	
XMAMFLAC_XUSERRC	360	
XMAMFLAC_XVERSION	348	
XMAMFLACL	371	2A
XMAMFLAT	248	
XMAMFLAT_XDIAG	27C	
XMAMFLAT_XEYECATCH	249	
XMAMFLAT_XFLAG1	278	
XMAMFLAT_XFLAG2	279	
XMAMFLAT_XGROUP	250	
XMAMFLAT_XGROUPTOKEN	274	
XMAMFLAT_XJ3CONNECT_NO	279	80
XMAMFLAT_XJ3CONNECT_YES	279	40
XMAMFLAT_XLINKPARMS	280	
XMAMFLAT_XMAINTLVL	270	
XMAMFLAT_XMEMBER	258	
XMAMFLAT_XRELEASE	268	
XMAMFLAT_XRSV0001	24F	
XMAMFLAT_XRSV0002	27A	
XMAMFLAT_XVERSION	248	
XMAMFLAT_XWHICHJES_COMMON	278	8
XMAMFLAT_XWHICHJES_INIT	278	10
XMAMFLAT_XWHICHJES_JES2	278	80
XMAMFLAT_XWHICHJES_JES3	278	40
XMAMFLAT_XWHICHJES_J2SPOOL	278	2
XMAMFLAT_XWHICHJES_J3CIFSS	278	4
XMAMFLAT_XWHICHJES_J3FSS	278	20
XMAMFLATL	280	40
XMAMFLCL	3A8	
XMAMFLCL_XEYECATCH	3A9	
XMAMFLCL_XFAILEDSYS	3B0	
XMAMFLCL_XGROUPTOKEN	3B4	
XMAMFLCL_XRSV0001	3AF	
XMAMFLCL_XVERSION	3A8	
XMAMFLCLL	3B4	10
XMAMFLDT	288	
XMAMFLDT_XEYECATCH	289	
XMAMFLDT_XGROUPTOKEN	290	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLDT_XLINKPARMS	294	
XMAMFLDT_XRSV0001	28F	
XMAMFLDT_XVERSION	288	
XMAMFLDTL	294	14
XMAMFLIF	308	
XMAMFLIF_KEYUSED_ANSAREA	335	40
XMAMFLIF_KEYUSED_GROUPNAME	335	10
XMAMFLIF_KEYUSED_GROUPTOKEN	335	20
XMAMFLIF_KEYUSED_REQMBOX	335	80
XMAMFLIF_XANSAREA	32C	
XMAMFLIF_XANSLEN	330	
XMAMFLIF_XEYECATCH	309	
XMAMFLIF_XFUNCTION	339	
XMAMFLIF_XFUNCTION_ARM	339	8000
XMAMFLIF_XGROUPNAME	33B	
XMAMFLIF_XGROUPTOKEN	310	
XMAMFLIF_XINFOLVL	334	
XMAMFLIF_XINFOLVL_GROUP	334	80
XMAMFLIF_XINFOLVL_MEMBER	334	40
XMAMFLIF_XKEYS	335	
XMAMFLIF_XPOLYJES	338	
XMAMFLIF_XPOLYJES_NO	338	40
XMAMFLIF_XPOLYJES_YES	338	80
XMAMFLIF_XREQMBOX	314	
XMAMFLIF_XREQTOKEN	324	
XMAMFLIF_XRSV0001	30F	
XMAMFLIF_XSTATE	336	
XMAMFLIF_XSTATE_ACTIVE	336	40
XMAMFLIF_XSTATE_ANY	336	80
XMAMFLIF_XSYSTEM	337	
XMAMFLIF_XSYSTEM_ANY	337	80
XMAMFLIF_XSYSTEM_CURRENT	337	40
XMAMFLIF_XVERSION	308	
XMAMFLIFL	33B	3B
XMAMFLMB	2A0	
XMAMFLMB_XEYECATCH	2A1	
XMAMFLMB_XGROUPTOKEN	2C4	
XMAMFLMB_XMBOXNAME	2A8	
XMAMFLMB_XPOSTALET	2C0	
XMAMFLMB_XPOSTDATA	2BC	
XMAMFLMB_XPOSTXIT	2B8	
XMAMFLMB_XRSV0001	2A7	
XMAMFLMB_XSYSEVENT_NO	2C8	40
XMAMFLMB_XSYSEVENT_YES	2C8	80
XMAMFLMB_XSYSEVENTS	2C8	
XMAMFLMB_XVERSION	2A0	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLMBL	2C8	29
XMAMFLMC	3B8	
XMAMFLMC_XEYECATCH	3B9	
XMAMFLMC_XGROUPTOKEN	3D0	
XMAMFLMC_XMBOXNAME	3C0	
XMAMFLMC_XSTB	3BF	
XMAMFLMC_XSTB_NO	3BF	80
XMAMFLMC_XSTB_YES	3BF	40
XMAMFLMC_XVERSION	3B8	
XMAMFLMCL	3D0	1C
XMAMFLQR	220	
XMAMFLQR_PL_END	238	248
XMAMFLQR_XANSAREA_ADDR	224	
XMAMFLQR_XANSAREA_ALET	228	
XMAMFLQR_XANSLEN	22C	
XMAMFLQR_XCDSTYPE	230	
XMAMFLQR_XCFNAME	230	
XMAMFLQR_XGRPNAME	230	
XMAMFLQR_XMEMNAME	238	
XMAMFLQR_XMEMTOKEN	238	
XMAMFLQR_XQUAALEVEL	223	
XMAMFLQR_XREQINFO	222	
XMAMFLQR_XREQINFO_ARMS_ALLDATA	222	1
XMAMFLQR_XREQINFO_ARMSTATUS	222	2
XMAMFLQR_XREQINFO_CDS	222	3F
XMAMFLQR_XREQINFO_CDS_ALLDATA	222	3E
XMAMFLQR_XREQINFO_CF	222	20
XMAMFLQR_XREQINFO_CF_ALLDATA	222	8
XMAMFLQR_XREQINFO_GROUP	222	80
XMAMFLQR_XREQINFO_STR	222	10
XMAMFLQR_XREQINFO_STR_ALLDATA	222	4
XMAMFLQR_XREQINFO_SYSPLEX	222	40
XMAMFLQR_XREQTYPE	221	
XMAMFLQR_XREQTYPE_DEFER	221	5
XMAMFLQR_XREQTYPE_IMMEDIATE	221	10
XMAMFLQR_XSTRNAME	238	
XMAMFLQR_XVERSION	220	
XMAMFLQRL	248	28
XMAMFLRM	378	
XMAMFLRM_KEYUSED_MSGFETCH	3A5	80
XMAMFLRM_XDATA	390	
XMAMFLRM_XDATALEN	394	
XMAMFLRM_XEYECATCH	379	
XMAMFLRM_XGROUPTOKEN	3A0	
XMAMFLRM_XKEYS	3A5	
XMAMFLRM_XMBOXNAME	380	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLRM_XMSGFETCH	3A4	
XMAMFLRM_XMSGFETCH_ACKS	3A4	10
XMAMFLRM_XMSGFETCH_ALL	3A4	80
XMAMFLRM_XMSGFETCH_MESSAGES	3A4	40
XMAMFLRM_XMSGFETCH_SYSEVENT	3A4	20
XMAMFLRM_XMSGTOKEN	398	
XMAMFLRM_XRSV0001	37F	
XMAMFLRM_XVERSION	378	
XMAMFLRML	3A5	2E
XMAMFLUS	2D0	
XMAMFLUS_XEYECATCH	2D1	
XMAMFLUS_XGROUPTOKEN	2F8	
XMAMFLUS_XRSV0001	2D7	
XMAMFLUS_XUPDTYPE	2FC	
XMAMFLUS_XUPDTYPE_AND	2FC	40
XMAMFLUS_XUPDTYPE_OR	2FC	20
XMAMFLUS_XUPDTYPE_REPLACE	2FC	80
XMAMFLUS_XUSTATE	2D8	
XMAMFLUS_XVERSION	2D0	
XMAMFLUSL	2FC	2D
XMAMLEN	88	
XMAMLOCL	3A	1
XMAMODE	3A	
XMAMTOKE	8C	
XMAMTOKN	98	
XMANPMUP	A8	
XMANSACT	34	1
XMANSFLD	34	2
XMANSGON	34	3
XMANSJES	34	4
XMAOTHMN	200	
XMAOXMAS	1FC	
XMAPLIWK	210	
XMAPLXID	C	
XMAPLXNM	70	
XMAPTIME	78	
XMAQCDCQ	A8	
XMAQCNIA	B8	
XMAQCNIP	BD	
XMAQCNIT	B0	
XMAQCNIV	BC	
XMAQCOM	62	5B
XMAQCRF1	35	
XMAQDATA	B4	
XMAQECLR	9C	A8
XMAQEFL1	1C	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAQEFL2	37	
XMAQELEN	C0	C0
XMAQEMGN	98	
XMAQENT	0	
XMAQESYS	10	
XMAQESYT	18	
XMAQETIM	8	
XMAQE1AE	1C	2
XMAQE1JR	1C	1
XMAQE1VR	1C	4
XMAQHOLD	38	
XMAQITIM	28	
XMAQJXF1	36	
XMAQMAXD	68	
XMAQMEMB	30	
XMAQMIND	64	
XMAQMNAM	84	
XMAQNEWS	34	
XMAQPSEQ	80	
XMAQRSID	63	
XMAQSEST	5D	
XMAQSES2	5E	
XMAQSID	0	
XMAQSIZE	1E	
XMAQSNAM	48	
XMAQSTAT	31	
XMAQSTA3	5F	
XMAQSTIM	70	
XMAQSTYP	5C	
XMAQSYNC	6C	
XMAQSYSL	7C	
XMAQTMOF	94	
XMAQUFLG	32	
XMAQUFL1	33	
XMAQUTIM	20	
XMAQVSID	4C	
XMAQXNOD	74	
XMAQXSYS	44	
XMAQ2PLV	52	
XMAQ2PRS	37	80
XMAQ2SLV	53	
XMAQ2VRN	54	
XMAQ2VR2	61	
XMARSN	2C	
XMARTN	28	
XMASERV	30	

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMASIDNM	80	
XMASNUM	64	
XMASSIN1	2	
XMASSIN2	1E	
XMASYSNM	68	
XMASYTOK	64	
XMAUACTN	14	20
XMAUCDCA	14	4
XMAUCRF1	17	
XMAUCRLV	18	
XMAUC1CF	17	2
XMAUC1CO	17	10
XMAUC1DC	17	7F
XMAUC1DL	17	4
XMAUC1DR	17	8
XMAUC1IO	17	1
XMAUC1MD	17	20
XMAUC1RC	17	80
XMAUC1SC	17	3F
XMAUC1ST	17	40
XMAUDLSM	14	2
XMAUINIT	14	80
XMAUNUTS	14	10
XMAUSED	1E	20
XMAUSFLG	14	
XMAUSFL1	15	
XMAUSLEN	20	20
XMAUSMID	16	
XMAUTERM	14	40
XMAUXCMA	14	8
XMAVNUM	4	2
XMAVRALN	5C	60
XMAVRSN	4	
XMAXECB	40	
XMAXUS	0	
XMAXUSST	1D8	
XMA1AOFF	15	40
XMA1AON	15	80
XMA1AXMA	38	10
XMA1INIT	38	40
XMA1JOIN	38	80
XMA2CDEL	39	40
XMA2FRR	39	80
XMA3INIT	3B	80
XMA3JOIN	3B	8
XMA3LEAV	3B	2

Table 598. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMA3MEMS	3B	20
XMA3QUER	3B	1
XMA3SYSG	3B	40
XMA3USRS	3B	10
XMA3USTA	3B	4
XMA4DELT	3C	10
XMA4DQ	3C	80
XMA4MAPE	3C	40
XMA4MEMN	3C	4
XMA4MQER	3C	8
XMA4PURG	3C	20
XMA4XMQU	3C	2
XMA5ESYS	3D	80
XMA6XMAS	3E	80

$XPL information

$XPL programming interface information

$XPL is a programming interface.

$XPL heading information

Common name: Exit parameter list

Macro ID: $XPL

DSECT name: XPL

Owning component: JES2 (SC1BH)

Eye-catcher ID: '$XPL'
Offset: XPLID-XPL
Length: 4

Storage attributes: Subpool: 1 for exits called from the JES2 main task environment.
230 for exits called from the USER environment.
Refer to "JES2 Customization" to determine the environment for specific exits.
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space for exits called from the JES2 main task environment. For exits called from the USER environment, virtual and real storage are anywhere in the private storage of the requesting address space. Refer to "JES2 Customization" to determine the environment for specific exits.

Size: See XyyySIZE where yyy is the exit number.

Created by: The XPL is created before the exit is invoked.

Pointed to by: The XPL is generally pointed to by register 1 on entry to an exit routine.
Refer to "JES2 Customization" for exceptions.

Serialization: None required.

Function: This DSECT provides the mapping for all new and changed exit parameter lists.

$XPL mapping

Table 599. Structure XPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XPL	
0	(0)	CHARACTER	4	XPLID	Eye catcher
4	(4)	ADDRESS	1	XPLLEVEL	Version number for base section
		1		XPLVERN	"X'1'" Verision number equate for base
5	(5)	ADDRESS	1	XPLXITID	Exit id number
6	(6)	ADDRESS	1	XPLEXLEV	Version number for specific exit (XnnnVERN is the equate)
01 NOTES: Do not use the XPLIND, XPLCOND, or XPLRESP fields. Refer to them as XnnnIND, XnnnCOND, or XnnnRESP.					
7	(7)	BITSTRING	1	XPLIND	Indicator byte
8	(8)	BITSTRING	1	XPLCOND	Condition byte
		1...		XPLCOB0	"B'10000000'" Bit definitions for
		.1..		XPLCOB1	"B'01000000'" the condition byte. Each
		..1.		XPLCOB2	"B'00100000'" specific exit should
		...1		XPLCOB3	"B'00010000'" define their own meaning
		.... 1...		XPLCOB4	"B'00001000'" to these bits and EQUATE
		.... .1..		XPLCOB5	"B'00000100'" them back to these
		.... ..1.		XPLCOB6	"B'00000010'" bits.
		1		XPLCOB7	"B'00000001'"
9	(9)	BITSTRING	1	XPLRESP	Response byte (Modifiable by Exit routine)
		1...		XPLREB0	"B'10000000'" Bit definitions for
		.1..		XPLREB1	"B'01000000'" the response byte. Each
		..1.		XPLREB2	"B'00100000'" specific exit should
		...1		XPLREB3	"B'00010000'" define their own meaning
		.... 1...		XPLREB4	"B'00001000'" to these bits and EQUATE
		.... .1..		XPLREB5	"B'00000100'" them back to these
		.... ..1.		XPLREB6	"B'00000010'" bits.
		1		XPLREB7	"B'00000001'"
10	(A)	SIGNED	2	XPLSIZE	Size of parameter list including the base section
12	(C)	SIGNED	4		Reserved
12	(C)	X'10'	0	XPLBLEN	"*-XPL" Length of Base exit parameter list
16	(10)	SIGNED	4	XPLPLUS(0)	Start of parm list contents to the exit
Exit 1 XPL values Print/punch separators					
16	(10)	X'1'	0	X001XID	"1" Exit 1 ID
		1		X001VERN	"X'01'" Exit 1 XPL version number

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Indicator byte equates			
16	(10)	X'7'	0	X001IND	"XPLIND" Indicator byte
		1...		X001JHDR	"X'80'" Job header call
		.1..		X001JTLR	"X'40'" Job trailer call
		..1.		X001JCNT	"X'20'" Job continuation call
		Condition byte equates			
16	(10)	X'8'	0	X001COND	"XPLCOND" Condition byte
		Response byte equates			
16	(10)	X'9'	0	X001RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X001DFSP	"XPLREB0" Response bit to surpress the default separator
16	(10)	X'40'	0	X001JNWS	"XPLREB1" Response bit to surpress JESNEWS
16	(10)	X'10'	0	X001PLUS	"XPLPLUS" Exit 1 parameter list
16	(10)	ADDRESS	4	X001DCT	Address of the DCT
20	(14)	ADDRESS	4	X001JCT	Address of the JCT
24	(18)	ADDRESS	4	X001DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X001JQE	Address of the JQE
32	(20)	ADDRESS	4	X001JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X001PDDB	Address of the first PDDB in the JOE for header call, zero for trailer call
44	(2C)	ADDRESS	4	X001SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X001NSWB	Number of SWBITs despooled
50	(32)	SIGNED	2	X001RSVD	Reserved for future use
52	(34)	ADDRESS	4	X001HBUF	Address of a HASP buffer for exit use
52	(34)	X'38'	0	X001SIZE	"*-XPL" Size of XPL for Exit 1
52	(34)	X'20'	0	X001WJOE	"X001JOA" Equate for work JOE.
		Exit 2 XPL values JOB JCL statement scan (JES2 main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.			
52	(34)	X'2'	0	X002XID	"2" Exit 2 ID
		11		X002VERN	"X'03'" Exit 2 XPL version number
		Indicator byte equates			
52	(34)	X'7'	0	X002IND	"XPLIND" Indicator byte
		.... 1...		X002JOBC	"X'08'" I.JOB card detected
		.... 1..1		X002JOBG	"X'09'" I.JOBGROUP card detected
		Condition byte equates			

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	X'8'	0	X002COND	"XPLCOND" Condition byte
52	(34)	X'80'	0	X002CONT	"XPLCOB0" I.Card is a continuation
52	(34)	X'10'	0	X002SEC	"XPLCOB3" I.Not first time exit has been passed card
	Response byte equates				
52	(34)	X'9'	0	X002RESP	"XPLRESP" Response byte
52	(34)	X'80'	0	X002XSNC	"XPLREB0" O.Exit supplied next card
52	(34)	X'40'	0	X002XSEM	"XPLREB1" O.Exit supplied error msg
52	(34)	X'20'	0	X002JCMT	"XPLREB2" O.Skip processing card
52	(34)	X'10'	0	X002KILL	"XPLREB3" O.Kill current job
52	(34)	X'8'	0	X002PURG	"XPLREB4" O.Purge current job
52	(34)	X'4'	0	X002RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
52	(34)	X'10'	0	X002PLUS	"XPLPLUS" Exit 2 parameter list
16	(10)	ADDRESS	4	X002CARD	I.Address card image
20	(14)	ADDRESS	4	X002FLGX	I.For compatibility, ptr to FLAGX. Exits should use X002IND, X002COND and X002RESP instead.
24	(18)	ADDRESS	4	X002JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X002JCT	I.Address of JCT
32	(20)	ADDRESS	4	X002JQE	I.Address of JQE
36	(24)	ADDRESS	4	X002AREA	I.Address of JRW
40	(28)	ADDRESS	4	X002STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X002STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X002STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X002STMV	I.Statement verb
64	(40)	ADDRESS	4	X002RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X002RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X002RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	ADDRESS	4	X002RJOB	O.Chain of RJCBs to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X002FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
		.... 1...		X002LOPR	"B'00001000'" I.Last operand is on card
		.... .1..		X002QUOT	"B'00000100'" I.Unfinished quote at end of card
		.... ..1.		X002CCMT	"B'00000010'" I.Card is a cont comment
		1		X002LAST	"B'00000001'" I.Last card in statement
	Field common to exits 2 and 52				

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
81	(51)	BITSTRING	1	X002ECLT	IO.Job JECL processing:
		1...		X002J2CL	"B'10000000'" Process JES2 JECL
		.1..		X002J3CL	"B'01000000'" Process JES3 JECL
82	(52)	BITSTRING	2		Reserved
	End of fields common to exits 2, 4, 52 and 54				
84	(54)	CHARACTER	8	X002OCLS	O.Override job class
92	(5C)	CHARACTER	8	X002OJNM	O.Override job name
	Field common to exits 2 and 52				
100	(64)	CHARACTER	32	X002UCOR	IO.User portion of the job correlator
	Fields common to exits 2, 4, 52 and 54				
132	(84)	CHARACTER	12	X002ST12	I.Statement verb- length 12
132	(84)	X'90'	0	X002SIZE	"*-XPL" Size of XPL for Exit 2
	Exit 3 XPL values JOB statement accounting field scan (main task)				
132	(84)	X'3'	0	X003XID	"3" Exit 3 ID
		.... ..1.		X003VERN	"X'02'" Exit 3 XPL version number
	Indicator byte equates				
132	(84)	X'7'	0	X003IND	"XPLIND" Indicator byte
	Condition byte equates				
132	(84)	X'8'	0	X003COND	"XPLCOND" Condition byte
	Response byte equates				
132	(84)	X'9'	0	X003RESP	"XPLRESP" Response byte
132	(84)	X'80'	0	X003XSEM	"XPLREB0" O.Exit supplied error msg
132	(84)	X'40'	0	X003SKIP	"XPLREB1" O.Skip default accounting field scan
132	(84)	X'20'	0	X003KILL	"XPLREB2" O.Kill current job
132	(84)	X'10'	0	X003PLUS	"XPLPLUS" Exit 3 parameter list
16	(10)	ADDRESS	4	X003ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X003FLGX	I.For compatibility, ptr to FLAGX. Exits should use X003IND, X003COND and X003RESP instead.
24	(18)	ADDRESS	4	X003JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X003ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X003JCT	I.Address of JCT
36	(24)	ADDRESS	4	X003JQE	I.Address of JQE
40	(28)	ADDRESS	4	X003AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X003JCLS	IO.Current/updated JOBCLASS
52	(34)	BITSTRING	1	X003ECLT	IO.Job JECL processing:
		1...		X003J2CL	"B'10000000'" Process JES2 JECL
		.1..		X003J3CL	"B'01000000'" Process JES3 JECL

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X003SIZE	"*-XPL" Size of XPL for Exit 3
		Exit 4 XPL values JCL and JES2 control statement scan (main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.			
53	(35)	X'4'	0	X004XID	"4" Exit 4 ID
		1		X004VERN	"X'01'" Exit 4 XPL version number
		Indicator byte equates			
53	(35)	X'7'	0	X004IND	"XPLIND" Indicator byte
		....		X004JCL	"X'00'" I.JCL card detected
		.... .1..		X004JECL	"X'04'" I.JECL card detected
		Condition byte equates			
53	(35)	X'8'	0	X004COND	"XPLCOND" Condition byte
53	(35)	X'80'	0	X004CONT	"XPLCOB0" I.Card is a continuation
53	(35)	X'40'	0	X004JOBP	"XPLCOB1" I. JOBPARM card detected
53	(35)	X'20'	0	X004CMND	"XPLCOB2" I. $ command card det
53	(35)	X'10'	0	X004SEC	"XPLCOB3" I.Not first time exit has been passed card
53	(35)	X'1'	0	X004PREJ	"XPLCOB7" I.Card encountered outside a job structure
		Response byte equates			
53	(35)	X'9'	0	X004RESP	"XPLRESP" Response byte
53	(35)	X'80'	0	X004XSNC	"XPLREB0" O.Exit supplied next card
53	(35)	X'40'	0	X004XSEM	"XPLREB1" O.Exit supplied error msg
53	(35)	X'20'	0	X004JCMT	"XPLREB2" O.Skip processing card
53	(35)	X'10'	0	X004KILL	"XPLREB3" O.Kill current job
53	(35)	X'8'	0	X004PURG	"XPLREB4" O.Purge current job
53	(35)	X'4'	0	X004RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
53	(35)	X'10'	0	X004PLUS	"XPLPLUS" Exit 4 parameter list
16	(10)	ADDRESS	4	X004CARD	I.Address card image
20	(14)	ADDRESS	4	X004FLGX	I.For compatibility, ptr to FLAGX. Exits should use X004IND, X004COND and X004RESP instead.
24	(18)	ADDRESS	4	X004JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X004JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X004JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X004AREA	I.Address of JRW
40	(28)	ADDRESS	4	X004STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X004STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X004STML	I.Label on statement (JCL)

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	CHARACTER	8	X004STMV	I.Statement verb
64	(40)	ADDRESS	4	X004RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X004RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X004RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	ADDRESS	4	X004RJOB	O.Chain of RJCBs to queue after Job statement, but before first EXEC/ INCLUDE
80	(50)	BITSTRING	1	X004FLG1	Statement flag byte
		Following bits should be the same as RJCB bits			
		.... 1...		X004LOPR	"B'00001000'" I.Last operand is on card
		.... .1..		X004QUOT	"B'00000100'" I.Unfinished quote at end of card
		.... ..1.		X004CCMT	"B'00000010'" I.Card is a cont comment
		1		X004LAST	"B'00000001'" I.Last card in statement
81	(51)	BITSTRING	3		Reserved
84	(54)	BITSTRING	12	X004ST12	I.Statement verb - length 12
		End of fields common to exits 2, 4, 52, and 54			
96	(60)	BITSTRING	48		Reserved
96	(60)	X'90'	0	X004SIZE	"*-XPL" Size of XPL for Exit 4
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 2
144	(90)	ADDRESS	2	(0)	and 4 are same size
		Exit 5 has no XPLs 5 - JES2 command preprocessor Exit 6 XPL values JES2 converter exit (subtask) See exit 60 for USER environment converter exit Note that this maps the same as the exit 59 and 60 XPL			
		1		X006VERN	"X'01'" Exit 6 XPL version number
144	(90)	X'6'	0	X006XID	"6" Exit 6 id
		Indicator byte equates			
144	(90)	X'7'	0	X006IND	"XPLIND" Indicator byte
144	(90)	X'0'	0	X006TEXT	"0" Internal text exit
144	(90)	X'4'	0	X006CEND	"4" End of conversion
		Condition byte equates			
144	(90)	X'8'	0	X006COND	"XPLCOND" Condition byte
144	(90)	X'40'	0	X006TSU	"XPLCOB1" TSO user
144	(90)	X'20'	0	X006STC	"XPLCOB2" Started task
144	(90)	X'10'	0	X006JOB	"XPLCOB3" Batch job
		Response byte equates			

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	X'9'	0	X006RESP	"XPLRESP" Response byte
144	(90)	X'80'	0	X006HOLD	"XPLREB0" Job should be held
144	(90)	X'10'	0	X006PLUS	"XPLPLUS" Exit 06 parameter list
16	(10)	ADDRESS	4	X006WORK	16 byte work area address
20	(14)	ADDRESS	4	X006ITXT(0)	Internal text image address (X006IND = X006TEXT)
20	(14)	ADDRESS	4	X006CRET	Address of Converter RC (X006IND = X006CEND)
24	(18)	ADDRESS	4	X006CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X006JCT	JCT address
32	(20)	ADDRESS	4	X006CNMB	Address of message buffer
36	(24)	ADDRESS	4	X006CIW	CIWORK data area address
40	(28)	CHARACTER	8	X006JCLS	Current/updated job class
48	(30)	CHARACTER	16	X006SCHE	and scheduling environ
48	(30)	X'40'	0	X006SIZE	"*-XPL" Length of Exit 06 XPL
	Exit 7 XPL values Control block I/O (JES2)				
	1			X007VERN	"X'01'" Exit 07 XPL version number
48	(30)	X'7'	0	X007XID	"7" Exit 07 id
	Indicator byte equates				
48	(30)	X'7'	0	X007IND	"XPLIND" Indicator byte equate
	Response byte equates				
48	(30)	X'9'	0	X007RESP	"XPLRESP" Response byte equate
48	(30)	X'80'	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
	Condition byte equates				
48	(30)	X'8'	0	X007COND	"XPLCOND" Condition byte equate
48	(30)	X'40'	0	X007CBWR	"XPLCOB1" Control block is to be written
48	(30)	X'20'	0	X007CBUN	"XPLCOB2" Unknown control block read
48	(30)	X'10'	0	X007CBIN	"XPLCOB3" Invalid control block read
48	(30)	X'10'	0	X007PLUS	"XPLPLUS" Exit 07 parameter list
16	(10)	CHARACTER	4	X007CBID	Control block ID
16	(10)	X'14'	0	X007SIZE	"*-XPL" Length of Exit 07 xpl
	Exit 8 XPL values Control block read/write (user, subtask, and FSS)				
	1			X008VERN	"X'01'" Exit 08 XPL version number
16	(10)	X'8'	0	X008XID	"8" Exit 08 id
	Indicator byte equates				
16	(10)	X'7'	0	X008IND	"XPLIND" Indicator byte equate
	Response byte equates				

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'9'	0	X008RESP	"XPLRESP" Response byte equate
16	(10)	X'80'	0	X008IOER	"XPLREB0" Response bit to indicate I/O error
	Condition byte equates				
16	(10)	X'8'	0	X008COND	"XPLCOND" Condition byte equate
16	(10)	X'40'	0	X008CBWR	"XPLCOB1" Control block is to be written
16	(10)	X'20'	0	X008CBUN	"XPLCOB2" Unknown control block read
16	(10)	X'10'	0	X008CBIN	"XPLCOB3" Invalid control block read
16	(10)	X'8'	0	X008FSSM	"XPLCOB4" CBIO done by FSSM
16	(10)	X'10'	0	X008PLUS	"XPLPLUS" Exit 08 parameter list
16	(10)	CHARACTER	4	X008CBID	Control block ID
16	(10)	X'14'	0	X008SIZE	"*-XPL" Length of Exit 07 xpl
	Exit 9 XPL values Output excession options				
		.... ..1.		X009VERN	"X'02'" Exit 9 XPL version number
16	(10)	X'9'	0	X009XID	"9" Exit 9 id
	Indicator byte equates				
16	(10)	X'7'	0	X009IND	"XPLIND" Indicator byte
		.... 1...		X009USER	"B'00001000'" Invoked from JES2 address space
		.... .1..		X009CNCL	"B'00000100'" CANCEL on JOB JCL keyword
		.... ..1.		X009DUMP	"B'00000010'" DUMP on JOB JCL keyword
		1		X009WARN	"B'00000001'" WARNING on JOB JCL keyword
16	(10)	X'F'	0	X009INDX	"X009USER+X009CNCL+X009DUMP+X009WARN" Valid indicator bits
	Condition byte equates				
16	(10)	X'8'	0	X009COND	"XPLCOND" Condition byte
16	(10)	X'80'	0	X009CEXC	"XPLCOB0" Cards exceeded estimate
16	(10)	X'40'	0	X009LEXC	"XPLCOB1" Lines exceeded estimate
16	(10)	X'20'	0	X009PEXC	"XPLCOB2" Pages exceeded estimate
16	(10)	X'10'	0	X009BEXC	"XPLCOB3" Bytes exceeded estimate
16	(10)	X'F0'	0	X009CONX	"X009CEXC+X009LEXC+X009PEXC+X009BEXC" Valid condition bits
	Response byte equates				
16	(10)	X'9'	0	X009RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X009XOVR	"XPLREB0" Execution Option Value Returned (bits 6 and 7)
16	(10)	X'40'	0	X009OLIR	"XPLREB1" Output Limit Increment Returned in Parm List
16	(10)	X'20'	0	X009SDEM	"XPLREB2" Suppress Default Error Message
16	(10)	X'10'	0	X009USRB	"XPLREB3" Use Response Bits

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'E0'	0	X009RESX	"X009XOVR+X009OLIR+X009SDEM" Valid response bits
16	(10)	X'2'	0	X009722D	"XPLREB6" ABEND (722) with dump
16	(10)	X'1'	0	X009722N	"XPLREB7" ABEND (722) with no dump
					X009XOVR must be set to 1 for these bits to be used. For a response of WARNING, X009722D and X009722N are left as 0 and X009XOVR must be set to 1.
16	(10)	X'3'	0	X009RESO	"X009722D+X009722N" Valid options bits
16	(10)	X'10'	0	X009PLUS	"XPLPLUS" Exit 9 parameter list
16	(10)	ADDRESS	4	X009JCT	Address of JCT
					The following line/punch, page and byte counts have a maximum of X'7FFFFFFF'. If the actual value exceeds this maximum, these fields will be truncated at X'7FFFFFFF' and the exact counts should be obtained from corresponding packed decimal format fields below.
20	(14)	SIGNED	4	X009LVAL	JCTLINES or JCTPUNCH value
24	(18)	SIGNED	4	X009PVAL	JCTPAGES value
28	(1C)	SIGNED	4	X009BVAL	JCTBYTES value
32	(20)	SIGNED	4	X009RINC	User's increase for records
36	(24)	SIGNED	4	X009PINC	User's increase for pages
40	(28)	SIGNED	4	X009BINC	User's increase for bytes
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	DBL WORD	8	(0)	Force next fields dbleword
48	(30)		8	X009DLIN	Job's exact line/punch cnt in packed decimal format
56	(38)		8	X009DPAG	Job's exact page count in packed decimal format
64	(40)		8	X009DBYT	Job's exact byte count in packed decimal format
72	(48)	DBL WORD	8	(0)	Force length multi-double
72	(48)	X'48'	0	X009SIZE	"*-XPL" Size of XPL for exit 9
					Exit 10-14 have no XPLs 10 - $WTO screen 11 - Spool partitioning allocation ($TRACK) 12 - Spool partitioning allocation ($STRAK) 13 - Retired 14 - Job queue work select - $QGET Exit 15 XPL values Output data set/copy select
72	(48)	X'F'	0	X015XID	"15" Exit 15 ID
		1		X015VERN	"X'01'" Exit 15 XPL version number
					Indicator byte equates
72	(48)	X'7'	0	X015IND	"XPLIND" Indicator byte equate
		1...		X015DSEL	"X'80'" Data set selection call
		.1..		X015DSEP	"X'40'" Separator page call
					Condition byte equates
72	(48)	X'8'	0	X015COND	"XPLCOND" Condition byte

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	X'80'	0	X015RFSW	"XPLCOB0" Condition bit that specifies the PDDB references the SWBTU
72	(48)	X'40'	0	X015SEPP	"XPLCOB1" Bit is on if SEPDS=YES indicating ds separator pages are requested
	Response byte equates				
72	(48)	X'9'	0	X015RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X015BYPS	"XPLREB0" Response bit to bypass the current PDDB
72	(48)	X'10'	0	X015PLUS	"XPLPLUS" Exit 15 parameter list
16	(10)	ADDRESS	4	X015DCT	Address of the DCT
20	(14)	ADDRESS	4	X015JCT	Address of the JCT
24	(18)	ADDRESS	4	X015DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X015JQE	Address of the JQE
32	(20)	ADDRESS	4	X015JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X015PDDB	Address of the current PDDB
44	(2C)	ADDRESS	4	X015SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X015NSWB	Number of SWBITs despooled
50	(32)	SIGNED	2	X015RSVD	Reserved for future use
52	(34)	ADDRESS	4	X015PRTR	Address of the Print Translate Table
56	(38)	ADDRESS	4	X015CCWT	Address of the CCW Translate Table
60	(3C)	SIGNED	4	X015NCOP	Original number of copies of the data set to be printed
64	(40)	SIGNED	4	X015CPRT	Number of copies currently printed
68	(44)	ADDRESS	4	X015CPGP	Address of the Copy Group
72	(48)	SIGNED	4	X015CGCT	Current Copy Group Count
72	(48)	X'4C'	0	X015SIZE	"*-XPL" Size of XPL for Exit 1
72	(48)	X'20'	0	X015WJOE	"X015JOA" Equate for work JOE.
	Exit 16-19 have no XPLs 16 - Notify 17 - BSC RJE SIGNON/SIGNOFF 18 - SNA RJE LOGON/LOGOFF 19 - Initialization statement Exit 20 XPL values End of input				
72	(48)	X'14'	0	X020XID	"20" Exit 20 ID
		11		X020VERN	"X'03'" Exit 20 XPL version number
	Indicator byte equates				
72	(48)	X'7'	0	X020IND	"XPLIND" Indicator byte equate
	Condition byte equates				
72	(48)	X'8'	0	X020COND	"XPLCOND" Condition byte
72	(48)	X'80'	0	X020GJOB	"XPLCOB0" Condition bit that specifies a normal job

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	X'40'	0	X020JECL	"XPLCOB1" Condition bit specifies JECL error
72	(48)	X'20'	0	X020BSAF	"XPLCOB2" Condition bit specifies SAF failure
72	(48)	X'10'	0	X020WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
	Response byte equates				
72	(48)	X'9'	0	X020RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X020NORM	"XPLREB0" Response bit to do normal process
72	(48)	X'40'	0	X020OUTP	"XPLREB1" Response bit to terminate job with output
72	(48)	X'20'	0	X020PURG	"XPLREB2" Response bit to terminate by purge
72	(48)	X'10'	0	X020AVF	"XPLREB3" Response bit to indicate exit's job verify failed
72	(48)	X'10'	0	X020PLUS	"XPLPLUS" Exit 20 parameter list
16	(10)	ADDRESS	4	X020JCT	Address of the JCT
20	(14)	ADDRESS	4	X020JQE	Address of the JQA
24	(18)	ADDRESS	4	X020DCT	Address of the DCT
28	(1C)	ADDRESS	4	X020AREA	Address of JRW
32	(20)	SIGNED	1	X020PRIO	Job priority
33	(21)	BITSTRING	1	X020FLG1	Flags
		1...		X0201ARM	"B'10000000'" SYSAFF set by MVS ARM
		.1..		X0201IND	"B'01000000'" Independent system aff
		..1.		X020LOGJ	"B'00100000'" Associated job is JOBGROUP logging job
34	(22)	SIGNED	2	X020XNOD	Execution node
36	(24)	BITSTRING	4	X020SAF	Full system affinity mask
40	(28)	CHARACTER	16	X020SENV	SCHENV value
56	(38)	CHARACTER	8	X020JCLS	Job class
64	(40)	BITSTRING	1	X020NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X020UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X020SIZE	"*-XPL" Size of XPL for Exit 20
	Exit 21 (No XPL for exit) SMF record Exit 22 XPL values Cancel/status				
		1		X022VERN	"X'01'" Exit 22 XPL version number
100	(64)	X'16'	0	X022XID	"22" Exit 22 id
	Indicator byte equates				
100	(64)	X'7'	0	X022IND	"XPLIND" Indicator byte equate
100	(64)	X'0'	0	X022FRST	"0" First call to exit
100	(64)	X'4'	0	X022MURE	"4" Multiple recall
100	(64)	X'8'	0	X022MUST	"8" Multiple status overflow

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Response byte equates			
100	(64)	X'9'	0	X022RESP	"XPLRESP" Response byte equate
100	(64)	X'80'	0	X022IOER	"XPLREB0" Response bit to indicate I/O error
		Condition byte equates			
100	(64)	X'8'	0	X022COND	"XPLCOND" Condition Byte
100	(64)	X'10'	0	X022PLUS	"XPLPLUS" Exit 22 parameter list
16	(10)	ADDRESS	4	X022STAC	Address of STAC
20	(14)	SIGNED	4	X022STAA	ALET of STAC
20	(14)	X'18'	0	X022SIZE	"*-XPL" Size of XPL for Exit 20
		Exit 23 (No XPL for exit) FSS job separator page (JSPA) processing Exit 24 XPL values Post-initialization			
		1		X024VERN	"X'01'" Exit 24 XPL version number
20	(14)	X'18'	0	X024XID	"24" Exit 24 id
		Indicator Byte Equates			
20	(14)	X'7'	0	X024IND	"XPLIND" Indicator Byte Equate
		Condition Byte Equates			
20	(14)	X'8'	0	X024COND	"XPLCOND" Condition Byte - Start Type
20	(14)	X'80'	0	X024WARM	"$WARM" Single-System Warm Start
20	(14)	X'40'	0	X024HOT	"$HOT" Hot start
20	(14)	X'20'	0	X024QCK	"$QUICK" Quick Start
20	(14)	X'10'	0	X024ALLS	"$CONFIG" All-Systems Warm-Start
20	(14)	X'8'	0	X024ESYS	"$ESYS" $E SYS Restart
20	(14)	X'4'	0	X024COLD	"$COLD" Cold start
20	(14)	X'2'	0	X024IPL	"$MVSIPL" System was IPLed
20	(14)	X'1'	0	X024COFM	"$COLDFMT" Cold start with format
20	(14)	X'FF'	0	X024ICHK	"$INITCHK" Init deck check (all bits off)
		Response Byte Equates			
20	(14)	X'9'	0	X024RESP	"XPLRESP" Response Byte
20	(14)	X'80'	0	X024RSSI	"XPLREB0" Exit has built an Information string
20	(14)	X'10'	0	X024PLUS	"XPLPLUS" Exit 24 parameter list
16	(10)	ADDRESS	4	X024SSIA	Address of SSI info area
20	(14)	SIGNED	2	X024SSWL	Length of info work area
22	(16)	SIGNED	2	X024SSIL	Size of installation data string
22	(16)	X'18'	0	X024SIZE	"*-XPL" Size of XPL for exit 24

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 25-30 have no XPLs 25 - JCT read 26 - Termination/resource release 27 - PCE attach/detach 28 - Subsystem interface (SSI) job termination 29 - Subsystem interface (SSI) end-of-memory 30 - Subsystem interface (SSI) data set OPEN/restart Exit 31 XPL values Subsystem interface (SSI) allocation			
		1		X031VERN	"X'01'" Exit 31 XPL version number
22	(16)	X'1F'	0	X031XID	"31" Exit 31 id
		Indicator Byte Equates			
22	(16)	X'7'	0	X031IND	"XPLIND" Indicator Byte Equate
		Condition Byte Equates			
22	(16)	X'8'	0	X031COND	"XPLCOND" Condition Byte
22	(16)	X'1'	0	X031ERR	"XPLCOB7" Allocation error
		Response Byte Equates			
22	(16)	X'9'	0	X031RESP	"XPLRESP" Response Byte
22	(16)	X'1'	0	X031FAIL	"XPLREB7" Fail allocation request
22	(16)	X'10'	0	X031PLUS	"XPLPLUS" Exit 31 parameter list
16	(10)	BITSTRING	1	X031DSTY	Dataset type
16	(10)	X'0'	0	X031INTR	"0" Internal reader
16	(10)	X'4'	0	X031JSNW	"4" JESNEWS
16	(10)	X'8'	0	X031SYIN	"8" SYSIN
16	(10)	X'C'	0	X031SYSO	"12" SYSOUT
16	(10)	X'10'	0	X031PSPI	"16" PSO or SAPI
16	(10)	X'14'	0	X031SDSB	"20" SPOOL browse
16	(10)	X'18'	0	X031UNK	"24" Unknown
17	(11)	BITSTRING	3		Reserved
20	(14)	ADDRESS	4	X031SDB	Address of SDB/IRWD or zero
24	(18)	ADDRESS	4	X031SJB	Address of SJB or zero
28	(1C)	ADDRESS	4	X031JFCB	Address of JFCB
32	(20)	ADDRESS	4	X031PDDB	Address of PDDB or zero
36	(24)	ADDRESS	4	X031IOT	Address of IOT or zero
36	(24)	X'28'	0	X031SIZE	"*-XPL" Size of XPL for exit 31
		Mapping for Exit 32 parameter list			
		.... ..1.		X032VERN	"X'02'" Exit 32 XPL version number
36	(24)	X'20'	0	X032XID	"32" Exit 32 id
7	(7)	BITSTRING	3		Not used
7	(7)	X'10'	0	X032PLUS	"XPLPLUS"
		Indicator Byte Equates			
16	(10)	BITSTRING	1	X032IND	Indicator Byte
16	(10)	X'4'	0	X032IRJI	"4" Request Job ID

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'8'	0	X032IRCL	"8" Request Job by class
16	(10)	X'C'	0	X032ITSU	"12" TSU
16	(10)	X'10'	0	X032ISTC	"16" STC
16	(10)	X'14'	0	X032IWLM	"20" WLM (not demand select)
16	(10)	X'18'	0	X032IWLD	"24" WLM demand select
16	(10)	X'1C'	0	X032ICON	"28" Job within concurrent set
	Condition Byte Equates				
17	(11)	BITSTRING	1	X032COND	Condition Byte
17	(11)	X'1'	0	X032CIOE	"XPLCOB7" I/O error during job select (will be terminated or requeued)
	Response Byte Equates				
18	(12)	BITSTRING	1	X032RESP	Response Byte
	EQU B'10000000' Reserved				
18	(12)	X'40'	0	X032RHLD	"XPLREB1" Hold Job (valid only if X032RBEG or X032RVIC on)
18	(12)	X'20'	0	X032RBEG	"XPLREB2" Restart job from first step (valid only if X032RTJB is on)
18	(12)	X'10'	0	X032RVIC	"XPLREB3" Restart job from its eviction point (if any) (valid only if X032RTJB is on)
18	(12)	X'8'	0	X032RTIN	"XPLREB4" Terminate Initiator
18	(12)	X'4'	0	X032RTID	"XPLREB5" Terminate and drain init
18	(12)	X'2'	0	X032RTJB	"XPLREB6" Do not select job
18	(12)	X'1'	0	X032RNMG	"XPLREB7" Suppress job select msg
19	(13)	BITSTRING	1		Reserved
20	(14)	ADDRESS	4	X032SJB	Address of SJB
24	(18)	ADDRESS	4	X032JCT	Address of JCT (or 0)
24	(18)	X'1C'	0	X032SIZE	"*-XPL" Size of parameter list
	Exit 33-35 have no XPLs 33 - Subsystem interface (SSI) data set CLOSE 34 - Subsystem interface (SSI) data set unallocation 35 - Subsystem interface (SSI) end-of-task Exit 36 XPL values Pre-security authorization call				
		1		X036VERN	"X'01'" Exit 36 XPL version number
24	(18)	X'24'	0	X036XID	"36" Exit 36 id
	Indicator Byte Equates				
24	(18)	X'7'	0	X036IND	"XPLIND" Indicator byte
	Condition Byte Equates				
24	(18)	X'8'	0	X036COND	"XPLCOND" Condition byte
24	(18)	X'80'	0	X036JES2	"XPLCOB0" JES2 exit caller
24	(18)	X'40'	0	X036USER	"XPLCOB1" User exit caller
	Response Byte Equates				

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'9'	0	X036RESP	"XPLRESP" Response byte
24	(18)	X'2'	0	X036NORC	"XPLREB6" Exit-specified return/ reason codes to be used
24	(18)	X'1'	0	X036BYPS	"XPLREB7" Bypass SAF call
24	(18)	X'10'	0	X036PLUS	"XPLPLUS" Exit 36 parameter list
16	(10)	ADDRESS	4	X036PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X036WAVE	Address of $WAVE
24	(18)	CHARACTER	4	X036RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X036RCBA	Address of function related control block
32	(20)	SIGNED	4	X036RETC	Exit-supplied return code
36	(24)	SIGNED	4	X036RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X036SIZE	"*-XPL" Size of XPL for exit 36
	Exit 37 XPL values Post-security authorization call				
		1		X037VERN	"X'01'" Exit 37 XPL version number
36	(24)	X'25'	0	X037XID	"37" Exit 37 id
	Indicator Byte Equates				
36	(24)	X'7'	0	X037IND	"XPLIND" Indicator byte
	Condition Byte Equates				
36	(24)	X'8'	0	X037COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X037JES2	"XPLCOB0" JES2 exit caller
36	(24)	X'40'	0	X037USER	"XPLCOB1" User exit caller
	Response Byte Equates				
36	(24)	X'9'	0	X037RESP	"XPLRESP" Response byte
36	(24)	X'2'	0	X037NORC	"XPLREB6" Exit-specified return/ reason codes to be used
36	(24)	X'10'	0	X037PLUS	"XPLPLUS" Exit 37 parameter list
16	(10)	ADDRESS	4	X037PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X037WAVE	Address of $WAVE
24	(18)	CHARACTER	4	X037RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X037RCBA	Address of function related control block
32	(20)	SIGNED	4	X037RETC	Exit-supplied return code
36	(24)	SIGNED	4	X037RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X037SIZE	"*-XPL" Size of XPL for exit 37
	Exit 38 XPL values TSO/E receive data set disposition				
		1		X038VERN	"X'01'" Exit 38 XPL version number
36	(24)	X'26'	0	X038XID	"38" Exit 38 id
	Indicator Byte Equates				

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	X'7'	0	X038IND	"XPLIND" Indicator byte
		Condition Byte Equates			
36	(24)	X'8'	0	X038COND	"XPLCOND" Condition byte
		Response Byte Equates			
36	(24)	X'9'	0	X038RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X038KEEP	"XPLREB0" Keep the JOE
36	(24)	X'10'	0	X038PLUS	"XPLPLUS" Exit 38 parm list additions
16	(10)	ADDRESS	4	X038PSO	Address of PSO
20	(14)	ADDRESS	4	X038JOA	Address of the JOA
20	(14)	X'18'	0	X038SIZE	"*-XPL" Size of XPL for exit 38
20	(14)	X'14'	0	X038JOE	"X038JOA" Equate for work JOE.
		Exit 39 XPL values BSC and SNA NJE SYSOUT reception can never receive			
		1		X039VERN	"X'01'" Exit 39 XPL version number
20	(14)	X'27'	0	X039XID	"39" Exit 39 id
		Indicator Byte Equates			
20	(14)	X'7'	0	X039IND	"XPLIND" Indicator byte
		Condition Byte Equates			
20	(14)	X'8'	0	X039COND	"XPLCOND" Condition byte
		Response Byte Equates			
20	(14)	X'9'	0	X039RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X039RECV	"XPLREB0" Allow data set receive
20	(14)	X'10'	0	X039PLUS	"XPLPLUS" Exit 39 parm list additions
16	(10)	ADDRESS	4	X039PDDB	PDDB address
20	(14)	ADDRESS	4	X039JCT	JCT address
24	(18)	ADDRESS	4	X039NDH	Data set header address
28	(1C)	ADDRESS	4	X039AREA	SRW address
28	(1C)	X'20'	0	X039SIZE	"*-XPL" Length of Exit 39 parm list
		Exit 40 XPL values Modifying SYSOUT characteristics			
		1		X040VERN	"X'01'" Exit 40 XPL version number
28	(1C)	X'28'	0	X040XID	"40" Exit 40 id
		Indicator Byte Equates			
28	(1C)	X'7'	0	X040IND	"XPLIND" Indicator byte
		1...		X040SPIN	"X'80'" This is a spin data set
		.1..		X040NSPN	"X'40'" This is a non-spin data set
		..1.		X040UNSP	"X'20'" This is an unspun data set

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Condition Byte Equates			
28	(1C)	X'8'	0	X040COND	"XPLCOND" Condition byte equate
		Response Byte Equates			
28	(1C)	X'9'	0	X040RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X040RFNT	"XPLREB0" Force mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'40'	0	X040RNNT	"XPLREB1" Suppress mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'10'	0	X040PLUS	"XPLPLUS" Exit 40 parameter list
16	(10)	ADDRESS	4	X040PDDB	Address of PDDB
20	(14)	ADDRESS	4	X040JQE	Address of JQE
24	(18)	ADDRESS	4	X040JCT	Address of JCT
28	(1C)	ADDRESS	4	X040DSCT	Address of DSCT
32	(20)	CHARACTER	20	X040VTXT	Variable text for $HASP548
32	(20)	X'34'	0	X040SIZE	"*-XPL" Length of Exit 40 xpl
		Exit 41 XPL values Modifying output grouping key selection			
		1		X041VERN	"X'01'" Exit 41 XPL version number
32	(20)	X'29'	0	X041XID	"41" Exit 41 id
		Indicator Byte Equates			
32	(20)	X'7'	0	X041IND	"XPLIND" Indicator byte
		Condition Byte Equates			
32	(20)	X'8'	0	X041COND	"XPLCOND" Condition byte
		Response byte equates			
32	(20)	X'9'	0	X041RESP	"XPLRESP" Response byte
32	(20)	X'10'	0	X041PLUS	"XPLPLUS" Exit 41 parameter list
16	(10)	ADDRESS	4	X041GGKT	Address of grouping keys table (mapped by the SJTRKEYL DSECT in the IEFSJTRP macro)
20	(14)	SIGNED	2	X041DEFN	Number of defined entries
22	(16)	SIGNED	2	X041TOTN	Total number of entries (including reserved entries)
22	(16)	X'18'	0	X041RSVN	"24" Number of entries reserved for additional keys
24	(18)	CHARACTER	8	X041JDVT	JDVT name
24	(18)	X'20'	0	X041SIZE	"*-XPL" Size of XPL for exit 41
		Exit 42 XPL values Modifying a notify user message			
		.... ..1.		X042VERN	"X'02'" Exit 42 XPL version number
24	(18)	X'2A'	0	X042XID	"42" Exit 42 id
		Indicator Byte Equates			

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'7'	0	X042IND	"XPLIND" Indicator byte
		1...		X042UNTK	"B'10000000'" User token ignored for unauthorized caller
		Condition Byte Equates			
24	(18)	X'8'	0	X042COND	"XPLCOND" Condition byte These bit definitions reflect the footprints of $NOUSWRK and should maintain the same order as defined.
24	(18)	X'40'	0	X042EMSG	"XPLCOB1" Error in msg specificatn
24	(18)	X'20'	0	X042NOXT	"XPLCOB2" No extension exists
24	(18)	X'10'	0	X042EXTE	"XPLCOB3" Extension Error
24	(18)	X'8'	0	X042NOAU	"XPLCOB4" No authorization
24	(18)	X'4'	0	X042UERR	"XPLCOB5" Userid not specified
24	(18)	X'2'	0	X042DERR	"XPLCOB6" Destination error
		EQU XPLCOB7 Obsolete (z9) Response Byte Equates			
24	(18)	X'9'	0	X042RESP	"XPLRESP" Response byte
24	(18)	X'80'	0	X042CANC	"XPLREB0" Send/Cancel indicator
24	(18)	X'40'	0	X042SETR	"XPLREB1" Exit specified reason/RC
24	(18)	X'20'	0	X042NOCH	"XPLREB2" Node has been changed
24	(18)	X'10'	0	X042RMCH	"XPLREB3" Remote has been changed
24	(18)	X'8'	0	X042USCH	"XPLREB4" USERID has been changed
24	(18)	X'4'	0	X042MSGC	"XPLREB5" Msg text has been changed
24	(18)	X'2'	0	X042MEMC	"XPLREB6" Member has been changed
24	(18)	X'1'	0	X042MAIN	"XPLREB7" Queue CMB to main task
24	(18)	X'10'	0	X042PLUS	"XPLPLUS" Exit 42 parameter list
		Note that the IAZSSNU storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X042CKEY when accessing data in the IAZSSNU.			
16	(10)	ADDRESS	4	X042SNUA	Address of SSOB ext SSNU
20	(14)	SIGNED	2	X042NEWN	Current/updated binary node
22	(16)	SIGNED	2	X042NEWR	Current/updated binary remote
24	(18)	SIGNED	2	X042NWML	Current/updated message length
26	(1A)	SIGNED	2	X042REAS	Exit specified reason code
28	(1C)	SIGNED	4	X042RC	Exit specified return code
32	(20)	CHARACTER	8	X042NEWU	Current/updated userid
40	(28)	ADDRESS	4	X042NEWM	Pointer to current/updated message
44	(2C)	BITSTRING	1	X042CKEY	SSI caller's key
45	(2D)	SIGNED	1	X042MEMB	Current/updated member number
46	(2E)	BITSTRING	2		Reserved
46	(2E)	X'30'	0	X042SIZE	"*-XPL" Length of Exit 42 xpl
		Exit 43 XPL values APPC/MVS TP selection/change/termination			
		1		X043VERN	"X'01'" Exit 43 XPL version number

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
46	(2E)	X'2B'	0	X043XID	"43" Exit 43 id
		Indicator Byte Equates			
46	(2E)	X'7'	0	X043IND	"XPLIND" Indicator byte in parmlist
		1...		X043TPS	"X'80'" This is Transaction Select
		.1..		X043TPT	"X'40'" This is Trans Terminate
		..1.		X043CHG	"X'20'" This is Transaction Change
		Condition Byte Equates			
46	(2E)	X'8'	0	X043COND	"XPLCOND" Condition byte
		Response Byte Equates			
46	(2E)	X'9'	0	X043RESP	"XPLRESP" Response byte
46	(2E)	X'10'	0	X043PLUS	"XPLPLUS" Exit 43 parameter list
16	(10)	ADDRESS	4	X043SJB	Address of SJB
20	(14)	ADDRESS	4	X043JCT	Address of JCT
20	(14)	X'18'	0	X043SIZE	"*-XPL" Length of Exit 43 XPL
		Exit 44 XPL values JES2 converter exit (JES2 main task)			
		11		X044VERN	"X'03'" Exit 44 XPL version number
20	(14)	X'2C'	0	X044XID	"44" Exit 44 id
		Indicator byte equates			
20	(14)	X'7'	0	X044IND	"XPLIND" Indicator byte in parmlist
20	(14)	X'0'	0	X044JCLO	"0" JCL Converted without error
20	(14)	X'4'	0	X044JCLE	"4" JCL error detected by converter
20	(14)	X'8'	0	X044CPER	"8" System error encountered during conversion - see condition byte for additional information
		Condition byte equates The following flags describe the current error to the exit routine. The job will be processed as indicated for each error condition unless directed otherwise by the exit routine via response byte.			
20	(14)	X'8'	0	X044COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X044DLGN	"XPLCOB0" Duplicate logon job; job will be queued for OUTPUT
20	(14)	X'40'	0	X044FKOF	"XPLCOB1" 'FAKE-OPEN' failure; job will be queued for OUTPUT
20	(14)	X'20'	0	X044CNWT	"XPLCOB2" Job was not converted - requested resources not available; job will be re-queued for conversion
		Response byte equates The following flags describe the actions exit routine can direct JES2 to take instead of the standard actions as indicated in the condition byte above for individual error conditions.			
20	(14)	X'9'	0	X044RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X044OUTQ	"XPLREB0" Queue job for output

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	X'40'	0	X044PURQ	"XPLREB1" Queue job for purge
20	(14)	X'20'	0	X044CNVQ	"XPLREB2" Re-queue job for conversion
20	(14)	X'10'	0	X044PLUS	"XPLPLUS" Exit 44 parameter list
16	(10)	ADDRESS	4	X044JCT	Address of the JCT
20	(14)	ADDRESS	4	X044JQE	Address of the JQE
24	(18)	CHARACTER	8	X044JCLS	Current/updated job class
32	(20)	CHARACTER	16	X044SCHE	and scheduling environ
32	(20)	X'30'	0	X044SIZE	"*-XPL" Size of XPL for Exit 44
	Exit 45 XPL values Pre-SJF service request				
	.... ..1.			X045VERN	"X'02'" Exit 45 XPL version number
32	(20)	X'2D'	0	X045XID	"45" Exit 45 id
	Indicator byte equates				
32	(20)	X'7'	0	X045IND	"XPLIND" Indicator byte
	Condition byte equates				
32	(20)	X'8'	0	X045COND	"XPLCOND" Condition byte These bit definitions reflect the error flags of $SFSWORK and should maintain the same order as defined.
32	(20)	X'80'	0	X045PCED	"XPLCOB0" Service PCE disabled
32	(20)	X'40'	0	X045JESD	"XPLCOB1" JES2 Main Task is down
32	(20)	X'20'	0	X045NOXT	"XPLCOB2" No extension exists
32	(20)	X'10'	0	X045EXTE	"XPLCOB3" Extension Error
32	(20)	X'8'	0	X045NOAU	"XPLCOB4" Token Extract error
32	(20)	X'4'	0	X045INVF	"XPLCOB5" Function not supported
32	(20)	X'2'	0	X045INVI	"XPLCOB6" Incorrect input to function
	Response byte equates				
32	(20)	X'9'	0	X045RESP	"XPLRESP" Response byte
32	(20)	X'80'	0	X045CANC	"XPLREB0" Send/Cancel indicator
32	(20)	X'40'	0	X045SETR	"XPLREB1" Exit specified reason/RC
32	(20)	X'10'	0	X045PLUS	"XPLPLUS" Exit 45 parameter list
	Note that the IAZSSSF storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X045CKEY when accessing data in the IAZSSSF. Many IAZSSSF fields have been copied to X045xxxxx fields located here, which don't require keyed instructions.				
16	(10)	ADDRESS	4	X045SSFA	Address of SSOB ext IAZSSSF
20	(14)	ADDRESS	4	X045SFRB	Address of SFRB
24	(18)	SIGNED	2	X045RSVD	Reserved
26	(1A)	SIGNED	2	X045REAS	Exit specified reason code
28	(1C)	SIGNED	4	X045RC	Exit specified return code
32	(20)	BITSTRING	1	X045CKEY	SSI caller's key

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		X045FLG1 flag bit definitions must correspond to the ones in SSSFFLG1 (IAZSSSF) and in SFRFFLG ($SFRB).			
33	(21)	BITSTRING	1	X045FLG1	SSSFFLG1
		1...		X045DEST	"B'10000000'" DEST authorization check
		.1..		X045SECL	"B'01000000'" Seclabel dominance check
		..1.		X045JSSP	"B'00100000'" JESPOOL check (default)
34	(22)	BITSTRING	2		Reserved
36	(24)	CHARACTER	8	X045JBNM	JOBNAME
44	(2C)	CHARACTER	8	X045JBID	JOBID
52	(34)	CHARACTER	8	X045GRPN	Output group name
60	(3C)	SIGNED	2	X045GRP1	Output group - first ID
62	(3E)	SIGNED	2	X045GRP2	Output group - second ID
64	(40)	CHARACTER	8	X045CART	CART for WTO responses
72	(48)	SIGNED	4	X045CNID	Console ID for WTO response
76	(4C)	ADDRESS	4	X045MDAD	Addr of output descriptor modify list in SWBTU format
80	(50)	ADDRESS	4	X045ERAD	Addr of output descriptor erase list in TU format
84	(54)	SIGNED	2	X045MDLN	Len of Modify list (SWBTU)
86	(56)	SIGNED	2	X045ERLN	Len of Erase list (TU)
86	(56)	X'58'	0	X045SIZE	"*-XPL" Length of Exit 45 xpl
		Exit 46 XPL values NJE BSC or SNA header transmit			
		.... ..1.		X046VERN	"X'02'" Exit 46 XPL version number
86	(56)	X'2E'	0	X046XID	"46" Exit 46 id
Indicator byte equates					
86	(56)	X'7'	0	X046IND	"XPLIND" Indicator byte
		1...		X046HDR	"B'10000000'" Job Header call
		.1..		X046TRL	"B'01000000'" Job Trailer call
		..1.		X046DSH	"B'00100000'" Data Set Header call
		...1		X046RCCS	"B'00010000'" RCCS Data Set Header call
		Condition byte equates			
86	(56)	X'8'	0	X046COND	"XPLCOND" Condition byte
86	(56)	X'80'	0	X046R1ST	"XPLCOB0" This RCCS header precedes the first data record
		Response byte equates			
86	(56)	X'9'	0	X046RESP	"XPLRESP" Response byte
86	(56)	X'80'	0	X046TERM	"XPLREB0" Terminate this transmission
86	(56)	X'40'	0	X046BYP	"XPLREB1" Bypass sending Hdr/Trlr

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..11 1111		X046INV	"B'00111111'" Invalid response bit map
86	(56)	X'10'	0	X046PLUS	"XPLPLUS" Exit 46 parameter list
16	(10)	ADDRESS	4	X046HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X046DCT	Address of DCT
24	(18)	ADDRESS	4	X046JQE	Address of JQE
28	(1C)	ADDRESS	4	X046JCT	Address of JCT
32	(20)	ADDRESS	4	X046PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X046JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X046AREA	Address of NJEWORK area
40	(28)	X'2C'	0	X046SIZE	"*-XPL" Length of Exit 46 XPL
40	(28)	X'24'	0	X046JOE	"X046JOA" Equate for work JOE.
Exit 47 XPL values NJE BSC or SNA header receive					
		.... ..1.		X047VERN	"X'02'" Exit 47 XPL version number
40	(28)	X'2F'	0	X047XID	"47" Exit 47 id
Indicator byte equates					
40	(28)	X'7'	0	X047IND	"XPLIND" Indicator byte
		1...		X047HDR	"B'10000000'" Job Header call
		.1..		X047TRL	"B'01000000'" Job Trailer call
		..1.		X047DSH	"B'00100000'" Data Set Header call
		...1		X047RCCS	"B'00010000'" RCCS Data Set Header call
		.... 1...		X047BJQE	"B'00001000'" JQE address in X047JQE is not a real JQE; don't use as input to $DOGJQE
Condition byte equates					
40	(28)	X'8'	0	X047COND	"XPLCOND" Condition byte
Response byte equates					
40	(28)	X'9'	0	X047RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X047TERM	"XPLREB0" Terminate this reception
		.111 1111		X047INV	"B'01111111'" Invalid response bit map
40	(28)	X'10'	0	X047PLUS	"XPLPLUS" Exit 47 parameter list
16	(10)	ADDRESS	4	X047HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X047JCT	Address of JCT
24	(18)	ADDRESS	4	X047JQE	Address of JQE; see description of related bit X047BJQE in flag X047IND
28	(1C)	ADDRESS	4	X047DCT	Address of DCT
32	(20)	ADDRESS	4	X047PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X047AREA	Address of NJEWORK area
36	(24)	X'28'	0	X047SIZE	"*-XPL" Length of Exit 47 XPL

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 48 (No XPL for exit) SSI SYSOUT data set unallocation (unauthorized) Exit 49 XPL values Job queue work select - QGOT			
		1		X049VERN	"X'01'" Exit 49 XPL version number
36	(24)	X'31'	0	X049XID	"49" Exit 49 id
Indicator byte equates					
36	(24)	X'7'	0	X049IND	"XPLIND" Indicator byte
36	(24)	X'0'	0	X049NORM	"0" Normal job selection
36	(24)	X'4'	0	X049SJOB	"4" $S job command issued
36	(24)	X'8'	0	X049SJSE	"8" $S job selection
		Condition byte equates			
36	(24)	X'8'	0	X049COND	"XPLCOND" Condition byte
		Response byte equates			
36	(24)	X'9'	0	X049RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X049SKIP	"XPLREB0" Skip this JQE
36	(24)	X'40'	0	X049NOPT	"XPLREB1" Disallow initiator job selection optimization
36	(24)	X'20'	0	X049NDUP	"XPLREB2" Bypass duplicate job name check for this job
36	(24)	X'1F'	0	X049INV	"FF-X049SKIP-X049NOPT-X049NDUP" Invalid response bit map
36	(24)	X'10'	0	X049PLUS	"XPLPLUS" Exit 49 parameter list
16	(10)	ADDRESS	4	X049JQE	Address of JQE
20	(14)	ADDRESS	4	X049QGT	Address of $QGET parmlist (zero if $S job)
20	(14)	X'18'	0	X049SIZE	"*-XPL" Length of Exit 49 XPL
		Exit 50 XPL values End of input (User env) The mappings of exits 20 and 50 are identical.			
20	(14)	X'32'	0	X050XID	"50" Exit 50 ID
		.... ..1.		X050VERN	"X'02'" Exit 50 XPL version number
		Indicator byte equates			
20	(14)	X'7'	0	X050IND	"XPLIND" Indicator byte equate
		Condition byte equates			
20	(14)	X'8'	0	X050COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X050GJOB	"XPLCOB0" Condition bit that specifies a normal job
20	(14)	X'40'	0	X050JECL	"XPLCOB1" Condition bit specifies JECL error
20	(14)	X'20'	0	X050BSAF	"XPLCOB2" Condition bit specifies SAF failure
20	(14)	X'10'	0	X050WSEL	"XPLCOB3" Condition bit specifies work selection mismatch

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Response byte equates			
20	(14)	X'9'	0	X050RESP	"XPLRESP" Response byte equate
20	(14)	X'80'	0	X050NORM	"XPLREB0" Response bit to do normal process
20	(14)	X'40'	0	X050OUTP	"XPLREB1" Response bit to terminate job with output
20	(14)	X'20'	0	X050PURG	"XPLREB2" Response bit to terminate by purge
20	(14)	X'10'	0	X050AVF	"XPLREB3" Response bit to indicate exit's job verify failed
20	(14)	X'10'	0	X050PLUS	"XPLPLUS" Exit 50 parameter list
16	(10)	ADDRESS	4	X050JCT	Address of the JCT
20	(14)	ADDRESS	4	X050JQE	Address of the JQA
24	(18)	ADDRESS	4	X050DCT	Always zero
28	(1C)	ADDRESS	4	X050AREA	Address of JRW
32	(20)	SIGNED	1	X050PRIO	Job priority
33	(21)	BITSTRING	1	X050FLG1	Flags
		1...		X0501ARM	"B'10000000'" SYSAFF set by MVS ARM
		.1..		X0501IND	"B'01000000'" Independent system aff
34	(22)	SIGNED	2	X050XNOD	Execution node
36	(24)	BITSTRING	4	X050SAF	Full system affinity mask
40	(28)	CHARACTER	16	X050SENV	SCHENV value
56	(38)	CHARACTER	8	X050JCLS	Job class
64	(40)	BITSTRING	1	X050NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X050UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X050SIZE	"*-XPL" Size of XPL for Exit 50
100	(64)	ADDRESS	2	(0)	Ensure XPL for exits 20
100	(64)	ADDRESS	2	(0)	and 50 are same size
		Exit 51 XPL values Job phase change exit ($QMOD)			
100	(64)	X'33'	0	X051XID	"51" Exit 51 ID
		1		X051VERN	"X'01'" Exit 51 XPL version number
		Indicator byte equates			
100	(64)	X'7'	0	X051IND	"XPLIND" Indicator byte
		Condition byte equates			
100	(64)	X'8'	0	X051COND	"XPLCOND" Condition byte
100	(64)	X'80'	0	X051RBLD	"XPLCOB0" I.Job is on the re-build que and will be purged when no longer busy
100	(64)	X'40'	0	X051NOCH	"XPLCOB1" I.Phase change is not allowed (X051RXEQ and X051RQUE ignored)

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Response byte equates			
100	(64)	X'9'	0	X051RESP	"XPLRESP" Response byte
100	(64)	X'80'	0	X051RXEQ	"XPLREB0" IO.Job is being/should be requeued for execution (only valid if X051OLDQ is X051QXEQ)
		To change the next phase of the job, set X051RQUE on and set the next phase in X051NEWQ. You cannot change phase if X051NOCH is on. The new phase must be a later phase than the current phase (X051OLDQ).			
100	(64)	X'40'	0	X051RQUE	"XPLREB1" O.X051NEWQ has been updated with new phase (X051NEWT no longer matches X051NEWQ)
100	(64)	X'10'	0	X051PLUS	"XPLPLUS" Area 51 parameter list
16	(10)	ADDRESS	4	X051JQA	I.Address of JQA
		Note, the JCT, if passed, will not be written after this call. If updated, the exit must write the JCT and wait for the I/O to complete.			
20	(14)	ADDRESS	4	X051JCT	I.Address of JCT (or zero)
24	(18)	BITSTRING	1	X051OLDQ	I.Current queue job is in
25	(19)	BITSTRING	1	X051OLDT	I.Current JQE type
26	(1A)	BITSTRING	1	X051NEWQ	IO.New que job is moving to
27	(1B)	BITSTRING	1	X051NEWT	I.Proposed new JQE type
		X051JOBC, X051SENV, X051SAF, X0511IND are only meaningfull if NEWQ is X051QCNV, X051QSET, X051QXEQ			
28	(1C)	CHARACTER	8	X051JOBC	IO.JOB class of the job
36	(24)	CHARACTER	16	X051SENV	IO.SCHENV value
52	(34)	BITSTRING	4	X051SAF	IO.Full sysaff mask
56	(38)	BITSTRING	1	X051FLG1	Flags
		.1..		X0511IND	"B'01000000'" IO.Independent system aff
57	(39)	BITSTRING	3		UFO.Reserved
		Queue values for X051OLDQ and X051NEWQ (not same as JQETYPE field in JQE).			
57	(39)	X'1'	0	X051QINP	"1" Input queue
57	(39)	X'2'	0	X051QCNV	"2" Conversion queue
57	(39)	X'3'	0	X051QSET	"3" Setup queue
57	(39)	X'4'	0	X051QXEQ	"4" Execution queue
57	(39)	X'5'	0	X051QSPN	"5" Spin queue
57	(39)	X'6'	0	X051QXMT	"6" XMIT queue
57	(39)	X'7'	0	X051QRCV	"7" Receive queue
57	(39)	X'8'	0	X051QOUT	"8" Output queue
57	(39)	X'9'	0	X051QHRD	"9" Hardcopy queue
57	(39)	X'A'	0	X051QPUR	"10" Purge queue
57	(39)	X'A'	0	X051QNUM	"10" Total number of queues
57	(39)	X'3C'	0	X051SIZE	"*-XPL" Size of XPL for Exit 51

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 52 XPL values JOB JCL statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.			
57	(39)	X'34'	0	X052XID	"52" Exit 52 ID
		11		X052VERN	"X'03'" Exit 52 XPL version number
		Indicator byte equates			
57	(39)	X'7'	0	X052IND	"XPLIND" Indicator byte
57	(39)	X'8'	0	X052JOBC	"X002JOBC" I.JOB card detected
57	(39)	X'9'	0	X052JOBG	"X002JOBG" I.JOBGROUP card detected
		Condition byte equates			
57	(39)	X'8'	0	X052COND	"XPLCOND" Condition byte
57	(39)	X'80'	0	X052CONT	"X002CONT" I.Card is a continuation
57	(39)	X'10'	0	X052SEC	"X002SEC" I.Not first time exit has been passed card
		Response byte equates			
57	(39)	X'9'	0	X052RESP	"XPLRESP" Response byte
57	(39)	X'80'	0	X052XSNC	"X002XSNC" O.Exit supplied next card
57	(39)	X'40'	0	X052XSEM	"X002XSEM" O.Exit supplied error msg
57	(39)	X'20'	0	X052JCMT	"X002JCMT" O.Skip processing card
57	(39)	X'10'	0	X052KILL	"X002KILL" O.Kill current job
57	(39)	X'8'	0	X052PURG	"X002PURG" O.Purge current job
57	(39)	X'4'	0	X052RLOC	"X002RLOC" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
57	(39)	X'10'	0	X052PLUS	"XPLPLUS" Exit 52 parameter list
16	(10)	ADDRESS	4	X052CARD	I.Address card image
20	(14)	ADDRESS	4	X052FLGX	I.For compatibility, ptr to FLAGX. Exits should use X052IND, X052COND and X052RESP instead.
24	(18)	ADDRESS	4	X052JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X052JCT	I.Address of JCT
32	(20)	ADDRESS	4	X052JQE	I.Address of JQE
36	(24)	ADDRESS	4	X052AREA	I.Address of JRW
40	(28)	ADDRESS	4	X052STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X052STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X052STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X052STMV	I.Statement verb
64	(40)	ADDRESS	4	X052RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X052RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X052RJCC	O.Chain of RJCBs to queue after current card

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	X052RJOB	O.Chain of RJCBs to queue after Job statement, but before first EXEC/ INCLUDE
80	(50)	BITSTRING	1	X052FLG1	Statement flag byte
		Following bits should be the same as RJCB bits			
80	(50)	X'8'	0	X052LOPR	"X002LOPR" I.Last operand is on card
80	(50)	X'4'	0	X052QUOT	"X002QUOT" I.Unfinished quote at end of card
80	(50)	X'2'	0	X052CCMT	"X002CCMT" I.Card is a cont comment
80	(50)	X'1'	0	X052LAST	"X002LAST" I.Last card in statement
		Field common to exits 2 and 52			
81	(51)	BITSTRING	1	X052ECLT	IO.Job JECL processing:
		1...		X052J2CL	"B'10000000'" Process JES2 JECL
		.1..		X052J3CL	"B'01000000'" Process JES3 JECL
82	(52)	BITSTRING	2		Reserved
		End of fields common to exits 2, 4, 52, and 54			
84	(54)	CHARACTER	8	X052OCLS	O.Override job class
92	(5C)	CHARACTER	8	X052OJNM	O.Override job name
		Field common to exits 2 and 52			
100	(64)	CHARACTER	32	X052UCOR	IO.User portion of the job correlator
		Field common to exits 2, 4, 52, and 54			
132	(84)	CHARACTER	12	X052ST12	I.Statement verb- length 12
132	(84)	X'90'	0	X052SIZE	"*-XPL" Size of XPL for Exit 52
		Exit 53 XPL values JOB statement accounting field scan (User env) The mappings of exits 3 and 53 are identical.			
132	(84)	X'35'	0	X053XID	"53" Exit 53 ID
		.... ..1.		X053VERN	"X'02'" Exit 53 XPL version number
		Indicator byte equates			
132	(84)	X'7'	0	X053IND	"XPLIND" Indicator byte
		Condition byte equates			
132	(84)	X'8'	0	X053COND	"XPLCOND" Condition byte
		Response byte equates			
132	(84)	X'9'	0	X053RESP	"XPLRESP" Response byte
132	(84)	X'80'	0	X053XSEM	"X003XSEM" O.Exit supplied error msg
132	(84)	X'40'	0	X053SKIP	"X003SKIP" O.Skip default accounting field scan
132	(84)	X'20'	0	X053KILL	"X003KILL" O.Kill current job
132	(84)	X'10'	0	X053PLUS	"XPLPLUS" Exit 53 parameter list

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	X053ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X053FLGX	I.For compatibility, ptr to FLAGX. Exits should use X053IND, X053COND and X053RESP instead.
24	(18)	ADDRESS	4	X053JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X053ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X053JCT	I.Address of JCT
36	(24)	ADDRESS	4	X053JQE	I.Address of JQE
40	(28)	ADDRESS	4	X053AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X053JCLS	IO.Current/updated JOBCLASS
52	(34)	BITSTRING	1	X053ECLT	IO.Job JECL processing:
		1...		X053J2CL	"B'10000000'" Process JES2 JECL
		.1..		X053J3CL	"B'01000000'" Process JES3 JECL
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X053SIZE	"*-XPL" Size of XPL for Exit 53
56	(38)	ADDRESS	2	(0)	Ensure XPL for exits 3
56	(38)	ADDRESS	2	(0)	and 53 are same size
		Exit 54 XPL values JCL and JES2 control statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.			
56	(38)	X'36'	0	X054XID	"54" Exit 54 ID
		1		X054VERN	"X'01'" Exit 54 XPL version number
		Indicator byte equates			
56	(38)	X'7'	0	X054IND	"XPLIND" Indicator byte
56	(38)	X'0'	0	X054JCL	"X004JCL" I.JCL card detected
56	(38)	X'4'	0	X054JECL	"X004JECL" I.JECL card detected
		Condition byte equates			
56	(38)	X'8'	0	X054COND	"XPLCOND" Condition byte
56	(38)	X'80'	0	X054CONT	"X004CONT" I.Card is a continuation
56	(38)	X'40'	0	X054JOBP	"X004JOBP" I. JOBPARM card detected
56	(38)	X'20'	0	X054CMND	"X004CMND" I. $ command card det
56	(38)	X'10'	0	X054SEC	"X004SEC" I.Not first time exit has been passed card
56	(38)	X'1'	0	X054PREJ	"X004PREJ" I.Card encountered outside a job structure
		Response byte equates			
56	(38)	X'9'	0	X054RESP	"XPLRESP" Response byte
56	(38)	X'80'	0	X054XSNC	"X004XSNC" O.Exit supplied next card
56	(38)	X'40'	0	X054XSEM	"X004XSEM" O.Exit supplied error msg
56	(38)	X'20'	0	X054JCMT	"X004JCMT" O.Skip processing card
56	(38)	X'10'	0	X054KILL	"X004KILL" O.Kill current job
56	(38)	X'8'	0	X054PURG	"X004PURG" O.Purge current job

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'4'	0	X054RLOC	"X004RLOC" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
56	(38)	X'10'	0	X054PLUS	"XPLPLUS" Exit 54 parameter list
16	(10)	ADDRESS	4	X054CARD	I.Address card image
20	(14)	ADDRESS	4	X054FLGX	I.For compatibility, ptr to FLAGX. Exits should use X054IND, X054COND and X054RESP instead.
24	(18)	ADDRESS	4	X054JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X054JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X054JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X054AREA	I.Address of JRW
40	(28)	ADDRESS	4	X054STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X054STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X054STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X054STMV	I.Statement verb
64	(40)	ADDRESS	4	X054RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X054RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X054RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	ADDRESS	4	X054RJOB	O.Chain of RJCBs to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X054FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
80	(50)	X'8'	0	X054LOPR	"X004LOPR" I.Last operand is on card
80	(50)	X'4'	0	X054QUOT	"X004QUOT" I.Unfinished quote at end of card
80	(50)	X'2'	0	X054CCMT	"X004CCMT" I.Card is a cont comment
80	(50)	X'1'	0	X054LAST	"X004LAST" I.Last card in statement
81	(51)	BITSTRING	3		Reserved
	End of fields common to exits 2, 4, 52, and 54				
84	(54)	BITSTRING	8		Reserved
92	(5C)	BITSTRING	8		Reserved
100	(64)	BITSTRING	44		Reserved
100	(64)	X'90'	0	X054SIZE	"*-XPL" Size of XPL for Exit 54
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 52
144	(90)	ADDRESS	2	(0)	and 54 are same size
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 4
144	(90)	ADDRESS	2	(0)	and 54 are same size
	Exit 55 XPL values NJE/TCP SYSOUT reception can never receive				
		1		X055VERN	"X'01'" Exit 55 XPL version number
144	(90)	X'37'	0	X055XID	"55" Exit 55 id

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Indicator Byte Equates			
144	(90)	X'7'	0	X055IND	"XPLIND" Indicator byte
		Condition Byte Equates			
144	(90)	X'8'	0	X055COND	"XPLCOND" Condition byte
		Response Byte Equates			
144	(90)	X'9'	0	X055RESP	"XPLRESP" Response byte
144	(90)	X'80'	0	X055RECV	"XPLREB0" Allow data set receive
144	(90)	X'10'	0	X055PLUS	"XPLPLUS" Exit 55 parm list additions
16	(10)	ADDRESS	4	X055PDDB	PDDB address
20	(14)	ADDRESS	4	X055JCT	JCT address
24	(18)	ADDRESS	4	X055NDH	Data set header address
28	(1C)	ADDRESS	4	X055AREA	SRW address
28	(1C)	X'20'	0	X055SIZE	"*-XPL" Length of Exit 55 parm list
		Exit 56 XPL values NJE/TCP header transmit			
		1		X056VERN	"X'01'" Exit 56 XPL version number
28	(1C)	X'38'	0	X056XID	"56" Exit 56 id
		Indicator byte equates			
28	(1C)	X'7'	0	X056IND	"XPLIND" Indicator byte
		1...		X056HDR	"B'10000000'" Job Header call
		.1..		X056TRL	"B'01000000'" Job Trailer call
		..1.		X056DSH	"B'00100000'" Data Set Header call
		...1		X056RCCS	"B'00010000'" RCCS Data Set Header call
		Condition byte equates			
28	(1C)	X'8'	0	X056COND	"XPLCOND" Condition byte
28	(1C)	X'80'	0	X056R1ST	"XPLCOB0" This RCCS header precedes the first data record
		Response byte equates			
28	(1C)	X'9'	0	X056RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X056TERM	"XPLREB0" Terminate this transmission
28	(1C)	X'40'	0	X056BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X056INV	"B'00111111'" Invalid response bit map
28	(1C)	X'10'	0	X056PLUS	"XPLPLUS" Exit 56 parameter list
16	(10)	ADDRESS	4	X056HADR	Address of Header/Trailer
20	(14)	ADDRESS	4		Unused (see exit 46)
24	(18)	ADDRESS	4	X056JQE	Address of JQE
28	(1C)	ADDRESS	4	X056JCT	Address of JCT
32	(20)	ADDRESS	4	X056PDDB	Address of PDDB (SYSOUT)

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	X056JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X056AREA	Address of work area
40	(28)	X'2C'	0	X056SIZE	"*-XPL" Length of Exit 56 XPL
40	(28)	X'24'	0	X056JOE	"X056JOA" Equate for work JOE.
		Exit 57 XPL values NJE/TCP header receive			
		1		X057VERN	"X'01'" Exit 57 XPL version number
40	(28)	X'39'	0	X057XID	"57" Exit 57 id
		Indicator byte equates			
40	(28)	X'7'	0	X057IND	"XPLIND" Indicator byte
		1...		X057HDR	"B'10000000'" Job Header call
		.1..		X057TRL	"B'01000000'" Job Trailer call
		..1.		X057DSH	"B'00100000'" Data Set Header call
		...1		X057RCCS	"B'00010000'" RCCS Data Set Header call
		.... 1...		X057BJQE	"B'00001000'" JQE address in X057JQE is not a real JQE; don't use as input to $DOGJQE
		Condition byte equates			
40	(28)	X'8'	0	X057COND	"XPLCOND" Condition byte
		Response byte equates			
40	(28)	X'9'	0	X057RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X057TERM	"XPLREB0" Terminate this reception
		.111 1111		X057INV	"B'01111111'" Invalid response bit map
40	(28)	X'10'	0	X057PLUS	"XPLPLUS" Exit 57 parameter list
16	(10)	ADDRESS	4	X057HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X057JCT	Address of JCT
24	(18)	ADDRESS	4	X057JQE	Address of JQE; see description of related bit X057BJQE in flag X057IND
28	(1C)	ADDRESS	4		Unused (see exit 47)
32	(20)	ADDRESS	4	X057PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X057AREA	Address of work area
36	(24)	X'28'	0	X057SIZE	"*-XPL" Length of Exit 57 XPL
		Exit 58 XPL values End of step SSI			
		1		X058VERN	"X'01'" Exit 58 XPL version number
36	(24)	X'3A'	0	X058XID	"58" Exit 58 id
		Indicator byte equates			
36	(24)	X'7'	0	X058IND	"XPLIND" Indicator byte
		Condition byte equates			

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	X'8'	0	X058COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X058STAB	"XPLCOB0" Step ABENDed
		Response byte equates			
36	(24)	X'9'	0	X058RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X058SRST	"XPLREB0" Restart job after this step
36	(24)	X'40'	0	X058SRSH	"XPLREB1" Hold job after restart
36	(24)	X'10'	0	X058PLUS	"XPLPLUS" Exit 58 parameter list
16	(10)	ADDRESS	4	X058SJB	Address of SJB
20	(14)	ADDRESS	4	X058JCT	Address of JCT
24	(18)	CHARACTER	8	X058PSN	Name on EXEC PGM=
32	(20)	CHARACTER	8	X058PSS	Name on EXEC PROC=
40	(28)	SIGNED	2		Reserved
42	(2A)	SIGNED	2	X058STPC	Step completion code
44	(2C)	SIGNED	4	X058STPA	Step ABEND code
44	(2C)	X'30'	0	X058SIZE	"*-XPL" Length of Exit 58 XPL
		Exit 59 XPL values Post Interpreter exit Note that this maps the same as the exit 6 and 60 XPL.			
		1		X059VERN	"X'01'" Exit 59 XPL version number
44	(2C)	X'3B'	0	X059XID	"59" Exit 59 id
		Indicator byte equates			
44	(2C)	X'7'	0	X059IND	"XPLIND" Indicator byte
		Condition byte equates			
44	(2C)	X'8'	0	X059COND	"XPLCOND" Condition byte
44	(2C)	X'80'	0	X059FAIL	"XPLCOB0" Interpreter failed flag
44	(2C)	X'40'	0	X059TSU	"XPLCOB1" TSO user
44	(2C)	X'20'	0	X059STC	"XPLCOB2" Started task
44	(2C)	X'10'	0	X059JOB	"XPLCOB3" Batch job
		Response byte equates			
44	(2C)	X'9'	0	X059RESP	"XPLRESP" Response byte
44	(2C)	X'80'	0	X059HOLD	"XPLREB0" Job should be held
44	(2C)	X'10'	0	X059PLUS	"XPLPLUS" Exit 59 parameter list
16	(10)	ADDRESS	4	X059WORK	16 byte work area address
20	(14)	ADDRESS	4	X059IRET	Address of interpreter RC
24	(18)	ADDRESS	4	X059CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X059JCT	JCT address
32	(20)	SIGNED	4		Reserved (mapped to exit 6)
36	(24)	ADDRESS	4	X059CIW	CIWORK data area address
40	(28)	CHARACTER	8	X059JCLS	Current/updated job class
48	(30)	CHARACTER	16	X059SCHE	and scheduling environ
48	(30)	X'40'	0	X059SIZE	"*-XPL" Length of Exit 59 XPL

Table 599. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 60 XPL values JES2 converter exit (user environment) See exit 6 for SUBTASK environment converter exit Note that this maps the same as the exit 6 and 59 XPL			
		1		X060VERN	"X'01'" Exit 60 XPL version number
48	(30)	X'3C'	0	X060XID	"60" Exit 60 id
		Indicator byte equates			
48	(30)	X'7'	0	X060IND	"XPLIND" Indicator byte
48	(30)	X'0'	0	X060TEXT	"0" Internal text exit
48	(30)	X'4'	0	X060CEND	"4" End of conversion
		Condition byte equates			
48	(30)	X'8'	0	X060COND	"XPLCOND" Condition byte
48	(30)	X'40'	0	X060TSU	"XPLCOB1" TSO user
48	(30)	X'20'	0	X060STC	"XPLCOB2" Started task
48	(30)	X'10'	0	X060JOB	"XPLCOB3" Batch job
		Response byte equates			
48	(30)	X'9'	0	X060RESP	"XPLRESP" Response byte
48	(30)	X'80'	0	X060HOLD	"XPLREB0" Job should be held
48	(30)	X'10'	0	X060PLUS	"XPLPLUS" Exit 60 parameter list
16	(10)	ADDRESS	4	X060WORK	16 byte work area address
20	(14)	ADDRESS	4	X060ITXT(0)	Internal text image address (X060IND = X060TEXT)
20	(14)	ADDRESS	4	X060CRET	Address of Converter RC (X060IND = X060CEND)
24	(18)	ADDRESS	4	X060CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X060JCT	JCT address
32	(20)	ADDRESS	4	X060CNMB	Address of message buffer
36	(24)	ADDRESS	4	X060CIW	CIWORK data area address
40	(28)	CHARACTER	8	X060JCLS	Current/updated job class
48	(30)	CHARACTER	16	X060SCHE	and scheduling environ
48	(30)	X'40'	0	X060SIZE	"*-XPL" Length of Exit 60 XPL

Table 600. Cross Reference for $XPL

Name	Offset	Hex Tag
XPL	0	
XPLBLEN	C	10
XPLCOB0	8	80
XPLCOB1	8	40
XPLCOB2	8	20
XPLCOB3	8	10
XPLCOB4	8	8
XPLCOB5	8	4
XPLCOB6	8	2

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
XPLCOB7	8	1
XPLCOND	8	
XPLEXLEV	6	
XPLID	0	5BE7D7D3
XPLIND	7	
XPLLEVEL	4	
XPLPLUS	10	
XPLREB0	9	80
XPLREB1	9	40
XPLREB2	9	20
XPLREB3	9	10
XPLREB4	9	8
XPLREB5	9	4
XPLREB6	9	2
XPLREB7	9	1
XPLRESP	9	
XPLSIZE	A	
XPLVERN	4	1
XPLXITID	5	
X001COND	10	8
X001DCT	10	
X001DFSP	10	80
X001DSCT	18	
X001HBUF	34	
X001IND	10	7
X001JCNT	10	20
X001JCT	14	
X001JHDR	10	80
X001JNWS	10	40
X001JOA	20	
X001JQE	1C	
X001JTLR	10	40
X001NSWB	30	
X001PDDB	28	
X001PLUS	10	10
X001RESP	10	9
X001RSVD	32	
X001SIZE	34	38
X001SWBT	2C	
X001VERN	10	1
X001WJOE	34	20
X001XID	10	1
X002AREA	24	
X002CARD	10	
X002CCMT	50	2
X002COND	34	8

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X002CONT	34	80
X002ECLT	51	
X002FLGX	14	
X002FLG1	50	
X002IND	34	7
X002JCMT	34	20
X002JCT	1C	
X002JOBC	34	8
X002JOBG	34	9
X002JQE	20	
X002JXWR	18	
X002J2CL	51	80
X002J3CL	51	40
X002KILL	34	10
X002LAST	50	1
X002LOPR	50	8
X002OCLS	54	
X002OJNM	5C	
X002PLUS	34	10
X002PURG	34	8
X002QUOT	50	4
X002RESP	34	9
X002RJCA	44	
X002RJCC	48	
X002RJCP	40	
X002RJOB	4C	
X002RLOC	34	4
X002SEC	34	10
X002SIZE	84	90
X002STME	2C	
X002STML	30	
X002STMT	28	
X002STMV	38	
X002ST12	84	
X002UCOR	64	
X002VERN	34	3
X002XID	34	2
X002XSEM	34	40
X002XSNC	34	80
X003ACCT	10	
X003ACTL	1C	
X003AREA	28	
X003COND	84	8
X003ECLT	34	
X003FLGX	14	
X003IND	84	7

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X003JCLS	2C	
X003JCT	20	
X003JQE	24	
X003JXWR	18	
X003J2CL	34	80
X003J3CL	34	40
X003KILL	84	20
X003PLUS	84	10
X003RESP	84	9
X003SIZE	35	38
X003SKIP	84	40
X003VERN	84	2
X003XID	84	3
X003XSEM	84	80
X004AREA	24	
X004CARD	10	
X004CCMT	50	2
X004CMND	35	20
X004COND	35	8
X004CONT	35	80
X004FLGX	14	
X004FLG1	50	
X004IND	35	7
X004JCL	35	0
X004JCMT	35	20
X004JCT	1C	
X004JECL	35	4
X004JOBP	35	40
X004JQE	20	
X004JXWR	18	
X004KILL	35	10
X004LAST	50	1
X004LOPR	50	8
X004PLUS	35	10
X004PREJ	35	1
X004PURG	35	8
X004QUOT	50	4
X004RESP	35	9
X004RJCA	44	
X004RJCC	48	
X004RJCP	40	
X004RJOB	4C	
X004RLOC	35	4
X004SEC	35	10
X004SIZE	60	90
X004STME	2C	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X004STML	30	
X004STMT	28	
X004STMV	38	
X004ST12	54	
X004VERN	35	1
X004XID	35	4
X004XSEM	35	40
X004XSNC	35	80
X006CEND	90	4
X006CIW	24	
X006CNMB	20	
X006CNVW	18	
X006COND	90	8
X006CRET	14	
X006HOLD	90	80
X006IND	90	7
X006ITXT	14	
X006JCLS	28	
X006JCT	1C	
X006JOB	90	10
X006PLUS	90	10
X006RESP	90	9
X006SCHE	30	
X006SIZE	30	40
X006STC	90	20
X006TEXT	90	0
X006TSU	90	40
X006VERN	90	1
X006WORK	10	
X006XID	90	6
X007CBID	10	
X007CBIN	30	10
X007CBUN	30	20
X007CBWR	30	40
X007COND	30	8
X007IND	30	7
X007IOER	30	80
X007PLUS	30	10
X007RESP	30	9
X007SIZE	10	14
X007VERN	30	1
X007XID	30	7
X008CBID	10	
X008CBIN	10	10
X008CBUN	10	20
X008CBWR	10	40

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X008COND	10	8
X008FSSM	10	8
X008IND	10	7
X008IOER	10	80
X008PLUS	10	10
X008RESP	10	9
X008SIZE	10	14
X008VERN	10	1
X008XID	10	8
X009BEXC	10	10
X009BINC	28	
X009BVAL	1C	
X009CEXC	10	80
X009CNCL	10	4
X009COND	10	8
X009CONX	10	F0
X009DBYT	40	
X009DLIN	30	
X009DPAG	38	
X009DUMP	10	2
X009IND	10	7
X009INDX	10	F
X009JCT	10	
X009LEXC	10	40
X009LVAL	14	
X009OLIR	10	40
X009PEXC	10	20
X009PINC	24	
X009PLUS	10	10
X009PVAL	18	
X009RESO	10	3
X009RESP	10	9
X009RESX	10	E0
X009RINC	20	
X009SDEM	10	20
X009SIZE	48	48
X009USER	10	8
X009USRB	10	10
X009VERN	10	2
X009WARN	10	1
X009XID	10	9
X009XOVR	10	80
X009722D	10	2
X009722N	10	1
X015BYPS	48	80
X015CCWT	38	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X015CGCT	48	
X015COND	48	8
X015CPGP	44	
X015CPRT	40	
X015DCT	10	
X015DSCT	18	
X015DSEL	48	80
X015DSEP	48	40
X015IND	48	7
X015JCT	14	
X015JOA	20	
X015JQE	1C	
X015NCOP	3C	
X015NSWB	30	
X015PDDB	28	
X015PLUS	48	10
X015PRTR	34	
X015RESP	48	9
X015RFSW	48	80
X015RSVD	32	
X015SEPP	48	40
X015SIZE	48	4C
X015SWBT	2C	
X015VERN	48	1
X015WJOE	48	20
X015XID	48	F
X020AREA	1C	
X020AVF	48	10
X020BSAF	48	20
X020COND	48	8
X020DCT	18	
X020FLG1	21	
X020GJOB	48	80
X020IND	48	7
X020JCLS	38	
X020JCT	10	
X020JECL	48	40
X020JQE	14	
X020LOGJ	21	20
X020NEXT	40	
X020NORM	48	80
X020OUTP	48	40
X020PLUS	48	10
X020PRIO	20	
X020PURG	48	20
X020RESP	48	9

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X020SAF	24	
X020SENV	28	
X020SIZE	64	64
X020UCOR	44	
X020VERN	48	3
X020WSEL	48	10
X020XID	48	14
X020XNOD	22	
X0201ARM	21	80
X0201IND	21	40
X022COND	64	8
X022FRST	64	0
X022IND	64	7
X022IOER	64	80
X022MURE	64	4
X022MUST	64	8
X022PLUS	64	10
X022RESP	64	9
X022SIZE	14	18
X022STAA	14	
X022STAC	10	
X022VERN	64	1
X022XID	64	16
X024ALLS	14	10
X024COFM	14	1
X024COLD	14	4
X024COND	14	8
X024ESYS	14	8
X024HOT	14	40
X024ICHK	14	FF
X024IND	14	7
X024IPL	14	2
X024PLUS	14	10
X024QCK	14	20
X024RESP	14	9
X024RSSI	14	80
X024SIZE	16	18
X024SSIA	10	
X024SSIL	16	
X024SSWL	14	
X024VERN	14	1
X024WARM	14	80
X024XID	14	18
X031COND	16	8
X031DSTY	10	
X031ERR	16	1

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X031FAIL	16	1
X031IND	16	7
X031INTR	10	0
X031IOT	24	
X031JFCB	1C	
X031JSNW	10	4
X031PDDB	20	
X031PLUS	16	10
X031PSPI	10	10
X031RESP	16	9
X031SDB	14	
X031SDSB	10	14
X031SIZE	24	28
X031SJB	18	
X031SYIN	10	8
X031SYSO	10	C
X031UNK	10	18
X031VERN	16	1
X031XID	16	1F
X032CIOE	11	1
X032COND	11	
X032ICON	10	1C
X032IND	10	
X032IRCL	10	8
X032IRJI	10	4
X032ISTC	10	10
X032ITSU	10	C
X032IWLD	10	18
X032IWLM	10	14
X032JCT	18	
X032PLUS	7	10
X032RBEG	12	20
X032RESP	12	
X032RHLD	12	40
X032RNMG	12	1
X032RTID	12	4
X032RTIN	12	8
X032RTJB	12	2
X032RVIC	12	10
X032SIZE	18	1C
X032SJB	14	
X032VERN	24	2
X032XID	24	20
X036BYPS	18	1
X036COND	18	8
X036IND	18	7

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X036JES2	18	80
X036NORC	18	2
X036PARM	10	
X036PLUS	18	10
X036RCBA	1C	
X036RCBN	18	
X036RESP	18	9
X036RETC	20	
X036RSNC	24	
X036SIZE	24	28
X036USER	18	40
X036VERN	18	1
X036WAVE	14	
X036XID	18	24
X037COND	24	8
X037IND	24	7
X037JES2	24	80
X037NORC	24	2
X037PARM	10	
X037PLUS	24	10
X037RCBA	1C	
X037RCBN	18	
X037RESP	24	9
X037RETC	20	
X037RSNC	24	
X037SIZE	24	28
X037USER	24	40
X037VERN	24	1
X037WAVE	14	
X037XID	24	25
X038COND	24	8
X038IND	24	7
X038JOA	14	
X038JOE	14	14
X038KEEP	24	80
X038PLUS	24	10
X038PSO	10	
X038RESP	24	9
X038SIZE	14	18
X038VERN	24	1
X038XID	24	26
X039AREA	1C	
X039COND	14	8
X039IND	14	7
X039JCT	14	
X039NDH	18	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X039PDDB	10	
X039PLUS	14	10
X039RECV	14	80
X039RESP	14	9
X039SIZE	1C	20
X039VERN	14	1
X039XID	14	27
X040COND	1C	8
X040DSCT	1C	
X040IND	1C	7
X040JCT	18	
X040JQE	14	
X040NSPN	1C	40
X040PDDB	10	
X040PLUS	1C	10
X040RESP	1C	9
X040RFNT	1C	80
X040RNNT	1C	40
X040SIZE	20	34
X040SPIN	1C	80
X040UNSP	1C	20
X040VERN	1C	1
X040VTXT	20	
X040XID	1C	28
X041COND	20	8
X041DEFN	14	
X041GGKT	10	
X041IND	20	7
X041JDVT	18	
X041PLUS	20	10
X041RESP	20	9
X041RSVN	16	18
X041SIZE	18	20
X041TOTN	16	
X041VERN	20	1
X041XID	20	29
X042CANC	18	80
X042CKEY	2C	
X042COND	18	8
X042DERR	18	2
X042EMSG	18	40
X042EXTE	18	10
X042IND	18	7
X042MAIN	18	1
X042MEMB	2D	
X042MEMC	18	2

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X042MSGC	18	4
X042NEWM	28	
X042NEWN	14	
X042NEWR	16	
X042NEWU	20	
X042NOAU	18	8
X042NOCH	18	20
X042NOXT	18	20
X042NWML	18	
X042PLUS	18	10
X042RC	1C	
X042REAS	1A	
X042RESP	18	9
X042RMCH	18	10
X042SETR	18	40
X042SIZE	2E	30
X042SNUA	10	
X042UERR	18	4
X042UNTK	18	80
X042USCH	18	8
X042VERN	18	2
X042XID	18	2A
X043CHG	2E	20
X043COND	2E	8
X043IND	2E	7
X043JCT	14	
X043PLUS	2E	10
X043RESP	2E	9
X043SIZE	14	18
X043SJB	10	
X043TPS	2E	80
X043TPT	2E	40
X043VERN	2E	1
X043XID	2E	2B
X044CNVQ	14	20
X044CNWT	14	20
X044COND	14	8
X044CPER	14	8
X044DLGN	14	80
X044FKOF	14	40
X044IND	14	7
X044JCLE	14	4
X044JCLO	14	0
X044JCLS	18	
X044JCT	10	
X044JQE	14	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X044OUTQ	14	80
X044PLUS	14	10
X044PURQ	14	40
X044RESP	14	9
X044SCHE	20	
X044SIZE	20	30
X044VERN	14	3
X044XID	14	2C
X045CANC	20	80
X045CART	40	
X045CKEY	20	
X045CNID	48	
X045COND	20	8
X045DEST	21	80
X045ERAD	50	
X045ERLN	56	
X045EXTE	20	10
X045FLG1	21	
X045GRPN	34	
X045GRP1	3C	
X045GRP2	3E	
X045IND	20	7
X045INVF	20	4
X045INVI	20	2
X045JBID	2C	
X045JBNM	24	
X045JESD	20	40
X045JSSP	21	20
X045MDAD	4C	
X045MDLN	54	
X045NOAU	20	8
X045NOXT	20	20
X045PCED	20	80
X045PLUS	20	10
X045RC	1C	
X045REAS	1A	
X045RESP	20	9
X045RSVD	18	
X045SECL	21	40
X045SETR	20	40
X045SFRB	14	
X045SIZE	56	58
X045SSFA	10	
X045VERN	20	2
X045XID	20	2D
X046AREA	28	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X046BYP	56	40
X046COND	56	8
X046DCT	14	
X046DSH	56	20
X046HADR	10	
X046HDR	56	80
X046IND	56	7
X046INV	56	3F
X046JCT	1C	
X046JOA	24	
X046JOE	28	24
X046JQE	18	
X046PDDB	20	
X046PLUS	56	10
X046RCCS	56	10
X046RESP	56	9
X046R1ST	56	80
X046SIZE	28	2C
X046TERM	56	80
X046TRL	56	40
X046VERN	56	2
X046XID	56	2E
X047AREA	24	
X047BJQE	28	8
X047COND	28	8
X047DCT	1C	
X047DSH	28	20
X047HADR	10	
X047HDR	28	80
X047IND	28	7
X047INV	28	7F
X047JCT	14	
X047JQE	18	
X047PDDB	20	
X047PLUS	28	10
X047RCCS	28	10
X047RESP	28	9
X047SIZE	24	28
X047TERM	28	80
X047TRL	28	40
X047VERN	28	2
X047XID	28	2F
X049COND	24	8
X049IND	24	7
X049INV	24	1F
X049JQE	10	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X049NDUP	24	20
X049NOPT	24	40
X049NORM	24	0
X049PLUS	24	10
X049QGT	14	
X049RESP	24	9
X049SIZE	14	18
X049SJOB	24	4
X049SJSE	24	8
X049SKIP	24	80
X049VERN	24	1
X049XID	24	31
X050AREA	1C	
X050AVF	14	10
X050BSAF	14	20
X050COND	14	8
X050DCT	18	
X050FLG1	21	
X050GJOB	14	80
X050IND	14	7
X050JCLS	38	
X050JCT	10	
X050JECL	14	40
X050JQE	14	
X050NEXT	40	
X050NORM	14	80
X050OUTP	14	40
X050PLUS	14	10
X050PRIO	20	
X050PURG	14	20
X050RESP	14	9
X050SAF	24	
X050SENV	28	
X050SIZE	64	64
X050UCOR	44	
X050VERN	14	2
X050WSEL	14	10
X050XID	14	32
X050XNOD	22	
X0501ARM	21	80
X0501IND	21	40
X051COND	64	8
X051FLG1	38	
X051IND	64	7
X051JCT	14	
X051JOBC	1C	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X051JQA	10	
X051NEWQ	1A	
X051NEWT	1B	
X051NOCH	64	40
X051OLDQ	18	
X051OLDT	19	
X051PLUS	64	10
X051QCNV	39	2
X051QHRD	39	9
X051QINP	39	1
X051QNUM	39	A
X051QOUT	39	8
X051QPUR	39	A
X051QRCV	39	7
X051QSET	39	3
X051QSPN	39	5
X051QXEQ	39	4
X051QXMT	39	6
X051RBLD	64	80
X051RESP	64	9
X051RQUE	64	40
X051RXEQ	64	80
X051SAF	34	
X051SENV	24	
X051SIZE	39	3C
X051VERN	64	1
X051XID	64	33
X0511IND	38	40
X052AREA	24	
X052CARD	10	
X052CCMT	50	2
X052COND	39	8
X052CONT	39	80
X052ECLT	51	
X052FLGX	14	
X052FLG1	50	
X052IND	39	7
X052JCMT	39	20
X052JCT	1C	
X052JOBC	39	8
X052JOBG	39	9
X052JQE	20	
X052JXWR	18	
X052J2CL	51	80
X052J3CL	51	40
X052KILL	39	10

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X052LAST	50	1
X052LOPR	50	8
X052OCLS	54	
X052OJNM	5C	
X052PLUS	39	10
X052PURG	39	8
X052QUOT	50	4
X052RESP	39	9
X052RJCA	44	
X052RJCC	48	
X052RJCP	40	
X052RJOB	4C	
X052RLOC	39	4
X052SEC	39	10
X052SIZE	84	90
X052STME	2C	
X052STML	30	
X052STMT	28	
X052STMV	38	
X052ST12	84	
X052UCOR	64	
X052VERN	39	3
X052XID	39	34
X052XSEM	39	40
X052XSNC	39	80
X053ACCT	10	
X053ACTL	1C	
X053AREA	28	
X053COND	84	8
X053ECLT	34	
X053FLGX	14	
X053IND	84	7
X053JCLS	2C	
X053JCT	20	
X053JQE	24	
X053JXWR	18	
X053J2CL	34	80
X053J3CL	34	40
X053KILL	84	20
X053PLUS	84	10
X053RESP	84	9
X053SIZE	35	38
X053SKIP	84	40
X053VERN	84	2
X053XID	84	35
X053XSEM	84	80

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X054AREA	24	
X054CARD	10	
X054CCMT	50	2
X054CMND	38	20
X054COND	38	8
X054CONT	38	80
X054FLGX	14	
X054FLG1	50	
X054IND	38	7
X054JCL	38	0
X054JCMT	38	20
X054JCT	1C	
X054JECL	38	4
X054JOBP	38	40
X054JQE	20	
X054JXWR	18	
X054KILL	38	10
X054LAST	50	1
X054LOPR	50	8
X054PLUS	38	10
X054PREJ	38	1
X054PURG	38	8
X054QUOT	50	4
X054RESP	38	9
X054RJCA	44	
X054RJCC	48	
X054RJCP	40	
X054RJOB	4C	
X054RLOC	38	4
X054SEC	38	10
X054SIZE	64	90
X054STME	2C	
X054STML	30	
X054STMT	28	
X054STMV	38	
X054VERN	38	1
X054XID	38	36
X054XSEM	38	40
X054XSNC	38	80
X055AREA	1C	
X055COND	90	8
X055IND	90	7
X055JCT	14	
X055NDH	18	
X055PDDB	10	
X055PLUS	90	10

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X055RECV	90	80
X055RESP	90	9
X055SIZE	1C	20
X055VERN	90	1
X055XID	90	37
X056AREA	28	
X056BYP	1C	40
X056COND	1C	8
X056DSH	1C	20
X056HADR	10	
X056HDR	1C	80
X056IND	1C	7
X056INV	1C	3F
X056JCT	1C	
X056JOA	24	
X056JOE	28	24
X056JQE	18	
X056PDDB	20	
X056PLUS	1C	10
X056RCCS	1C	10
X056RESP	1C	9
X056R1ST	1C	80
X056SIZE	28	2C
X056TERM	1C	80
X056TRL	1C	40
X056VERN	1C	1
X056XID	1C	38
X057AREA	24	
X057BJQE	28	8
X057COND	28	8
X057DSH	28	20
X057HADR	10	
X057HDR	28	80
X057IND	28	7
X057INV	28	7F
X057JCT	14	
X057JQE	18	
X057PDDB	20	
X057PLUS	28	10
X057RCCS	28	10
X057RESP	28	9
X057SIZE	24	28
X057TERM	28	80
X057TRL	28	40
X057VERN	28	1
X057XID	28	39

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X058COND	24	8
X058IND	24	7
X058JCT	14	
X058PLUS	24	10
X058PSN	18	
X058PSS	20	
X058RESP	24	9
X058SIZE	2C	30
X058SJB	10	
X058SRSH	24	40
X058SRST	24	80
X058STAB	24	80
X058STPA	2C	
X058STPC	2A	
X058VERN	24	1
X058XID	24	3A
X059CIW	24	
X059CNVW	18	
X059COND	2C	8
X059FAIL	2C	80
X059HOLD	2C	80
X059IND	2C	7
X059IRET	14	
X059JCLS	28	
X059JCT	1C	
X059JOB	2C	10
X059PLUS	2C	10
X059RESP	2C	9
X059SCHE	30	
X059SIZE	30	40
X059STC	2C	20
X059TSU	2C	40
X059VERN	2C	1
X059WORK	10	
X059XID	2C	3B
X060CEND	30	4
X060CIW	24	
X060CNMB	20	
X060CNVW	18	
X060COND	30	8
X060CRET	14	
X060HOLD	30	80
X060IND	30	7
X060ITXT	14	
X060JCLS	28	
X060JCT	1C	

Table 600. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X060JOB	30	10
X060PLUS	30	10
X060RESP	30	9
X060SCHE	30	
X060SIZE	30	40
X060STC	30	20
X060TEXT	30	0
X060TSU	30	40
X060VERN	30	1
X060WORK	10	
X060XID	30	3C

$XPWORK information

$XPWORK heading information

Common name: HASP Coupling PCE Work Area

Macro ID: $XPWORK

DSECT name: PCE ($XPWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol XPWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See $PCE

Pointed to by: The $XCFPCE field of the $HCT data area. See $PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 coupling processor. $XPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCFID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$XPWORK mapping

Table 601. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP COUPLING PROCESSOR
328	(148)	SIGNED	4		Reserved
332	(14C)	BITSTRING	1		Reserved
333	(14D)	BITSTRING	1	XPWFLAG2	Recovery processing flag
		1...		XPW2ACTV	"B'10000000'" PCE active

Table 601. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		XPW2RCVY	"B'01000000'" Recovery active
		..1.		XPW2REC1	"B'00100000'" Once through recovery
334	(14E)	BITSTRING	2		Reserved for IBM use
336	(150)	ADDRESS	4	XPWNFRQH	Head/Tail of notification
340	(154)	ADDRESS	4	XPWNFRQT	exit requests
344	(158)	ADDRESS	4	XPWNFXIT	Notification exit chain
348	(15C)	BITSTRING	12	XPWSTQE	$STIMER queue element
360	(168)	SIGNED	4		Reserved for IBM use
364	(16C)	SIGNED	4		Reserved for IBM use
368	(170)	SIGNED	4		Reserved for IBM use
368	(170)	X'2C'	0	XPWPCEWL	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 602. Structure XNFELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XNFELEM	
0	(0)	CHARACTER	4	XNFEYE	Eyecatcher
4	(4)	SIGNED	4	XNFSPLEN	Length and subpool id
4	(4)	X'4'	0	XNFSUBP	"XNFSPLEN,1" Subpool number
4	(4)	X'5'	0	XNFLEN	"XNFSPLEN+1,3" Length
8	(8)	ADDRESS	4	XNFRQNXT	$FIFOENQ chaining
12	(C)	ADDRESS	4	XNFRQPRV	pointers
12	(C)	X'8'	0	XNFXITNX	"XNFRQNXT,L'XNFRQNXT" Exit chaining pointer
16	(10)	BITSTRING	4	XNFRQECB	Request ECB (internal)
20	(14)	BITSTRING	1	XNFRQTYP	Request type (see $MSTNTFY parameter list)
21	(15)	BITSTRING	1	XNFFLAG	Options
		1...		XNFFSUBT	"B'10000000'" Subtask environ caller
		.1..		XNFFJES2	"B'01000000'" JES2 main task caller
22	(16)	BITSTRING	2		Reserved
24	(18)	ADDRESS	4	XNFECBAD	ECB address (caller's ECB)
28	(1C)	ADDRESS	4	XNFPGMAD	EXITPGM address
32	(20)	ADDRESS	4	XNFPRM	EXITPRM
36	(24)	SIGNED	4	XNFXITID	Notification EXITID
40	(28)	DBL WORD	8	(0)	Align to doubleword
40	(28)	X'28'	0	XNFELMLN	"*-XNFELEM" Length of element

Table 603. Cross Reference for $XPWORK

Name	Offset	Hex Tag
PCE	0	
XNFECBAD	18	
XNFELEM	0	
XNFELMLN	28	28
XNFEYE	0	
XNFFJES2	15	40
XNFFLAG	15	

Table 603. Cross Reference for $XPWORK (continued)

Name	Offset	Hex Tag
XNFFSUBT	15	80
XNFLEN	4	5
XNFPGMAD	1C	
XNFPRM	20	
XNFRQECB	10	
XNFRQNXT	8	
XNFRQPRV	C	
XNFRQTYP	14	
XNFSPLEN	4	
XNFSUBP	4	4
XNFXITID	24	
XNFXITNX	C	8
XPWFLAG2	14D	
XPWNFRQH	150	
XPWNFRQT	154	
XPWNFXIT	158	
XPWPCEWL	170	2C
XPWSTQE	15C	
XPW2ACTV	14D	80
XPW2RCVY	14D	40
XPW2REC1	14D	20

$XREQ information

$XREQ heading information

Common name: XCF Information Request Message

Macro ID: $XREQ

DSECT name: XREQ

Owning component: JES2 (SC1BH)

Eye-catcher ID: XREQ
Offset: XREQID-XREQ
Length: L'XREQID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See XREQLEN

Created by: HASPXCF

Pointed to by: XCMXBUFA field of the $XCMWORK data area
XCMACKPT field of the $XCMWORK data area
Expanded in line in HASPIRDA

Serialization: Normal PCE dispatch serialization

Function: The XREQ DSECT maps requests and responses sent between members of a MAS. The intent is that the information requested is easily obtainable without a $WAIT.
XREQ reqests are sent via JESXCF to the default mailbox. These reqests are processed by the JES2 XCF PCE. All data needed to respond to the request must be available without a $WAIT (since the XCF PCE should never $WAIT).
The mapping consistes of a fixed length base section which describes the request/response. This is followed by a variable length data area which qualifies the request or contains the response.

$XREQ mapping

Table 604. Structure XREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XREQ	Start of message header
0	(0)	CHARACTER	4	XREQID	Buffer identifier
4	(4)	ADDRESS	1	XREQVER	Version number
4	(4)	X'1'	0	XREQVERN	"1" Current version
5	(5)	CHARACTER	1	XREQTYPE	Message type
5	(5)	X'D9'	0	XREQMSG	"C'R'" Request message type
5	(5)	X'C1'	0	XREQRESP	"C'A'" Response message type
6	(6)	ADDRESS	1	XREQINFO	Info requested (max 254)
		Main JES2 XCF intermember command request types Mailbox: SYSJESXCF$CMD Address space name: JES2 JESXCF group: $XCFGPNM			
6	(6)	X'1'	0	XREQSCAN	"1" Process $SCAN request
6	(6)	X'2'	0	XREQSTAT	"2" Update status request
6	(6)	X'3'	0	XREQJOE	"3" Update JWEL/TJEV status
6	(6)	X'4'	0	XREQPJOE	"4" Post JOE without clearing JWELs
6	(6)	X'5'	0	XREQPXEQ	"5" $POSTXEQ
6	(6)	X'6'	0	XREQRLOG	"6" $RBLDLOG SYSLOG chain rebuild
6	(6)	X'7'	0	XREQSPIN	"7" SPIN-ANY support
6	(6)	X'8'	0	XREQJQSP	"8" JQA spinnable update
6	(6)	X'9'	0	XREQDCLS	"9" Process JOBCLASS or JOBCLASS GROUP delete
6	(6)	X'A'	0	XREQJMOD	"10" Process Job Modify SSI rq
6	(6)	X'B'	0	XREQCKTR	"11" CKPT tuning request
6	(6)	X'C'	0	XREQDLS	"12" Deadline scheduling request (DLS)
6	(6)	X'D'	0	XREQTMOF	"13" Time offset change event
6	(6)	X'E'	0	XREQZGL	"14" Jobgroup logging request
		Spool migration request types Mailbox: SYSJES2MIGR$ASST Address space name: JES2 JESXCF group: SYSMGnnn			
6	(6)	X'1'	0	XREQPHA1	"1" Start phase 1
6	(6)	X'2'	0	XREQPHA2	"2" Start phase 2
6	(6)	X'3'	0	XREQCNCL	"3" Cancel migration
6	(6)	X'4'	0	XREQSTAU	"4" Migration status
6	(6)	X'5'	0	XREQEND	"5" Successful migration end

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Spool migration request types Mailbox: SYSJES2RN$<volser> Address space name: JES2 JESXCF group: SYSMGnnn SPOOL migration mailbox: Runtime sends "IO permission" requests to migrator via this mailbox. Created by migrator subtask. One per migration.			
6	(6)	X'1'	0	XREQIOPE	"1" IO permission message
		Multi-system data retrieval request types Mailbox: SYSJES$XSYSBUF Address space name: JES2 AUX subtask JESXCF group: SYSJ2$XD			
6	(6)	X'1'	0	XREQXBUF	"1" Retrieve instorage HDB (use PROTSRB service)
6	(6)	X'2'	0	XREQITDT	"2" Retrieve initiator data (initiator SSI)
6	(6)	X'3'	0	XREQMGSW	"3" Migrator switch (spool migration)
6	(6)	X'4'	0	XREQCKPH	"4" CKPTed HCT info (Init deck checker)
		Jobgroup logging message request Mailbox: SYSJES$JOBGRPLOG Address space name: JES2AUX JESXCF group: SYSJ2$XD			
6	(6)	X'4'	0	XREQZGM	"4" Jobgroup message request
7	(7)	BITSTRING	1		Reserved
8	(8)	ADDRESS	4	XREQTOKN	Token passed from reqest to response
12	(C)	ADDRESS	4	XREQFRC	Function return code
16	(10)	SIGNED	4	(2)	Reserved
24	(18)	SIGNED	4	XREQDATO	Offset to data (XREQDATA)
28	(1C)	SIGNED	4	XREQLEN	Data length (no prefix)
32	(20)	BITSTRING	80		Reserved for future use
112	(70)	DBL WORD	8	(0)	Alignment
112	(70)	X'70'	0	XREQBASE	"*-XREQ" Length of base section
		Data area. The contents of the data area depends on the information requested (XREQINFO).			
112	(70)	DBL WORD	8	XREQDATA(0)	Start of data area

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Issue $SCAN request (XREQINFO = 1) This request passes as input a series of SCAN processable statements seperated by a X'15'. The first blank delimited word in the request is an action type (this determines the values used for SCAN= and CALLER= for the $SCAN REQUEST). This is processed on the receiving side by calling $SCAN for each X'15' delimited statement. A caller ID of IRPL is used and the output of the $SCAN call is returned to the caller. For each high level SCANTAB processed, a logical line of output is returned. Each logical line will be seperated by a X'15'. The logical line is valid input to a $SCAN set call. If there is an error on the $SCAN call, the HASP003 message is returned (with the message id). Valid action types are: $D - Display command $DSHORT - Short display command $T - Set command $S - Start command $P - Purge command $E - Reset command $ADD - Add command $DEL - Delete command Example: Sending buffer (? = X'15' in example) $D CKPTDEF MODE ?$D SPOOLDEF VOLUME Response CKPTDEF MODE=DUAL ?SPOOLDEF VOLUME=SPOL1 ?
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XRESCAST(0)	SCAN input for INIT STMT
112	(70)	SIGNED	4	XRESCARC	Highest RC from $SCAN
116	(74)	BITSTRING	1	XRESFLA1	Flag1
117	(75)	BITSTRING	3		Reserved
120	(78)	CHARACTER	1	XRESCADA(0)	Start of returned data
					Update status request (XREQINFO = 2) This request passes updated status information to all members. There is no response data.
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRESTNAM	JES2 member name
128	(80)	DBL WORD	8	XRESTTIM	Time of last CKPT access
136	(88)	SIGNED	4	XREAHOLD	Actual HOLD value
140	(8C)	SIGNED	4	XREADORM	Actual dormancy value
144	(90)	SIGNED	4	XRESCKLV	Last change CKPT level
148	(94)	SIGNED	2	XRESTGSZ	Current TG size
150	(96)	BITSTRING	1	XRESFLG1	Flags:
		1...		XRES1FW	"B'10000000'" Final write
		.1..		XRES1TCM	"B'01000000'" Ckpt tuning changes made
		..1.		XRES1EX1	"B'00100000'" CKPT1 has been extended
		...1		XRES1EX2	"B'00010000'" CKPT2 has been extended
		.... 1...		XRES1RSN	"B'00001000'" Ckpt tuning reset needed
151	(97)	BITSTRING	1	XRESFLG2	Additional flags
		1...		XRE2TRCK	"B'10000000'" A TRACK exists for member
		.1..		XRE2ALRT	"B'01000000'" An ALERT exists for member

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		XRE2NTCE	"B'00100000'" A NOTICE exists for member
		...1		XRE2CRIT	"B'00010000'" at least 1 is critical
152	(98)	CHARACTER	44	XRESDSM	Current SPOOL DSN mask
196	(C4)	SIGNED	4	XREZPSEQ	z/OS product sequence numb.
200	(C8)	SIGNED	4	XRESPAIN	Member pain value
204	(CC)	SIGNED	4	XRESPNRT	Member pain rate
208	(D0)	SIGNED	4	XRESOHV	CKPT access overhead (in microsecs)
212	(D4)	SIGNED	4	XRESQSMX	Time between getting CKPT and last $WAIT by PCE with $QSUSE (in microsecs)
216	(D8)	SIGNED	4	XRESHOLD	Configured HOLD
220	(DC)	SIGNED	4	XRESLDRM	Configured min DORMANCY
224	(E0)	SIGNED	4	XRESHDRM	Configured max DORMANCY
228	(E4)	SIGNED	2	XRESCTSN	Ckpt tuning cycle number
230	(E6)	BITSTRING	2		Reserved
230	(E6)	X'78'	0	XRESCTDL	"*-XREQDATA" Len with CKPT tuning data
232	(E8)	SIGNED	4	XRESCKRT	Avg ckpt request interval (in 1/100s of second)
236	(EC)	CHARACTER	4	XRESEMGN	Emergency subsystem name
236	(EC)	X'F0'	0	XRESTLEN	"*-XREQ" Total length of request
		Update JWEL/TJEV status (XREQINFO = 3) Post JOE without clearing JWELs (XREQINFO = 4) or Post JOE with clearing JWELs or synchronize JOECRTME and $JWECRTM This request passes a JOE offset and JOE creation time. For XREQINFO = 3, this is used to manage the removal of JWELs and TJEVs. There is no response data. For XREQINFO = 4, this is used to $#POST a JOE without removing the JWELs. There is no response data.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJOEOF	JOE offset
124	(7C)	SIGNED	4	XREJOECR	JOE creation time
128	(80)	SIGNED	4	XREJOEPR	Prior 'creation' time
132	(84)	BITSTRING	1	XREJFLG1	Flags
		1...		XREJ1PST	"B'10000000'" $#POST needed
		11..		XREJ1KPJ	"B'11000000'" $#POST and keep JWELs
		..1.		XREJ1CRT	"B'00100000'" Ensure JOECRTME=$JWECRTM
133	(85)	BITSTRING	3		Reserved for future use
133	(85)	X'88'	0	XREJOELN	"*-XREQ" Total length of request
133	(85)	X'22'	0	XREJOELW	"(*-XREQ+3)/4" Total length in words
		Perform $POSTXEQ. (XREQINFO = 5) Perform $POSTXEQ. There is no response data.			
112	(70)	SIGNED	4	(2)	Reserved
112	(70)	X'78'	0	XREXEQLN	"*-XREQ" Total length of request
112	(70)	X'1E'	0	XREXEQLW	"(*-XREQ+3)/4" Total length in words

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Rebuild SYSLOG chain. (XREQINFO = 6) Call the HASPJQS routine $RBLDLOG to rebuild the chain of SYSLOG job JQEs. There is no response data. Passed data is the MVS system name of the member that needs its SYSLOG chain rebuilt, and an indicator whether to check the chain before doing the rebuild.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRERLMVS	MVS system name w/bad SYSLOG chain
128	(80)	SIGNED	4	XRERLCHN	Check syslog chain ind
128	(80)	X'84'	0	XRERBLLN	"*-XREQ" Total length of request
128	(80)	X'21'	0	XRERBLLW	"(*-XREQ+3)/4" Total length in words
		SPIN-ANY support (XREQINFO = 7) Perform a surrogate WTO with a HASP138 message that in turn precipitates code in the WTO SSI that performs $SPIN operations.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREPDATA(0)	Start of SPIN data
120	(78)	SIGNED	4	XREPJOBN	Job number
124	(7C)	SIGNED	2	XREP138	Length of text
126	(7E)	CHARACTER	100	XREPMSG	HASP138 text
228	(E4)	SIGNED	4	XREPCNID	Console id
228	(E4)	X'70'	0	XREPDATL	"*-XREPDATA" Lenth of SPIN data
228	(E4)	X'E8'	0	XREPBLLN	"*-XREQ" Total length of request
228	(E4)	X'3A'	0	XREPBLLW	"(*-XREQ+3)/4" Total length in words
		JQA set spinnable (XREQINFO = 8) Update JQA by turning on JQA1SPIN flag.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XSPNJOBN	Job number
120	(78)	X'7C'	0	XSPNBLLN	"*-XREQ" Total length of request
120	(78)	X'1F'	0	XSPNBLLW	"(*-XREQ+3)/4" Total length in words
		Delete JOBCLASS or CLASS Group (XREQINFO = 9) Update JQA by turning on JQA1SPIN flag.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XCLSNAME	Class or group name
128	(80)	BITSTRING	1	XCLSTYPE	Type of item being deleted
128	(80)	X'1'	0	XCLSTCLS	"1" JOBCLASS
128	(80)	X'2'	0	XCLSTGRP	"2" JOBCLASS GROUP
129	(81)	BITSTRING	3		Reserved
129	(81)	X'84'	0	XCLSBLLN	"*-XREQ" Total length of request
129	(81)	X'21'	0	XCLSBLLW	"(*-XREQ+3)/4" Total length in words

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Process Job Modify SSI Request (XREQINFO = 10) Call the appropriate routine to perform the Job Modify SSI request. The response data should indicate the success or failure of the function. Valid action types are: $T - Set command $S - Start command $P - Purge command $E - Restart command			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREJDATA(0)	Start of MODJOB req data
120	(78)	ADDRESS	4	XREJMDJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMDJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMDTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMDF1	Flags
		1...		XREJMD1S	"B'10000000'" SYNC request in JQRB
		.1..		XREJMD1X	"B'01000000'" Request sent cross member
		..11		XREJMD1R	"B'00110000'" Reserved
		.... 1...		XREJCONC	"B'00001000'" $DCONSET versus $DMNDJOB
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMDJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMDMN	Member number where to send message
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	(2)	Reserved for future use
200	(C8)	X'58'	0	XREJMDBL	"*-XREJDATA" Base length of request data
208	(D0)	CHARACTER	1	XREJMDTA(0)	Start of associated data
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJMRJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMRJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMRTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMRF1	Flags
		1...		XREJMR1S	"B'10000000'" SYNC request in JQRB
		.1..		XREJMR1X	"B'01000000'" Request sent cross member
		..1.		XREJMR1U	"B'00100000'" Service got update JQA
		...1		XREJMR1R	"B'00010000'" Service got read JQA
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMRJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMRMN	Member number where message sent
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	(2)	Reserved for future use
208	(D0)	SIGNED	4	XREJMRRC	RC from MODJOB function
212	(D4)	SIGNED	4	XREJMRIC	Internal code from service
216	(D8)	SIGNED	4		Reserved

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	X'DC'	0	XREJMDRL	"*-XREQ" Total length of response
		CKPT tuning request (XREQINFO = 11) Process CKPT tuning request from another member			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XRECTIME	Message timestamp
128	(80)	BITSTRING	1	XRECREQ	Type of request:
128	(80)	X'1'	0	XRECSTRT	"1" - START CKPT tuning
128	(80)	X'2'	0	XRECSTOP	"2" - STOP CKPT tuning
128	(80)	X'3'	0	XRECOPT	"3" - OPTIMIZE
129	(81)	BITSTRING	1		Reserved
130	(82)	SIGNED	2	XRECSEQN	Ckpt tuning cycle number
132	(84)	SIGNED	4	XRECBCL	Length of basic cycle
136	(88)	SIGNED	4	XRECFHLD	"fair-share" HOLD value
140	(8C)	SIGNED	4	XRECCKRI	Total ckpt request interval (in 1/100s of second)
144	(90)	SIGNED	4	XRECCKRC	Nr of contributors
148	(94)	SIGNED	4	(2)	Reserved
		Tuning data for all members. Entries in this array are mapped by XRECMBRE.			
156	(9C)	SIGNED	2	XRECMDEN	Number of entries in array
158	(9E)	SIGNED	2	XRECMDEL	Length of entry in array
160	(A0)	BITSTRING	1	XRECMBRD	Member data
160	(A0)	X'220'	0	XRECSIZE	"*-XREQ" Total length of request
		Deadline scheduling request (XREQINFO = 12) Register job for deadline scheduling processing			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XDLSJBX	JQE index
124	(7C)	SIGNED	4	XDLSJBKY	Job key
128	(80)	BITSTRING	1	XDLSFUNC	Function requested:
128	(80)	X'1'	0	XDLSADDH	"1" add HOLDUNTL job
129	(81)	BITSTRING	1	XDLSFLG1	Flags:
		1...		XDLS1UTC	"B'10000000'" Time is UTC
130	(82)	BITSTRING	6	XDLSTIME	Job event timestamp in ETOD format
136	(88)	BITSTRING	1	XDLSMBR	Job input member id
137	(89)	BITSTRING	15		Reserved
137	(89)	X'98'	0	XDLSSIZE	"*-XREQ" Total length of request
		Time offset change event (XREQINFO = 13) Report local time offset change on a member			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XTMOTIME	Message timestamp
128	(80)	SIGNED	4	XTMOFFST	New time offset
132	(84)	BITSTRING	1	XTMOMBR	Reporting member id
133	(85)	BITSTRING	3		Reserved

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
133	(85)	X'88'	0	XTMOSIZE	"*-XREQ" Total length of request
					End of definitions for Mailbox name SYSJESXCF$CMD Perform PROTSRB. Mailbox name = SYSJES$XSYSBUF This request will pass as input the PROTSRB parm list and return as output a data buffer.
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XRESRBP(0)	-+ PROTSRB parm list
120	(78)	ADDRESS	4	XREGTBF	| Protected buffer address
124	(7C)	BITSTRING	8	XRESPAD	SPIOSPAD | Spool address to be found
132	(84)	BITSTRING	4	XREJKEY	SPIOJKEY | Job key
136	(88)	SIGNED	4	XREDSKY	SPIODSKY | Dataset key
140	(8C)	SIGNED	2	XREASID	SPIOASID | ASID where job is running
142	(8E)	BITSTRING	1	XREMEMBN	| Member number
143	(8F)	BITSTRING	1	XREQFLG1	| Flag byte
					SBWA2SPB EQU B'10000000' | Spool browse and job log SBWA2JLG EQU B'01000000' | data set flags SBWA2ARQ EQU B'00100000' | and ASINFO data requested/ SBWA2ART EQU B'00010000' | returned flags as defined -+ in $SBWA and SIWSRBP
143	(8F)	X'18'	0	XSRBREQL	"*-XRESRBP" Length of SRB request
143	(8F)	X'90'	0	XREXBFLN	"*-XREQ" Total length of request
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XREXDLEN	Data length
120	(78)	BITSTRING	1	XREXDATA(0)	Start of returned data
					Request initiator data (XREQINFO = XREQITDT) Mailbox name = SYSJES$XSYSBUF This request will pass as input appropriate filters and flags and get back initiator data.
112	(70)	BITSTRING	1	XREIPRCF	Processing flags (copy of ITWPROCF in HASCSIJP)
113	(71)	BITSTRING	1	XREIFLG1	Init SSI filters (see JPITFLG1 in IAZJPITD)
114	(72)	BITSTRING	1	XREISTAT	Init Status Filter (see JPITSTAT in IAZJPITD)
115	(73)	BITSTRING	1	XREIFLGR	Request restart flags (see ITWFLGR in $ITWORK)
116	(74)	SIGNED	4	XREIREST	Request restart counter
120	(78)	CHARACTER	8	XREICLAS	Service/Job Class Name (see JPITSCLS in IAZJPITD)
128	(80)	CHARACTER	1	XREISTKN	Caller security token
128	(80)	X'D0'	0	XREIBFLN	"*-XREQ" Total length of request
112	(70)	BITSTRING	4	XREROINJ	Offset to 1st JES2 init (zero if none returned)
116	(74)	BITSTRING	4	XREROINW	Offset to 1st WLM init (zero if none returned)
120	(78)	BITSTRING	2	XRERDVER	Version of data
122	(7A)	BITSTRING	1	XRERFLGR	Response restart flags (see ITWFLGR in $ITWORK)
123	(7B)	BITSTRING	1		Reserved
124	(7C)	SIGNED	4	XRERREST	Response restart counter

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	SIGNED	4	XRERDATA(0)	Start of returned data
		Migrator switch (XREQINFO = XREQMGSW) Mailbox name = SYSJES$XSYSBUF This request will update migrator member id in the specified CSA DAS and reroute all I/O permission messages to new migrator. This request is used by spool migration recovery. (Note that this request is sent as a COMM message and does not have any response.)			
112	(70)	SIGNED	4	XREWDASI	CSA DAS index
116	(74)	SIGNED	4	XREWMGID	New migrator id
120	(78)	SIGNED	4	(2)	Reserved
120	(78)	X'80'	0	XREWBFLN	"*-XREQ" Total length of request
		Request message: Start phase 1 (XREQINFO = XREQPHA1) Start phase 2 (XREQINFO = XREQPHA2) Cancel migration (XREQINFO = XREQCNCL) End migration (XREQINFO = XREQEND) Mailbox name = SYSJES2MIGR$ASST This request will pass as input source VOLSER and DASEXTNO identifying migration on which to perform the above operations. Spool assistants are required to send response for all of these messages on mailbox MG$<VOLSER>.			
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XRESTRT	Start target TG bit in support of transposer - only in start phase 1 msg
120	(78)	SIGNED	4	XRETLBM	Relative track at which the track level bitmap (TLBM) starts on TARG DS. Value of 0 denotes no TLBM. Only in start phase 1 msg.
124	(7C)	CHARACTER	6	XREVOLSR	Source DAS VOLSER ID
130	(82)	BITSTRING	1	XREEXTNO	Source DAS DASEXTNO
131	(83)	ADDRESS	1	XRMIGTR	SYSID of migrator system where response (ACK) must be sent to
132	(84)	BITSTRING	1		Reserved for future use
132	(84)	X'85'	0	XREPHLEN	"*-XREQ" Total length of request
		Request message Migration status (XREQINFO = XREQSTAU) Mailbox name = SYSJES2MIGR$ASST This request it broadcast to all spool assistants conveying migration information. Spool assistants need not send a response ACK message.			
112	(70)	SIGNED	4		Reserved for future use
116	(74)	BITSTRING	4	XRMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration and cancel.
120	(78)	BITSTRING	1	XREPERCE	Percent complete
121	(79)	CHARACTER	6	XRERVSER	Source DAS VOLSER ID
127	(7F)	BITSTRING	1	XRERXTNO	Source DAS DASEXTNO
128	(80)	SIGNED	4	XRETLBMR	Number of records in TLBM
132	(84)	BITSTRING	1	XRTLBM	TLBM flags
		1...		XRTLBMWR	"B'10000000'" TLBM has been written to target dataset
133	(85)	BITSTRING	1	XRERSFLG	Status Flag

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		XRERNCAN	"B'10000000'" Migration not cancellable
134	(86)	BITSTRING	1	XRMIGTSK	Migrator subtask state
135	(87)	BITSTRING	1		Reserved for future use
135	(87)	X'88'	0	XRERLEN	"*-XREQ" Total length of request
		Response message. Phase 1 start complete (XREQINFO = XREQPHA1) for this MAS member. Phase 2 start complete (XREQINFO = XREQPHA2) for this MAS member. Cancel migration complete (XREQINFO = XREQCNCL) for this MAS member. End migration complete (XREQINFO = XREQEND) for this MAS member. Mailbox name = SYSJES2MG$VOLSER This is notification of operation completion on a per member basis. Migration spool assistant subtask sends this message.			
112	(70)	BITSTRING	3	XREMEMBR	MAS member affinity token
115	(73)	BITSTRING	1		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREMELEN	"*-XREQ" Total length of request
		IO permission request (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN$VOLSER Send 'IO permission" request via runtime.			
112	(70)	SIGNED	4	XRETTRAC	Source DAS track
116	(74)	BITSTRING	1	XRETIOTY	IO type
		1		XRETREAD	"X'01'" Read
		.... ..1.		XRETWRIT	"X'02'" Write
117	(75)	BITSTRING	3		Reserved for future use
120	(78)	DBL WORD	8	XRETCHAN(0)	Request chain
120	(78)	ADDRESS	4	XRETCHFW	off $DTEMIGR
124	(7C)	ADDRESS	4	XRETCHBK	(managed by $FIFOENQ)
128	(80)	ADDRESS	4	XRETCHN2	Request chain off MGDBUF
136	(88)	DBL WORD	8	XRETTOKN	JESXCF message token
144	(90)	SIGNED	4	(2)	Reserved
144	(90)	X'98'	0	XRETTLEN	"*-XREQ" Length of the request
152	(98)	SIGNED	4	XRETDATA(0)	Start of returned data
		IO permission response (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN$VOLSER "IO permission" request response from migrator.			
112	(70)	BITSTRING	1	XREFLAG	Flags
		1...		XREOVRMP	"B'10000000'" Override source DAS mapped value.
		.1..		XREBTOFF	"B'01000000'" Turn off associated track level bitmap - bit
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREQIOLN	"*-XREQ" Total length of request
		Jobgroup logging request (XREQINFO = XREQZGL)			

Table 604. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGLFUNC	Function requested:
120	(78)	X'1'	0	XZGLTOVR	"1" logging takeover
121	(79)	BITSTRING	1	XZGLMBR	Requesting member
		Array of JQE entries for the jobs affected by the request. Entries are mapped by XZGLENT DSECT. For XZGLSTRT request, XZGLARRN = 0 means that request applies to all jobgroup logging JQEs owned by the requesting member.			
122	(7A)	BITSTRING	2	XZGLARRO	Offset to the 1st element
124	(7C)	BITSTRING	2	XZGLARRN	Number of entries
126	(7E)	BITSTRING	2	XZGLARRL	Length of the entry
128	(80)	BITSTRING	1	XZGLFLG1	Flags:
		1...		XZGL1STQ	"B'10000000'" scan SETUP queue
		.1..		XZGL1OUQ	"B'01000000'" scan OUTPUT queue
		..1.		XZGL1PGQ	"B'00100000'" scan PURGE queue
		...1		XZGL1POU	"B'00010000'" POST OUTPUT processor
		.... 1...		XZGL1PPG	"B'00001000'" POST PURGE processor
129	(81)	BITSTRING	7		Reserved
129	(81)	X'88'	0	XZGLSIZE	"*-XREQ" Length of fixed part of the message request
		Jobgroup message request (XREQINFO = XREQZGM)			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGMFUNC	Function requested:
120	(78)	X'1'	0	XZGLPREQ	"1" pacing request (flush JESXCF data path)
120	(78)	X'2'	0	XZGLPRSP	"2" pacing response
120	(78)	X'3'	0	XZGLLMSG	"3" message to log (payload of this message is part of ZGLMSG in $ZGL starting at ZGMIDX)
121	(79)	BITSTRING	1	XZGMSMBR	Sending member
122	(7A)	BITSTRING	1	XZGMTMBR	Target member
123	(7B)	BITSTRING	5		Reserved
128	(80)	DBL WORD	8	XZGMTIME	Message timestamp (STCK)
128	(80)	X'88'	0	XZGMPSIZ	"*-XREQ" Length of a pacing message
128	(80)	X'88'	0	XZGMSIZE	"*-XREQ" Length of fixed part of the message request

Table 605. Structure XRECMBRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XRECMBRE	, Member entry
0	(0)	SIGNED	4	XRECMHLD	New value for HOLD
4	(4)	SIGNED	4	XRECMLDR	New value for min DORMANCY
8	(8)	SIGNED	4	XRECMHDR	New value for max DORMANCY
8	(8)	X'C'	0	XRECMESZ	"*-XRECMBRE" Size of member entry

Table 606. Structure XZGLENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XZGLENT	, JQE entry
0	(0)	SIGNED	4	XZGLEJBX	JQE index of a logging job
4	(4)	SIGNED	4	XZGLEJKY	Job key of a logging job
8	(8)	CHARACTER	8	XZGLEJNM	Jobgroup name
8	(8)	X'10'	0	XZGLENSZ	"*-XZGLENT" Size of member entry

Table 607. Structure XREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XREQ	Back to XREQ
		Request CKPT data (XREQINFO = XREQCKPH) Mailbox name = SYSJES$XSYSBUF This request will pass requested CKPT information and return a data structure with response.			
112	(70)	BITSTRING	1	XCKPREQ	Request type (Same as CKPDREQ)
112	(70)	X'1'	0	XCKPHCTI	"1" Basic CKPT HCT data
113	(71)	BITSTRING	3		Reserved
116	(74)	SIGNED	4	(2)	Reserved
124	(7C)	SIGNED	4	XCKPDATA(0)	Start of returned data
		Type 1 (HCT data) return data (XCKPHCTI)			
124	(7C)	SIGNED	4	XCKPJBNF	Free job numbers (JNTFRCNT)
128	(80)	SIGNED	4	XCKPLCMN	Local min job # (JNTLCMIN)
132	(84)	SIGNED	4	XCKPLCMX	Local max job # (JNTLCMAX)
136	(88)	SIGNED	4	XCKPJOEF	Free JOE count (JOTFREC)
140	(8C)	SIGNED	4	XCKPBRTF	Free BERT count (BRTPFNUM)
144	(90)	SIGNED	4	XCKPTGF	Free TG count ($TGFREEB) (on active volumes)
148	(94)	SIGNED	4	XCKPTGIU	In use TG count (on all non-mapped vols)
152	(98)	SIGNED	4	(8)	Reserved
184	(B8)	SIGNED	2	XCKPHCTO	Offset to CKPTed HCT info
186	(BA)	SIGNED	2	XCKPHCTL	Length of CKPTed HCT info
188	(BC)	SIGNED	2	XCKPQSEO	Offset to QSE info
190	(BE)	SIGNED	2	XCKPQSEL	Length of a QSE
192	(C0)	SIGNED	2	XCKPQSEN	Number of QSEs
194	(C2)	SIGNED	2	XCKPKITO	Offset to KIT info
196	(C4)	SIGNED	2	XCKPKITL	Length of a KIT
198	(C6)	SIGNED	2	XCKPKITN	Number of KITs
		The following maps the fields returned in the usage entry tables for JOEs, BERTs, and ZJCs			
198	(C6)	X'0'	0	XCKUSGNA	"0,8,C'C'" Usage entry name
198	(C6)	X'8'	0	XCKUSGCT	"8,4,C'F'" Usage entry count
198	(C6)	X'C'	0	XCKUSGCB	"12,4,C'F'" Usage entry CB count (BERTs/JQEs/TGs only)
198	(C6)	X'C'	0	XCKUSGSZ	"12" Normal entry size

Table 607. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
198	(C6)	X'10'	0	XCKUSBSZ	"16" Full entry size (for BERTs, JQEs, and TGs)
200	(C8)	SIGNED	2	XCKPJQUO	Offset to JQE usage info
202	(CA)	SIGNED	2	XCKPJQUL	Length of a JQE usage entry
204	(CC)	SIGNED	2	XCKPJQUN	Number of JQE usage blocks
206	(CE)	SIGNED	2	XCKPJOUO	Offset to JOE usage info
208	(D0)	SIGNED	2	XCKPJOUL	Length of a JOE usage entry
210	(D2)	SIGNED	2	XCKPJOUN	Number of JOE usage blocks
212	(D4)	SIGNED	2	XCKPZJCO	Offset to ZJC usage info
214	(D6)	SIGNED	2	XCKPZJCL	Length of a ZJC usage entry
216	(D8)	SIGNED	2	XCKPZJCN	Number of ZJC usage entry
218	(DA)	SIGNED	2	XCKPBRTO	Offset to BERT usage info
220	(DC)	SIGNED	2	XCKPBRTL	Length of a BERT use entry
222	(DE)	SIGNED	2	XCKPBRTN	Number of BERT usage entry
224	(E0)	SIGNED	4	XCKP1DAT(0)	Start of variable data

Table 608. Cross Reference for $XREQ

Name	Offset	Hex Tag
XCKPBRTF	8C	
XCKPBRTL	DC	
XCKPBRTN	DE	
XCKPBRTO	DA	
XCKPDATA	7C	
XCKPHCTI	70	1
XCKPHCTL	BA	
XCKPHCTO	B8	
XCKPJBNF	7C	
XCKPJOEF	88	
XCKPJOUL	D0	
XCKPJOUN	D2	
XCKPJOUO	CE	
XCKPJQUL	CA	
XCKPJQUN	CC	
XCKPJQUO	C8	
XCKPKITL	C4	
XCKPKITN	C6	
XCKPKITO	C2	
XCKPLCMN	80	
XCKPLCMX	84	
XCKPQSEL	BE	
XCKPQSEN	C0	
XCKPQSEO	BC	
XCKPREQ	70	
XCKPTGF	90	
XCKPTGIU	94	
XCKPZJCL	D6	

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XCKPZJCN	D8	
XCKPZJCO	D4	
XCKP1DAT	E0	
XCKUSBSZ	C6	10
XCKUSGCB	C6	C
XCKUSGCT	C6	8
XCKUSGNA	C6	0
XCKUSGSZ	C6	C
XCLSBLLN	81	84
XCLSBLLW	81	21
XCLSNAME	78	
XCLSTCLS	80	1
XCLSTGRP	80	2
XCLSTYPE	80	
XDLSADDH	80	1
XDLSFLG1	81	
XDLSFUNC	80	
XDLSJBKY	7C	
XDLSJBX	78	
XDLSMBR	88	
XDLSSIZE	89	98
XDLSTIME	82	
XDLS1UTC	81	80
XREADORM	8C	
XREAHOLD	88	
XREASID	8C	
XREBTOFF	70	40
XRECBCL	84	
XRECCKRC	90	
XRECCKRI	8C	
XRECFHLD	88	
XRECMBRD	A0	
XRECMBRE	0	
XRECMDEL	9E	
XRECMDEN	9C	
XRECMESZ	8	C
XRECMHDR	8	
XRECMHLD	0	
XRECMLDR	4	
XRECOPT	80	3
XRECREQ	80	
XRECSEQN	82	
XRECSIZE	A0	220
XRECSTOP	80	2
XRECSTRT	80	1
XRECTIME	78	

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XREDSKY	88	
XREEXTNO	82	
XREFLAG	70	
XREGTBF	78	
XREIBFLN	80	D0
XREICLAS	78	
XREIFLGR	73	
XREIFLG1	71	
XREIPRCF	70	
XREIREST	74	
XREISTAT	72	
XREISTKN	80	
XREJCONC	81	8
XREJDATA	78	
XREJFLG1	84	
XREJKEY	84	
XREJMDBL	C8	58
XREJMDF1	81	
XREJMDJA	7C	
XREJMDJC	84	
XREJMDJQ	78	
XREJMDMN	C4	
XREJMDRL	D8	DC
XREJMDTA	D0	
XREJMDTY	80	
XREJMD1R	81	30
XREJMD1S	81	80
XREJMD1X	81	40
XREJMRF1	81	
XREJMRIC	D4	
XREJMRJA	7C	
XREJMRJC	84	
XREJMRJQ	78	
XREJMRMN	C4	
XREJMRRC	D0	
XREJMRTY	80	
XREJMR1R	81	10
XREJMR1S	81	80
XREJMR1U	81	20
XREJMR1X	81	40
XREJOECR	7C	
XREJOELN	85	88
XREJOELW	85	22
XREJOEOF	78	
XREJOEPR	80	
XREJ1CRT	84	20

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XREJ1KPJ	84	C0
XREJ1PST	84	80
XREMELEN	74	7C
XREMEMBN	8E	
XREMEMBR	70	
XREOVRMP	70	80
XREPBLLN	E4	E8
XREPBLLW	E4	3A
XREPCNID	E4	
XREPDATA	78	
XREPDATL	E4	70
XREPERCE	78	
XREPHLEN	84	85
XREPJOBN	78	
XREPMSG	7E	
XREP138	7C	
XREQ	0	
XREQ	0	
XREQBASE	70	70
XREQCKPH	6	4
XREQCKTR	6	B
XREQCNCL	6	3
XREQDATA	70	
XREQDATO	18	
XREQDCLS	6	9
XREQDLS	6	C
XREQEND	6	5
XREQFLG1	8F	
XREQFRC	C	
XREQID	0	E7D9C5D8
XREQINFO	6	
XREQIOLN	74	7C
XREQIOPE	6	1
XREQITDT	6	2
XREQJMOD	6	A
XREQJOE	6	3
XREQJQSP	6	8
XREQLEN	1C	
XREQMGSW	6	3
XREQMSG	5	D9
XREQPHA1	6	1
XREQPHA2	6	2
XREQPJOE	6	4
XREQPXEQ	6	5
XREQRESP	5	C1
XREQRLOG	6	6

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XREQSCAN	6	1
XREQSPIN	6	7
XREQSTAT	6	2
XREQSTAU	6	4
XREQTMOF	6	D
XREQTOKN	8	
XREQTYPE	5	
XREQVER	4	
XREQVERN	4	1
XREQXBUF	6	1
XREQZGL	6	E
XREQZGM	6	4
XRERBLLN	80	84
XRERBLLW	80	21
XRERDATA	80	
XRERDVER	78	
XRERFLGR	7A	
XRERLCHN	80	
XRERLEN	87	88
XRERLMVS	78	
XRERNCAN	85	80
XREROINJ	70	
XREROINW	74	
XRERREST	7C	
XRERSFLG	85	
XRERVSER	79	
XRERXTNO	7F	
XRESCADA	78	
XRESCARC	70	
XRESCAST	78	
XRESCKLV	90	
XRESCKRT	E8	
XRESCTDL	E6	78
XRESCTSN	E4	
XRESDSM	98	
XRESEMGN	EC	
XRESFLA1	74	
XRESFLG1	96	
XRESFLG2	97	
XRESHDRM	E0	
XRESHOLD	D8	
XRESLDRM	DC	
XRESOHV	D0	
XRESPAD	7C	
XRESPAIN	C8	
XRESPNRT	CC	

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XRESQSMX	D4	
XRESRBP	78	
XRESTGSZ	94	
XRESTLEN	EC	F0
XRESTNAM	78	
XRESTRT	74	
XRESTTIM	80	
XRES1EX1	96	20
XRES1EX2	96	10
XRES1FW	96	80
XRES1RSN	96	8
XRES1TCM	96	40
XRETCHAN	78	
XRETCHBK	7C	
XRETCHFW	78	
XRETCHN2	80	
XRETDATA	98	
XRETIOTY	74	
XRETLBM	78	
XRETLBMR	80	
XRETREAD	74	1
XRETTLEN	90	98
XRETTOKN	88	
XRETTRAC	70	
XRETWRIT	74	2
XREVOLSR	7C	
XREWBFLN	78	80
XREWDASI	70	
XREWMGID	74	
XREXBFLN	8F	90
XREXDATA	78	
XREXDLEN	74	
XREXEQLN	70	78
XREXEQLW	70	1E
XREZPSEQ	C4	
XRE2ALRT	97	40
XRE2CRIT	97	10
XRE2NTCE	97	20
XRE2TRCK	97	80
XRMEMACK	74	
XRMIGTR	83	
XRMIGTSK	86	0
XRTLBM	84	
XRTLBMWR	84	80
XSPNBLLN	78	7C
XSPNBLLW	78	1F

Table 608. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XSPNJOBN	78	
XSRBREQL	8F	18
XTMOFFST	80	
XTMOMBR	84	
XTMOSIZE	85	88
XTMOTIME	78	
XZGLARRL	7E	
XZGLARRN	7C	
XZGLARRO	7A	
XZGLEJBX	0	
XZGLEJKY	4	
XZGLEJNM	8	
XZGLENSZ	8	10
XZGLENT	0	
XZGLFLG1	80	
XZGLFUNC	78	
XZGLLMSG	78	3
XZGLMBR	79	
XZGLPREQ	78	1
XZGLPRSP	78	2
XZGLSIZE	81	88
XZGLTOVR	78	1
XZGL1OUQ	80	40
XZGL1PGQ	80	20
XZGL1POU	80	10
XZGL1PPG	80	8
XZGL1STQ	80	80
XZGMFUNC	78	
XZGMPSIZ	80	88
XZGMSIZE	80	88
XZGMSMBR	79	
XZGMTIME	80	
XZGMTMBR	7A	

$XRQ information

$XRQ programming interface information

$XRQ is a programming interface.

$XRQ heading information

Common name: JES2 XCF request block

Macro ID: $XRQ

DSECT name: XRQ

Owning component: JES2 (SC1BH)

Eye-catcher ID:	XRQ Offset: XRQID-XRQ Length: L'XRQID
Storage attributes:	Subpool: 17 Key: 1 Residency: Virtual - Anywhere Real - Anywhere
Size:	See XRQSIZE
Created by:	JES2 XCF exits.
Pointed to by:	XMAAXRQ of $XMAS
Serialization:	None required
Function:	The JES2 XCF request block is used to convey the status reflected by the XCF exits to the JES2 XCF processor. The entry is freed in the JES2 XCF PCE under the JES2 main task.

$XRQ mapping

Table 609. Structure XRQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XRQ	XCF request block DSECT
0	(0)	CHARACTER	4	XRQID	XRQ Identifier
4	(4)	BITSTRING	1	XRQVRSN	XRQ Version
4	(4)	X'2'	0	XRQVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for IBM use
8	(8)	BITSTRING	1	XRQTYPE	Request type
		1...		XRQTYSG	"B'10000000'" System gone
		.1..		XRQTYMEM	"B'01000000'" Member status change
		..1.		XRQTYUSR	"B'00100000'" User state change
9	(9)	BITSTRING	1	XRQJXCF	JESXCF flag byte
		1...		XRQDOWN	"B'10000000'" Member has gone down
		.1..		XRQUP	"B'01000000'" Member has joined the MAS
10	(A)	BITSTRING	1	XRQMEMB	Associated member number (zero for group events)
11	(B)	BITSTRING	1		Reserved for IBM use
12	(C)	CHARACTER	4	XRQSID	Associated member name
16	(10)	SIGNED	4	XRQNEXT	Next request
20	(14)	SIGNED	4		Reserved for IBM use
24	(18)	BITSTRING	220	XRQGEPL	GEPL supplied with event mapped by IXCYGEPL
244	(F4)	SIGNED	4	(0)	Full word alignment
244	(F4)	BITSTRING	32	XRQGEPUS	User state field for GEPL
276	(114)	SIGNED	4		Reserved for IBM use
280	(118)	SIGNED	4		Reserved for IBM use
280	(118)	X'11C'	0	XRQSIZE	"*-XRQ" Size of XRQ DSECT

Table 610. Cross Reference for $XRQ

Name	Offset	Hex Tag
XRQ	0	
XRQDOWN	9	80
XRQGEPL	18	
XRQGEPUS	F4	

Table 610. Cross Reference for $XRQ (continued)

Name	Offset	Hex Tag
XRQID	0	
XRQJXCF	9	
XRQMEMB	A	
XRQNEXT	10	
XRQSID	C	
XRQSIZE	118	11C
XRQTYMEM	8	40
XRQTYPE	8	
XRQTYSG	8	80
XRQTYUSR	8	20
XRQUP	9	40
XRQVNUM	4	2
XRQVRSN	4	

$ZJC information

$ZJC programming interface information

$ZJC is a programming interface.

$ZJC heading information

Common name: Zone Job Container and related structures.

Macro ID: $ZJC

DSECT name: ZJC

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool (CTENT) of ZJCs is preceded by an eyecatcher '**ZJC POOL**' in the header of the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy.
Key: 1
Residency: The ZJC is a checkpoint resident control block.
Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.

Size: The current size of a ZJC as of the most recent version is ZJCSIZE.
However, the size of a ZJC in the checkpoint is the $ZJCLEN field in $HCT. Always use $ZJCLEN for any calculations!

Created by: During the build of a network, storage is temporarily obtained in 64-bit common storage.
Once created, the network resides in JES2 private checkpoint storage obtained by HASPIRDA.
For the checkpoint versions, storage is obtained by HASPCKVR

Pointed to by:

Serialization: The JES2 checkpoint ($QSUSE).

Function:

The Zone Job Container (ZJC) is the base object in the ZJC CTENT. Inside of each ZJC can be a Zone Object Definition (ZOD), a Zone Job Identifier (ZJI), or a Zone Job Dependency Block (ZDB).
The ZJCs are checkpointed control blocks. There are at least two copies of each ZJC in storage (the actual and I/O copies of the ckpt, in subpool 0). There also may be 1 or more versions in the ckpt versions dataspace.
The following diagram define the linkages between the various objects.
- A chain of Zone Object Definition (ZOD) objects. Each Zone Object Definition (ZOD) is the base object that describes a job zone.
- Zone Job Identifier (ZJI) objects are chained off each Zone Object Definition (ZOD) object. Each ZJI describes a job within the job zone.
- Finally, Zone Dependency Blocks (ZDBs) are chained off of each Zone Job Identifier (ZJI). Each ZDB describes a dependency between two jobs in the zone.
- NOTE: All 'pointers' in the diagrams below are really ZJC CTENT indexes.

```
ZONE OBJECT DEFINITION (ZOD) : <-----------+
._________________________, |
ZOD | | |
| ZODNXZOD *---->----->---------+
| - Next ZOD in | |
| ZOD chain | |
| | |
| ZODIZJI *--->-----+ |
| - Head of ZJI chain. | | |
| This is a chain of | | |
| ALL ZJIs in the | | |
| dependency network | | |
| (ZOD). | V |
| | | |
| ZODIZDB *--->-+ | |
| - Head of ZDB chain. | | | |
| This is a chain of | | | |
| ALL ZDBs in the | | | |
| dependency network | | | |
| (ZOD). | V | |
|_________________________| | V |
| | |
| | |
+---<--------<--------<--------<----+ | |
| | |
| +---<--------<--------<---------+ |
| | |
| V |
V ZONE JOB IDENTIFIER (ZJI) object: <---+ |
```

```
| ._____________________________, | |
| ZJI | | | |
| | ZJIPZOD *---->----->----|----+
| | - Parent ZOD | |
| | . . . | |
| | | |
| | ZJINXZJI *---->----->----+
V | - Next ZJI in ZJI | |
| | chain. This is a | |
| | chain of ALL ZJIs | |
| | in the dependency | |
| | network (ZOD). | |
| | . . . | |
| | | |
| | ZJINXCON *---->----->----+
V | - Next ZJI in | |
| | concurrent ZJI chain| |
| | . . . | |
| | | |
| | ZJIJPZDB *--->--+ |
| | - Head of 'Job as | | |
| | parent' ZDB chain | | |
| | | | |
V | ZJIJDZDB *--->--+ |
| | - Head of 'Job as | | |
| | dependent' ZDB | | |
| | chain. | | |
| | | | |
| |_____________________________| V |
| | |
| | |
V +---<--------<--------<------+ |
| | |
| V |
+------>ZONE DEPENDENCY BLOCK (ZDB): <---+ |
._____________________________, | |
ZDB | | | |
| ZDBNXZDB *---->-----+ |
| - Next ZDB in ZDB | | |
| chain. This is a | | |
| chain of ALL ZDBs | | |
| in the dependency | | |
| network (ZOD). | | |
|_ _ _ _ _ _ _ _ _ _ _ _ | | |
| | | |
| ZDBPRZJI *------>---|-->-+
| | |
| - Parent ZJI for | |
| 'job as parent' | |
| chain. | |
| | |
| ZDBPRNXT *------>---+

| - Next ZDB in 'Job | |
| as parent' chain. | |
|_ _ _ _ _ _ _ _ _ _ _ _ | |
| | |
| ZDBDEZJI | |
| - Parent ZJI for | |
| 'job as dependent' | |
| chain. | |
| | |
| ZDBDENXT *------>---+
| - Next ZDB in Job |
| as dependent' chain |
|_____________________________|
```

$ZJC mapping

Table 611. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	Zone Job Container DSECT.
0	(0)	X'1'	0	ZJCVRSN	"1" ZJC control block version
0	(0)	SIGNED	4	ZJCNFREI	Index of next ZJC on free chain (head of free chain is $ZJCFREI in $HCT).

Table 611. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	ZJCINDEX	Index of this ZJC in the ZJC CTENT.
		Embedded object types :			
8	(8)	BITSTRING	1	ZJCTYPE	Embedded object type.
		....		ZJCT_FRE	"X'00'" The ZJC is unallocated and is on the free chain.
		1		ZJCT_ZOD	"X'01'" ZJC contains a Zone Object Definition (ZOD).
		.... ..1.		ZJCT_ZJI	"X'02'" ZJC contains a Zone Job Identifier (ZJI).
		11		ZJCT_ZDB	"X'03'" ZJC contains a Zone Dependency Block (ZDB).
9	(9)	BITSTRING	3	ZJCRSVD1	Reserved
		Beginning of embedded object. The object can be determined from ZJCTYPE (see above). NOTE: - The current maximum size of an embedded object is defined by $ZJCOBJM.			
9	(9)	X'94'	0	$ZJCOBJM	"148" Max embedded object size
12	(C)	CHARACTER	1	ZJCOBJCT	Start of embedded object
12	(C)	X'A0'	0	ZJCSIZE	"*-ZJC" Size of the Zone Job Containter (ZJC) object.

Table 612. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZOD(0)	Zone Object Definition.
		Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes. - ZODNXZOD is a single chain of ALL ZOD objects. The queue head is $ZODHEAD in the $HCT. - ZODIZJI is a single chain through ALL ZJI objects. Subsequent objects are chained via the ZJINXZJI field. - ZODIZDB is a single chain through ALL ZDB objects. Subsequent objects are chained via the ZJINXZJI field.			
16	(10)	ADDRESS	8	ZODNXZOD	Ptr/Index of next Zone Object Definition (ZOD).
24	(18)	ADDRESS	8	ZODIZJI	Ptr/Index of first object in Zone Job Identifier (ZJI) chain. Subsequent ZJIs are chained via the ZJINXZJI field.
32	(20)	ADDRESS	8	ZODIZDB	Ptr/Index of first object in Zone Dependency Block (ZDB) chain. Subsequent ZDBs are chained via the ZDBNXZDB field.
		ZJI counts - used in some cases to avoid a scan of ZODIZJI chain.			
40	(28)	SIGNED	2	ZODNZJI	Number of ZJIs in ZODIZJI chain (set when built).

Table 612. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	SIGNED	2	ZODNRZJI	Number of ZJIs in ZODIZJI that are associated with a job (maintained at runtime).
44	(2C)	SIGNED	2	ZODNCZJI	Number of ZJIs in ZODIZJI that are COMPLETE or FLUSHED (maintained at runtime).
46	(2E)	SIGNED	2	ZODNPURG	Number of ZJIs in ZODIZJI that are PURGED or FLUSHED (maintained at runtime).
		Timestamp - Set when we checkpoint the ZOD. NOTE: - Occupies the same 8 bytes as ZODBLDWK. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs.			
48	(30)	DBL WORD	8	ZODTSMP	USED AT RUNTIME : Time when the job zone became 'active' (checkpointed).
		Pointer to ZOD build-time work area used to track Jobsets, unresolved dependencies, unresolved concurrent dependencies, etc... NOTE: - Occupies the same 8 bytes as ZODTSMP. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs. - See structure JDBLDWRK in HASCJZDN to see what this pointer addresses.			
48	(30)	X'30'	0	ZODBLDWK	"ZODTSMP,8,C'D'" USED AT BUILD TIME: Pointer to temporary ZOD build-time work area.
		Zone Object identification :			
56	(38)	CHARACTER	8	ZODNAME	Job Zone name.
64	(40)	SIGNED	4	ZODLJNUM	Job number and job key of
68	(44)	BITSTRING	4	ZODLJKEY	associated log job JQE.
		Job Zone Error expression : - When one of the jobs in the Job Zone results in an error, the ERROR= expression in ZODERREX is evaluated with the job's error information to determine if the job zone should stopped, suspended, or flushed. A boolean result is produced. - If boolean result is TRUE, the ONERROR= action (ZODONERR) is taken (see below). ZODERRA is set to the ZODONERR value. - If boolean result is FALSE, no action is taken.			
72	(48)	BITSTRING	64	ZODERREX	ERROR= RPN (Reverse Polish Notation) list Evaluated when one of the jobs in the network is in error.
136	(88)	BITSTRING	1	ZODERREL	ERROR= actual size of RPN (Reverse polish notstion) list
137	(89)	BITSTRING	1	ZODONERR	ONERROR= value. This is set to one of the ZODERRA values (STOP, SUSPEND, or FLUSH) when the ZOD is built.
137	(89)	X'40'	0	ZODERMAX	"64" ERROR= RPN list max size.

Table 612. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				Job Zone error action : - ZODERRA is set to the value of the ZODONERR ONERROR= value (STOP/SUSPEND/FLUSH) when : o The evaluation of the ZODERREX ERROR= expression is TRUE (see ZODERREX description above). o The result of a dependency ZDBWHENT WHEN= expression is FAIL (see ZDBWHENT description below). - The action taken in each case is : o If ZODERRA = ZODENOER (NOT IN ERROR): - The ZOD does not currently have an error condition. The network is running normally. o If ZODERRA = ZODESTOP (STOP) : - The ZOD is to be stopped. No new jobs in the network are allowed to run. Currently active jobs in the network are allowed to complete. o If ZODERRA = ZODESUSP (SUSPEND) : - The ZOD is to be suspended. New jobs that have their dependencies satisfied are allowed to continue. Jobs determined to be in error are considered to have NOT run. These jobs can be resubmitted, and the error state is cleared if they run successfully. o If ZODERRA = ZODEFLSH (FLUSH) : - The ZOD is to be flushed. Currently executing jobs are cancelled, and no new jobs are started. Once there are no longer any jobs running, the network is marked complete.	
138	(8A)	BITSTRING	1	ZODERRA	ZOD error action.
		....		ZODENOER	"X'00'" Error Action = NOT IN ERROR
		1		ZODESTOP	"X'01'" Error Action = STOP
		.... ..1.		ZODESUSP	"X'02'" Error Action = SUSPEND
		11		ZODEFLSH	"X'03'" Error Action = FLUSH
				Zone Object Status :	
139	(8B)	BITSTRING	1	ZODSTAT	Status of the Job Zone
		....		ZOD_PEND	"X'00'" Job Zone Stat = PENDING
		1		ZOD_ACTI	"X'01'" Job Zone Stat = ACTIVE,INIT
		.... ..1.		ZOD_ACT	"X'02'" Job Zone Stat = ACTIVE
		11		ZOD_SUSI	"X'03'" Job Zone Stat = SUSPENDING
		.... .1..		ZOD_SUSD	"X'04'" Job Zone Stat = SUSPENDED
		.... .1.1		ZOD_HELD	"X'05'" Job Zone Stat = HELD
		.... .11.		ZOD_FLSH	"X'06'" Job Zone Stat = FLUSHING
		.... .111		ZOD_CANI	"X'07'" Job Zone Stat = CANCELLING
		.... 1...		ZOD_COMP	"X'08'" Job Zone Stat = COMPLETE
		1111 1111		ZOD_NOTF	"X'FF'" Job Zone Stat = ZOD_NOT_FND
				Indicators :	
140	(8C)	BITSTRING	1	ZODJQEF3	JQEFLAG3 (job type) of associated logging job.
				ZJI 'in error' list head and count :	
144	(90)	SIGNED	4	ZODERZJI	Ptr/Index of first ZJI that that is curently 'in error'. Subsequent ZJIs are chained via the ZJIERZJI field. (maintained at runtime)
148	(94)	SIGNED	2	ZODNUMER	Number of ZJIs in the ZODERZJI chain. (maintained at runtime)
150	(96)	BITSTRING	1	ZODFLAG1	ZOD indicators:

Table 612. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ZOD1RGBL	"B'10000000'" Registration blocked
		.1..		ZOD1ORIG	"B'01000000'" ZOD origin indicator : 0 = JOBGROUP ZOD origin. 1 = / NET ZOD origin.
		..1.		ZOD1NETC	"B'00100000'" If this is a / NET ZOD (ZOD1ORIG=ON), and this bit is ON, the logging job corresponging to this ZOD has not been created yet.
151	(97)	BITSTRING	1	ZODRSVD	Reserved area (length of rest of ZJC object area)
151	(97)	X'9'	0	ZODRSVSZ	"*-ZODRSVD" Size of ZODRSVD.
151	(97)	X'A0'	0	ZODSIZE	"*-ZJC" Size of entire Zone Object Definition (ZOD) object - including ZJC header.

Table 613. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZJI(0)	Job Zone Identifier object.
		Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			
16	(10)	ADDRESS	8	ZJINXZJI	Ptr/Index of next ZJI in list of ALL ZJI objects. The chain head is field ZODIZJI in the ZOD object
24	(18)	ADDRESS	8	ZJIPZOD	Ptr/Index of the 'parent' Zone Job Definition (ZOD) object.
32	(20)	ADDRESS	8	ZJIJPZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Parent' chain.
40	(28)	ADDRESS	8	ZJIJDZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Dependent' chain.
48	(30)	ADDRESS	8	ZJINXCON	Ptr/Index of next concurrent Zone Job Identifier (ZJI) object.
		Build only Linkage Pointers/Indexes :			
56	(38)	ADDRESS	8	ZJINJSET	Ptr/Index of next Zone Job Identifier (ZJI) object. in a JOBSET chain.
		Associated job information :			
64	(40)	CHARACTER	8	ZJIJNAME	Job name.
72	(48)	SIGNED	4	ZJIJBNUM	Job number (JQEJBNUM) of associated job (zero if no JQE is registered to this ZJI yet).
76	(4C)	BITSTRING	4	ZJIJBKEY	Job key (JQEJBKEY) of associated job (zero if no JQE is registered to this ZJI yet).
		Associated jobset information (if any) :			
80	(50)	CHARACTER	8	ZJIJSNAM	Associated jobset name, if any (zero if none)

Table 613. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Indicators :			
88	(58)	BITSTRING	1	ZJIFLAG1	General Indicators :
		1...		ZJI1ELIG	"B'10000000'" Job Eligibility Indicator : 0 = Job not eligible to be selected. 1 = Job eligible to be selected.
		.1..		ZJI1FACT	"B'01000000'" Flush Action Indicator : 0 = ALLFLUSH 1 = ANYFLUSH
		..1.		ZJI1PURG	"B'00100000'" Purge indicaor : 0 = The ZJI has not been purged. 1 = The ZJI has been purged.
		...1		ZJI1RESU	"B'00010000'" Resubmit indicator : 0 = The associated job is not a resubmit. 1 = The associated job is a resubmit
		.... 1...		ZJI1JREG	"B'00001000'" Register indicator : 0 = JQE was never registered 1 = JQE was at some time registered
		.... .1..		ZJI1STRT	"B'00000100'" Warm start indicator : Only pertinent during warm start. 0 = Corresponding job within concurrent set found not re-startable 1 = Corresponding job within concurrent set found to be re-startable
		.... ..1.		ZJI1DEFE	"B'00000010'" Warm start indicator : Only pertinent during warm start. 0 = Warm start has not been deferred for this job. 1 = Warm start has been deferred for this start
		1		ZJI1ORIG	"B'00000001'" Origin Indicator : 0 = JOBGROUP ZJI origin. 1 = / NET ZJI origin.
89	(59)	BITSTRING	1	ZJIJQEF3	JQEFLAG3 (job type) of associated job. Only valid when a JQE has been registered to this ZJI (ZJIJBNUM is not zero).
		Job completion status :			
90	(5A)	BITSTRING	1	ZJISTAT	Zone Job Identifier status
		....		ZJI_PEND	"X'00'" ZJI Status = PENDING
		1		ZJI_ACTI	"X'01'" ZJI Status = ACTIVE
		.... ..1.		ZJI_COMP	"X'02'" ZJI Status = COMPLETE
		11		ZJI_FLSH	"X'03'" ZJI Status = FLUSHED
		.... .1..		ZJI_INER	"X'04'" ZJI Status = IN_ERROR
		Next in ZJI 'in error' list :			
92	(5C)	SIGNED	4	ZJIERZJI	Ptr/Index of next ZJI that is currently 'in error'. The chain head is field ZODERZJI in the ZOD object.
		Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.			
96	(60)	SIGNED	4	ZJILJNUM	Job number and job key of
100	(64)	BITSTRING	4	ZJILJKEY	associated log job JQE.

Table 613. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					'Concurrent Set Master Job' processing fields : THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI IS THE 'MASTER ZJI' IN A CONCURRENT SET (THAT IS, THE ZJI2JGCM BIT IS SET). o ZJIMCJTS - 'Master Concurrent Job' Timestamp : - Set when WLM tells us that a 'concurrent set' of jobs CANNOT be processed. When this happens the 'master ZJI' will have this timestamp set and the corresponding JQE will reside on the $SETUP queue. In effect, the entire set will 'wait' until the MISC PCE, as part of it's normal processing, makes the decision whether or not to retry. It does this by simply comparing this value to the current time to see if a pre-determined interval has been exceeded. If so, WLM is queried again to see what (if any) member the set can execute on. o ZJIMCMID - 'concurrent set' job execution member. - The member that WLM informed us where all jobs in the 'concurrent set' can execute. A $SJ request was sent to this member and has not yet been serviced. MISC performs recovery processing should this member go down. A ZERO if not assigned yet or no qualified member currently exists. o ZJI2JGCM - 'concurrent set' master job indicator. - If ON, this ZJI is a nformed us where all jobs in the 'concurrent set' can execute. Will be o ZJI2JWLM - Concurrent job was sent to WLM. - If ON, this job associated with this ZJI (which is part of a 'concurrent set'), has a WLM initiator requested (via IWMBREQ), to be selected by job id. o ZJIJSRET - Concurrent Set selection failure return code (ZERO IF NONE). - If set, selection processing rejected the set
					and this return code denotes why. Used by internal processing to generate messages, etc..
104	(68)	DBL WORD	8	ZJIMCJTS	USED AT RUNTIME : Time when the 'master concurrent job' was placed back on $SETUP.
112	(70)	BITSTRING	1	ZJIMCMID	USED AT RUNTIME : WLM-assigned member where the 'concurrent set' can execute. A $SJ has been sent to this member - MISC performs recovery processing.
113	(71)	BITSTRING	1	ZJIFLAG2	Concurrent Set Indicators :
		1...		ZJI2JGCM	"B'10000000'" Concurrent set Master ZJI : 1 = The ZJI is the master ZJI in a concurrent set of jobs (the set is defined by the ZJINXCON chain).
		.1..		ZJI2JWLM	"B'01000000'" Concurrent job sent to WLM: 1 = The associated job was sent to WLM via a IWMBREQ (select by job ID) request.
		..1.		ZJI2JCAN	"B'00100000'" Concurrent job set cancel: 1 = The associated job was scheduled to be cancelled as part of a concurrent set cancel
		...1		ZJI2POST	"B'00010000'" Corresponding job is in post execution
		.... 1...		ZJI2ABND	"B'00001000'" Concurrent job set abend: 1 = The associated job abend represents the set
114	(72)	BITSTRING	1	ZJIJSRET	Saved 'return code' that denotes why this job set cannot execute (ZERO IF NONE). Used by internal processing to generate messages. See routine JDNPCON in HASCJZDN and relevant SCONSE__ codes in $ZJC.

Table 613. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		'Concurrent Set Job' processing fields : THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI IS A JOB IN A CONCURRENT SET (THAT IS, THE ZJINXCON CHAIN IS SET). o ZJISTOK/ZJIWSCN - Service class name and token. - Set when a job in a concurrent set is initially registered. We initially 'force' the service class of ALL jobs in the set to the class of the first job to be registered. As a side effect, we also save the service class/token here in the ZJI.				
115	(73)	BITSTRING	1	ZJISYSID	System ID of where associated concurrent WLM initiators were scheduled via $DCONSET and IWMBREQ.
116	(74)	BITSTRING	1	ZJIFLAG3	More indicators:
		1...		ZJI3TSRV	"B'10000000'" For jobs in concurrent set service class was set by operator
117	(75)	BITSTRING	3		Reserved
120	(78)	CHARACTER	8	ZJIWSCN	Service class Queue Name
		JQXMAXRC value the last time an associated job 'completed'. - NOTES : - Could also be a default MAXRC value if the job was flushed and never ran.			
128	(80)	BITSTRING	4	ZJIMAXRC	MAXRC of associated 'completed' job (or default MAXRC if the job was flushed).
132	(84)	SIGNED	4	ZJIMASZJ	Ptr/Index of Master ZJI if this ZJI contained within a concurrent set.
		This section is only defined when the associated job is involved in a / NET dependency network. NOTE: - These fields are propagated to the ZJI from the JQA that corresponds to this job Field propagation is as folows : o JDNNHOLD --> JQAOHOLD --> ZJICHOLD o JDNRELID --> JQARELID --> ZJIRELID o JDNRELJB --> JQARELJB --> ZJIRELJB o JDNNORMA --> JQANORMA --> ZJINORMA o JDNABNOR --> JQAABNOR --> ZJIABNOR o JDNABCMP --> JQAABCMP --> ZJIABCMP o JDNNRCMP --> JQANRCMP --> ZJINRCMP o JDNPHOLD --> JQAPHOLD --> ZJIPHOLD				
136	(88)	SIGNED	2	ZJICHOLD	Current NHOLD=N value. N = The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card. This is the 'live' value that is decremented as jobs complete (original value is the JQAOHOLD field).
138	(8A)	CHARACTER	8	ZJIRELID	NETID value from : NETREL=(NETID,.....)
146	(92)	CHARACTER	8	ZJIRELJB	JOBNAME value from : NETREL=(.....,JOBNAME)
154	(9A)	BITSTRING	1	ZJINORMA	NORMAL=(D,F or R) (See JDNNORMA in $ZJC)
155	(9B)	BITSTRING	1	ZJIABNOR	ABNORMAL=(D,F or R) (See JDNABNOR in $ZJC)
156	(9C)	BITSTRING	1	ZJIABCMP	ABCMP=(KEEP or NOKP) (See JDNABCMP in $ZJC)
157	(9D)	BITSTRING	1	ZJINRCMP	NRCMP=(HOLD,NOHO or FLSH) (See JDNNRCMP in $ZJC)
158	(9E)	BITSTRING	1	ZJIPHOLD	OPHOLD=(NO or YES) (See JDNPHOLD in $ZJC)

Table 613. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
159	(9F)	BITSTRING	1	ZJIRSVD	Reserved area (length of rest of ZJC object area)
159	(9F)	X'1'	0	ZJIRSVSZ	"*-ZJIRSVD" Size of ZJIRSVD.
159	(9F)	X'A0'	0	ZJISIZE	"*-ZJC" Size of entire Zone Job Identifier (ZJI) object - including ZJC header.

Table 614. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZDB(0)	Zone Dep Block object.

```
Dependency Status. The dependency can have the
following states :
- UNDEFINED - The ZDB has been created but has not
              been fully defined. The WHEN=
              statement cannot be executed until
              the dependency moves to PENDING.
- PENDING - The ZDB is ready to be examined. The
              WHEN= statement can be executed when
              the parent job completes or is
              being flushed.
- COMPLETE - The WHEN= statement has been executed
              and an action has been determined
              for the dependency ( see ZDBDEPEA ).
```

12	(C)	BITSTRING	1	ZDBSTAT	Zone Dep Block status.
		....		ZDB_PEND	"X'00'" ZDB Status = PENDING
		1		ZDB_COMP	"X'01'" ZDB Status = COMPLETE
		.... ..1.		ZDB_UDEF	"X'02'" ZDB Status = UNDEFINED

Table 614. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Dependent Job end action : - ZDBDEPEA is set to SATISFY/FLUSH/FAIL as the result of evaluating WHEN=/ENDACTION=/OTHERWISE= (see ZDBWHENT and description below) : o If ZDBDEPEA = ZDBDSAT (SATISFY) : - The dependency is satisfied. The dependent job can run. o If ZDBDEPEA = ZDBDFLSH (FLUSH) : - The dependent job should be flushed. o If ZDBDEPEA = ZDBDFAIL (FAIL) : - The execution zone (ZOD) error action is taken (see ZODERRA). Note that if ANY of the dependencies under a job evaluate to FAIL, NONE of those jobs are run. o EXAMPLE: A - If dependency A->B, A->C, /|\ or A->D evaluate to FAIL, / | \ jobs B/C/D will not run. B C D If the network (ZOD) error action is STOP/SUSPEND, job A is put IN ERROR. A resubmit of job A can then be done to evaluate the dependencies again. o If ZDBDEPEA = ZDBDDEFR (DEFER) : - The dependent job is NOT run and the dependency stays in a PENDING state. The parent job is put IN_ERROR and the network (ZOD) goes into a SUSPENDED state (ZOD_SUSD) state. In other words, the dependent job is deferred in anticipation of a resubmit of the parent job. However, other dependencies ARE processed and the dependent jobs of those dependencies may run. o EXAMPLE: A - If dependency A->B is /|\ evaluated to DEFER, job B / | \ is not run. B C D However, dependencies A->C and A->D ARE evaluated and may run. Job A is then put IN ERROR and the network (ZOD) is put into a SUSPENDED state. A resubmit of job A can then be done to evaluate any pending dependencies again (i.e. - A->B)
13	(D)	BITSTRING	1	ZDBDEPEA	Dependency complete action.
		....		ZDBDSAT	"X'00'" Complete Action = SATISFY
		1		ZDBDFLSH	"X'01'" Complete Action = FLUSH
		.... ..1.		ZDBDFAIL	"X'02'" Complete Action = FAIL
		11		ZDBDDEFR	"X'03'" Complete Action = DEFER
14	(E)	BITSTRING	2	ZDBRSVD1	Reserved
					Linkage indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.
16	(10)	ADDRESS	8	ZDBNXZDB	Ptr/Index of next ZDB in list of ALL ZDB objects. The chain head is field ZODIZDB in the ZOD object
					Linkage indexes and info for parent job : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.
24	(18)	CHARACTER	8	ZDBPRNAM	Parent job name.

Table 614. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	8	ZDBPRZJI	Ptr/Index of parent Zone Job Identifier (ZJI) for 'job as parent' chain.
40	(28)	ADDRESS	8	ZDBPRNXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as Parent' chain (could be zero).
		Linkage indexes and info for dependent job : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			
48	(30)	CHARACTER	8	ZDBDENAM	Dependent job name.
56	(38)	ADDRESS	8	ZDBDEZJI	Ptr/Index of dependent Zone Job Identifier (ZJI) for 'job as dependent' chain.
64	(40)	ADDRESS	8	ZDBDENXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as dependent' chain (could be zero).
		WHEN= parent end job boolean expression : - Once the dependency is marked complete (that is, the parent job has been run/flushed and ZDBSTAT is set to ZDB_COMP), the WHEN= expression is evaluated with the parent job's return code and/or ABEND code to determine a boolean result. - If boolean result is TRUE, the ENDACTION= action (ZDBENDA) is taken (see below). ZDBDEPEA is set to the ZDBENDA value. - If boolean result is FALSE, the OTHERWISE= action (ZDBOTHA) is taken (see below). ZDBDEPEA is set to the ZDBOTHA value.			
72	(48)	BITSTRING	64	ZDBWHENT	WHEN= text string - Evaluated when the parent job completes.
136	(88)	BITSTRING	1	ZDBWHENL	WHEN= actual size of RPN (Reverse polish notstion) list.
137	(89)	BITSTRING	1	ZDBENDA	ENDACTION= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is SATSIFY
138	(8A)	BITSTRING	1	ZDBOTHA	OTHERWISE= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is FLUSH.
138	(8A)	X'40'	0	ZDBWHMAX	"64" WHEN= RPN list max size.
		Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.			
140	(8C)	SIGNED	4	ZDBLJNUM	Job number and job key of
144	(90)	BITSTRING	4	ZDBLJKEY	associated log job JQE.
		Indicators :			
148	(94)	BITSTRING	1	ZDBFLAG1	ZDB indicators:
		1...		ZDB1DECH	"B'10000000'" HOLD count decrement indicator (only applies to / NET networks) 0 = This dependency has not decremented the dependent job's HOLD count (ZJICHOLD) yet. 1 = This dependency has decremented the dependent job's HOLD count (ZJICHOLD).

Table 614. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
149	(95)	BITSTRING	1	ZDBRSVD	Reserved area (length of rest of ZJC object area)
149	(95)	X'B'	0	ZDBRSVSZ	"*-ZDBRSVD" Size of ZDBRSVD.
149	(95)	X'A0'	0	ZDBSIZE	"*-ZJC" Size of entire Zone Dependency) Block (ZDB) object - including ZJC header.

Table 615. Structure JDBLDWRK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDBLDWRK	, ZOD build work area.
0	(0)	ADDRESS	8	JDWURCON	Ptr to first dependency (ZDB) in the unresolved concurrent dependency list.
8	(8)	ADDRESS	8	JDWURDEP	Ptr to first dependency (ZDB) in the unresolved dependency list.
16	(10)	ADDRESS	8	JDWCIFST	Ptr to first parent/child pair in the circular dependency resolution array.
24	(18)	ADDRESS	8	JDWCILST	Ptr to last parent/child pair in the circular dependency resolution
32	(20)	SIGNED	4	JDWCIRNM	Number of entries in circular dependency resolution array.
36	(24)	BITSTRING	1	JDWFLAG1	Flag bits.
		1...		JDF1JMAX	"B'10000000'" The number of jobs in this ZOD exceeded the defined maximum ($ZODJNUM).
		.1..		JDF1CMAX	"B'01000000'" At least one concurrent set of jobs in this ZOD exceeded the defined maximum ($CONJNUM).
40	(28)	DBL WORD	8	(0)	Force double word alignment
40	(28)	BITSTRING	0	JDWJBSET(0)	Job set array. An array of JDJSETEL elements (see below).
1576	(628)	BITSTRING	0	JDWUNRER(0)	Unresolved dependency error array. An array of JDWERROR elements (see below).
1832	(728)	BITSTRING	0	JDWDUPER(0)	Duplicate dependency error array. An array of JDWERROR elements (see below).
2088	(828)	BITSTRING	0	JDWCIRER(0)	Circular dependency error array. An array of JDWERROR elements (see below).
2344	(928)	SIGNED	8	JDWSAVR1(16)	64 bit GPR save area 1
2472	(9A8)	SIGNED	8	JDWSAVR2(16)	64 bit GPR save area 2
2600	(A28)	DBL WORD	8	(0)	Force double word alignment
2600	(A28)	BITSTRING	392	JDWWHEN	WHEN= work area
2992	(BB0)	DBL WORD	8	(0)	Force double word alignment
2992	(BB0)	BITSTRING	1	JDWNET	/ NET - definition area

Table 615. Structure JDBLDWRK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Max sized backout array of ZJC indexes used when inserting a / NET definition (described by JDWNET and JDNETDEF) and an error occurs. This array is always terminated by an index of ZERO. - One potential ZOD for the NETID (JDNNETID). - One potential ZJI for the parent job (JDNJBNAM). - A potential of one ZJI and one ZDB for each item in the release array (JDNELNUM). - One for a zero 'array terminator' for the worst case scenario when all array entrires are used. o For example, for this JDNETDEF : - JDNNETID = MYNET - JDNJBNAM = JOBA - JDNRELAR = JOBB,JOBC,JOBD The following would potentially be inserted if no objects currently exist : - MYNET(ZOD) : JOBA(ZJI) / |\ \ / | \ (ZDB) | (ZDB) / (ZDB) \ / | \ / | \ JOBB(ZJI) JOBC(ZJI) JOBD(ZJI) And up to 8 objects could be referenced (via index) by JDNBKNET (1 ZOD, 4 ZJIs, 3 ZDBs).
3556	(DE4)	ADDRESS	4	JDNBKZOD	ZOD address to backout from (the elements in JDNBKNET correspond to this ZOD).
3560	(DE8)	SIGNED	4	JDNBKNET(0)	/ NET ZJC backout array.
3972	(F84)	SIGNED	2	JDNBKNEC	Number of used entries in JDNBKNET.
3972	(F84)	X'F86'	0	JDWLEN	"*-JDBLDWRK" Length ZOD build work area.

Table 616. Structure JDJSETEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJSETEL	, Job Set work element
0	(0)	CHARACTER	8	JDJSNAME	Job Set Name
8	(8)	BITSTRING	1	JDJSSTAT	Job Set Status :
		....		JDJS_INT	"X'00'" Job set not created yet.
		1		JDJS_CRE	"X'01'" Job Set is created
		.... ..1.		JDJS_END	"X'02'" Job Set is complete.
9	(9)	BITSTRING	7		Reserved
16	(10)	ADDRESS	8	JDJSZJIP	Pointer to first job (ZJI) in the job list for this Job Set. The ZJIs in this chain use field ZJINJSET.
16	(10)	X'18'	0	JDJSETLN	"*-JDJSETEL" Length of JDJSETEL element.
16	(10)	X'40'	0	JDJSNUME	"64" Number of JDJSETEL elements in JDWJBSET jobset array.

Table 617. Structure JDWERROR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWERROR	, Job Set work element
0	(0)	CHARACTER	8	JDERPARN	Parent job name
8	(8)	CHARACTER	8	JDERDEPN	Dependent job name
8	(8)	X'10'	0	JDWERRLN	"*-JDWERROR" Length of JDWERROR element.

Table 617. Structure JDWERROR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'10'	0	JDERUNRN	"16" Number of JDWERROR elements in JDWUNRER error array.
8	(8)	X'10'	0	JDERDUPN	"16" Number of JDWERROR elements in JDWDUPER error array.
8	(8)	X'10'	0	JDERCIRN	"16" Number of JDWERROR elements in JDWCIRER error array.

Table 618. Structure JDWHENWK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWHENWK	, When work area
		Following ptrs related to WHEN= ERROR= processing. Operation stack and RPN -> Reverse polish notation list. Also addr of last byte in WHEN= ERROR string. Note: in comments WHEN also denotes ERROR.			
0	(0)	ADDRESS	8	JDCURPTR	Ptr to current WHEN=/ERROR= char being processed
8	(8)	ADDRESS	8	JDSTKTOP	Pointer to stack top
16	(10)	ADDRESS	8	JDSTKSTR	Ptr to start of operator stack
24	(18)	ADDRESS	8	JDSTKEND	Ptr to last enrty possible in operator stack
32	(20)	ADDRESS	8	JDRPNFST	Ptr to start of when=/ERROR RPN list being built
40	(28)	ADDRESS	8	JDRPNNXT	Ptr to next byte to populate in RPN list
48	(30)	ADDRESS	8	JDRPLAST	Ptr to last byte in RPN list
56	(38)	ADDRESS	8	JDWHFRST	Ptr to first character in WHEN= or ERROR= string
64	(40)	ADDRESS	8	JDWHLAST	Ptr to last byte in WHEN= or ERROR= string
72	(48)	DBL WORD	8	JDWDBONE	Dword work area 1 PACK etc.
80	(50)	DBL WORD	8	JDWDBTWO	Dword work area 2
88	(58)	BITSTRING	1	JDWHFLG1	Flag 1
		1...		JRONLYOP	"B'10000000'" Since last '(' only operators encountered. Anything - other than an operator will negate this condition. Used to catch (!)!RUN - we must avoid pushing (!) to RPN list prematurely.
89	(59)	BITSTRING	1	JDWHFLG2	Flag 2
		1...		JDW2SECJ	"B'10000000'" Caller supports both SECERR and JCLERR values
90	(5A)	BITSTRING	6		Reserved
96	(60)	BITSTRING	16	JDPARSE	Structure used to parse WHEN= and ERROR=
112	(70)	BITSTRING	16	JDWELEME	Work area used to build RPN list
128	(80)	CHARACTER	64	JDRPNLST	Built RPN list - eventually stored in checkpoint
192	(C0)	SIGNED	4	JDRPNSIZ	Number of bytes in built RPN list
196	(C4)	BITSTRING	1	JLASTPRO	Last processed (Successfully)
196	(C4)	X'1'	0	JLOGICAL	"x'01'" Logical operator
196	(C4)	X'2'	0	JDIGIT	"x'02'" Digit
196	(C4)	X'3'	0	JJCLVAR	"x'03'" JCLVAR

Table 618. Structure JDWHENWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	X'4'	0	JABENCOD	"x'04'" ABENDCC code
196	(C4)	X'5'	0	JLEFTPAR	"x'05'" Left paren
196	(C4)	X'6'	0	JRIGHPAR	"x'06'" Right paren
196	(C4)	X'7'	0	JUNDEFIN	"x'07'" Undefined
197	(C5)	BITSTRING	1	JWHSTK	Operator stack
197	(C5)	X'C0'	0	JWSTKLEN	"(96*JOSTELLN)" Stack length
389	(185)	BITSTRING	1	JWORKSTK	Work stack entry
389	(185)	X'187'	0	JDWHLEN	"*-JDWHENWK" Length of WHEN=/ERROR= work area

Table 619. Structure JDNETDEF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNETDEF	
		This structure communicates to maintask / NET specifics for a job. At input processing time there can be at most one / NET per job. It is assumed that the / NET STMT has been verified to be syntaxially correct.			
0	(0)	CHARACTER	8	JDNJBNAM	Name of job on associated job card
8	(8)	CHARACTER	8	JDNNETID	NETID= This becomes logging job name
16	(10)	BITSTRING	0	JDNRELAR(0)	Release= job name array. Jobs in network that run after the job on assoc job card runs.
		Following two lines define NETREL=(netid,jobname) Job in another network that can run after the job on associated job card runs. One NETREL allowed per / NET statement - I think!!			
416	(1A0)	CHARACTER	8	JDNRELID	NETREL=(netid,
424	(1A8)	CHARACTER	8	JDNRELJB	NETREL=(,jobname)
432	(1B0)	ADDRESS	4	JDNRLJQA	NETREL=(netid logging job - update or read mode JQA
436	(1B4)	SIGNED	2	JDNNHOLD	NHOLD=N - The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card.
		NORMAL=(D or F or R) - Indicates action to take for this job (specified on Job Card) when any predecessor job completes execution normally. Normal is defined as (RUN & !ABEND). If NORMAL not specified then default is D.			
438	(1B6)	BITSTRING	1	JDNNORMA	NORMAL=(D or F or R)
		....		JDNNODEC	"X'00'" NORMAL=D - Decrease this job's hold count
		1		JDNNOFLU	"X'01'" NORMAL=F - Flush this job and its successor jobs from the system
		.... ..1.		JDNNORET	"X'02'" NORMAL=R - Retain this job in the system and do NOT decreae NHOLD count.
		ABNORMAL=(D or F or R) - Indicates action to take for this job (specified on Job Card) when any predecessor job completes execution abnormally. Abnormal is defined as !(RUN & !ABEND). If ABNORMAL is not specified then defeult is D.			

Table 619. Structure JDNETDEF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
439	(1B7)	BITSTRING	1	JDNABNOR	ABNORMAL=(D or F or R)
		....		JDNABDEC	"X'00'" ABNORMAL=D - Decrease this job's hold count
		1		JDNABFLU	"X'01'" ABNORMAL=F - Flush this job and its successor jobs from the system
		.... ..1.		JDNABRET	"X'02'" ABNORMAL=R - Retain this job in the system and do not decrease NHOLD count.
	ABCMP=(KEEP or NOKP) - Indicates action to if job specified on the job card abnormally terminates. Abnormally terminate is defined as !(RUN & !ABEND). NOKP is the default.				
440	(1B8)	BITSTRING	1	JDNABCMP	ABCMP
		....		JDNOKEEP	"X'00'" ABCMP=NOKP - Purge the network
		1		JDNAKEEP	"X'01'" ABCMP=KEEP - Indicates that the network is to be kept in the system until the job (on job card) is resubmitted and completes normally OR the operator forces the network from the system.
	NRCMP=(HOLD or NOHO or FLSH) - Indicates that that network job that completed normally is being resubmitted and all references must be erase before job reenters the network.				
441	(1B9)	BITSTRING	1	JDNNRCMP	NRCMP
		....		JDNHOLD	"X'00'" NRCMP=HOLD
		1		JDNNOHO	"X'01'" NRCMP=NOHO
		.... ..1.		JDNFLSH	"X'02'" NRCMP=FLSH
	OPHOLD=(NO or YES)				
442	(1BA)	BITSTRING	1	JDNPHOLD	OPHOLD
		....		JDNOPNO	"X'00'" OPHOLD=NO
		1		JDNOPYES	"X'01'" OPHOLD=YES
444	(1BC)	SIGNED	4	(0)	Force word alignment
444	(1BC)	ADDRESS	4	JDNLGJQE	Logging job JQE
448	(1C0)	SIGNED	4	JDNZJCIX	Index of associated groups ZJC -> ZOD
	Other information needed by JQANETGR to create a / NET logging job. These values are obtained from the job card associated with tne / NET STMT.				
452	(1C4)	BITSTRING	80	JDNTOKA	Security token for job on associated job card
532	(214)	CHARACTER	10	JDNDEVN	Device name assocaited with job on job card
542	(21E)	BITSTRING	1	JDNDEVTP	Device type
543	(21F)	BITSTRING	3	JDNDEVID	Device ID
	Next 16 bytes is a work area for subroutine JQANETGR				
546	(222)	CHARACTER	16	JDNJQWRK	JQANETGR work area

Table 619. Structure JDNETDEF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
546	(222)	BITSTRING	1	JDNJQANE	JQANETGR flag bits
		1...		JDNCRNET	"B'10000000'" This JQANETGR invocation has created NETID logging job
		.1..		JDNCRREL	"B'01000000'" This JQANETGR invocation has created RELID logging job
548	(224)	ADDRESS	4	JDNETZOD	Created NETID ZOD address
552	(228)	ADDRESS	4	JDRELZOD	Created RELID ZOD address
556	(22C)	BITSTRING	7		Reserved
556	(22C)	X'233'	0	JDNETLEN	"*-JDNETDEF" Length of / NET area
		1...		HOLDPLUS	"B'10000000'" Equates used by SCAN to
		.1..		HOLDMINU	"B'01000000'" increment/decrement and
		..1.		HOLDZERO	"B'00100000'" ZERO NHOLD value
556	(22C)	X'63'	0	HOLDOVER	"99" Largest NHOLD number displayable on $DG,JOBS panel
556	(22C)	X'FFFFF7'	0	HOLDNEGA	"-9" Smallest NHOLD number displayable on $DG,JOBS panel

Table 620. Structure JDNELELM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNELELM	, Array element definition
0	(0)	CHARACTER	8	JDNELJOB	Name of job to release
0	(0)	X'8'	0	JDNELLEN	"*-JDNELELM" Length of array element
0	(0)	X'32'	0	JDNELNUM	"50" Number of elements in release= array
	WLM constants				
0	(0)	X'1E'	0	JDWLMTIM	"30" Number of seconds concurrent-set sits on SETUP queue before being re-evaluated from a WLM perspective.

Table 621. Structure JPARSEST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPARSEST	, Parsing structure
0	(0)	CHARACTER	8	JDJCLVAR	BDY(DWORD) JCLVAR parse buffer
8	(8)	BITSTRING	1	JDWCUTYP	JCLVAR type
8	(8)	X'0'	0	JDNOJCLV	"x'00'" No JCLVAR active
8	(8)	X'4'	0	JCRC	"x'04'" RC
8	(8)	X'8'	0	JCRUN	"x'08'" RUN
8	(8)	X'C'	0	JCABENCC	"x'0C'" ABENDCC
8	(8)	X'10'	0	JCABEND	"x'10'" ABEND
		.1.1 .1..		JCJCLERR	"X'54'" JCLERR JCLVAR (JCL error)
		.1.1 1...		JCSECERR	"X'58'" SECERR JCLVAR (Security error)
9	(9)	BITSTRING	1	JDWOPRTY	Operator last encountered See equates below - range NOTOPER to OROPER
		....		JDWNOOPR	"X'00'" No operator active
10	(A)	BITSTRING	1	JDVARSTS	JCLVAR status

Table 621. Structure JPARSEST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	X'0'	0	JDNOCOMP	"x'00'" JCLVAR not complete
10	(A)	X'1'	0	JDVCOMPL	"x'01'" JCLVAR is valid and complete
11	(B)	CHARACTER	3	JDWOPER	Operator parse buffer
14	(E)	BITSTRING	2		QWORD alignment
14	(E)	X'10'	0	JPARSLNG	"*-JDJCLVAR" Parse structure length

Table 622. Structure JDPERTSK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPERTSK	, Operation stack element
0	(0)	BITSTRING	1	JDPTYPE	Operation type - see above
1	(1)	BITSTRING	1	JOPPREC	Operator precedence
1	(1)	X'2'	0	JOSTELLN	"*-JDPERTSK" Length of stack element

Table 623. Structure JRPNELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRPNELEM	, RPN list element
0	(0)	BITSTRING	1	JDELEMID	RPN element identifier
		.... .1..		JDWRC	"X'04'" RC JCLVAR
		.... 1...		JDWRUN	"X'08'" RUN JCLVAR
		.... 11..		JDABENCC	"X'0C'" ABENDCC JCLVAR
		...1		JDWABEND	"X'10'" ABEND JCLVAR
		...1 .1..		JDSYSID	"X'14'" Sys abend code for ABENDCC
		...1 1...		JDUSRID	"X'18'" USER abend code - ABENDCC
		...1 11..		JDNUMID	"X'1C'" Integer for RC
		..1.		NOTOPER	"X'20'" ¬
		..1. .1..		GTOPER	"X'24'" >
		..1. 1...		LTOPER	"X'28'" <
		..1. 11..		NGTOPER	"X'2C'" ¬>
		..11		NLTOPER	"X'30'" ¬<
		..11 .1..		EQOPER	"X'34'" =
		..11 1...		NEQOPER	"X'38'" ¬=
		..11 11..		GTEOPER	"X'3C'" >=
		.1..		LTEOPER	"X'40'" <=
		.1.. .1..		ANDOPER	"X'44'" & and
		.1.. 1...		OROPER	"X'48'" | or
		.1.. 11..		LEFTPAR	"X'4C'" Left paren - not in RPN list - but could be in operation stack when building RPN. Also used for RPN -> INFIX notation
		.1.1		RIGHPAR	"X'50'" Right paren - not in RPN. Used for RPN -> INFIX notation.
		.1.1 .1..		JDWAJCLE	"X'54'" JCLERR JCLVAR (JCL error)
		.1.1 1...		JDWASECE	"X'58'" SECERR JCLVAR (Security error)
		....		HEXZERO	"X'00'" Used only for processing INFIX stack elements
		.111		JENDMARK	"X'70'" End of list marker

Table 623. Structure JRPNELEM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	JENDLLEN	"*-JDELEMID" Length of end list elem
0	(0)	X'1'	0	JDJCLLEN	"*-JDELEMID" Lengh of JCLVAR element
0	(0)	X'1'	0	JOPELLEN	"*-JDELEMID" Length of operator list element
1	(1)	BITSTRING	2	JADDINFO	Addtional data for element IDs - JDSYSID, JDUSRID and JDNUMID
1	(1)	BITSTRING	1	JDSYSCOD	Actual system abend code
1	(1)	X'3'	0	JDSYSLEN	"*-JDELEMID" Length of system abend elem
1	(1)	BITSTRING	1	JDUSRCOD	User abend code
1	(1)	X'3'	0	JDUSRLEN	"*-JDELEMID" Length of user abend elem
1	(1)	BITSTRING	1	JDNUMVAL	Integer for RC=
1	(1)	X'3'	0	JDNUMLEN	"*-JDELEMID" Length of integer elem
1	(1)	X'4'	0	JXMAXRL	"4" Maximun number of digits for RC= integer

Table 624. Structure JRMAXRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRMAXRC	, MAXRC dsect
0	(0)	BITSTRING	4	JDMAXRC(0)	Maximum Job Return Code
0	(0)	BITSTRING	1	JDMXIND	Job completion indicator
1	(1)	BITSTRING	3	JDMAXCC	Completion code
1	(1)	X'4'	0	JDMAXLN	"*-JRMAXRC" Length of MAXRC
		Character type returned via TRT in support of WHEN= and ERROR=. See WHENTRAN translate table in HASCJZDN.			
1	(1)	X'0'	0	INVALID	"0" Invalid character
1	(1)	X'1'	0	DIGIT	"1" 0-9
1	(1)	X'2'	0	LETTER	"2" Upper case alphabetic character: A .. Z
1	(1)	X'3'	0	OPERATOR	"3" Operator character: ¬, <, >, =, &, |
1	(1)	X'4'	0	LFTPA	"4" Left paren
1	(1)	X'5'	0	RGHPA	"5" Right paren

Table 625. Structure JDINWRKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINWRKA	, INFIX work area
0	(0)	ADDRESS	8	JDINBUF@	Ptr to caller buffer
8	(8)	ADDRESS	8	JDISKSTR	Ptr to start of stack
16	(10)	ADDRESS	8	JDISTEND	Addr of last possible elem
24	(18)	ADDRESS	8	JDISTFND	Addr of last stack element found
32	(20)	ADDRESS	8	JDISTTOP	Ptr to stack top
40	(28)	ADDRESS	8	JDPOPELM	Ptr to POP'ed stack element
48	(30)	ADDRESS	8	JDPUSHEL	Ptr to element to push
56	(38)	ADDRESS	8	JDELEME@	Input element - ELEPREND

Table 625. Structure JDINWRKA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	DBL WORD	8	JRWRDWRD	Double word - work area #1
72	(48)	BITSTRING	16	JRWORK16	Double word - work area #2
88	(58)	CHARACTER	128	JDWKENT1	Work stack entry #1
216	(D8)	CHARACTER	128	JDWKENT2	Work stack entry #2
344	(158)	SIGNED	4	JDLOWPRE	Lowest operator precedence found in supplied stack element. (1,2,3) with 3 the highest
348	(15C)	SIGNED	4	JDELMBYT	Number of bytes (of tokens) within element passed to subroutine ELEPREND
352	(160)	SIGNED	4	JDEL1LEN	Length of element #1
356	(164)	SIGNED	4	JDEL2LEN	Length of element #2
360	(168)	BITSTRING	1	JDNFLAG1	Flag1
		1...		JDPAREN	"B'10000000'" Parenthesis is required
		.1..		JDFNDAND	"B'01000000'" Routi ELEPREND found AND(&)
		..1.		JDFNDOR	"B'00100000'" Routi ELEPREND found OR(|)
361	(169)	BITSTRING	1	JDINSTK	INFIX stack
361	(169)	X'3000'	0	JDSTLEN	"(96*JDSTELLN)"
361	(169)	X'80'	0	JDELMLEN	"128" Length of stack element
361	(169)	X'3169'	0	JDIWRLEN	"*-JDINWRKA" INFIX work area length

Table 626. Structure JDINSTKE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINSTKE	, INFIX stack element defined
0	(0)	CHARACTER	1	JDINENT	Actual element
0	(0)	X'80'	0	JDSTELLN	"*-JDINSTKE" Length of stack element

Table 627. Structure JDCIRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCIRENT	, Circular dependency array element
0	(0)	CHARACTER	8	JDCIRPAR	Parent JOB name
8	(8)	CHARACTER	8	JDCIRDEP	Dependent JOB name
0	(0)	CHARACTER	16	JDCIRZAP	to allow zapping both
16	(10)	BITSTRING	1	JDCFLAG1	Circular FLAG1
		1...		JDCNOMSG	"B'10000000'" This dependency - even though left in circular dependency array - must not generate a message.
16	(10)	X'11'	0	JDCIRLEN	"*-JDCIRENT" Bytes in array entry
16	(10)	X'1388'	0	JDCARRYN	"5000" Number of initial elements within circular dependency detection array
16	(10)	X'14C08'	0	JDARRYLN	"(JDCARRYN*JDCIRLEN)" Number of bytes within initial circular depend detection array

Table 628. Structure JDPCDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPCDATA	, Affinity - WLM job tokens
0	(0)	BITSTRING	4	JDPCCAFF	Composite affinity mask for ALL jobs in the concurrent set. If ZERO, no members exist that can run ALL of the jobs.
4	(4)	SIGNED	4	JDPCRTCD	RETURN CODE : If non-zero, denotes why this job set cannot execute. See routine JDNPCON in HASCJZDN, and relevant SCONSE__ codes in $ZJC.
8	(8)	SIGNED	4	JDPCJBTK	Total number of WLM job tokens (JDPCWLMT) in the token array (starting at JDPCTOKA).
12	(C)	SIGNED	4	JDPCTLEN	Total size of the structure (for $FREMAIN).
16	(10)	SIGNED	4	JDPCCURT	SHOULD NOT BE USED. The current number of WLM job tokens. Used while building this structure.
20	(14)	SIGNED	2	JDPCTOKA(0)	Start of the 'WLM job token' (JDPCWLMT) array. There are JDPCJBTK elements in the array.
20	(14)	X'14'	0	JDPCFLEN	"*-JDPCDATA" Length of fixed portion of structure (what follows is the JDPCTOKA 'WLM job token' array).

Table 629. Structure JDPCWLMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPCWLMT	, WLM job token
0	(0)	SIGNED	4	JDPCJNUM	JQE Job Number (JQEJBNUM)
4	(4)	BITSTRING	4	JDPCJKEY	JQE Job ID (JQEJBKEY)
4	(4)	X'8'	0	JDPCWLEN	"*-JDPCWLMT" Length of WLM job token

Table 630. Structure MZODHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODHDR	, MZOD header data
0	(0)	CHARACTER	4	MZDEYEC	Eyecatcher for MZOD
4	(4)	CHARACTER	8	MZDZODNM	Job group name
12	(C)	CHARACTER	11	MZDZODST(0)	Job group status fields
12	(C)	BITSTRING	1	MZDSTAT	Job group status
13	(D)	BITSTRING	1	MZDFLAG1	MZOD Flag byte
		1...		MZD1MAXO	"B'10000000'" MZOD storage full cond
		.1..		MZD1ERIN	"B'01000000'" ERROR= is INFIX format
		..1.		MZD1RDJC	"B'00100000'" Job Group is DJC type
14	(E)	BITSTRING	1		Reserved
15	(F)	CHARACTER	8	MZDSTABN	STABNAME from scantab entry requesting MZOD data
23	(17)	BITSTRING	1	MZDZODOE	Job group ONERROR ind
24	(18)	BITSTRING	0	MZDERREX(0)	ERROR= expression text - Evaluated when one of the jobs in the network is in error.
24	(18)	SIGNED	4	MZDERRLN	ERROR= buffer length
28	(1C)	BITSTRING	0	MZDERRBF(0)	ERROR= buffer

Table 630. Structure MZODHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	MZDERRBA	ERROR= address of INFIX notation storage
32	(20)	ADDRESS	4	MZDIFCHN	Address of INFIX notation storage block chain
36	(24)	ADDRESS	4	MZDSCWA	Address of SCWA, if any
	Parameter list for DISGETIF routine				
40	(28)	BITSTRING	16	MZDIFPAR(0)	PRINT_RPN parameter list
40	(28)	ADDRESS	4	MZDIFRPN	Address of input RPN
44	(2C)	SIGNED	4	MZDIFRPL	Length of input RPN
48	(30)	ADDRESS	4	MZDIFBUF	Address of output INFIX notation buffer
52	(34)	SIGNED	4	MZDIFBFL	Length of output INFIX notation buffer
56	(38)	BITSTRING	1		Reserved for ERROR=
	50 characters is the max size hex conv SCAN can do				
72	(48)	SIGNED	4	MZDERREL	ERROR= text actual size in MZDERREX.
76	(4C)	BITSTRING	4		Reserved
80	(50)	SIGNED	2	MZDZODEN(0)	Start of job info entries
80	(50)	X'50'	0	MZODHDRL	"*-MZODHDR" Length of MZOD header data

Table 631. Structure MZODJOB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODJOB	, MZOD network job data
0	(0)	BITSTRING	1	MZDJOBTY	Job info record type
		1...		MZODJOBN	"B'10000000'" Network job record type
		.1..		MZODJOBC	"B'01000000'" Concurrent job record typ
		..1.		MZODJOBP	"B'00100000'" Parent job record type
		...1		MZODJOBE	"B'00010000'" Dependent job record type through job entries
		.... 1...		MZODJOBD	"B'00001000'" Dependent job record type through dependency ent
		.... .1..		MZODJOBI	"B'00000100'" Job in error record type
		.... ..1.		MZODDJC	"B'00000010'" Job associated with DJC
		1		MZODOVER	"B'00000001'" Jobs NHOLD value will overflow $DG,JOBS HC field
		....		MZODDUPE	"B'00000000'" Duplicate entry - no dsp
1	(1)	BITSTRING	1	MZDENDAC	End action
2	(2)	BITSTRING	1	MZDOTHWS	Otherwise action
3	(3)	BITSTRING	1	MZDWHNLN	WHEN= text length
4	(4)	CHARACTER	8	MZDJOBNM	Network job name
12	(C)	CHARACTER	8	MZDJOBID	Network job ID (or NONE)
20	(14)	CHARACTER	8	MZDJOBST(0)	Network job status
20	(14)	BITSTRING	1	MZDJBST1	Status Indicator Flag 1

Table 631. Structure MZODJOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		MZDJBNRG	"B'10000000'" Job not registered yet
		.1..		MZDJBACT	"B'01000000'" ACTIVE, executing
		..1.		MZDJBRDY	"B'00100000'" QUEUED, ready to run
		...1		MZDJBNEL	"B'00010000'" NOT ELIG to run
		.... 1...		MZDJBDEP	"B'00001000'" PEND DEP on other jobs
		.... .1..		MZDJBHLD	"B'00000100'" HELD in some manner
		.... ..1.		MZDJBDLY	"B'00000010'" DELAYED in some manner
		1		MZDJBPRG	"B'00000001'" PURGED, job was purged
21	(15)	BITSTRING	1	MZDJBST2	Status Indicator Flag 2
		1...		MZDJBJQE	"B'10000000'" No JQE found
22	(16)	BITSTRING	1	MZDJBQUE	Job's JQETYPE
23	(17)	BITSTRING	1	MZDJBFG1	Job's Flag 1
24	(18)	BITSTRING	1	MZDJBSTC	Job's Completion Status (ZJISTAT) or Dependent Job Action (ZDBDEPEA)
25	(19)	BITSTRING	1	MZDJBSTD	Job's Dependency Status
26	(1A)	BITSTRING	1	MZDENTF1	MZOD Entry Flag 1
		1...		MZD1WHIN	"B'10000000'" WHEN= is INFIX format
27	(1B)	BITSTRING	1	MZDJBSTR	Reserved
28	(1C)	BITSTRING	1	MZDNHOLD	NHOLD value if job is part of DJC and value does not overflow DG,jobs display field.
29	(1D)	BITSTRING	1		Reserved.
30	(1E)	SIGNED	2	MZDAHOLD	Actual current NHOLD value (used for DG,JOBF)
32	(20)	CHARACTER	8	MZDJOBAN	Associated job name. Can be Concurrent job name, or Child job name, or Parent job name, or Job set name, depending on record type
40	(28)	ADDRESS	4	MZDALIGN(0)	Force minimal alignment.
40	(28)	BITSTRING	0	MZDWHNEX(0)	WHEN= expression text - Evaluated when the parent job completes.
40	(28)	SIGNED	4	MZDWHNLE	WHEN= buffer length
44	(2C)	ADDRESS	4	MZDWHNBA	WHEN= address of INFIX notation storage
40	(28)	BITSTRING	4	MZDMAXRC	MAXRC value
44	(2C)	BITSTRING	4		Reserved
44	(2C)	X'30'	0	MZODJOBL	"*-MZODJOB" Length of MZOD network job data
44	(2C)	X'552'	0	MZODJOBM	"((((65535-8-8)-MZODHDRL)/ MZODJOBL)-1)" Maximum number of MZOD entries. x'FFFF'-8 for temp cb hdr minus 8 more for rounding minus MZOD header divided by MZOD entry len minus 1 entry fudge
44	(2C)	X'FFB0'	0	MZODFULL	"MZODHDRL+(MZODJOBL*MZODJOBM)" Size of full MZOD
44	(2C)	X'FFF7'	0	MZODSIZE	"(65535-8)" Size of temp CB allocated by SCAN

Table 632. Structure MZDERROR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDERROR	, MZOD ERROR entry

Table 632. Structure MZDERROR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	MZDERRTX	ERROR= expression text - Evaluated when one of the jobs in the network is in error.

Table 633. Structure MZDWHEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDWHEN	, MZOD WHEN entry
0	(0)	BITSTRING	1	MZDWHNTX	WHEN= expression text - Evaluated when one of the jobs in the network is in error.

Table 634. Structure MZDINFIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDINFIX	, MZOD INFIX storage block
0	(0)	CHARACTER	4	MZDINEYE	Eyecatcher for MZOD INFIX
4	(4)	SIGNED	4	MZDINLEN	Size of MZIF block
8	(8)	ADDRESS	4	MZDINNXT	Address of next MZIF block
12	(C)	ADDRESS	4	MZDINOFF	Offset in this MZIF to free storage
16	(10)	SIGNED	4	MZDINREM	Size of remaining free storage in this MZIF blk
20	(14)	BITSTRING	12		Reserved
20	(14)	X'20'	0	MZDINHLN	"*-MZDINFIX" Length of MZIF header data
32	(20)	SIGNED	4	MZDINDTA(0)	Start of INFIX notation data

Table 635. Structure CONC1201

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CONC1201	, HASP1201 parms
0	(0)	CHARACTER	8	CONCNAM	Job name associated with concurrent set
8	(8)	CHARACTER	8	CONCGRP	Associated job group
16	(10)	BITSTRING	1	CONTYPE	Message type to cut
		1...		CONEXEC	"B'10000000'" Concurrent set queued for execution
		.1..		CONDELAY	"B'01000000'" Concurrent set delayed for user correctable reason
		..1.		CONERROR	"B'00100000'" Concurrent set delayed due to APARable situation
17	(11)	BITSTRING	1	CONREASO	Reason for delay
17	(11)	X'12'	0	CONLENGT	"*-CONC1201" Length of CONC1201
		Return codes for selection/non-selection of a a concurrent set of jobs for execution. See routine $DCONSET in HASPXEQ. For any ID marked INTERNAL ERROR - a DISTERR has been cut and the corresponsing message will denote internal error.			
17	(11)	X'0'	0	SCONSE00	"0" Success no wait
17	(11)	X'1'	0	SCONSE01	"1" WITH= selection failed for a job in the set
17	(11)	X'2'	0	SCONSE02	"2" INTERNAL ERROR: Input master JQA is not valid

Table 635. Structure CONC1201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'3'	0	SCONSE03	"3" All jobs not within same service class
17	(11)	X'4'	0	SCONSE04	"4" INTERNAL ERROR: Job key of ZJI in set does not match corresponding JQA
17	(11)	X'5'	0	SCONSE05	"5" INTERNAL ERROR: JQA or CAT could not be created for a job in the set
17	(11)	X'6'	0	SCONSE06	"6" INTERNAL ERROR: Job within set is not a batch job
17	(11)	X'7'	0	SCONSE07	"7" INTERNAL ERROR: Job within set is held for ARM
17	(11)	X'8'	0	SCONSE08	"8" Job in set is held
17	(11)	X'9'	0	SCONSE09	"9" Job within set is marked BUSY
17	(11)	X'A'	0	SCONSE10	"10" INTERNAL ERROR: Non-master job in the set not on the $SETUP queue
17	(11)	X'B'	0	SCONSE11	"11" No active members available to select
17	(11)	X'C'	0	SCONSE12	"12" A job in the set is marked as 'not eligible to be selected' (the job group is most likely 'stopped').
17	(11)	X'D'	0	SCONSE13	"13" Reserved for future use.
17	(11)	X'E'	0	SCONSE14	"14" Reserved for future use.
17	(11)	X'F'	0	SCONSE15	"15" Set cannot run due to job affinity (JQESAF)
17	(11)	X'10'	0	SCONSE16	"16" Set cannot run due to SECLABEL affinity (JQASCLAF)
17	(11)	X'11'	0	SCONSE17	"17" Set cannot run due to scheduling environ affinity (JQASCHAF)
17	(11)	X'12'	0	SCONSE18	"18" Set cannot run due to spools used mask (JQASUMSK)
17	(11)	X'13'	0	SCONSE19	"19" One of the jobs is locked
17	(11)	X'14'	0	SCONSE20	"20" No members available to select work based on associated job class member affinity
17	(11)	X'15'	0	SCONSE21	"21" No members available to select work based on associated job class MAX job limits
17	(11)	X'16'	0	SCONSE22	"22" Reserved for future use.
17	(11)	X'17'	0	SCONSE23	"23" INTERNAL ERROR: Input Master does not have a ZJI index
17	(11)	X'18'	0	SCONSE24	"24" Member(s) not selectable due to $P or non-boss status
17	(11)	X'19'	0	SCONSE25	"25" INTERNAL ERROR: Could not obtain a WSC
17	(11)	X'1A'	0	SCONSE26	"26" Minimum BCP level not avail
17	(11)	X'1B'	0	SCONSE27	"27" INTERNAL ERROR: IWMBLOC parameter error
17	(11)	X'1C'	0	SCONSE28	"28" INTERNAL ERROR: IWMBLOC environmental error
17	(11)	X'1D'	0	SCONSE29	"29" INTERNAL ERROR: IWMBLOC unexpected WLM response
17	(11)	X'1E'	0	SCONSE30	"30" No capacity to run at this time
17	(11)	X'1F'	0	SCONSE31	"31" INTERNAL ERROR: IWMBREQ parameter error
17	(11)	X'20'	0	SCONSE32	"32" INTERNAL ERROR: IWMBREQ unexpected WLM response

Table 635. Structure CONC1201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'21'	0	SCONSE33	"33" A ZJI in the set is not ACTIVE (it is FLUSHED or IN_ERROR).
17	(11)	X'22'	0	SCONSE34	"34" Initiators all ready started - NOOP $DCONSET - no HASP1201 message
17	(11)	X'23'	0	SCONSE35	"35" INTERNAL ERROR: bad return code from PROCESS_CONCUR_JOBS
17	(11)	X'24'	0	SCONSE36	"36" No BOSS member up to handle concurrent set
17	(11)	X'25'	0	SCONSE37	"37" $DCONSET request sent to another member
17	(11)	X'26'	0	SCONSE38	"38" All jobs in set are independent mode but no independent members available.
17	(11)	X'27'	0	SCONSE39	"39" Set contains jobs running independent and non- independent mode.
17	(11)	X'28'	0	SCONSE40	"40" All jobs in set are non-independent mode but no non-independent members available
17	(11)	X'48'	0	SCONSE72	"72" $DCONSET request sent to another member

Table 636. Structure GRP1210

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GRP1210	, HASP1210 parms
0	(0)	CHARACTER	8	GRPGROUP	Associated job group name
8	(8)	ADDRESS	4	GRPJQE@	Address of a JQE related to job group. May be logging job.
12	(C)	BITSTRING	1	GRPREASO	Reason for error
12	(C)	X'D'	0	GRPLENGT	"*-GRP1210" Length of GRP1210

Table 637. Structure ZJCCNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJCCNT	, ZJC count array
0	(0)	CHARACTER	8	ZJCCNM1	ZJC type 1 (free)
8	(8)	SIGNED	4	ZJCCNR1	Number of ZJCs of this type
8	(8)	X'C'	0	ZJCCLEN	"*-ZJCCNT" Size of one entry
12	(C)	CHARACTER	8	ZJCCNM2	ZJC type 2 (ZOD)
20	(14)	SIGNED	4	ZJCCNR2	Number of ZJCs of this type
24	(18)	CHARACTER	8	ZJCCNM3	ZJC type 3 (ZJI)
32	(20)	SIGNED	4	ZJCCNR3	Number of ZJCs of this type
36	(24)	CHARACTER	8	ZJCCNM4	ZJC type 4 (ZDB)
44	(2C)	SIGNED	4	ZJCCNR4	Number of ZJCs of this type
48	(30)	CHARACTER	8	ZJCCNM5	ZJC type 5 (invalid)
56	(38)	SIGNED	4	ZJCCNR5	Number of ZJCs of this type
56	(38)	X'3C'	0	ZJCCARSZ	"*-ZJCCNT" Size of a full array

Table 638. Cross Reference for $ZJC

Name	Offset	Hex Tag
$ZJCOBJM	9	94

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ANDOPER	0	44
CONCGRP	8	
CONCNAM	0	
CONC1201	0	
CONDELAY	10	40
CONERROR	10	20
CONEXEC	10	80
CONLENGT	11	12
CONREASO	11	
CONTYPE	10	
DIGIT	1	1
EQOPER	0	34
GRPGROUP	0	
GRPJQE@	8	
GRPLENGT	C	D
GRPREASO	C	
GRP1210	0	
GTEOPER	0	3C
GTOPER	0	24
HEXZERO	0	0
HOLDMINU	22C	40
HOLDNEGA	22C	FFFFF7
HOLDOVER	22C	63
HOLDPLUS	22C	80
HOLDZERO	22C	20
INVALID	1	0
JABENCOD	C4	4
JADDINFO	1	
JCABENCC	8	C
JCABEND	8	10
JCJCLERR	8	54
JCRC	8	4
JCRUN	8	8
JCSECERR	8	58
JDABENCC	0	C
JDARRYLN	10	14C08
JDBLDWRK	0	
JDCARRYN	10	1388
JDCFLAG1	10	
JDCIRDEP	8	
JDCIRENT	0	
JDCIRLEN	10	11
JDCIRPAR	0	
JDCIRZAP	0	
JDCNOMSG	10	80
JDCURPTR	0	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDELEME@	38	
JDELEMID	0	
JDELMBYT	15C	
JDELMLEN	169	80
JDEL1LEN	160	
JDEL2LEN	164	
JDERCIRN	8	10
JDERDEPN	8	
JDERDUPN	8	10
JDERPARN	0	
JDERUNRN	8	10
JDFNDAND	168	40
JDFNDOR	168	20
JDF1CMAX	24	40
JDF1JMAX	24	80
JDIGIT	C4	2
JDINBUF@	0	
JDINENT	0	
JDINSTK	169	
JDINSTKE	0	
JDINWRKA	0	
JDISKSTR	8	
JDISTEND	10	
JDISTFND	18	
JDISTTOP	20	
JDIWRLEN	169	3169
JDJCLLEN	0	1
JDJCLVAR	0	
JDJS_CRE	8	1
JDJS_END	8	2
JDJS_INT	8	0
JDJSETEL	0	
JDJSETLN	10	18
JDJSNAME	0	
JDJSNUME	10	40
JDJSSTAT	8	
JDJSZJIP	10	
JDLOWPRE	158	
JDMAXCC	1	
JDMAXLN	1	4
JDMAXRC	0	
JDMXIND	0	
JDNABCMP	1B8	
JDNABDEC	1B7	0
JDNABFLU	1B7	1
JDNABNOR	1B7	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDNABRET	1B7	2
JDNAKEEP	1B8	1
JDNBKNEC	F84	
JDNBKNET	DE8	
JDNBKZOD	DE4	
JDNCRNET	222	80
JDNCRREL	222	40
JDNDEVID	21F	
JDNDEVN	214	
JDNDEVTP	21E	
JDNELELM	0	
JDNELJOB	0	
JDNELLEN	0	8
JDNELNUM	0	32
JDNETDEF	0	
JDNETLEN	22C	233
JDNETZOD	224	
JDNFLAG1	168	
JDNFLSH	1B9	2
JDNHOLD	1B9	0
JDNJBNAM	0	
JDNJQANE	222	
JDNJQWRK	222	
JDNLGJQE	1BC	
JDNNETID	8	
JDNNHOLD	1B4	
JDNNODEC	1B6	0
JDNNOFLU	1B6	1
JDNNOHO	1B9	1
JDNNORET	1B6	2
JDNNORMA	1B6	
JDNNRCMP	1B9	
JDNOCOMP	A	0
JDNOJCLV	8	0
JDNOKEEP	1B8	0
JDNOPNO	1BA	0
JDNOPYES	1BA	1
JDNPHOLD	1BA	
JDNRELAR	10	
JDNRELID	1A0	
JDNRELJB	1A8	
JDNRLJQA	1B0	
JDNTOKA	1C4	
JDNUMID	0	1C
JDNUMLEN	1	3
JDNUMVAL	1	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDNZJCIX	1C0	
JDPAREN	168	80
JDPARSE	60	
JDPCCAFF	0	
JDPCCURT	10	
JDPCDATA	0	
JDPCFLEN	14	14
JDPCJBTK	8	
JDPCJKEY	4	
JDPCJNUM	0	
JDPCRTCD	4	
JDPCTLEN	C	
JDPCTOKA	14	
JDPCWLEN	4	8
JDPCWLMT	0	
JDPERTSK	0	
JDPOPELM	28	
JDPTYPE	0	
JDPUSHEL	30	
JDRELZOD	228	
JDRPLAST	30	
JDRPNFST	20	
JDRPNLST	80	
JDRPNNXT	28	
JDRPNSIZ	C0	
JDSTELLN	0	80
JDSTKEND	18	
JDSTKSTR	10	
JDSTKTOP	8	
JDSTLEN	169	3000
JDSYSCOD	1	
JDSYSID	0	14
JDSYSLEN	1	3
JDUSRCOD	1	
JDUSRID	0	18
JDUSRLEN	1	3
JDVARSTS	A	
JDVCOMPL	A	1
JDWABEND	0	10
JDWAJCLE	0	54
JDWASECE	0	58
JDWCIFST	10	
JDWCILST	18	
JDWCIRER	828	
JDWCIRNM	20	
JDWCUTYP	8	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDWDBONE	48	
JDWDBTWO	50	
JDWDUPER	728	
JDWELEME	70	
JDWERRLN	8	10
JDWERROR	0	
JDWFLAG1	24	
JDWHENWK	0	
JDWHFLG1	58	
JDWHFLG2	59	
JDWHFRST	38	
JDWHLAST	40	
JDWHLEN	185	187
JDWJBSET	28	
JDWKENT1	58	
JDWKENT2	D8	
JDWLEN	F84	F86
JDWLMTIM	0	1E
JDWNET	BB0	
JDWNOOPR	9	0
JDWOPER	B	
JDWOPRTY	9	
JDWRC	0	4
JDWRUN	0	8
JDWSAVR1	928	
JDWSAVR2	9A8	
JDWUNRER	628	
JDWURCON	0	
JDWURDEP	8	
JDWWHEN	A28	
JDW2SECJ	59	80
JENDLLEN	0	1
JENDMARK	0	70
JJCLVAR	C4	3
JLASTPRO	C4	
JLEFTPAR	C4	5
JLOGICAL	C4	1
JOPELLEN	0	1
JOPPREC	1	
JOSTELLN	1	2
JPARSEST	0	
JPARSLNG	E	10
JRIGHPAR	C4	6
JRMAXRC	0	
JRONLYOP	58	80
JRPNELEM	0	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JRWORK16	48	
JRWRDWRD	40	
JUNDEFIN	C4	7
JWHSTK	C5	
JWORKSTK	185	
JWSTKLEN	C5	C0
JXMAXRL	1	4
LEFTPAR	0	4C
LETTER	1	2
LFTPA	1	4
LTEOPER	0	40
LTOPER	0	28
MZDAHOLD	1E	
MZDALIGN	28	
MZDENDAC	1	
MZDENTF1	1A	
MZDERRBA	1C	
MZDERRBF	1C	
MZDERREL	48	
MZDERREX	18	
MZDERRLN	18	
MZDERROR	0	
MZDERRTX	0	
MZDEYEC	0	
MZDFLAG1	D	
MZDIFBFL	34	
MZDIFBUF	30	
MZDIFCHN	20	
MZDIFPAR	28	
MZDIFRPL	2C	
MZDIFRPN	28	
MZDINDTA	20	
MZDINEYE	0	
MZDINFIX	0	
MZDINHLN	14	20
MZDINLEN	4	
MZDINNXT	8	
MZDINOFF	C	
MZDINREM	10	
MZDJBACT	14	40
MZDJBDEP	14	8
MZDJBDLY	14	2
MZDJBFG1	17	
MZDJBHLD	14	4
MZDJBJQE	15	80
MZDJBNEL	14	10

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
MZDJBNRG	14	80
MZDJBPRG	14	1
MZDJBQUE	16	
MZDJBRDY	14	20
MZDJBSTC	18	
MZDJBSTD	19	
MZDJBSTR	1B	
MZDJBST1	14	
MZDJBST2	15	
MZDJOBAN	20	
MZDJOBID	C	
MZDJOBNM	4	
MZDJOBST	14	
MZDJOBTY	0	
MZDMAXRC	28	
MZDNHOLD	1C	
MZDOTHWS	2	
MZDSCWA	24	
MZDSTABN	F	
MZDSTAT	C	
MZDWHEN	0	
MZDWHNBA	2C	
MZDWHNEX	28	
MZDWHNLE	28	
MZDWHNLN	3	
MZDWHNTX	0	
MZDZODEN	50	
MZDZODNM	4	
MZDZODOE	17	
MZDZODST	C	
MZD1ERIN	D	40
MZD1MAXO	D	80
MZD1RDJC	D	20
MZD1WHIN	1A	80
MZODDJC	0	2
MZODDUPE	0	0
MZODFULL	2C	FFB0
MZODHDR	0	
MZODHDRL	50	50
MZODJOB	0	
MZODJOBC	0	40
MZODJOBD	0	8
MZODJOBE	0	10
MZODJOBI	0	4
MZODJOBL	2C	30
MZODJOBM	2C	552

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
MZODJOBN	0	80
MZODJOBP	0	20
MZODOVER	0	1
MZODSIZE	2C	FFF7
NEQOPER	0	38
NGTOPER	0	2C
NLTOPER	0	30
NOTOPER	0	20
OPERATOR	1	3
OROPER	0	48
RGHPA	1	5
RIGHPAR	0	50
SCONSE00	11	0
SCONSE01	11	1
SCONSE02	11	2
SCONSE03	11	3
SCONSE04	11	4
SCONSE05	11	5
SCONSE06	11	6
SCONSE07	11	7
SCONSE08	11	8
SCONSE09	11	9
SCONSE10	11	A
SCONSE11	11	B
SCONSE12	11	C
SCONSE13	11	D
SCONSE14	11	E
SCONSE15	11	F
SCONSE16	11	10
SCONSE17	11	11
SCONSE18	11	12
SCONSE19	11	13
SCONSE20	11	14
SCONSE21	11	15
SCONSE22	11	16
SCONSE23	11	17
SCONSE24	11	18
SCONSE25	11	19
SCONSE26	11	1A
SCONSE27	11	1B
SCONSE28	11	1C
SCONSE29	11	1D
SCONSE30	11	1E
SCONSE31	11	1F
SCONSE32	11	20
SCONSE33	11	21

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
SCONSE34	11	22
SCONSE35	11	23
SCONSE36	11	24
SCONSE37	11	25
SCONSE38	11	26
SCONSE39	11	27
SCONSE40	11	28
SCONSE72	11	48
ZDB	C	
ZDB_COMP	C	1
ZDB_PEND	C	0
ZDB_UDEF	C	2
ZDBDDEFR	D	3
ZDBDENAM	30	
ZDBDENXT	40	
ZDBDEPEA	D	
ZDBDEZJI	38	
ZDBDFAIL	D	2
ZDBDFLSH	D	1
ZDBDSAT	D	0
ZDBENDA	89	
ZDBFLAG1	94	
ZDBLJKEY	90	
ZDBLJNUM	8C	
ZDBNXZDB	10	
ZDBOTHA	8A	
ZDBPRNAM	18	
ZDBPRNXT	28	
ZDBPRZJI	20	
ZDBRSVD	95	
ZDBRSVD1	E	
ZDBRSVSZ	95	B
ZDBSIZE	95	A0
ZDBSTAT	C	
ZDBWHENL	88	
ZDBWHENT	48	
ZDBWHMAX	8A	40
ZDB1DECH	94	80
ZJC	0	
ZJC	0	
ZJC	0	
ZJC	0	
ZJCCARSZ	38	3C
ZJCCLEN	8	C
ZJCCNM1	0	
ZJCCNM2	C	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ZJCCNM3	18	
ZJCCNM4	24	
ZJCCNM5	30	
ZJCCNR1	8	
ZJCCNR2	14	
ZJCCNR3	20	
ZJCCNR4	2C	
ZJCCNR5	38	
ZJCCNT	0	
ZJCINDEX	4	
ZJCNFREI	0	
ZJCOBJCT	C	
ZJCRSVD1	9	
ZJCSIZE	C	A0
ZJCT_FRE	8	0
ZJCT_ZDB	8	3
ZJCT_ZJI	8	2
ZJCT_ZOD	8	1
ZJCTYPE	8	
ZJCVRSN	0	1
ZJI	C	
ZJI_ACTI	5A	1
ZJI_COMP	5A	2
ZJI_FLSH	5A	3
ZJI_INER	5A	4
ZJI_PEND	5A	0
ZJIABCMP	9C	
ZJIABNOR	9B	
ZJICHOLD	88	
ZJIERZJI	5C	
ZJIFLAG1	58	
ZJIFLAG2	71	
ZJIFLAG3	74	
ZJIJBKEY	4C	
ZJIJBNUM	48	
ZJIJDZDB	28	
ZJIJNAME	40	
ZJIJPZDB	20	
ZJIJQEF3	59	
ZJIJSNAM	50	
ZJIJSRET	72	
ZJILJKEY	64	
ZJILJNUM	60	
ZJIMASZJ	84	
ZJIMAXRC	80	
ZJIMCJTS	68	0

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ZJIMCMID	70	
ZJINJSET	38	
ZJINORMA	9A	
ZJINRCMP	9D	
ZJINXCON	30	
ZJINXZJI	10	
ZJIPHOLD	9E	
ZJIPZOD	18	
ZJIRELID	8A	
ZJIRELJB	92	
ZJIRSVD	9F	
ZJIRSVSZ	9F	1
ZJISIZE	9F	A0
ZJISTAT	5A	
ZJISYSID	73	
ZJIWSCN	78	
ZJI1DEFE	58	2
ZJI1ELIG	58	80
ZJI1FACT	58	40
ZJI1JREG	58	8
ZJI1ORIG	58	1
ZJI1PURG	58	20
ZJI1RESU	58	10
ZJI1STRT	58	4
ZJI2ABND	71	8
ZJI2JCAN	71	20
ZJI2JGCM	71	80
ZJI2JWLM	71	40
ZJI2POST	71	10
ZJI3TSRV	74	80
ZOD	C	
ZOD_ACT	8B	2
ZOD_ACTI	8B	1
ZOD_CANI	8B	7
ZOD_COMP	8B	8
ZOD_FLSH	8B	6
ZOD_HELD	8B	5
ZOD_NOTF	8B	FF
ZOD_PEND	8B	0
ZOD_SUSD	8B	4
ZOD_SUSI	8B	3
ZODBLDWK	30	30
ZODEFLSH	8A	3
ZODENOER	8A	0
ZODERMAX	89	40
ZODERRA	8A	

Table 638. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ZODERREL	88	
ZODERREX	48	
ZODERZJI	90	
ZODESTOP	8A	1
ZODESUSP	8A	2
ZODFLAG1	96	
ZODIZDB	20	
ZODIZJI	18	
ZODJQEF3	8C	
ZODLJKEY	44	
ZODLJNUM	40	
ZODNAME	38	
ZODNCZJI	2C	
ZODNPURG	2E	
ZODNRZJI	2A	
ZODNUMER	94	
ZODNXZOD	10	
ZODNZJI	28	
ZODONERR	89	
ZODRSVD	97	
ZODRSVSZ	97	9
ZODSIZE	97	A0
ZODSTAT	8B	
ZODTSMP	30	0
ZOD1NETC	96	20
ZOD1ORIG	96	40
ZOD1RGBL	96	80

Appendix A. Accessibility

Accessible publications for this product are offered through IBM Documentation (www.ibm.com/docs/en/zos).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the Contact the z/OS team web page (www.ibm.com/systems/campaignmail/z/zos/contact_z) or use the following mailing address.

IBM Corporation
Attention: MHVRCFS Reader Comments
Department H6MA, Building 707
2455 South Road
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Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- *z/OS TSO/E Primer*
- *z/OS TSO/E User's Guide*
- *z/OS ISPF User's Guide Vol I*

Dotted decimal syntax diagrams

Syntax diagrams are provided in dotted decimal format for users who access IBM Documentation with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or `3.1` or `3.1.1`. To hear these numbers correctly, make sure that the screen reader is set to read out punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number `3.1`)

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are mutually exclusive alternatives. If you hear the lines `3.1 USERID` and `3.1 SYSTEMID`, your syntax can include either `USERID` or `SYSTEMID`, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The `*` symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element `*FILE` with dotted decimal number 3 is given the format `3 \* FILE`. Format `3* FILE` indicates that syntax element `FILE` repeats. Format `3* \* FILE` indicates that syntax element `* FILE` repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines `5.1*, 5.1 LASTRUN, and 5.1 DELETE` mean that if you use more than one of the `LASTRUN` and `DELETE` syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line `2.1 %OP1` means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

? indicates an optional syntax element

The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example `5? NOTIFY`). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines `5 ?, 5 NOTIFY`, and `5 UPDATE`, you know that the syntax elements `NOTIFY` and `UPDATE` are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

! indicates a default syntax element

The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the `!` symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines `2? FILE, 2.1! (KEEP), and 2.1 (DELETE)`, you know that `(KEEP)` is the default option for the `FILE` keyword. In the example, if you include the `FILE` keyword, but do not specify an option, the default option `KEEP` is applied. A default option also applies to the next higher dotted decimal number. In this example, if the `FILE` keyword is omitted, the default `FILE(KEEP)` is used. However, if you hear the lines `2? FILE, 2.1, 2.1.1! (KEEP)`, and `2.1.1 (DELETE)`, the default option `KEEP` applies only to the next higher dotted decimal number, `2.1` (which does not have an associated keyword), and does not apply to `2? FILE`. Nothing is used if the keyword `FILE` is omitted.

*** indicates an optional syntax element that is repeatable**

The asterisk or glyph (*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the * symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line `5.1* data area`, you know that you can include one data area, more than one data area, or no data area. If you hear the lines `3* , 3 HOST, 3 STATE`, you know that you can include `HOST, STATE`, both together, or nothing.

Notes:

1. If a dotted decimal number has an asterisk (*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.
2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write `HOST STATE`, but you cannot write `HOST HOST`.
3. The `*` symbol is equivalent to a loopback line in a railroad syntax diagram.

+ indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line `6.1+ data area`, you must include at least one data area. If you hear the lines `2+, 2 HOST,` and `2 STATE`, you know that you must include `HOST, STATE,` or both. Similar to the `*` symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the `*` symbol, is equivalent to a loopback line in a railroad syntax diagram.

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