

```

      MM      MM  AAAAAAAAAA  NN      NN  AAAAAAAAAA  SSSSSSSSSS  MM      MM
      MMM      MMM  AAAAAAAAAA  NNN      NN  AAAAAAAAAA  SSSSSSSSSSSS  MMM      MMM
      MMMM      MMMM  AA      AA  NNNN      NN  AA      AA  SS      SS  MMMM      MMMM
      MM MM  MM MM  AA      AA  NN NN      NN  AA      AA  SS      SS  MM MM  MM MM
      MM MMMM  MM  AA      AA  NN NN      NN  AA      AA  SSS      SSS  MM MMMM  MM
      MM  MM  MM  AAAAAAAAAA  NN  NN  NN  AAAAAAAAAA  SSSSSSSSS  MM  MM  MM
      MM      MM  AAAAAAAAAA  NN  NN  NN  AAAAAAAAAA  SSSSSSSSS  MM      MM
      MM      MM  AA      AA  NN  NN  NN  AA      AA      SSS  MM      MM
      MM      MM  AA      AA  NN  NNNN  AA      AA      SS  MM      MM
      MM      MM  AA      AA  NN  NNN  AA      AA  SS      SS  MM      MM
      MM      MM  AA      AA  NN  NN  AA      AA  SSSSSSSSSSSS  MM      MM
      MM      MM  AA      AA  NN  N  AA      AA  SSSSSSSSSS  MM      MM

```

```

JJJJJJJJJJ      11      222222222  9999999999      AAAAAAAAAA
JJJJJJJJJJ      111      2222222222  999999999999      AAAAAAAAAAAAAA
JJ      1111      22      22  99      99      AA      AA
JJ      11      22  99      99      AA      AA
JJ      11      22  99      99      AA      AA
JJ      11      22  999999999999      AAAAAAAAAAAAAA
JJ      11      22  999999999999      AAAAAAAAAAAAAA
JJ      11      22      99      AA      AA
JJ JJ      11      22      99      AA      AA
JJ JJ      11      22      99      AA      AA
JJJJJJJJJJ      1111111111  22222222222  999999999999      AA      AA
JJJJJJ      1111111111  22222222222  9999999999      AA      AA

```

```

****A  START  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  START  A****
****A  START  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  START  A****
****A  START  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  START  A****
****A  START  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  START  A****

```

J E S 2 J O B L O G

01.44.48 JOB 129 \$HASP373 MANASM STARTED - INIT 1 - CLASS A - SYS TK4-  
01.44.48 JOB 129 IEF403I MANASM - STARTED - TIME=01.44.48  
01.44.48 JOB 129 IEFACTRT - Stepname Procstep Program Retcode  
01.44.48 JOB 129 MANASM ASM IFOX00 RC= 0000  
01.44.48 JOB 129 +Start prtmamd  
01.44.48 JOB 129 +IEW199I ERROR - USER PROGRAM HAS ABNORMALLY TERMINATED  
01.44.48 JOB 129 IEF450I MANASM GO - ABEND SOC1 U0000 - TIME=01.44.48  
01.44.48 JOB 129 MANASM GO LOADER AB SOC1  
01.44.48 JOB 129 IEF404I MANASM - ENDED - TIME=01.44.48  
01.44.48 JOB 129 \$HASP395 MANASM ENDED

----- JES2 JOB STATISTICS -----

27 FEB 21 JOB EXECUTION DATE

253 CARDS READ

1,327 SYSOUT PRINT RECORDS

24 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

```

1      //MANASM    JOB  CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),REGION=128K,          JOB  129
      //          USER=HERC01,PASSWORD=
2      //ASM       EXEC  PGM=IFOX00,PARM=OBJ,REGION=128K
3      //SYSLIB    DD   DSN=SYS1.MACLIB,DISP=SHR
4      //SYSUT1    DD   DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),
      //          SEP=(SYSLIB)
5      //SYSUT2    DD   DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),
      //          SEP=(SYSLIB,SYSUT1)
6      //SYSUT3    DD   DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))
7      //SYSPRINT  DD   SYSOUT=*,DCB=BLKSIZE=1089
8      //SYSPUNCH  DD   SYSOUT=B
9      //SYSGO     DD   DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),
      //          DISP=(MOD,PASS)
10     //SYSIN     DD   *
11     //GO        EXEC  PGM=LOADER,PARM='MAP,PRINT,NOCALL,LET',
      //          COND=(8,LT,ASM)
12     //SYSLIN    DD   DSN=&&OBJSET,DISP=(OLD,DELETE)
13     //SYSLOUT   DD   SYSOUT=*
14     //SYSUDUMP   DD   SYSOUT=*
      //

```

```

IEF236I ALLOC. FOR MANASM ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 140 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 190 ALLOCATED TO SYSGO
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I MANASM ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                                KEPT                *-----34
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS21058.T014448.RA000.MANASM.SYSUT1        DELETED                *----1,236
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS21058.T014448.RA000.MANASM.SYSUT2        DELETED                *-----36
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS21058.T014448.RA000.MANASM.SYSUT3        DELETED                *-----8
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00129.S00102                        SYSOUT
IEF285I   JES2.JOB00129.S00103                        SYSOUT
IEF285I   SYS21058.T014448.RA000.MANASM.OBJSET        PASSED                *-----24
IEF285I   VOL SER NOS= WORK03.
IEF285I   JES2.JOB00129.SI0101                        SYSIN
IEF373I STEP /ASM / START 21058.0144
IEF374I STEP /ASM / STOP 21058.0144 CPU OMIN 00.23SEC SRB OMIN 00.04SEC VIRT 128K SYS 200K
*****
* 1. Jobstep of job: MANASM Stepname: ASM Program name: IFOX00 Executed on 27.02.21 from 01.44.48 to 01.44.48 *
* elapsed time 00:00:00,39 CPU-Identifier: TK4- Page-in: 0 *
* CPU time 00:00:00,27 Virtual Storage used: 128K Page-out: 0 *
* corr. CPU: 00:00:00,27 CPU time has been corrected by 1 / 1,0 multiplier *
*
* I/O Operation *
* Number of records read via DD * or DD DATA: 231 *
* 148.....34 140....1236 170.....36 180.....8 DMY.....0 DMY.....0 190.....24 DMY.....0 *
*
* Charge for step (w/o SYSOUT): 0,45 *
*****
IEF236I ALLOC. FOR MANASM GO
IEF237I 190 ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I JES2 ALLOCATED TO SYSUDUMP
Start prtmand
IEW199I ERROR - USER PROGRAM HAS ABNORMALLY TERMINATED
IEF472I MANASM GO - COMPLETION CODE - SYSTEM=0C1 USER=0000
IEF285I   SYS21058.T014448.RA000.MANASM.OBJSET        DELETED                *-----25
IEF285I   VOL SER NOS= WORK03.
IEF285I   JES2.JOB00129.S00104                        SYSOUT
IEF285I   JES2.JOB00129.S00105                        SYSOUT
IEF373I STEP /GO / START 21058.0144
IEF374I STEP /GO / STOP 21058.0144 CPU OMIN 00.02SEC SRB OMIN 00.00SEC VIRT 128K SYS 216K
*****
* 2. Jobstep of job: MANASM Stepname: GO Program name: LOADER Executed on 27.02.21 from 01.44.48 to 01.44.48 *
* elapsed time 00:00:00,03 CPU-Identifier: TK4- Page-in: 0 *
* CPU time 00:00:00,02 Virtual Storage used: 128K Page-out: 0 *
* corr. CPU: 00:00:00,02 CPU time has been corrected by 1 / 1,0 multiplier *
*
* I/O Operation *
* Number of records read via DD * or DD DATA: 0 *
* 190.....25 DMY.....0 DMY.....0 *
*

```

```
*                               Charge for step (w/o SYSOUT):          0,03                               *
*****
IEF375I  JOB /MANASM  /  START 21058.0144
IEF376I  JOB /MANASM  /  STOP 21058.0144 CPU      0MIN 00.25SEC SRB      0MIN 00.04SEC
```

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID
PRTMAND	SD	0001	000000	000419	

ASM 0201 01.44 02/27/21

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
1					MACRO	
2					&NAME MANONE &DMB	
3					. * One iteration of the mandelbrot set	
4					. *	
5					. * zn+1 = zn^2 + c	
6					. *	
7					. * input:	
8					. * zn[real] in register 0	
9					. * zn[imag] in register 2	
10					. * c[real] in register 4	
11					. * c[imag] in register 6	
12					. * stash is memory region of size ??	
13					. *	
14					. * output:	
15					. * zn+1[real] in register 0	
16					. * zn+1[imag] in register 2	
17					. *	
18					STD 4,&DMB Store C	
19					STD 6,&DMB+8	
20					LDR 4,0 Copy z	
21					LCDR 6,2	
22					MDR 0,4 Real*Real	
23					MDR 2,6 Imag*Imag	
24					SDR 0,2 Real part zn	
25					LDR 2,4 Real copy	
26					MDR 2,6 Real*Imag	
27					LD 4,&DMB+16 2*Real*Imag	
28					MDR 2,4	
29					LD 4,&DMB z*z + c	
30					LD 6,&DMB+8	
31					ADR 0,4	
32					ADR 2,6	
33					MEND	
34					MACRO	
35					&NAME CLMAG &STASH	
36					* Calculate square of magnitude of complex number	
37					*	
38					* &STASH : memory region capable of storing two doubles	
39					* 0 : real part	
40					* 2 : complex part	
41					*	
42					* Result is in register 0	
43					*	
44					* Registers used 0,2,4	
45					LDR 0,4	
46					MDR 0,4	
47					LDR 2,4	
48					MDR 2,4	
49					ADR 0,2	
50					MEND	
51					MACRO	
52					&NAME MANDEL &DMM	
53					. * Determine if a point is in the mandelbrot set	
54					. *	
55					. * input:	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
56	.*				c[real] in register 0	
57	.*				c[imag] in register 2	
58	.*				maxiter in register 4	
59	.*					
60	.*				output:	
61	.*					
62	.*					
63				S	4,&DMM+40 Store maximum iterations	
64				STD	0,&DMM	
65				STD	2,&DMM+8	
66	ITERB			LD	0,&DMM+16 Setup input and call one iteration	
67				LD	2,&DMM+24	
68				LD	4,&DMM	
69				LD	6,&DMM+8	
70				MANONE	&DMM+64	
71				STD	0,&DMM+16 Store znext	
72				STD	2,&DMM+24	
73				CLMAG	Calculate magnitude	
74				CD	0,&DMM+32 Check if bounded	
75				BH	NOTIT	
76				L	0,&DMM+40	
77				S	0,&DMM+48	
78				BE	ISIT	
79				ST	0,&DMM+40	
80				B	ITERB	
81	ISIT			L	0,&DMM+48	
82				B	EXIT	
83	NOTIT			L	0,&DMM+56	
84	EXIT			C	0,=D'0'	
85				MEND		
86				MACRO		
87	&NAME			CRDINIT	&BUF	
88	.*				Initializes 1D coordinate mapping	
89	.*					
90	.*				Input	
91	.*				&BUF - 4 long float sized buffer with the	
92	.*				following in order:	
93	.*				x0 - input space coordinate 0	
94	.*				x1 - input space coordinate 1	
95	.*				y0 - output space coordinate 0	
96	.*				y1 - output space coordinate 1	
97	.*					
98	.*				Output	
99	.*				&BUF - initialized for input to CRDTRAN	
100	.*					
101	.*				Registers	
102	.*				0,2,4,6 (long)	
103	.*					
104				WTO	'CRDINIT'	
105				LD	0,&BUF+24 y1-y0	
106				SD	0,&BUF+16	
107				LD	2,&BUF+8 x1-x0	
108				SD	2,&BUF	
109				DDR	0,2 m	
110				WTO	'Calced m'	



LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
111	STD			0,&BUF+8		
112	LD			2,&BUF		
113	MDR			0,2	m*x0	
114	SD			0,&BUF+16	b	
115	STD			0,&BUF		
116	WTO			'Calced b'		
117	MEND					
118	MACRO					
119	&NAME			CRDTRAN &BUF		
120	.*			Perform 1D coordinate transform		
121	.*					
122	.*			Input		
123	.*			R0 - input coordinate		
124	.*			&BUF - space initialized by CRDINIT		
125	.*					
126	.*			Output		
127	.*			R0 - output coordinate		
128	.*					
129	.*			Registers		
130	.*			0		
131	MD			0,&BUF+8	mx	
132	AD			0,&BUF		
133	MEND					
134	MACRO					
135	&NAME			PUTC &DEST,&CHAR,&OFFSET		
136	*			Store a character at a location in a buffer		
137	*					
138	*			Input:		
139	*			&TO Output buffer		
140	*			&CHAR Location of character		
141	*			&OFFSET Location of offset in buffer		
142	*					
143	*			Registers:		
144	*			0,1,2,3		
145	&NAME			L 1,='X'0'		
146				L 2,='X'0'		
147				IC 1,&CHAR		
148				L 2,&OFFSET		
149				LA 3,&DEST		
150				STC 1,3(2)		
151	MEND					
152	MACRO					
153	&NAME			DMO		
154	*			Data definition for MANONE macro		
155				DS 2D stash		
156				DC D'2.0' two		
157	MEND					
158	MACRO					
159	&NAME			DMAND		
160	*			Data block for MANDEL		
161	&NAME			DS 0D		
162				DC 1D'0' CREAL		
163				DC 1D'0' CIMAG 8		
164				DC D'0.0' ZREAL 16		
165				DC D'0.0' ZIMAG 24		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 01.44 02/27/21
				166	DC	D'4.0' BOUND 32	
				167	DS	1PL4 ITER 40	
				168	DC	PL4'1' ONE 48	
				169	DC	PL4'0' ZERO 56	
				170	DMO		
				171	MEND		
000000				172	PRTMAND	START	
		00000		173	USING	PRTMAND,15	
				174	SAVE	(14,12)	
000000				175+	DS	0H	01650000
000000	90EC D00C	0000C		176+	STM	14,12,12(13)	SAVE REGISTERS 02950000
				177	WTO	'Start prtmand'	
000004				178+	CNOP	0,4	09800002
000004	4510 F01A	0001A		179+	BAL	1,IHB0002A	BRANCH AROUND MESSAGE 09850002
000008	0011			180+	DC	AL2(17) TEXT LENGTH	13200002
00000A	0000			181+	DC	B'0000000000000000' MCS FLAGS	13250002
00000C	E2A38199A3409799			182+	DC	C'Start prtmand'	13350002
00001A				183+IHB0002A	DS	0H	15850002
00001A	0A23			184+	SVC	35	15950002
				185	OPEN	(PRINT, (OUTPUT))	
00001C				186+	CNOP	0,4	ALIGN LIST TO FULLWORD 01740001
00001C	4510 F024	00024		187+	BAL	1,*+8	LOAD REG1 W/LIST ADDR. 01780000
000020	8F			188+	DC	AL1(143)	OPTION BYTE 01900000
000021	0003AC			189+	DC	AL3(PRINT)	DCB ADDRESS 01920000
000024	0A13			190+	SVC	19	ISSUE OPEN SVC 04000000
				191	CRDINIT	XTRAN Initialize coordinate translation	
000026	0700			192+	CNOP	0,4	09800002
000028	4510 F038	00038		193+	BAL	1,IHB0005A	BRANCH AROUND MESSAGE 09850002
00002C	000B			194+	DC	AL2(11) TEXT LENGTH	13200002
00002E	0000			195+	DC	B'0000000000000000' MCS FLAGS	13250002
000030	C3D9C4C9D5C9E3			196+	DC	C'CRDINIT'	13350002
000038				197+IHB0005A	DS	0H	15850002
000038	0A23			198+	SVC	35	15950002
00003A	6800 F278	00278		199+	LD	0,XTRAN+24 y1-y0	
00003E	6B00 F270	00270		200+	SD	0,XTRAN+16	
000042	6820 F268	00268		201+	LD	2,XTRAN+8 x1-x0	
000046	6B20 F260	00260		202+	SD	2,XTRAN	
00004A	2D02			203+	DDR	0,2 m	
00004C				204+	CNOP	0,4	09800002
00004C	4510 F05C	0005C		205+	BAL	1,IHB0006A	BRANCH AROUND MESSAGE 09850002
000050	000C			206+	DC	AL2(12) TEXT LENGTH	13200002
000052	0000			207+	DC	B'0000000000000000' MCS FLAGS	13250002
000054	C381938385844094			208+	DC	C'Calced m'	13350002
00005C				209+IHB0006A	DS	0H	15850002
00005C	0A23			210+	SVC	35	15950002
00005E	6000 F268	00268		211+	STD	0,XTRAN+8	
000062	6820 F260	00260		212+	LD	2,XTRAN	
000066	2C02			213+	MDR	0,2 m*x0	
000068	6B00 F270	00270		214+	SD	0,XTRAN+16 b	
00006C	6000 F260	00260		215+	STD	0,XTRAN	
000070				216+	CNOP	0,4	09800002
000070	4510 F080	00080		217+	BAL	1,IHB0007A	BRANCH AROUND MESSAGE 09850002
000074	000C			218+	DC	AL2(12) TEXT LENGTH	13200002
000076	0000			219+	DC	B'0000000000000000' MCS FLAGS	13250002
000078	C381938385844082			220+	DC	C'Calced b'	13350002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
000080				221+	IHB0007A DS 0H	15850002
000080	0A23			222+	SVC 35	15950002
				223	WTO 'X Init'	
000082	0700			224+	CNOP 0,4	09800002
000084	4510 F092	00092		225+	BAL 1,IHB0008A	09850002
000088	000A			226+	DC AL2(10) TEXT LENGTH	13200002
00008A	0000			227+	DC B'0000000000000000' MCS FLAGS	13250002
00008C	E740C99589A3			228+	DC C'X Init'	13350002
000092				229+	IHB0008A DS 0H	15850002
000092	0A23			230+	SVC 35	15950002
				231	CRDINIT YTRAN	
000094				232+	CNOP 0,4	09800002
000094	4510 F0A4	000A4		233+	BAL 1,IHB0010A	09850002
000098	000B			234+	DC AL2(11) TEXT LENGTH	13200002
00009A	0000			235+	DC B'0000000000000000' MCS FLAGS	13250002
00009C	C3D9C4C9D5C9E3			236+	DC C'CRDINIT'	13350002
0000A4				237+	IHB0010A DS 0H	15850002
0000A4	0A23			238+	SVC 35	15950002
0000A6	6800 F298	00298		239+	LD 0,YTRAN+24 y1-y0	
0000AA	6B00 F290	00290		240+	SD 0,YTRAN+16	
0000AE	6820 F288	00288		241+	LD 2,YTRAN+8 x1-x0	
0000B2	6B20 F280	00280		242+	SD 2,YTRAN	
0000B6	2D02			243+	DDR 0,2 m	
0000B8				244+	CNOP 0,4	09800002
0000B8	4510 F0C8	000C8		245+	BAL 1,IHB0011A	09850002
0000BC	000C			246+	DC AL2(12) TEXT LENGTH	13200002
0000BE	0000			247+	DC B'0000000000000000' MCS FLAGS	13250002
0000C0	C381938385844094			248+	DC C'Calced m'	13350002
0000C8				249+	IHB0011A DS 0H	15850002
0000C8	0A23			250+	SVC 35	15950002
0000CA	6000 F288	00288		251+	STD 0,YTRAN+8	
0000CE	6820 F280	00280		252+	LD 2,YTRAN	
0000D2	2C02			253+	MDR 0,2 m*x0	
0000D4	6B00 F290	00290		254+	SD 0,YTRAN+16 b	
0000D8	6000 F280	00280		255+	STD 0,YTRAN	
0000DC				256+	CNOP 0,4	09800002
0000DC	4510 F0EC	000EC		257+	BAL 1,IHB0012A	09850002
0000E0	000C			258+	DC AL2(12) TEXT LENGTH	13200002
0000E2	0000			259+	DC B'0000000000000000' MCS FLAGS	13250002
0000E4	C381938385844082			260+	DC C'Calced b'	13350002
0000EC				261+	IHB0012A DS 0H	15850002
0000EC	0A23			262+	SVC 35	15950002
				263	WTO 'Y Init'	
0000EE	0700			264+	CNOP 0,4	09800002
0000F0	4510 F0FE	000FE		265+	BAL 1,IHB0013A	09850002
0000F4	000A			266+	DC AL2(10) TEXT LENGTH	13200002
0000F6	0000			267+	DC B'0000000000000000' MCS FLAGS	13250002
0000F8	E840C99589A3			268+	DC C'Y Init'	13350002
0000FE				269+	IHB0013A DS 0H	15850002
0000FE	0A23			270+	SVC 35	15950002
				271	WTO 'Prtmand After Open'	
000100				272+	CNOP 0,4	09800002
000100	4510 F11A	0011A		273+	BAL 1,IHB0014A	09850002
000104	0016			274+	DC AL2(22) TEXT LENGTH	13200002
000106	0000			275+	DC B'0000000000000000' MCS FLAGS	13250002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
000108	D799A39481958440			276+	DC C'Prtmand After Open'	13350002
00011A				277+IHB0014A	DS 0H	15850002
00011A	0A23			278+	SVC 35	15950002
00011C	6800 F2A8	002A8		279 XLOOP	LD 0,YCRNT Coordinate translate	
				280	CRDTRAN YTRAN	
000120	6C00 F288	00288		281+	MD 0,YTRAN+8 mx	
000124	6A00 F280	00280		282+	AD 0,YTRAN	
000128	2840			283	LDR 4,0	
00012A	6800 F2A0	002A0		284	LD 0,XCRNT	
				285	CRDTRAN XTRAN	
00012E	6C00 F268	00268		286+	MD 0,XTRAN+8 mx	
000132	6A00 F260	00260		287+	AD 0,XTRAN	
000136	2824			288	LDR 2,4 Setup inputs	
000138	5840 F2CC	002CC		289	L 4,MAXITER	
				290	MANDEL DMB Calculate if in set	
00013C	5B40 F300	00300		291+	S 4,DMB+40 Store maximum iterations	
000140	6000 F2D8	002D8		292+	STD 0,DMB	
000144	6020 F2E0	002E0		293+	STD 2,DMB+8	
000148	6800 F2E8	002E8		294+ITERB	LD 0,DMB+16 Setup input and call one iteration	
00014C	6820 F2F0	002F0		295+	LD 2,DMB+24	
000150	6840 F2D8	002D8		296+	LD 4,DMB	
000154	6860 F2E0	002E0		297+	LD 6,DMB+8	
000158	6040 F318	00318		298+	STD 4,DMB+64 Store C	
00015C	6060 F320	00320		299+	STD 6,DMB+64+8	
000160	2840			300+	LDR 4,0 Copy z	
000162	2362			301+	LCDR 6,2	
000164	2C04			302+	MDR 0,4 Real*Real	
000166	2C26			303+	MDR 2,6 Imag*Imag	
000168	2B02			304+	SDR 0,2 Real part zn	
00016A	2824			305+	LDR 2,4 Real copy	
00016C	2C26			306+	MDR 2,6 Real*Imag	
00016E	6840 F328	00328		307+	LD 4,DMB+64+16 2*Real*Imag	
000172	2C24			308+	MDR 2,4	
000174	6840 F318	00318		309+	LD 4,DMB+64 z*z + c	
000178	6860 F320	00320		310+	LD 6,DMB+64+8	
00017C	2A04			311+	ADR 0,4	
00017E	2A26			312+	ADR 2,6	
000180	6000 F2E8	002E8		313+	STD 0,DMB+16 Store znext	
000184	6020 F2F0	002F0		314+	STD 2,DMB+24	
				315+*	Calculate square of magnitude of complex number	
				316+*		
				317+*	&STASH : memory region capable of storing two doubles	
				318+*	0 : real part	
				319+*	2 : complex part	
				320+*		
				321+*	Result is in register 0	
				322+*		
				323+*	Registers used 0,2,4	
000188	2804			324+	LDR 0,4	
00018A	2C04			325+	MDR 0,4	
00018C	2824			326+	LDR 2,4	
00018E	2C24			327+	MDR 2,4	
000190	2A02			328+	ADR 0,2	
000192	6900 F2F8	002F8		329+	CD 0,DMB+32 Check if bounded	
000196	4720 F1B6	001B6		330+	BH NOTIT	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
00019A	5800 F300	00300		331+	L 0,DMB+40	
00019E	5B00 F308	00308		332+	S 0,DMB+48	
0001A2	4780 F1AE	001AE		333+	BE ISIT	
0001A6	5000 F300	00300		334+	ST 0,DMB+40	
0001AA	47F0 F148	00148		335+	B ITERB	
0001AE	5800 F308	00308		336+ISIT	L 0,DMB+48	
0001B2	47F0 F1BA	001BA		337+	B EXIT	
0001B6	5800 F310	00310		338+NOTIT	L 0,DMB+56	
0001BA	5900 F410	00410		339+EXIT	C 0,=D'0'	
0001BE	4780 F1DE	001DE		340	BE NOPRINT	
				341	PUTC PRTBUF,HASH,XCHAR	
				342+*	Store a character at a location in a buffer	
				343+*		
				344+*	Input:	
				345+*	&TO Output buffer	
				346+*	&CHAR Location of character	
				347+*	&OFFSET Location of offset in buffer	
				348+*		
				349+*	Registers:	
				350+*	0,1,2,3	
0001C2	5810 F418	00418		351+	L 1,=X'0'	
0001C6	5820 F418	00418		352+	L 2,=X'0'	
0001CA	4310 F2D4	002D4		353+	IC 1,HASH	
0001CE	5820 F2C0	002C0		354+	L 2,XCHAR	
0001D2	4130 F328	00328		355+	LA 3,PRTBUF	
0001D6	4212 0003	00003		356+	STC 1,3(2)	
0001DA	47F0 F1F6	001F6		357	B CONT	
				358	NOPRINT PUTC PRTBUF,SPACE,XCHAR	
				359+*	Store a character at a location in a buffer	
				360+*		
				361+*	Input:	
				362+*	&TO Output buffer	
				363+*	&CHAR Location of character	
				364+*	&OFFSET Location of offset in buffer	
				365+*		
				366+*	Registers:	
				367+*	0,1,2,3	
0001DE	5810 F418	00418		368+NOPRINT	L 1,=X'0'	
0001E2	5820 F418	00418		369+	L 2,=X'0'	
0001E6	4310 F2D0	002D0		370+	IC 1,SPACE	
0001EA	5820 F2C0	002C0		371+	L 2,XCHAR	
0001EE	4130 F328	00328		372+	LA 3,PRTBUF	
0001F2	4212 0003	00003		373+	STC 1,3(2)	
0001F6	5800 F2C0	002C0		374	CONT L 0,XCHAR	
0001FA	5A00 F2C4	002C4		375	A 0,ONE	
0001FE	5000 F2C0	002C0		376	ST 0,XCHAR	
000202	4740 F216	00216		377	BL YNEXT	
000206	6800 F2A0	002A0		378	LD 0,XCRNT	
00020A	6A00 F2B0	002B0		379	AD 0,ONED	
00020E	6000 F2A0	002A0		380	STD 0,XCRNT	
000212	47F0 F11C	0011C		381	B XLOOP	
				382	YNEXT PUT PRINT,PRTBUF	
000216	4110 F3AC	003AC		383+YNEXT	LA 1,PRINT	LOAD PARAMETER REG 1 01900002
00021A	4100 F328	00328		384+	LA 0,PRTBUF	LOAD PARAMETER REG 0 02500002
00021E	58F0 1030	00030		385+	L 15,48(0,1)	LOAD PUT ROUTINE ADDR 00550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
000222	05EF			386+	BALR 14,15	LINK TO PUT ROUTINE 00600000
000224	5800 F2C8	002C8		387	L 0,ZERO	
000228	5000 F2C0	002C0		388	ST 0,XCHAR	
00022C	6800 F2B8	002B8		389	LD 0,ZEROD	
000230	6000 F2A0	002A0		390	STD 0,XCRNT	
000234	6800 F2A8	002A8		391	LD 0,YCRNT	
000238	6A00 F2B0	002B0		392	AD 0,ONED	
00023C	6000 F2A8	002A8		393	STD 0,YCRNT	
000240	4740 F248	00248		394	BL DONE	
000244	47F0 F11C	0011C		395	B XLOOP	
				396	DONE CLOSE (PRINT)	
000248				397+	CNOP 0,4	ALIGN LIST TO FULLWORD 02420002
000248	4510 F250	00250		398+D	BAL 1,*+8	LOAD REG1 W/LIST ADDR 02460002
00024C	80			399+	DC AL1(128)	OPTION BYTE 02580000
00024D	0003AC			400+	DC AL3 (PRINT)	DCB ADDRESS 02600000
000250	0A14			401+	SVC 20	ISSUE CLOSE SVC 01640000
				402	RETURN (14,12),RC=0	
000252	98EC D00C	0000C		403+	LM 14,12,12(13)	RESTORE THE REGISTERS 00650000
000256	41F0 0000	00000		404+	LA 15,0(0,0)	LOAD RETURN CODE 01750000
00025A	07FE			405+	BR 14	RETURN 02000000
00025C	00000000					
000260	0000000000000000			406	XTRAN DC D'0',D'120',D'-2',D'2'	
000280	0000000000000000			407	YTRAN DC D'0',D'90',D'-2',D'2'	
0002A0	0000000000000000			408	XCRNT DC D'0.0'	
0002A8	0000000000000000			409	YCRNT DC D'0.0'	
0002B0	4110000000000000			410	ONED DC D'1.0'	
0002B8	0000000000000000			411	ZEROD DC D'0.0'	
0002C0				412	XCHAR DS PL4'0'	
0002C4	0000001C			413	ONE DC PL4'1'	
0002C8	0000000C			414	ZERO DC PL4'0'	
0002CC	0000100C			415	MAXITER DC PL4'100'	
0002D0	40404040			416	SPACE DC C' '	
0002D4	7B7B7B7B			417	HASH DC C'####'	
				418	DMB DMAND	
				419+	* Data block for MANDEL	
0002D8				420+	DMB DS 0D	
0002D8	0000000000000000			421+	DC 1D'0' CREAL	
0002E0	0000000000000000			422+	DC 1D'0' CIMAG 8	
0002E8	0000000000000000			423+	DC D'0.0' ZREAL 16	
0002F0	0000000000000000			424+	DC D'0.0' ZIMAG 24	
0002F8	4140000000000000			425+	DC D'4.0' BOUND 32	
000300				426+	DS 1PL4 ITER 40	
000304	0000001C			427+	DC PL4'1' ONE 48	
000308	0000000C			428+	DC PL4'0' ZERO 56	
				429+	* Data definition for MANONE macro	
000310				430+	DS 2D stash	
000320	4120000000000000			431+	DC D'2.0' two	
000328				432	PRTBUF DS 132C	
				433	PRINT DCB DSORG=PS,MACRF=PM,DDNAME=SYSLOUT,RECFM=FM,LRECL=120	
				435+	* DATA CONTROL BLOCK	22770000
				436+	*	22860000
0003AC				437+	PRINT DC 0F'0' ORIGIN ON WORD BOUNDARY	22914000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 01.44 02/27/21
				439+*	DIRECT ACCESS DEVICE INTERFACE	27360000
0003AC	0000000000000000			441+	DC BL16' 0' FDAD, DVTBL	27540000
0003BC	00000000			442+	DC A(0) KEYLE, DEVT, TRBAL	27720000
				444+*	COMMON ACCESS METHOD INTERFACE	48690000
0003C0	00			446+	DC AL1(0) BUFNO	49050000
0003C1	000001			447+	DC AL3(1) BUFCB	54720000
0003C4	0000			448+	DC AL2(0) BUFL	55170000
0003C6	4000			449+	DC BL2' 0100000000000000'	*55800000
				+	DSORG	55890000
0003C8	00000001			450+	DC A(1) IOBAD	56340000
				452+*	FOUNDATION EXTENSION	56610000
0003CC	00			454+	DC BL1' 00000000' BFTEK, BFLN, HIARCHY	59850000
0003CD	000001			455+	DC AL3(1) EODAD	65970000
0003D0	82			456+	DC BL1' 10000010'	*66150000
				+	RECFM	66240000
0003D1	000000			457+	DC AL3(0) EXLST	66330000
				459+*	FOUNDATION BLOCK	66690000
0003D4	E2E8E2D3D6E4E340			461+	DC CL8' SYSLOUT' DDNAME	66870000
0003DC	02			462+	DC BL1' 00000010' OFLGS	68220000
0003DD	00			463+	DC BL1' 00000000' IFLG	68310000
0003DE	0050			464+	DC BL2' 0000000001010000'	*68400000
				+		*68490000
				+	MACR	68580000
				466+*	BSAM-BPAM-QSAM INTERFACE	74430000
0003E0	00			468+	DC BL1' 00000000'	*74610000
				+		RER1 74700000
0003E1	000001			469+	DC AL3(1) CHECK, GERR, PERR	74790000
0003E4	00000001			470+	DC A(1) SYNAD	74880000
0003E8	0000			471+	DC H' 0' CIND1, CIND2	74970000
0003EA	0000			472+	DC AL2(0) BLKSIZE	75240000
0003EC	00000000			473+	DC F' 0' WCPO, WCPL, OFFSR, OFFSW	75870000
0003F0	00000001			474+	DC A(1) IOBA	75960000
0003F4	00			475+	DC AL1(0) NCP	76050000
0003F5	000001			476+	DC AL3(1) EOBR, EOBA	76140000
				478+*	QSAM INTERFACE	81450000
0003F8	00000001			480+	DC A(1) RECAD	81630000
0003FC	0000			481+	DC H' 0' QSWs	81810000
0003FE	0078			482+	DC AL2(120) LRECL	80730000
000400	00			483+	DC BL1' 00000000'	82530000
000401	000001			484+	DC AL3(1) CNTRL	82620000
000404	00000000			485+	DC F' 0' PRECL	82710000
000408	00000001			486+	DC A(1) EOB	82800000
000000				487	END PRTMAND	
000410	0000000000000000			488	=D' 0'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT
000418	00			489	=X' 0'

ASM 0201 01.44 02/27/21



POS.ID	REL.ID	FLAGS	ADDRESS
0001	0001	08	000021
0001	0001	08	00024D

ASM 0201 01.44 02/27/21

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 01.44 02/27/21
CONT	00004	000001F6	00374	00357	
DMB	00008	000002D8	00420	00291 00292 00293 00294 00295 00296 00297 00298 00299 00307 00309 00310 00313 00314 00329	
				00331 00332 00334 00336 00338	
DONE	00004	00000248	00398	00394	
EXIT	00004	000001BA	00339	00337	
HASH	00004	000002D4	00417	00353	
IHB0002A	00002	0000001A	00183	00179	
IHB0005A	00002	00000038	00197	00193	
IHB0006A	00002	0000005C	00209	00205	
IHB0007A	00002	00000080	00221	00217	
IHB0008A	00002	00000092	00229	00225	
IHB0010A	00002	000000A4	00237	00233	
IHB0011A	00002	000000C8	00249	00245	
IHB0012A	00002	000000EC	00261	00257	
IHB0013A	00002	000000FE	00269	00265	
IHB0014A	00002	0000011A	00277	00273	
ISIT	00004	000001AE	00336	00333	
ITERB	00004	00000148	00294	00335	
MAXITER	00004	000002CC	00415	00289	
NOPRINT	00004	000001DE	00368	00340	
NOTIT	00004	000001B6	00338	00330	
ONE	00004	000002C4	00413	00375	
ONED	00008	000002B0	00410	00379 00392	
PRINT	00004	000003AC	00437	00189 00383 00400	
PRTBUF	00001	00000328	00432	00355 00372 00384	
PRTMAND	00001	00000000	00172	00173 00487	
SPACE	00004	000002D0	00416	00370	
XCHAR	00004	000002C0	00412	00354 00371 00374 00376 00388	
XCRNT	00008	000002A0	00408	00284 00378 00380 00390	
XLOOP	00004	0000011C	00279	00381 00395	
XTRAN	00008	00000260	00406	00199 00200 00201 00202 00211 00212 00214 00215 00286 00287	
YCRNT	00008	000002A8	00409	00279 00391 00393	
YNEXT	00004	00000216	00383	00377	
YTRAN	00008	00000280	00407	00239 00240 00241 00242 00251 00252 00254 00255 00281 00282	
ZERO	00004	000002C8	00414	00387	
ZEROD	00008	000002B8	00411	00389	

SYMBOL	LEN	VALUE	DEFN	REFERENCES
--------	-----	-------	------	------------

ASM 0201 01.44 02/27/21

=D' 0'	00008	00000410	00488	00339
--------	-------	----------	-------	-------

=X' 0'	00001	00000418	00489	00351 00352 00368 00369
--------	-------	----------	-------	-------------------------

ASM 0201 01.44 02/27/21

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), DECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)

NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER = 8702/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 231

TOTAL RECORDS READ FROM SYSTEM LIBRARY 3656

TOTAL RECORDS PUNCHED 24

TOTAL RECORDS PRINTED 578

**VS LOADER**

OPTIONS USED - PRINT,MAP,LET,NOCALL,NORES,NOTERM,SIZE=98304,NAME=\*\*GO

[illegible]

COMPLETION CODE      SYSTEM = 0C1

PSW AT ENTRY TO ABEND    078D0000 00000026      ILC 2    INTC 0001

ASCB 00FF9478

+0	ASCB	C1E2C3C2	FWDP	00000000	BWDP	00FE3530	CMSF	00000000	SVRB	009BE7A8	SYNC	000007D4
+18	IOSP	00000000	SPL	00FF9548	CPUS	00000001	IDSQ	000A0007	IODP	00040076	STOR	0FC34C00
+30	LDA	009BF548	RSM	00FF9388	CSCB	00FEC010	TSB	00000000	EJST	00000000	XJST	01F78840
+48	EWST	D9556F9D	XWST	D9C93040	JSTL	0000023C	ECB	809BEE58	UBET	00000000	RESV	00000000
+60	DUMP	009BE3A0	FW1	FFFF0000	TMCH	00000000	ASXB	009BF300	SWCT	04EE0000	SSRB	00000000
+78	VSC	0000000E	TCBS	00000001	LOCK	00000000	LSQH	00000000	QECB	00000000	MECB	40000000
+90	OUCB	00FF9878	OUXB	00FF9CA0	FMCT	00280000	XMPQ	00000000	IQEA	00000000	RTWA	00000000
+A8	MCC	00000000	JBNI	00FE3110	JBNS	00FEC020	SRQ	00000000	VGTT	00000000	PCTT	00000000
+C0	SMCT	00000007	SWTL	00000D69	SRBT	00000000	ATME	0093B9C0				

TCB 99DA58

+0	RBP	009BE6E0	PIE	00000000	DEB	00999610	TIO	0098B020	CMP	900C1000	TRN	00000000
+18	MSS	009BC540	PK-FLG	80010000	FLG	0000FFFF	LLS	009BC9E0	JLB	00000000	JPQ	00000000
+70	FSA	010ACFB8	TCB	00000000	TME	00000000	JST	0099DCF8	NTC	00000000	OTC	0099DCF8
+88	LTC	00000000	IQE	00000000	ECB	000A4F4C	TSF	20000000	D-PQE	009BF548	AQE	0099D1B0
+A0	STAB	009BCA90	TCT	809BC710	USER	00000000	SDF	00000000	MDID	00000000	JSCB	009BC85C
+B8	RESV	00000000	IOBRC	00000000	XCPD	00000000	EXT	00000000	BITS	00000000	DAR	00000000
+D0	EXT2	0099DB80	AECB	00000000	TIRB	00000000	BAK	0099DCF8	RTMWA	0099D660	IOTM	00000000
+E8	TMSAV	00000000	ABCR	00000000	XSCT	80000040	FOE	00000000	SWA	009BC440	STAW	00000000
+100	BID	E3C3C240	RTM1	00000000	ESTA	00000000	UKY	009BC570	CPVI	0000FFFF	BYT1	08000000
+118	RPT	00000000	DBTB	00000000	SWAS	0099AF50	SCB	00000000	RESV	00000000	RESV	00000000
EXT2	GTF	00000000	SVAB	00000000	EVNT	00000000	RES	00000000	RESV	00000000	RESV	00000000

ACTIVE RBS

PRB 99DC68    RESV 00000000    RESV 00000000    RTPSW1 078D0000    00000026    RTPSW2 00020001    00BBE000  
 FLG1 00000000    WC-L-IC 00020001  
 RESV 00000000    APSW 00000000    SZ-STAB 00110082      FL-CDE 0099DBA0    PSW 078D0000    00000026  
 Q/TTR 00000000    WT-LNK 0099DA58  
 RG 0-7    000A4F54    000A4F78    800A4F7C    000AC010    000A4FFA    FFFFFFFF    000A4F98    000000FF  
 RG 8-15    00000000    000A4EC8    000A4FE0    000AC000    400A5D5C    000ACFB8    0000004E    000A4F10

SVRB 9BE5F0    RESV 00000000    RESV 00000000    RTPSW1 00000000    00000000    RTPSW2 00000000    00E08000  
 FLG1 20000000    WC-L-IC 00020033  
 RESV 00000000    APSW 00000000    SZ-STAB 001CD022      FL-CDE 00000000    PSW 070C1000    00E088B0  
 Q/TTR 00000000    WT-LNK 0099DC68  
 RG 0-7    0099C000    800AC030    800A4F7C    000AC010    000A4FFA    FFFFFFFF    000A4F98    000000FF  
 RG 8-15    00000000    000A4EC8    000A4FE0    000AC000    400A5D5C    000ACFB8    00014058    00000000  
 EXTSA    0099C000    800AC030    00014008    0099DA58    009BE5F0    00FF9478    0002FB8C    00000000  
           0099D660    FF0003CC    40000101    900C1000  
 SCB    00000000    00000000    129BE650    039BE5F0    6400DB00    RESV    00000000  
 FEPARM    00000000    80C76A6E    00000000    00000884    0002FB8C    00000000

SVRB 9BE6E0    RESV 00000000    RESV 00000000    RTPSW1 00000000    00000000    RTPSW2 00000000    00DAE000  
 FLG1 02000000    WC-L-IC 0002000C

JOB MANASM                    STEP GO                    TIME 014448    DATE 21058                    ID = 000                    PAGE 0002

```
RESV 00000000    APSW    00000000    SZ-STAB 001CD022    FL-CDE 00000000    PSW 070C1000    00DB614E
Q/TTR 00000000    WT-LNK 009BE5F0
RG 0-7    000001A0    0099D760    0098B048    0080E600    00014008    00E08C69    40E07C6A    0099D660
RG 8-15    0099BE68    00000000    0098B048    00FE7F94    0099DBF0    0099D7D4    0099D760    00000000
EXTSA    00000000    0099D230    0000042C    009BE744    20FD0000    00000000    00000000    00000000
          00000000    00000000    00000000    00000000
SCB       00000000    00000000    00000000    009BE6E0    0000DB00    RESV    00000000
FEPARM    00000000    80C76A6E    80C76A8E    00000884    0002FB8C    00000000
```

LOAD LIST

NE 00000000    RSP-CDE 00FE3660    CNT 00010001

CDE

```
99DBA0            NCDE 009BCDF0    RBP 0099DC68 NM **GO            EPA 000AC010    XL/MJ 0099DBC0    USE 00010000    ATTR 09A0000
FE3660            NCDE 00FE36E8    RBP 00000000 NM IGG019DK        EPA 00F99000    XL/MJ 00FE3680    USE 00010000    ATTR B122000
```

XL			LN	ADR	LN	ADR	LN	ADR
99DBC0	SZ	00000010	NO 00000001		80000430	000AC000		
FE3680	SZ	00000010	NO 00000001		800008B0	00F99000		

```
TIOT 98B020            JOB MANASM            STEP GO
          OFFSET    LN-STA            DDNAME            TTR-ST            STB-UC
          + 0018    14010100            SYSLIN            99FB8000            90002B48
          + 002C    14010102            SYSLOUT           99F7C000            80000000
          + 0040    14010102            SYSUDUMP           99F64000            80000000
```

VSM

```
SPQE 009BC540 NSPQE 009BC3A0 DQE 009BF100 FL/RS 8000 SPID 000 KEY 8
SPQE 009BF100 NSPQE 00000000 DQE 009BC520 FL/RS 6000 SPID 000 KEY 8
DQE 9BC520 FQE 9BC4A0 NDQE 9BC480 BLK 000A4000 LN 00001000 FQE 9BC4A0 FQE 80000000 LN 00000EC8 AREA 000A4EC8
DQE 9BC480 FQE 9BC4D0 NDQE 000000 BLK 000AC000 LN 00001000 FQE 9BC4D0 FQE 80000000 LN 00000360 AREA 000AC790
SPQE 009BC3A0 NSPQE 00000000 DQE 009BC4F0 FL/RS C000 SPID 078 KEY 8
SPQE 009BC4F0 NSPQE 009BC410 DQE 00000000 FL/RS 2000 SPID 078 KEY 8
```

D-PQE 9BF548            FIRST 009BF418

```
PQE 9BF418    FFB 009BC420    LFB 009BC350    NPQ 00000000    PPQ 00000000
          TCB 009BC7B0    RSI 0091C000    RAD 000A4000    FLG 00000000
FBQE 9BC420    NFB 009BC3D0    PFB 009BF418    SZ 00006000    AREA 000A6000
FBQE 9BC3D0    NFB 009BC350    PFB 009BC420    SZ 008DE000    AREA 000AD000
FBQE 9BC350    NFB 009BF418    PFB 009BC3D0    SZ 00001000    AREA 00994000
```

\*\*\*TCB SUMMARY\*\*\*

```
-----
TCB AT 9BD148    CMP 00000000    PKF-FLG 00000080    DSP 0000FFFF    SDY 00000000    RTM 00000000    FBYT 00000000
TCB AT 9BE3A0    CMP 00000000    PKF-FLG 00000080    DSP 0000FFFF    SDY 00000000    RTM 00000000    FBYT 00040000
TCB AT 9BE150    CMP 00000000    PKF-FLG 00000080    DSP 0000FFFF    SDY 00000000    RTM 00000000    FBYT 00040000
TCB AT 9BC7B0    CMP 00000000    PKF-FLG 80000000    DSP 0000FFFF    SDY 00000000    RTM 00000000    FBYT 00040000
```

JOB MANASM STEP GO TIME 014448 DATE 21058 ID = 000 PAGE 0003

TCB AT 99DCF8 CMP 00000000 PKF-FLG 80000000 DSP 0000FFFF SDY 00000000 RTM 00000000 FBYT 00040000  
TCB AT 99DA58 CMP 900C1000 PKF-FLG 80010000 DSP 0000FFFF SDY 00000000 RTM 0099D660 FBYT 08000000

QCB TRACE

MAJ FFF3F8 NMAJ 00FFF398 PMAJ 00000000 FMIN 00FFF470 LMIN 00FFF470 NM SYSIEA01  
MIN FFF470 NMIN 00000000 PMIN 00000000 FQEL 00FFF488 LQEL 00FFF488 FLID 0320000A NM IEA  
NQEL 00000000 PQEL 00000000 TCB 0099DA58 FLID 2800000A SVRB 009BE6E0 CNT 00010000  
MAJ FFF338 NMAJ 00000000 PMAJ 00FFF398 FMIN 00FE30D0 LMIN 00FFEF08 NM SYSDSN  
MIN FE30D0 NMIN 00FE3180 PMIN 00000000 FQEL 00FFF440 LQEL 00FFF440 FLID 24800000 NM SYS21058.T014448.RA000.M  
NQEL 00000000 PQEL 00000000 TCB 009BC7B0 FLID 2800000A SVRB 009BE5F0 CNT 00010000  
MIN FE3180 NMIN 00FE3408 PMIN 00FE30D0 FQEL 00FFF3B0 LQEL 00FFF3B0 FLID 24800000 NM SYS21058.T014448.RA000.M  
NQEL 00000000 PQEL 00000000 TCB 009BC7B0 FLID 2800000A SVRB 009BE5F0 CNT 00010000  
MIN FE3408 NMIN 00FE3690 PMIN 00FE3180 FQEL 00FFF4D0 LQEL 00FFF4D0 FLID 24800000 NM SYS21058.T014448.RA000.M  
NQEL 00000000 PQEL 00000000 TCB 009BC7B0 FLID 2800000A SVRB 009BE5F0 CNT 00010000  
MIN FE3690 NMIN 00FFEF30 PMIN 00FE3408 FQEL 00FFF4E8 LQEL 00FFF4E8 FLID 24800000 NM SYS21058.T014448.RA000.M  
NQEL 00000000 PQEL 00000000 TCB 009BC7B0 FLID 2800000A SVRB 009BE5F0 CNT 00010000

-DEB-----AT LOCATION 00999610

-8 EXTNSION 00999688 LENGTH 10 AMTYPE 81 TBLOF 0001  
+0 TCBADR 0099DA58 NEXTDEB 00000000 IRBADR 08998DB0 PATB 0F000900  
+10 USRPG 00000000 RRQ 0099BE68 DCBADR 8F0ACE70 APPADR 00F5BA9C  
+20 00001DC8 E2E2C9C2 00240000 D1C5E2F2  
+30 00000000 00000000 00000000 00000000  
+40 00000000 00000000 E2E2D6C2 00140010  
+50 00999634 00000000 0099966C 00180000  
+60 00000000 009997B4 00999610 00998DB0  
+70 00000000 00000000

\*\*\* FOR THIS DEB THERE IS NO DCB, THE CONTROL BLOCK POINTED TO BY THE DEB IS AN ACB \*\*\*

-RTM2WA-----AT LOCATION 0099D660

+0 D9E3D4F2 0099D660 FF0003CC 00014008 0099DA58 009BE5F0 00FF9478 800C1000  
+20 00000000 00000000 00000000 00000000 0099DA58 009BE5F0 00FE7EA8

-EED TYPE1 REGS AND PSW

+3C 0099C000 800AC030 800A4F7C 000AC010 000A4FFA FFFFFFFF 000A4F98 000000FF  
+5C 00000000 000A4EC8 000A4FE0 000AC000 400A5D5C 000ACFB8 00014058 00000000  
+7C 078D0000 00000026 00020001 00BBE000



+8C 00000000 00000000 00000000

-EED TYPE3 MACHINE CHECK

+98 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-----

+B4 40040001 00000000 00000000 00000000 00000000 00000001 00000000 00000000

+D4 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+F4 00000000 00000000 0099D760

-SNPPARMS

+100 006C0000 0F40BE00 0099BE68 0099DA58 00000000

-DUMP STORAGE RANGES

+114 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-----

+134 E2E8E2E4 C4E4D4D7 00000000 0099DA58 0099D7B4 0099D7B8 0099D7BC 0099D7C0

+154 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SUBFUNCTION REGISTER SAVE AREA

+174 00000000 00000000 00000000 40E0A3CE 00E07C48 0000C872 0099D660 00FE7EA8

+194 00E0AB7B 0099DA58 009BE5F0 40E09B7C 00000000 0099D660 0099DA58 00000000

+1B4 00000000 0099DA58

-----

+1BC 00000000 00FA0000 00000000 00000000 00080000 00000000 00000000 E0100000

+1DC 00000000 00E08E72 00E0A3FA 00E0AF36 00E04DEA 00000800

-RECURSION REGISTERS

+1F4 000001A0 00999E60 0098B048 0080E600 0099DA58 00E08C69 40E07C6A 0099D660

+214 0099BE68 00000000 0098B048 0099BEC0 0099DBF0 0099D7D4 00000000 00000000

-SAVE AREA FOR VTRT2

+234 00000000 00000000 00000000 40E04B62 00E09B60 0000C872 0099D9C8 00FE7EA8

+254 00014008 0099DA58 009BE5F0 40E04020 009BE650 0099D660 00FF9478 00000000

+274 0099D9C8 00000000

-SAVE AREA FOR TAS2/TAS3

+27C 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+29C 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+2BC 00000000 00000000

-----

+2C4 0099D928

-RMPL

+2C8 8000000A 00FF9478 0099DA58 00000000 0099D940 00000000

-WORK AREA FOR RESOURCE MANAGER

+2E0 FF030100 0099D94C 0099D954 E2E8E2C9 C5C1F0F1 C9C5C100 00039960 00000C5C

+300 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SAVE AREA FOR RESOURCE MANAGER

+320 00000000 0099D7D4 0099AF58 50E07FB0 00E97B70 00000198 0099BEC4 0098B048

```
+340  0080E600 0099DA58 00E08C69 40E07C6A 0099D660 0099BE68 00000000 0098B048
+360  0099BEC4 0099DBF0

+368  C8720000 000A0000 F5A10000 00000000 00000000 00000000 00000000 00000000
+388  00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
+3A8  00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
+3C8  00000000
```

RTM2WA SUMMARY

```
+1C  COMPLETION CODE                      800C1000
+8C  ABENDING PROGRAM NAME                N/A
+94  ABENDING PROGRAM ADDR                00000000

+3C  REGS AT TIME OF ERROR                0099C000 800AC030 800A4F7C 000AC010 000A4FFA FFFFFFFF 000A4F98 000000FF (0-7)
+5C                                        00000000 000A4EC8 000A4FE0 000AC000 400A5D5C 000ACFB8 00014058 00000000 (8-F)
+7C  EC PSW AT TIME OF ERROR              078D0000 00000026 00020001 00BBE000
+DC  SDWACOMP                              00000000

+E8  RETURN CODE FROM RECOVERY ROUTINE-00,CONTINUE WITH TERMINATION-IMPLIES PERCOLATION
+E0  RETRY ADDR RETURNED FROM RECOVERY EXIT 00000000
+E4  RB ADDR FOR RETRY                     00000000

+C   CVT  ADDR                              00014008
+38  RTCT ADDR                              00FE7EA8
+C8  SCB  ADDR                              00000001
+D4  SDWA ADDR                              00000000
+14  SVRB ADDR                              009BE5F0
+16C PREV RTM2WA FOR THE TASK              00000000
+170 PREV RTM2WA FOR RECURSION            00000000

+B8  ASID OF ERROR IF CROSS MEMORY ABTERM        0000
+36C ERROR ASID                              000A

+37C CURRENT TRACE ENTRY FOR SAVED TRACE TABLE 00000000
+380 FIRST TRACE ENTRY FOR SAVED TRACE TABLE 00000000
+384 LAST TRACE ENTRY FOR SAVED TRACE TABLE 00000000
```

RTM2WA BIT FLAG SUMMARY

```
+2C8  TASK TERMINATION
      ABNORMAL TERMINATION
+B4  PROGRAM CHECK
+B5  ENABLED RB IN CONTROL AT ERROR
+B7  ERROR ID INFORMATION AVAILABLE
```

ESA BIT FLAG SUMMARY (RTM1 RELATED INFORMATION) FROM SVRB AT 009BE5F0

```
+88  RTM2 ENTERED VIA ABTERM
+8A  RTM1 ENTERED FOR PROGRAM CHECK
+8B  SYSTEM STATE: TASK MODE
```

-STAE CONTROL BLOCK-----AT LOCATION 009BCA90  
-----

+0 NEXTSCB 00000000 USEREXIT 00DB1090 PARMLIST 1699D384 TCB/RB 039BE6E0 SCBDATA 4000DB00

SCB BIT FLAG SUMMARY  
-----

+8 ALLOW ASYNCHRONOUS INTERRUPTS  
BYPASS I/O INTERVENTION  
ESTAE INDICATOR ON

+C USER IN KEY 0-7  
USER IN SUPERVISOR STATE

-STAE CONTROL BLOCK-----AT LOCATION 009BE2E0  
-----

+0 NEXTSCB 009BCA90 USEREXIT 000AE002 PARMLIST 169969C8 TCB/RB 039BE6E0 SCBDATA 0000DB00

SCB BIT FLAG SUMMARY  
-----

+8 ALLOW ASYNCHRONOUS INTERRUPTS  
BYPASS I/O INTERVENTION  
ESTAE INDICATOR ON

+C USER IN KEY 0-7  
USER IN SUPERVISOR STATE

SAVE AREA TRACE

INTERRUPT AT 000026  
NO ACDEB AND ASSOCIATED RDT AND FMCBS

ADDRESS FOR CRA NOT AVAILABLE

VSAM JSCBSHR 9BC920 000004

9BC920 00000000

\*....

\*

NO VSAM VGTT CHAIN PRESENT FOR THIS ASCB

END OF VSAM DATA

REGS AT ENTRY TO ABEND

FLTR 0-6	0000000000000000	0000000000000000	0000000000000000	0000000000000000
REGS 0-7	0099C000	800AC030	800A4F7C	000AC010
REGS 8-15	00000000	000A4EC8	000A4FE0	000AC000
			000A4FFA	FFFFFFF
			400A5D5C	000ACFB8
				000A4F98
				000000FF
				00014058
				00000000

## ACTIVE LOAD MODULES

## LPA/JPA MODULE \*\*GO

0AC000	5C5CC7D6	40404040	00000000	00000000	90ECD00C	4510F01A	00110000	E2A38199	***GO	.....}	...0.....Star*
0AC020	A3409799	A3948195	84000A23	4510F024	8F0AC3BC	0A130700	4510F038	000B0000	*t prtmand	....0...C.....0....*	
0AC040	C3D9C4C9	D5C9E300	0A236800	F2786B00	F2706820	F2686B20	F2602D02	4510F05C	*CRDINIT	....2,,2...2,,2-....0**	
0AC060	000C0000	C3819383	85844094	0A236000	F2686820	F2602C02	6B00F270	6000F260	*....Calced m	.-.2...2-.,.2.-.2-*	
0AC080	4510F080	000C0000	C3819383	85844082	0A230700	4510F092	000A0000	E740C995	*.0.....Calced b	.....0k....X In*	
0AC0A0	89A30A23	4510F0A4	000B0000	C3D9C4C9	D5C9E300	0A236800	F2986B00	F2906820	*it....Ou....CRDINIT	....2q,.2...*	
0AC0C0	F2886B20	F2802D02	4510F0C8	000C0000	C3819383	85844094	0A236000	F2886820	*2h,.2.....0H....Calced m	.-.2h...*	
0AC0E0	F2802C02	6B00F290	6000F280	4510F0EC	000C0000	C3819383	85844082	0A230700	*2...,.2.-.2...0.....Calced b	....*	
0AC100	4510F0FE	000A0000	E840C995	89A30A23	4510F11A	00160000	D799A394	81958440	*.0.....Y Init	....1.....Prtmand *	
0AC120	C186A385	9940D697	85950A23	6800F2A8	6C00F288	6A00F280	28406800	F2A06C00	*After Open	....2y%.2 .2...%.0	
0AC140	F2686A00	F2602824	5840F2CC	5B40F300	6000F2D8	6020F2E0	6800F2E8	6820F2F0	*2. .2-... 2.\$ 3.-.2Q-.2\..2Y..20*		
0AC160	6840F2D8	6860F2E0	6040F318	6060F320	28402362	2C042C26	2B022824	2C266840	*. 2Q-.2\-. 3.--3.. .....	* .....	
0AC180	F3282C24	6840F318	6860F320	2A042A26	6000F2E8	6020F2F0	28042C04	28242C24	*3.... 3...-3.....-2Y-.20.....*		
0AC1A0	2A026900	F2F84720	F1B65800	F3005B00	F3084780	F1AE5000	F30047F0	F1485800	*....28..1...3.\$3...1.&3..01...*		
0AC1C0	F30847F0	F1BA5800	F3105900	F4104780	F1DE5810	F4185820	F4184310	F2D05820	*3..01...3...4...1...4...4...2M...*		
0AC1E0	F2C04130	F3284212	000347F0	F1F65810	F4185820	F4184310	F2D05820	F2C04130	*2{.3.....016..4...4...2}..2{...*		
0AC200	F3284212	00035800	F2C05A00	F2C45000	F2C04740	F2166800	F2A06A00	F2B06000	*3.....2{!.2D&.2{. 2...2 .2-..*		
0AC220	F2A047F0	F11C4110	F3AC4100	F32858F0	103005EF	5800F2C8	5000F2C0	6800F2B8	*2..01...3...3..0.....2H&.2{..2..*		
0AC240	6000F2A0	6800F2A8	6A00F2B0	6000F2A8	4740F248	47F0F11C	4510F250	800AC3BC	*-.2...2y .2-..2y. 2..01...2&..C.*		
0AC260	0A1498EC	D00C41F0	000007FE	00000000	00000000	00000000	42780000	00000000	*..q.}.0.....*		
0AC280	C1200000	00000000	41200000	00000000	00000000	00000000	425A0000	00000000	*A.....!.....*		
0AC2A0	C1200000	00000000	41200000	00000000	00000000	00000000	00000000	00000000	*A.....*		
0AC2C0	41100000	00000000	00000000	00000000	00000000	00000001C	0000000C	0000100C	*.....*		
0AC2E0	40404040	7B7B7B7B	00000000	00000000	00000000	00000000	00000000	00000000	* #####.....*		
0AC300	00000000	00000000	41400000	00000000	00000000	00000001C	0000000C	00000000	*.....*		
0AC320	00000000	00000000	00000000	00000000	41200000	00000000	00000000	00000000	*.....*		
0AC340	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*.....*		

## LINES 0AC360-0AC3A0 SAME AS ABOVE

0AC3C0	00000000	00000000	00000000	00000000	00000001	00004000	00000001	00000001	*.....*
0AC3E0	82000000	E2E8E2D3	D6E4E340	02000050	00000001	00000001	00000000	00000000	*b...SYSLOUT ...&.....*
0AC400	00000001	00000001	00000001	00000078	00000001	00000000	00000001	00000000	*.....*
0AC420	00000000	00000000	00000000	00000000					*.....*

## LPA/JPA MODULE IGG019DK

F99000	00F99018	00F99028	00F9903A	00F9904C	00F9906C	00F9905A	90ECD00C	18715880	*.9...9...9...9.<.9.%.9.!...}.....*
F99020	70081F66	47F0F05E	90ECD00C	18715880	70084160	000447F0	F04E90EC	D00C1871	*....00;...}.....-...00+...}....*
F99040	58807008	41600008	47F0F03C	90ECD00C	18814160	000C47F0	F02A47F0	F01290EC	*....-...00...}..a.-...00..00...*
F99060	D00C1881	41600014	47F0F01C	90ECD00C	18814160	001005B0	58408044	50D04078	*}..a.-...00...}..a.-...& } ..*
F99080	41D04074	412040C0	41C0B694	1E6C5860	600007F6	50702054	910240BE	4770B032	*.} ... {..m.%.0--..6&...j. ....*
F990A0	1FCC50C0	700047F0	B03CD203	7000B6BC	47F0B5FE	58C0700C	50C02020	91408024	*..&{...0...K.....0...{..&{..j ..*
F990C0	47E0B060	91808024	4770B060	4AC0B6B0	50C02020	47F0B0AA	91108024	47E0B084	*.\.-j.....-ö{..&{...0...j....\d*
F990E0	1FFFFBF3	803E1FEE	1FCCBFC3	80521DEC	50F04134	50F04148	47F0B0B0	91C08024	*...3.....C.....&0...&0...j{..*
F99100	47E0B0AA	91807004	47E0B0A2	1FCCBFC3	803E50C0	203447F0	B0AA48C0	700650C0	*.\.j....\s...C.&{...0...{..&{*
F99120	2034D203	4134B6B4	18124100	000058F1	001858FF	000805EF	12FF4770	B0F69180	*..K.....1.....6j..*
F99140	802447E0	B0EE9140	80244770	B0EED503	20302034	4780B0EE	9208200D	D200200F	*...\.j .....N.....k...K...*
F99160	B6DE47F0	B0F6927F	700047F0	B10C9508	200D4770	B5D4D500	200FB6D4	4780B660	*...0.6k"...0..n.....MN...M...-
F99180	47F0B5D4	91408024	47E0B15A	91808024	4770B15A	58C02020	41A00004	58902030	*.0.Mj ...\.!j.....!{.....*

F991A0	18691E6A	185C5E50	B6B84060	50001F55	06C006C0	4050C000	58C0700C	1E6A4060	*... .*;&...-&....{.{ &{...  -*
F991C0	C0004050	C0024A90	B6B05090	203047F0	B19658C0	413406C0	50C04134	12CC4780	*{. &{.Ö...&....0.o.{...{&{.....*
F991E0	B196BFC3	80524770	B1841FCC	BFC3803E	5EC02020	50C02020	47F0B0B0	1FCCBFC3	*.o.C....d...C.;{. &{...0.....C*
F99200	80525EC0	202050C0	202047F0	B0B09180	802447E0	B1B69140	80244770	B1B69110	*...;{. &{...0..j....\..j .....j.*
F99220	802447E0	B1B69501	80484720	B2129180	802447E0	B1DE9140	80244770	B1DE9110	*... \..n.....j....\..j .....j.*
F99240	802447E0	B1DE58F0	20305CE0	413440F0	700247F0	B1EC1FCC	BFC3803E	5FC02030	*... \..0.*\.. 0...0.....C.^{.*
F99260	40C07002	D5017002	B7CB47B0	B1FCD201	7002B7CB	1FCCBFC3	700250C0	401441C0	* {..N.....K.....C.&{...{.*
F99280	400850C0	701047F0	B5FE58F0	20305CE0	413440F0	700258C0	401458C0	C00050C0	* .&{...0...*\.. 0...{ ..{.&{*
F992A0	401450F0	C01441C0	C00850C0	701047F0	B5FE1FCC	50C07000	D2032020	700C5070	* .&0{...{.&{...0...&{..K.....&.*
F992C0	205491C0	802447E0	B2749180	700447E0	B2681FCC	BFC3803E	50C02030	47F0B460	*..j{... \..j....\.....C.&{...0.-*
F992E0	48C07006	50C02030	47F0B460	91808024	47C0B2AE	91408024	4770B2AE	1FCCBFC3	*.{.&{...0.-j....\..j .....C*
F99300	803E50C0	20309110	802447E0	B4601FAA	BFA38052	50A02030	18FC1FEE	1DEA50F0	*..&{..j....\..-..t..&.....&0*
F99320	413447F0	B4669140	802447E0	B4049180	80244770	B4049108	802447E0	B40458C0	*...0..j ... \..j.....j....\...{.*
F99340	700C1FAA	BFA3803E	49A0C000	4740B608	41C00008	5EC02020	50C02020	911040BE	*....t....{... ..{.;{.&{..j. *
F99360	4770B2F2	D2034140	413C94EF	40BE58C0	202048C0	B6B050C0	413858C0	20205EC0	*...2K... m. ..{...{.&{...{.;{*
F99380	B6B848C0	C0004BC0	B6AE50C0	413458A0	41405890	413C5E90	413019A9	4780B364	*...{...{.&{... ..{.;{.&{...z...*
F993A0	1ECA180C	190947D0	B3381F9A	50904134	58E02020	180B58F0	413418BF	58A04140	*.....}....&....\.....0.....*
F993C0	0EAE18B0	180058C0	413458A0	41401EAC	50A04140	5EC02030	50C02030	58C02020	*.....{.....&...;{.&{...{.*
F993E0	18AC5EA0	B6B84800	A0001E0C	58A0700C	48A0A000	5EA04138	4AA0B6AE	190A4770	*..;.....Ö.....*
F99400	B3B818AC	06A006A0	9500A000	4780B3A4	06C006C0	9502C000	4770B3AC	960840BE	*.....n.....u...{.n...{.....o. *
F99420	47F0B3E4	961040BE	927F7000	47F0B5FE	58C02020	18AC5EA0	B6B848A0	A0001EAC	*.O.Uo. .k"...0...{....;.....*
F99440	180A58C0	700C48C0	C0005EC0	41384AC0	B6AE190C	4720B608	50A04140	D2032020	*...{...{.;{.Ö{.....&..K...*
F99460	413C47F0	B466D203	20204140	1FCC50C0	2030D203	4140413C	47F0B302	91408024	*...0..K.....&{..K... ..0..j ..*
F99480	47E0B456	91808024	4770B456	58C0700C	48C0C000	1FAABFA3	803B19CA	4720B608	*.\..j.....{...{....t.....*
F994A0	41A00008	5EA02020	50A02020	41900004	5EA0B6B8	48A0A000	186A1F69	50602030	*....;...&.....;..... ..&-..*
F994C0	50A04134	1FC950C0	414447F0	B4661FCC	BFC3803E	50C02030	D2034134	B6B49104	*&....I&{...0.....C.&{..K.....j.*
F994E0	802447E0	B4769102	80244780	B4869102	802447E0	B4A09104	80244770	B4A058C0	*... \..j.....fj....\..j.....{.*
F99500	202050C0	20145EC0	B6B450C0	202058C0	203006C0	50C02030	18124100	000158F1	*..&{.;{.&{...{...{....1&24100
F99520	001858FF	000805EF	12FF4780	B4C49241	7000D200	7001B6CA	47F0B5FE	927F7000	*.....Dk...K.....0..k"...*
F99540	91408024	47E0B4F6	91808024	4770B4F6	91088024	47E0B4F6	1FCC50C0	20309108	*j ... \..6j.....6j....\..6..&{..j.*
F99560	40BE47E0	B3EE94F7	40BE47F0	B5FE9140	802447E0	B5429180	80244770	B54258C0	* .. \..m7 ..0..j ... \..j.....{.*
F99580	41445FC0	413450C0	41412CC	47D0B5FE	41C00004	58A02020	5EA02030	1EAC50A0	*..^ {..&{.....}...{.....;.....&.*
F995A0	20205EA0	B6B848A0	A00013CC	1ECA50C0	203050A0	413447F0	B46658C0	413406C0	*...;.....&{..&....0...{...{.*
F995C0	50C04134	12CC4780	B5B4BFC3	80524770	B56C1FCC	BFC3803E	5EC02020	50C02020	*&{.....C.....%0..C.;{.&{...*
F995E0	47F0B57A	1FCCBFC3	80525EC0	202050C0	20209104	802447E0	B58A9102	80244780	*.0:...C.;{.&{..j....\..j.....*
F99600	B59A9102	802447E0	B4669104	80244770	B46658C0	202006C0	50C02020	41C00001	*..j....\..j.....{...{&{...{.*
F99620	5EC02030	50C02030	47F0B466	47F0B5FE	957F7000	4780B5FE	4100406C	1B110A08	*;{.&{...0...0..n"... ..%0...*
F99640	18F01812	05EF4100	406C0A09	92417000	9508200D	4770B5F4	D500200F	B6DE4770	*.0.....%0..k...n.....4N.....*
F99660	B5F4D200	7001B6C8	47F0B196	D2007001	B6C947F0	B19658D0	407898EC	D00C07FE	*.4K....H..oK....I..o..} .q.}...*
F99680	41180000	410000CC	11110A37	47F0B5FE	58C04078	D203C018	204047F0	B5FE9160	*.....0...{ ..K...{...0..j-*
F996A0	802B4780	B6369602	40BE47F0	B5FE5000	20241850	D2032040	500041C0	203C50C0	*.....o. ..0.....&K...&..{..&{*
F996C0	202412FF	4780B658	960240BE	47F0B5FE	94FD40BE	47F0B5FE	91808024	47E0B68A	*.....o. ..0..m. ..0..j....\..*
F996E0	91408024	4770B68A	91108024	47E0B68A	D5034148	41344780	B68A927F	700047F0	*j .....j....\..N.....k"...0.*
F99700	B1969242	700047F0	B1960000	00F99094	00F992B2	00F99630	00F99676	00F99690	*.ok....0..o...9.m.9k..9o..9o..9o.*
F99720	00F9969E	07FE0004	000847F0	00000001	FFFFFFFC	41200000	00000008	4770C746	*.9o.....0.....G.*
F99740	01020304	080C1014	1C202428	04080C10	14181C20	24282C30	34404448	4C505458	*.....<&...*
F99760	5C606468	6C707478	84888C90	94989CA4	A8ACB0B4	B8BCC0C4	C8CCD001	02030405	**--.%0..dh..mq.uy....{DH.}....*
F99780	06070809	0A0B0C0D	0E0F1011	12131415	16171819	1A1B1C1D	1E1F2021	22232425	*.....*
F997A0	26272829	2A2B2C2D	2E2F3031	32333435	36373839	3A3B3C3D	3E3F4041	42434445	*.....*
F997C0	46474849	4A4B4C4D	4E4F5051	52535455	56575859	5A5B5C5D	5E5F6061	62636465	*...Ö.<(+*&.....!\$*);^-/....*
F997E0	66676869	6A6B6C6D	6E6F7071	72737475	76777879	7A7B7C7D	7E7F8081	82838485	*... ,%>?.....\:#@'=".abcde*
F99800	86878889	8A8B8C8D	8E8F9091	92939495	96979899	9A9B9C9D	9E9FA0A1	A2A3A4A5	*fghi.....jklmnopqr.....~stuv*
F99820	A6A7A8A9	DAEEFF0F	F1F2F3F4	F5F6F7F8	F9FAFF9F	FDFFFF0F	080C1014	18000102	*wxyz...0123456789.....*
F99840	03040500	00404040	40404040	40404040	40404040	40404040	40404040	40404040	*.....*
F99860	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	*.....*

LINE F99880 SAME AS ABOVE

F998A0 40404040 40404040 40000000 00000000

\* ..... \*

SP 000

0A4EC0 00000000 000A4F98 000C3DE8 FF0A5DEC 000A7750 000A7AA8  
0A4EE0 FF0A4FE0 800A4FE6 009B0634 000A4FFA 00000000 000A4F98 00000014 00014008  
0A4F00 000A4EC8 000A4FE0 009BCE38 400A5D5C 000AC000 00000000 080A4F4C 00000000  
0A4F20 0000004E 20000000 00000000 00000000 00000000 00000000 00000000  
0A4F40 00000000 0000003C 00000000 809BC048 0099DA58 C8C5E6D3 D6C1C440 00000014  
0A4F60 00000000 00000000 00000000 00000000 000000CA 00000000 800A4F7C 00000000  
0A4F80 00000000 00000000 00000000 00000000 00000000 00000000 00000000  
0A4FA0 000A4EC8 00014058 000A5D48 009BCBE0 000A4FE0 00000040 009B0634 009B0610  
0A4FC0 009BC7B0 0098B018 FD000000 009BC9F8 809BC710 00000000 009BCE38 40E94B9A  
0A4FE0 800A4FE6 00000014 D4C1D76B D7D9C9D5 E36BD5D6 C3C1D3D3 6BD3C5E3 00000000

\* .....\*q...Y...)....&...:y\*  
\*...x\...xW.....x.....\*q.....\*  
\*...+H...x\....)\*)\*...{.....x<....\*  
\*...+.....\*  
\*.....{..r..HEWLOAD ....\*  
\*.....\*  
\*.....\*  
\*...+H... ..)....\...\*\.... ..\*  
\*..G...q.....I8..G..... Z...\*  
\*..xW....MAP,PRINT,NOCALL,LET....\*

0AC780 065D4040 007D0000 40F0C1F4 C6C3F040  
0AC7A0 4040F0F0 F9C2C3F7 C2F040F0 F0F9F8C2 F0F1F840 C6C4F0F0 F0F0F0F0 40F0F0F9  
0AC7C0 C2C3F9C6 F8404040 40F8F0F9 C2C3F7F1 F040F0F0 F0F0F0F0 F0F040F0 F0F9C2C3  
0AC7E0 C5F3F840 F4F0C5F9 F4C2F9C1 4040405C 4B4BC74B 4B984B4B 4B4B4B4B 4B4BC9F8  
0AC800 4B4BC74B 4B4B4B4B 4B4B4B4B 40E94B9A 5C007D00 0040F0C1 F4C6C5F0 404040F8  
0AC820 F0F0C1F4 C6C5F640 F0F0F0F0 F0F0F1F4 40C4F4C3 F1C4F7F6 C240C4F7 C4F9C3F9  
0AC840 C4F54040 4040C5F3 F6C2C4F5 C4F640C3 F3C3F1C4 F3C4F340 F6C2C4F3 C3F5C5F3  
0AC860 40F0F0F0 F0F0F0F0 F0404040 5C4B4B4F E64B4B4B 4BD4C1D7 6BD7D9C9 D5E36BD5  
0AC880 D6C3C1D3 D36BD3C5 E34B4B4B 4B5C007D 0000F0F0 C1C3F7F8 F0404040 40404040  
0AC8A0 40404040 40404040 40404040 40404040 40404040 40404040 40404040  
0AC8C0 404040F0 F6F5C4F4 F0F4F040 F0F0F7C4 F0F0F0F0 40F4F0C6 F0C3F1C6 F440C3F6  
0AC8E0 C3F3C6F0 F4F04040 405C4040 40404040 40404040 40404040 40404B5D 40404B7D  
0AC900 4B4B40F0 C1F4C6C3 F0405C00 7D000040 F0C1C3F7 C1F04040 40F4F0F4 F0C6F0C6  
0AC920 F040C6F9 C3F2C3F3 C6F740C3 F2C6F0F4 F0C6F040 C6F0C6F9 C6F8C3F2 40404040  
0AC940 C6F0C6F1 C6F8F4F0 40C3F6C3 F4C6F0C6 F040C6F0 C6F0C6F0 C6F040F4 F0C6F0C6  
0AC960 F0C3F640 40405CC6 F0C6F1C6 F8F4F040 C3F6C3F4 C6F0C6F0 40C6F0C6 F0C6F0C6  
0AC980 F040F4F0 C6F0C6C5 007D0000 40F0C1C3 F9F6F0F4 4040C6F0 C3F3C6F6 F4F040F4  
0AC9A0 F0F4F0F5 C3C3F640 C6F0C3F6 C6F1C3F6 40C6F8C6 F4C6F0F4 F0404040 40C3F3C6  
0AC9C0 F6C3F3C6 F440C3F6 C6F0C3F6 C6F040F4 F0C3F6C6 F0C3F640 C6F0C3F6  
0AC9E0 4040405C F0C3F640 40405CC6 F0C6F1C6 F8F4F040 404040C6 C3F6C3F4 C6F0C6F0 40C6F0C6  
0ACA00 F0C6F0C6 5C007D00 0040F0C1 C3F9F8F0 404040C6 F0F4F0C6 F4C6F040 C3F6C6F0  
0ACA20 C3F6F5C3 40F0F0F7 C4F0F0F0 F040F4F0 C6F0C3F1 C3F34040 4040C6F9 C6F6C6F0  
0ACA40 F4F040F4 F0F4F0C3 F6C6F040 C3F3C6F3 C3F6C6F6 40C6F4C6 F0F4F0C6 F4404040  
0ACA60 5CF040F4 F0C6F0C6 5C4B7D4B 4B40F0C1 C3F9F6F0 404040C6 F0C3F3C6 F6F4F040  
0ACA80 F45C007D 000040F0 C1C3F9C1 F0404040 C6F0C6F4 C6F0C6F5 40C3F3C3 F3C6F6F4  
0ACAA0 F040C3F6 C6F0C3F3 C6F640C3 F6C6F1C3 F3C6F640 404040F4 F0C3F6C6 F8C3F640  
0ACAC0 C6F4C3F6 C6F0C6F4 40C6F0F4 F0F4F0F4 F040F4F0 C3F3C6F3 C3F64040 405CF0F4  
0ACAE0 F0F5C3C3 F640C6F0 C3F6C6F1 C3F640C6 F8C6F4C6 F0F4F040 404040C3 F3C65C00  
0ACB00 7D000040 F0C1C3F9 C3F04040 40C6F6C3 F3C6F0C3 F640C6F4 F4F0C3F3 C6F640C3  
0ACB20 F6C6F0C3 F3C6F640 C3F6C6F0 F4F0C6F4 40404040 C6F0C3F3 C6F6C3F6 40C6F0C3  
0ACB40 F3C6F6F4 F040C3F6 C6F0C3F3 C6F640C3 F6C6F0C3 F3C6F640 40405CF6 C3F3C6F4  
0ACB60 40C3F6C6 F0C3F6C6 F040F4F0 C3F6C6F0 C3F640C6 F0C3F6C6 F0C3F65C 007D0000  
0ACB80 40F0C1C3 F9C5F040 4040F4F0 F4F0F4F0 F5C040C6 F0F4F0C6 F6F4F040 F4F0F4F0  
0ACBA0 C6F4C6F0 40C6F4C6 F0C6F4C6 F0404040 40C6F5C3 F3F4F0C3 F640C6F0 C3F3C6F3  
0ACBC0 C3F640C6 F6C6F4C6 F0F4F040 C6F4C6F0 C6F4C6F0 4040405C 40F0C1C3 F9C5F040  
0ACBE0 4040F4F0 F4F0F4F0 F5C340C6 F0C3F3C6 F6F4F040 F4F0F4F0 5C007D00 0040F0C1  
0ACC00 C3C2C1F0 404040C3 F6C6F4C3 F6C6F040 F4F0C3F6 C6F4C3F6 40C6F0C3 F6C6F4C3  
0ACC20 F640C6F0 F4F0F4F0 F4F04040 4040F4F0 C3F6C6F5 C3F340C6 F3C6F4C6 F0C3F340  
0ACC40 C6F6F4F0 C3F6C6F0 40C3F3C6 F3C3F6C6 F3404040 5CC6F4C6 F040C6F4 C6F0C6F4  
0ACC60 C6F04040 4040C6F5 C3F3F4F0 C3F640C6 F0C3F3C6 F35C007D 000040F0 C1C3C2C3  
0ACC80 F0404040 C3F3C6F6 F4F0C3F6 40C6F6C3 F6C6F4C3 F640C6F0 C6F4C6F0 F4F040C3

\* .....) .'. 0A4FC0 \*  
\* 009BC7B0 0098B018 FD000000 009BC\*  
\*BC9F8 809BC710 00000000 009BC\*  
\*E38 40E94B9A \*..G...q.....I8\*  
\*..G..... Z...\*'. 0A4FE0 8\*  
\*00A4FE6 00000014 D4C1D76B D7D9C9\*  
\*D5 E36BD5D6 C3C1D3D3 6BD3C5E3\*  
\* 00000000 \*..xW....MAP,PRINT,N\*  
\*OCALL,LET....\*'. 00AC780 \*  
\* .....\*  
\* 065D4040 007D0000 40F0C1F4 C6\*  
\*C3F040 \* .....)'\*  
\*.. 0A4FC0 \*'. 0AC7A0 4040F0F\*  
\*0 F9C2C3F7 C2F040F0 F0F9F8C2 \*  
\*F0F1F840 C6C4F0F0 F0F0F0F0 40F0F\*  
\*0C6 \*F0F1F840 C6C4F0F0 F0F0F0F\*  
\*0 40F0F\*'. 0AC960 F0C3F640 4\*  
\*0405CC6 F0C6F1C6 F8F4F040 C3F\*  
\*6C3F4 C6F0C6F0 40C6F0C6 F0C6F0C6\*  
\* \*0C6 \*F0F1F840 C6C4F0F0 F0F\*  
\*0F0F\*'. 0AC980 F040F4F0 C6F0\*  
\*C65C 007D0000 40F0C1C3 F9F6F0\*  
\*40 4040C6F0 C3F3C6F6 F4F040F4 \*  
\*\*0 40F0F\*'. 0AC960 F0C3F640 \*  
\*4\*'. 0AC9A0 F0F4F0F5 C3C3F64\*  
\*0 C6F0C3F6 C6F1C3F6 40C6F8C6 \*  
\*F4C6F0F4 F0404040 40C3F3C6 \*04\*  
\*05CC6 F0C6F1C6 F8F4F040 C3F\*.\*  
\*'. 0AC9C0 F6C3F3C6 F440C3F6 C\*  
\*6F0C3F6 C6F040F4 F0C3F6C6 F0C\*  
\*3F640 C6F0C3F6 C6F0C3F6 \*6C3F4\*  
\* C6F0C6F0 40C6F0C6 F0C6F0C6\*'. \*  
\* 0AC9E0 4040405C F0C3F640 4040\*  
\*F4F0 F4F0F4F0 F5C340C6 F0C3F3\*  
\*C6 F6F4F040 F4F0F4F0 \* 0AC9E0 \*  
\* 4040405C F0C3F640 4040\*'. 0A\*  
\*CBA0 C6F4C6F0 40C6F4C6 F0C6F4C\*  
\*6 F0404040 40C6F5C3 F3F4F0C3 \*  
\*F640C6F0 C3F3C6F3 \*F4F0 F4F0F4\*  
\*F0 F5C340C6 F0C3F3\*'. 0ACBC\*  
\*0 C3F640C6 F6C6F4C6 F0F4F040 C\*

0ACCA0	F6C6F4C3	F6C6F040	404040C3	F6C6F4C3	F6C6F040	F4F0F4F0	F4F0F5C3	40F4F0C6	*6F4C6F0	C6F4C6F0	4040405C	40F*	
0ACCC0	F0C3F1C3	F340C6F9	C3F5C6F0	F4F04040	405CC3F6	40C6F6C6	F4C6F0F4	F040C6F4	*0C1C3	F9C5F040	*C6	F6F4F040	F4*
0ACCE0	C6F0C6F4	C6F04040	405C40F0	C1C3F9C5	F0405C00	7D000040	F0C1C3C2	C5F04040	*F0F4F0	* 0AC9E0	*.'..	0ACBE0	*
0ACD00	40F4F0F4	F0C6F4C6	F040C6F4	C6F0C6F4	C6F040C6	F5C3F3F4	F0C3F640	C6F0C3F3	* 4040F4F0	F4F0F4F0	F5C340C6	F0C3*	
0ACD20	C6F3C3F6	40404040	C6F6C6F4	C6F0F4F0	40C6F4C6	F0C6F4C6	F040F5C3	F0F0F7C4	*F3C6	F6F4F040	F4F0F4F0	5C007D*	
0ACD40	F0F040F0	F0F4F0C6	F0C3F140	40405C40	40F4F0F4	F0F4F0F5	C340C6F0	C3F3C6F6	*00	0040F0C1	* 4040405C	F0C3F6*	
0ACD60	F4F0F4F0	F4F0F5C3	40C6F0C3	F3C6F65C	007D0000	40F0C1C3	C3F0F040	4040C3F3	*4040405C	F0C3F6*	'..	0ACC00	C3*
0ACD80	C6F0C6F4	C6F040C6	F4C6F0C6	F5C3F340	F4F0C3F6	C6F0C3F3	40C6F3C3	F6C6F6F5	*F0F4F0	F4F0F5C3	40C6F0C3	F3C6F65*	
0ACDA0	C3404040	40F0F0F7	C4F0F0F0	F040F4F0	C6F0C3F1	C3F340C3	F3C6F0C6	F0F4F040	*C	007D0000	40F0C1C3	C3F0F040	*
0ACDC0	F4F0F4F0	C3F3C6F3	4040405C	F4F0F4F0	F4F0F5C3	40C6F0C3	F3C6F65C	4B7D4B4B	*4040C3F3	*4040405C	F0C3F6*	'..*	
0ACDE0	40F0C1C3	C3F0F040	4040C3F3	5C003A00	7F000000	00200000	0099BE68	000AC790	* 0ACC00	C3*..."	.....r....	G.*	
0ACE00	00000000	007D0000	00000000	0099DE48	00004040	40DB61D8	00F9903A	00000020	*.....'	.....r....	./Q.9	.....*	
0ACE20	000ACDF0	000ACE08	000AC790	000AC794	000ACDF0	00DB6C36	0099D230	00000020	*...0.....	G...Gm...0..%	0.rK.....*		
0ACE40	000ACDF0	00014058	0099D351	50DB6024	000ACE50	40000000	00000000	000ACE54	*...0..	..rL.&-....&	.....*		
0ACE60	00000000	00000000	00000000	0099BE68	A000004C	00000000	00F5BA9C	52000000	*.....r.....	<.....5	.....*		
0ACE80	00000000	00000000	2A540008	00000000	00000000	00000000	00400041	00999610	*.....r.....	...ro.*			
0ACEA0	92000000	000ACD9C	00000000	0660007D	00000000	00000000	00000000	C9C7C7F0	*k.....-	..'.....IGG0*			
0ACEC0	F1F9C1C8	00000000	000ACE08	00000000	50F99528	00000000	00000001	000ACF10	*19AH.....	&9n.....*			
0ACEE0	000ACF10	000AC790	000ACE50	000ACDF0	00000079	000ACDF0	0099BE68	00000004	*.....G....	&...0...`	0.r.....*		
0ACF00	0000007D	40F99078	00000078	00000000	0000014C	00000000	40000000	00000200	*.../'	9.....<.....*			
0ACF20	00000000	000ACD74	000ACE70	00000000	000ACD75	00000000	20000000	00000000	*.....r.....	.....*			
0ACF40	00000078	00000079	00000000	000000A8	03000004	00000000	000ACF6C	000ACE50	*.....\	.....y.....%	0..&*		
0ACF60	00000000	000ACDF0	00000000	00000000	00000000	00000000	00000000	00000000	*.....0	.....*			
0ACF80	00000000	0000007D	00000000	00000000	00000000	00000000	00000000	000ACE70	*.....'	.....*			
0ACFA0	08000000	00000000	04000000	00000000	00000000	00000000	00000000	00000000	*.....r.....	.....*			
0ACFC0	00000000	00014058	000AC010	000A4F54	000A4F78	800A4F7C	000AC010	000A4FFA	*.....	{...x...x...x@..	{...x...*		
0ACFE0	FFFFFFFF	000A4F98	000000FF	00000000	000A4EC8	000A4FE0	000AC000	400A5D5C	*.....xq	.....+H..x\	{..})**		

DUMP INDEX

-----

DATA AREAS	PAGE NUMBER
-----	-----
DATA MANAGEMENT CONTROL BLOCKS.....	0003
RTM CONTROL BLOCKS.....	0003
SAVE AREAS.....	0006
INSTALLATION/SUBSYSTEM AREAS.....	0006
REGISTERS.....	0006
MODULES.....	0007
USER SUBPOOLS.....	0009

END OF DUMP



JOB MANASM STEP GO TIME 014448 DATE 21058 ID = 002 CPUID = 000006113033 PAGE 0001

COMPLETION CODE USER = 0000

PSW AT ENTRY TO ABEND 078D0000 00000026 ILC 2 INTC 0001

ASCB 00FF9478

+0	ASCB	C1E2C3C2	FWDP	00000000	BWDP	00FE3530	CMSF	00000000	SVRB	009BE7A8	SYNC	00000884
+18	IOSP	00000000	SPL	00FF9548	CPUS	00000001	IDSQ	000A0007	IODP	000E0076	STOR	0FC34C00
+30	LDA	009BF548	RSM	00FF9388	CSCB	00FEC010	TSB	00000000	EJST	00000000	XJST	03B90B00
+48	EWST	D9556F9D	XWST	DC841040	JSTL	0000023C	ECB	809BEE58	UBET	00000000	RESV	00000000
+60	DUMP	009BE3A0	FW1	FFFF0000	TMCH	00000000	ASXB	009BF300	SWCT	04F90000	SSRB	00000000
+78	VSC	0000000E	TCBS	00000001	LOCK	00000000	LSQH	00000000	QECB	00000000	MECB	40000000
+90	OUCB	00FF9878	OUXB	00FF9CA0	FMCT	00290000	XMPQ	00000000	IQEA	00000000	RTWA	00000000
+A8	MCC	00000000	JBNI	00FE3110	JBNS	00FEC020	SRQ	00000000	VGTT	00000000	PCTT	00000000
+C0	SMCT	00000007	SWTL	00000D69	SRBT	00000000	ATME	00CD9480				

TCB 99DCF8

+0	RBP	009BC048	PIE	00000000	DEB	00000000	TIO	0098B020	CMP	00000000	TRN	00000000
+18	MSS	009BC4F0	PK-FLG	80000000	FLG	8000FFFF	LLS	00000000	JLB	00000000	JPQ	0099DBA0
	RG 0-7	00000001	000A4F4C	800A4F7C	000AC010	000A4FFA	FFFFFFFF	000A4F98	000000FF			
	RG 8-15	00000000	000A4EC8	000A4FE0	000AC000	400A5D5C	000A4EC8	0000004E	60017A40			
+70	FSA	000A4F98	TCB	0099DA58	TME	00000000	JST	0099DCF8	NTC	00000000	OTC	009BC7B0
+88	LTC	0099DA58	IQE	00000000	ECB	009BCA1C	TSF	00000000	D-PQE	009BF548	AQE	0099DA30
+A0	STAB	00000000	TCT	809BC710	USER	00000000	SDF	00000000	MDID	00000000	JSCB	009BC85C
+B8	RESV	00000000	IOBRC	00000000	XCPD	00000000	EXT	00000000	BITS	00000000	DAR	00000000
+D0	EXT2	0099DE20	AECB	00000000	TIRB	00000000	BAK	009BC7B0	RTMWA	00000000	IOTM	00000000
+E8	TMSAV	00000000	ABCR	00000000	XSCT	00000040	FOE	00000000	SWA	009BC340	STAW	00000000
+100	BID	E3C3C240	RTM1	00000000	ESTA	00000000	UKY	009BC450	CPVI	0000FFFF	BYT1	00040000
+118	RPT	00000000	DBTB	00000000	SWAS	009B9F50	SCB	00000000	RESV	00000000	RESV	00000000
EXT2	GTF	00000000	SVAB	00000000	EVNT	00000000	RES	00000000	RESV	00000000	RESV	00000000

ACTIVE RBS

PRB 9BC048	RESV	00000000	RESV	00000000	RTPSW1	00000000	00000000	RTPSW2	00000000	00000000	
	FLG1	40000000	WC-L-IC	00020001							
	RESV	00000000	APSW	00000000	SZ-STAB	00110082		FL-CDE	009BCDF0	PSW	078D1000 000A5ED8
	Q/TTR	00000000	WT-LNK	0199DCF8							
	RG 0-7	009BCBE0	000A4FE0	00000040	009B0634	009B0610	009BC7B0	0098B018	FD000000		
	RG 8-15	009BC9F8	809BC710	00000000	009BCE38	40E94B9A	000A4F98	40E94F36	009BCA28		

CDE

9BCDF0	NCDE	00000000	RBP	009BC048	NM	LOADER	EPA	000A5D48	XL/MJ	009BE4F8	USE	00010000	ATTR	0B22000
--------	------	----------	-----	----------	----	--------	-----	----------	-------	----------	-----	----------	------	---------

XL				LN		ADR		LN		ADR		LN		ADR
----	--	--	--	----	--	-----	--	----	--	-----	--	----	--	-----

9BE4F8	SZ	00000010	NO	00000001	800002B8	000A5D48								
--------	----	----------	----	----------	----------	----------	--	--	--	--	--	--	--	--

TIOT 98B020 JOB MANASM STEP GO

OFFSET	LN-STA	DDNAME	TTR-ST	STB-UC
+ 0018	14010100	SYSLIN	99FB8000	90002B48
+ 002C	14010102	SYSLOUT	99F7C000	80000000
+ 0040	14010102	SYSUDUMP	99F64000	80000000

VSM

SPQE	009BC4F0	NSPQE	009BC410	DQE	00000000	FL/RS	2000	SPID	078	KEY	8
SPQE	009BC410	NSPQE	009BC400	DQE	00000000	FL/RS	0000	SPID	252	KEY	0
SPQE	009BC400	NSPQE	009BF060	DQE	009BF438	FL/RS	0000	SPID	251	KEY	8
DQE	9BF438	FQE	9BC510	NDQE	000000	BLK	000A5000	LN	00001000	FQE	9BC510
SPQE	009BF060	NSPQE	00000000	DQE	009BF100	FL/RS	C000	SPID	000	KEY	8
SPQE	009BF100	NSPQE	00000000	DQE	009BC520	FL/RS	6000	SPID	000	KEY	8
DQE	9BC520	FQE	9BC4A0	NDQE	9BC480	BLK	000A4000	LN	00001000	FQE	9BC4A0
DQE	9BC480	FQE	9BC4D0	NDQE	000000	BLK	000AC000	LN	00001000	FQE	9BC4D0

D-PQE 9BF548                    FIRST 009BF418

PQE	9BF418	FFB	009BC420	LFB	009BC350	NPQ	00000000	PPQ	00000000
		TCB	009BC7B0	RSI	0091C000	RAD	000A4000	FLG	00000000
FBQE	9BC420	NFB	009BC3D0	PFB	009BF418	SZ	00006000	AREA	000A6000
FBQE	9BC3D0	NFB	009BC350	PFB	009BC420	SZ	008DE000	AREA	000AD000
FBQE	9BC350	NFB	009BF418	PFB	009BC3D0	SZ	00001000	AREA	00994000

\*\*\*TCB SUMMARY\*\*\*

TCB AT	9BD148	CMP	00000000	PKF-FLG	00000080	DSP	0000FFFF	SDY	00000000	RTM	00000000	FBYT	00000000
TCB AT	9BE3A0	CMP	00000000	PKF-FLG	00000080	DSP	0000FFFF	SDY	00000000	RTM	00000000	FBYT	00040000
TCB AT	9BE150	CMP	00000000	PKF-FLG	00000080	DSP	0000FFFF	SDY	00000000	RTM	00000000	FBYT	00040000
TCB AT	9BC7B0	CMP	00000000	PKF-FLG	80000000	DSP	0000FFFF	SDY	00000000	RTM	00000000	FBYT	00040000
TCB AT	99DCF8	CMP	00000000	PKF-FLG	80000000	DSP	8000FFFF	SDY	00000000	RTM	00000000	FBYT	00040000
TCB AT	99DA58	CMP	900C1000	PKF-FLG	80030000	DSP	0000FFFF	SDY	00000000	RTM	0099D660	FBYT	08000000

QCB TRACE

MAJ	FFF3F8	NMAJ	00FFFF398	PMAJ	00000000	FMIN	00FFF470	LMIN	00FFF470	NM	SYSIEA01
MIN	FFF470	NMIN	00000000	PMIN	00000000	FQEL	00FFF488	LQEL	00FFF488	FLID	0320000A
		NQEL	00000000	PQEL	00000000	TCB	0099DA58	FLID	2800000A	SVRB	009BE6E0
MAJ	FFF338	NMAJ	00000000	PMAJ	00FFFF398	FMIN	00FE30D0	LMIN	00FFEF08	NM	SYSDSN
MIN	FE30D0	NMIN	00FE3180	PMIN	00000000	FQEL	00FFF440	LQEL	00FFF440	FLID	24800000
		NQEL	00000000	PQEL	00000000	TCB	009BC7B0	FLID	2800000A	SVRB	009BE5F0
MIN	FE3180	NMIN	00FE3408	PMIN	00FE30D0	FQEL	00FFF3B0	LQEL	00FFF3B0	FLID	24800000
		NQEL	00000000	PQEL	00000000	TCB	009BC7B0	FLID	2800000A	SVRB	009BE5F0
MIN	FE3408	NMIN	00FE3690	PMIN	00FE3180	FQEL	00FFF4D0	LQEL	00FFF4D0	FLID	24800000
		NQEL	00000000	PQEL	00000000	TCB	009BC7B0	FLID	2800000A	SVRB	009BE5F0
MIN	FE3690	NMIN	00FFEF30	PMIN	00FE3408	FQEL	00FFF4E8	LQEL	00FFF4E8	FLID	24800000
		NQEL	00000000	PQEL	00000000	TCB	009BC7B0	FLID	2800000A	SVRB	009BE5F0

SAVE AREA TRACE

LOADER WAS ENTERED VIA LINK AT EP HEWLCTRL

SA	0A4F98	WD1	00000000	HSA	00000000	LSA	000A4EC8	RET	00014058	EPA	000A5D48	R0	009BCBE0
		R1	000A4FE0	R2	00000040	R3	009B0634	R4	009B0610	R5	009BC7B0	R6	0098B018
		R7	FD000000	R8	009BC9F8	R9	809BC710	R10	00000000	R11	009BCE38	R12	40E94B9A
SA	0A4EC8	WD1	00000000	HSA	000A4F98	LSA	000C3DE8	RET	FF0A5DEC	EPA	000A7750	R0	000A7AA8
		R1	FF0A4FE0	R2	800A4FE6	R3	009B0634	R4	000A4FFA	R5	00000000	R6	000A4F98
		R7	00000014	R8	00014008	R9	000A4EC8	R10	000A4FE0	R11	009BCE38	R12	400A5D5C

INTERRUPT AT 0A5ED8

NO ACDEB AND ASSOCIATED RDT AND FMCBS

ADDRESS FOR CRA NOT AVAILABLE

VSAM JSCBSHR 9BC920 000004

9BC920 00000000

\* . . . .

\*

NO VSAM VGTT CHAIN PRESENT FOR THIS ASCB

END OF VSAM DATA

REGS AT ENTRY TO SNAP

FLTR 0-6	0000000000000000	0000000000000000	0000000000000000	0000000000000000
REGS 0-7	00000001 000A4F4C	800A4F7C 000AC010	000A4FFA FFFFFFFF	000A4F98 000000FF
REGS 8-15	00000000 000A4EC8	000A4FE0 000AC000	400A5D5C 000A4EC8	0000004E 60017A40

DUMP INDEX

-----

DATA AREAS	PAGE NUMBER
-----	-----
DEBS.....	0002
RTM CONTROL BLOCKS.....	0003
SAVE AREAS.....	0003
INSTALLATION/SUBSYSTEM AREAS.....	0003
REGISTERS.....	0003

END OF DUMP

```

      MM      MM  AAAAAAAAAA  NN      NN  AAAAAAAAAA  SSSSSSSSSS  MM      MM
      MMM      MMM  AAAAAAAAAAAA  NNN      NN  AAAAAAAAAAAA  SSSSSSSSSSSS  MMM      MMM
      MMMM      MMMM  AA      AA  NNNN      NN  AA      AA  SS      SS  MMMM      MMMM
      MM MM  MM MM  AA      AA  NN NN      NN  AA      AA  SS      SS  MM MM  MM MM
      MM MMMM  MM  AA      AA  NN NN      NN  AA      AA  SSS      SSS  MM MMMM  MM
      MM  MM  MM  AAAAAAAAAAAA  NN  NN  NN  AAAAAAAAAAAA  SSSSSSSSS  MM  MM  MM
      MM      MM  AAAAAAAAAAAA  NN  NN  NN  AAAAAAAAAAAA  SSSSSSSSS  MM      MM
      MM      MM  AA      AA  NN  NN  NN  AA      AA      SSS  MM      MM
      MM      MM  AA      AA  NN  NNNN  AA      AA      SS  MM      MM
      MM      MM  AA      AA  NN  NNN  AA      AA  SS      SS  MM      MM
      MM      MM  AA      AA  NN  NN  AA      AA  SSSSSSSSSSSS  MM      MM
      MM      MM  AA      AA  NN  N  AA      AA  SSSSSSSSSS  MM      MM

```

```

JJJJJJJJJJ      11      2222222222  9999999999      AAAAAAAAAA
JJJJJJJJJJ      111      22222222222  999999999999      AAAAAAAAAAAAAA
JJ      1111      22      22  99      99      AA      AA
JJ      11      22  99      99      AA      AA
JJ      11      22  99      99      AA      AA
JJ      11      22  999999999999      AAAAAAAAAAAAAA
JJ      11      22  999999999999      AAAAAAAAAAAAAA
JJ      11      22      99      AA      AA
JJ JJ      11      22      99      AA      AA
JJ JJ      11      22      99      AA      AA
JJJJJJJJJJ      1111111111  22222222222  999999999999      AA      AA
JJJJJJ      1111111111  22222222222  9999999999      AA      AA

```

```

****A  END  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  END  A****
****A  END  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  END  A****
****A  END  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  END  A****
****A  END  JOB  129  MANASM      ROOM      1.44.48 AM 27 FEB 21  PRINTER1  SYS TK4-  JOB  129  END  A****

```