

# OPTIONS

## LEVEL

### V2.M01

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Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SysterM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(OPTIONS)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131246.RA000.T10PT.OBJECT
SYSPRINT	JES2.JOB09267.S00102
SYSUT1	SYS12230.T131246.RA000.T10PT.SYSUT1
SYSUT2	SYS12230.T131246.RA000.T10PT.SYSUT2
SYSUT3	SYS12230.T131246.RA000.T10PT.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.12
2	*					00002001
3	*				COMPILER OPTIONS FOR THE ALGOL F COMPILER ARE SPECIFIED	00003001
4	*				IN THE STAGE 1 SYSGEN MACRO ALGOL	00004001
5	*					00005001
6	*				THE OUTPUT FROM STAGE 1 SYSGEN IS AN ASSEMBLY STEP	00006001
7	*				INVOKING MACRO SGIEX001 WITH THE APPROPRIATE MACRO	00007001
8	*				PARAMETERS PASSED TO IT FROM THE GLOBAL VARIABLES SET BY	00008001
9	*				THE STAGE 1 ALGOL MACRO	00009001
10	*					00010001
11	*				REFER TO THE MVT 21.8 SYSTEM GENERATION MANUAL FOR ALGOL	00011001
12	*				MACRO SPECIFICATIONS	00012001
13	*					00013001
14	*				THE STAGE 2 PROCESS FOR ALGOL IS THE ASSEMBLY OF	00014001
15	*				SGIEX001 TO GENERATE CSECT IEX00001 WHICH IS LATER LINK	00015001
16	*				EDITED WITH IEX00000 TO PRODUCE THE LOAD MODULE ALGOL	00016001
17	*				WHICH IS THE POINT OF INVOCATION FOR THE COMPILER	00017001
18	*					00018001
19	*				TO AVOID THE COMPLEXITY OF RUNNING A STAGE 1 SYSGEN AND	00019001
20	*				EDITING OUT ONLY THE STAGE 2 STEPS TO GENERATE THE	00020001
21	*				ALGOL COMPILER OPTIONS, THE 2 MACROS HAVE BEEN COMBINED	00021001
22	*				INTO AN ASSEMBLY. A SEPARATE LINK EDIT JOB SUBSEQUENTLY	00022001
23	*				BUILDS ALL THE COMPILER LOAD MODULES.	00023001
24	*					00024001
25	*				*****	00025001
26	*					00026001
27	*				SYSGEN GLOBAL FLAGS UTILIZED BY THE MACROS	00027001
28	*					00028001
29	*				*****	00029001
30	*					00030001
31					GBLB &SGALGOB(5)	00031001
32					GBLA &SGALGOA(1)	00032001
33					GBLB &SGQUITB	00033001
34	*					00034001
35	*				*****	00035001
36	*					00036001
37	*				ALGOL - REFER TO MVT RELEASE 21.8 SYSGEN MANUAL	00037001
38	*					00038001
39	*				GC28-6554-13 OS SYSTEM GENERATION RELEASE 21.8	00039001
40	*					00040001
41	*				*****	00041001
42	*					00042001
43					ALGOL SIZE=262144, PUNCH=NODECK, TYPERUN=LOAD, SORCODE=EBCDIC, SORLIST=SOURCE, PRECISN=SHORT	X00043001 X00044001 X00045001 X00046001 X00047001 00048001
44	*,				PUNCH OPTION IS NODECK	01-ALGOL
45	*,				TYPERUN OPTION IS LOAD	01-ALGOL
46	*,				SORCODE OPTION IS EBCDIC	01-ALGOL
47	*,				SORLIST OPTION IS SOURCE	01-ALGOL
48	*,				SIZE SPECIFIED IS 262144 BYTES OF MAIN STORAGE	01-ALGOL
49	*,				PRECISN OPTION IS SHORT	01-ALGOL
51	*					00050001
52	*				*****	00051001
53	*					00052001
54	*				SGIEX001 - STAGE 2 MACRO TO ASSEMBLE OPTIONS CSECT IEX00001	00053001
55	*					00054001
56	*				*****	00055001
57	*					00056001
58					SGIEX001 &SGALGOB(5),&SGALGOB(4),&SGALGOB(2),&SGALGOB(1), &SGALGOB(3),&SGALGOA(1)	X00057001 00058001

Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.12

60+\* 01-SGIX  
61+\* 01-SGIX COMPONENT ID - 360S-AL-531 ALGOL F COMPILER  
62+\* 01-SGIX  
63+\* 01-SGIX FUNCTION/OPERATION -  
64+\* 01-SGIX THIS MODULE IS A COLLECTION OF DATA AND WORKING STORAGE  
65+\* 01-SGIX WHICH MUST BE READILY ACCESSIBLE TO MORE THAN ONE  
66+\* 01-SGIX COMPILER PHASE  
67+\* 01-SGIX  
68+\* 01-SGIX R13 -> THIS MODULE DURING THE ENTIRE COMPILATION  
69+\* 01-SGIX  
70+\* 01-SGIX ENTRY POINTS - N/A  
71+\* 01-SGIX  
72+\* 01-SGIX INPUT - N/A  
73+\* 01-SGIX  
74+\* 01-SGIX OUTPUT - N/A  
75+\* 01-SGIX  
76+\* 01-SGIX EXTERNAL ROUTINES - N/A  
77+\* 01-SGIX  
78+\* 01-SGIX EXITS - NORMAL - N/A  
79+\* 01-SGIX  
80+\* 01-SGIX EXITS - ERROR - N/A  
81+\* 01-SGIX  
82+\* 01-SGIX TABLES/WORK AREAS -  
83+\* 01-SGIX THE FOLLOWING AREAS ARE PERMANENTLY ASSIGNED DURING THE  
84+\* 01-SGIX WHOLE COMPILATION -  
85+\* 01-SGIX 1. SAVEAREA, REGISTER SAVEAREA IN THE STANDARD FORMAT  
86+\* 01-SGIX 2. DCBTABLE, DCB ADDRS FOR ALL DATASETS USED  
87+\* 01-SGIX 3. STARTING AT EODUT1, END OF DATA EXIT ADDRESSES FOR  
88+\* 01-SGIX SYSUT1, SYSUT2, SYSUT3 AND SYSIN  
89+\* 01-SGIX 4. COMPFGLS, FOUR BYTES WITH VARIOUS SWITCHES AND  
90+\* 01-SGIX INDICATORS FOR CONTROLLING THE PROGRAM FLOW  
91+\* 01-SGIX  
92+\* 01-SGIX ALLOCATION OF THE BIT POSITIONS IN COMPFGLS -  
93+\* 01-SGIX  
94+\* 01-SGIX PURPOSE POSITION  
95+\* 01-SGIX BYTE 1 BYTE 2 BYTE 3  
96+\* 01-SGIX 01234567 01234567 01234567  
97+\* 01-SGIX  
98+\* 01-SGIX COMPMODE (SYNTAX CHECK) X  
99+\* 01-SGIX SUBSCRIPT OPTIMIZATION X  
100+\* 01-SGIX WARNING ERROR X  
101+\* 01-SGIX SERIOUS ERROR X  
102+\* 01-SGIX TERMINATING ERROR X  
103+\* 01-SGIX PROCEDURE/PROGRAM X  
104+\* 01-SGIX LONG/SHORT PRECISION X  
105+\* 01-SGIX OPERAND X  
106+\* 01-SGIX  
107+\* 01-SGIX NOSOURCE/SOURCE X  
108+\* 01-SGIX NOLOAD/LOAD X  
109+\* 01-SGIX NODECK/DECK X  
110+\* 01-SGIX ISO/EBCDIC X  
111+\* 01-SGIX PROGRAM INTERRUPT X  
112+\* 01-SGIX TERMINATING PHASE ENTERED X  
113+\* 01-SGIX NO BUFFERS ASSIGNED X  
114+\* 01-SGIX NO COMPILATION POSSIBLE X  
115+\* 01-SGIX  
116+\* 01-SGIX SYSPRINT DOWN X  
117+\* 01-SGIX WHOLE SOURCE PROG IN CORE X  
118+\* 01-SGIX NO OPTAB X  
119+\* 01-SGIX SYSPRINT NOT OPENED X  
120+\* 01-SGIX ERROR UNRELATED TO SEMICOLON NR X  
121+\* 01-SGIX NOTE/TEST (SC COUNT IN CODE, NOT SYSGEN OPT) X  
122+\* 01-SGIX 60 CHARACTER SET X  
123+\* 01-SGIX (RESERVED) X  
124+\* 01-SGIX  
125+\* 01-SGIX 5. STARTING AT SIZE, MISC CONTROL INFORMATION  
126+\* 01-SGIX 6. STARTING AT ERRPOOL, ADDR POINTERS TO THE ERROR  
127+\* 01-SGIX POOL AND THE SOURCE PROGRAM BUFFER 1  
128+\* 01-SGIX 7. STARTING AT INBLKS, A TABLE OF THE LENGTHS OF I/O  
129+\* 01-SGIX BUFFERS AND OTHER AREAS  
130+\* 01-SGIX 8. PAGEHEAD, THREE HEADLINES TO BE PRINTED AT THE TOP  
131+\* 01-SGIX OF EVERY PAGE  
132+\* 01-SGIX  
133+\* 01-SGIX THE FOLLOWING AREAS ARE USED ONLY DURING CERTAIN PHASES  
134+\* 01-SGIX OF THE COMPILATION, AS INDICATED IN THE ASSEMBLY  
135+\* 01-SGIX LISTING. FOR THIS REASON, SOME OF THEM OVERLAY EACH  
136+\* 01-SGIX OTHER, AND ANY SPACE NOT RESERVED DURING A CERTAIN PHASE  
137+\* 01-SGIX MAY BE USED AS WORKING SPACE BY THAT PHASE  
138+\* 01-SGIX  
139+\* 01-SGIX 9. PRELPOOL, A PRELIMINARY ERROR POOL USED DURING THE  
140+\* 01-SGIX FIRST PART OF THE INITIALIZATION PHASE  
141+\* 01-SGIX 10. DCB FOR SYSIN  
142+\* 01-SGIX 11. PBTAB2, PBTAB1, FSTAB, TABLES USED BY CERTAIN  
143+\* 01-SGIX PHASES  
144+\* 01-SGIX 12. DCB FOR SYSUT1  
145+\* 01-SGIX 13. SPTAB, GPTAB, TABLES USED BY SCAN I/II AND SCAN  
146+\* 01-SGIX III  
147+\* 01-SGIX  
148+\* 01-SGIX THE REMAINING SPACE UP TO 4K IS USED AS WORKING  
149+\* 01-SGIX STORAGE  
150+\* 01-SGIX  
151+\* 01-SGIX NOTES -  
152+\* 01-SGIX THIS MODULE IS ASSEMBLED AT SYSTEM GENERATION TIME THE  
153+\* 01-SGIX OPTION SWITCHES IN COMPFGLS ARE INITIALIZED TO REFLECT  
154+\* 01-SGIX THE DESIRED DEFAULT OPTIONS. THE ASSEMBLED MODULE IS  
155+\* 01-SGIX LINKAGE EDITED WITH THE MODULE IEX00000 TO FORM THE

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				156+*		RESIDENT PART OF THE COMPILER DIRECTORY	01-SGIEIX
				157+*			01-SGIEIX
				158+*		THIS MODULE IS MAPPED BY THE DSECT WORKAREA. ANY CHANGES	01-SGIEIX
				159+*		MUST ALSO BE REFLECTED IN THE WORKAREA DSECT	01-SGIEIX
				160+*			01-SGIEIX
000000		00000	00DA7	161+IEX00001	CSECT		01-SGIEIX
				162+*			01-SGIEIX
				163+	EXTRN	IEX00SYN, IEX00ED1, IEX00EDI	01-SGIEIX
				164+*			01-SGIEIX
000000	0000000000000000			165+SAVEAREA	DC	18F'0'	01-SGIEIX
				166+*			01-SGIEIX
				167+*	DCB	ADDRS	01-SGIEIX
				168+*			01-SGIEIX
000048				169+DCBTABLE	DC	0F'0'	01-SGIEIX
000048	00000000			170+ALINDCB	DC	V(IEX00LIN)	01-SGIEIX
00004C	00000000			171+	DC	A(0)	01-SGIEIX
000050	00000000			172+	DC	A(0)	01-SGIEIX
000054	00000000			173+	DC	A(0)	01-SGIEIX
000058	00000418			174+ASYSDCB	DC	A(SYSIN)	01-SGIEIX
00005C	00000000			175+APRTDCB	DC	V(IEX00PRT)	01-SGIEIX
000060	00000000			176+APCHDCB	DC	V(IEX00PCH)	01-SGIEIX
000064	00000578			177+AUT1DCB	DC	A(SYSUT1)	01-SGIEIX
000068	00000000			178+AUT2DCB	DC	V(IEX00UT2)	01-SGIEIX
00006C	00000000			179+AUT3DCB	DC	V(IEX00UT3)	01-SGIEIX
				180+*			01-SGIEIX
				181+*		END OF DATA EXIT ADDRS	01-SGIEIX
				182+*			01-SGIEIX
000070	00000000			183+EODUT1	DC	A(0)	01-SGIEIX
000074	00000000			184+EODUT2	DC	A(0)	01-SGIEIX
000078	00000000			185+EODUT3	DC	A(0)	01-SGIEIX
00007C	00000000			186+EODIN	DC	A(0)	01-SGIEIX
				187+*			01-SGIEIX
				188+*		OPTION SWITCHES IN COMPFLGS SET BY SYSGEN OPTIONS	01-SGIEIX
				189+*			01-SGIEIX
000080	00220000			190+COMPFLGS	DC	BL2'0000100010', BL2'0'	01-SGIEIX
				191+*			01-SGIEIX
				192+*		OPTION SWITCHES IN COMPFLGS	01-SGIEIX
				193+*			01-SGIEIX
		000FB		194+PGR	EQU	X'FB'	01-SGIEIX
		00004		195+PROC	EQU	X'04'	01-SGIEIX
				196+*			01-SGIEIX
		000FD		197+SHRT	EQU	X'FD'	01-SGIEIX
		00002		198+LNG	EQU	X'02'	01-SGIEIX
				199+*			01-SGIEIX
		00001		200+OPERAND	EQU	X'01'	01-SGIEIX
		00080		201+COMPMODE	EQU	X'80'	01-SGIEIX
				202+*			01-SGIEIX
				203+*		ERROR SEVERITY INDICATORS IN COMPFLGS	01-SGIEIX
				204+*			01-SGIEIX
		00020		205+WERR	EQU	X'20'	01-SGIEIX
		00010		206+SERR	EQU	X'10'	01-SGIEIX
		00008		207+TERR	EQU	X'08'	01-SGIEIX
				208+*			01-SGIEIX
				209+*		OPTION SWITCHES IN COMPFLGS+1	01-SGIEIX
				210+*			01-SGIEIX
		0007F		211+SRCE	EQU	X'7F'	01-SGIEIX
		00080		212+NSRCE	EQU	X'80'	01-SGIEIX
				213+*			01-SGIEIX
		000BF		214+LOAD	EQU	X'BF'	01-SGIEIX
		00040		215+NLOAD	EQU	X'40'	01-SGIEIX
				216+*			01-SGIEIX
		000DF		217+DECK	EQU	X'DF'	01-SGIEIX
		00020		218+NDECK	EQU	X'20'	01-SGIEIX
				219+*			01-SGIEIX
		000EF		220+EBCDIC	EQU	X'EF'	01-SGIEIX
		00010		221+ISO	EQU	X'10'	01-SGIEIX
				222+*			01-SGIEIX
				223+*		TERMINATION SWITCHES IN COMPFLGS+1	01-SGIEIX
				224+*			01-SGIEIX
		00008		225+ERR	EQU	X'08'	01-SGIEIX
		00004		226+TERM	EQU	X'04'	01-SGIEIX
		00002		227+NOBUF	EQU	X'02'	01-SGIEIX
		00001		228+NOGO	EQU	X'01'	01-SGIEIX
		00003		229+NOBUNOGO	EQU	X'03'	01-SGIEIX
				230+*			01-SGIEIX
				231+*		SWITCES IN COMPFLGS+2	01-SGIEIX
				232+*			01-SGIEIX
		00080		233+PRT	EQU	X'80'	01-SGIEIX
		00040		234+SPIC	EQU	X'40'	01-SGIEIX
		00020		235+NOPT	EQU	X'20'	01-SGIEIX
		00010		236+PRTNO	EQU	X'10'	01-SGIEIX
		00008		237+NOSC	EQU	X'08'	01-SGIEIX
		00004		238+NOTEST	EQU	X'04'	01-SGIEIX
		000FB		239+TEST	EQU	X'FB'	01-SGIEIX
		00002		240+SET60	EQU	X'02'	01-SGIEIX
				241+*			01-SGIEIX
				242+*		MISCELLANEOUS CONTROL INFORMATION	01-SGIEIX
				243+*			01-SGIEIX
000084	00040000			244+SIZE	DC	F'262144'	01-SGIEIX
000088	00000000			245+PICAADD	DC	V(IEX00PIC)	01-SGIEIX
00008C	00000000			246+HDING	DC	F'0'	01-SGIEIX
000090	00000000			247+ERET	DC	F'0'	01-SGIEIX
				248+*			01-SGIEIX
000094	0000000C			249+PAGECNT	DC	PL4'0'	01-SGIEIX
000098	0000			250+LINCNT	DC	H'0'	01-SGIEIX
00009A	0038			251+MAXLINES	DC	H'56'	01-SGIEIX

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00009C	0000			252+SEMCNT	DC	H'0'	SEMICOLON COUNTER 01-SGIX
00009E	0032			253+PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER 01-SGIX
0000A0	0000			254+KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER 01-SGIX
		0001C		255+LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS 01-SGIX
		0006C		256+LATBEG	EQU	4*(LATNR-1)	01-SGIX
0000A2	006C			257+LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT 01-SGIX
0000A4	00000000			258+PRPT	DC	F'0'	PROGRAM POINTER 01-SGIX
0000A8	00000000			259+SAVOUTA	DC	F'0'	01-SGIX
0000AC	00000000			260+OUTAREA2	DC	F'0'	SYSPUNCH SAVE AREA 01-SGIX
0000B0	40404040			261+PIDENT	DC	CL4' '	PROGRAM IDENTIFICATION 01-SGIX
0000B4	0000000C			262+CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQ NUMBER 01-SGIX
0000B8	00000000			263+PRTRTADD	DC	V(IEX00PRI)	ADDR OF PRINT ROUTINE 01-SGIX
				264+*			01-SGIX
				265+*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	01-SGIX
				266+*			01-SGIX
0000BC	00000278			267+ERRPOOL	DC	A(PRELPOL)	FIRST BYTE OF PRELIMINARY ERROR POOL 01-SGIX
0000C0	00000278			268+NEXTERR	DC	A(PRELPOL)	NEXT FREE PLACE IN ERROR POOL 01-SGIX
0000C4	00000000			269+ENDPOOL	DC	A(0)	LAST BYTE OF ERROR POOL-23 01-SGIX
0000C8	00000000			270+SRCE1ADD	DC	A(0)	SOURCE PROGRAM BUFFER 1 01-SGIX
0000CC	00000000			271+SRCE1END	DC	A(0)	ADDR OF LAST BYTE+1 01-SGIX
0000D0	00000000			272+SULTSTRT	DC	F'0'	IDENT OF LAST ITAB RECORD 01-SGIX
				273+*			01-SGIX
				274+*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	01-SGIX
				275+*			01-SGIX
0000D4	0C80			276+INBLKS	DC	H'3200'	MAX BLKSIZE FOR SYSIN - NOT USED 01-SGIX
0000D6	0E38			277+PRTBLKS	DC	H'3640'	MAX BLKSIZE SYSPRINT - NOT USED 01-SGIX
0000D8	0C80			278+LINBLKS	DC	H'3200'	MAX BLKSIZE FOR SYSLIN - NOT USED 01-SGIX
0000DA	0C80			279+PCHBLKS	DC	H'3200'	MAX BLKSIZE FOR SYSPUNCH - NOT USED 01-SGIX
0000DC	000007D0			280+POOLS	DC	F'2000'	SIZE OF ERROR POOL 01-SGIX
0000E0	000007D0			281+SRCE1S	DC	F'2000'	SIZE OF SOURCE PROG BUFFERS 1 AND 2 01-SGIX
		000E0		282+SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4 01-SGIX
0000E4	00007FE0			283+ITAB10S	DC	F'32736'	SIZE OF ITAB FOR PHASE 10 01-SGIX
0000E8	000278D0			284+ITAB20S	DC	F'162000'	SIZE OF ITAB FOR PHASE 20 01-SGIX
0000EC	0000E290			285+ITAB30S	DC	F'58000'	SIZE OF ITAB FOR PHASE 30 01-SGIX
0000F0	0000E10			286+CRIDTABS	DC	F'3600'	SIZE OF CRIDTAB FOR PHASE 30 01-SGIX
0000F4	00000578			287+SUTAB30S	DC	F'1400'	SIZE OF SUTAB BUFFER OF PHASE 30 01-SGIX
0000F8	00000640			288+LVTAB30S	DC	F'1600'	SIZE OF LVTAB BUFFER FOR PHASE 30 01-SGIX
0000FC	00000700			289+OPTABS	DC	F'1792'	SIZE OF OPTAB BUFFERS 1 AND 2 01-SGIX
000100	00006400			290+SUTAB40S	DC	F'25600'	SIZE OF SUTAB IN PHASE 40 01-SGIX
000104	0000DAC0			291+LVTAB40S	DC	F'56000'	SIZE OF LVTAB IN PHASE 40 01-SGIX
000108	00001800			292+OOSTACKS	DC	F'6144'	SIZE OF OPERATOR/OPERAND STACK 01-SGIX
				293+*			01-SGIX
				294+*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	01-SGIX
				295+*		EACH NEW PAGE	01-SGIX
				296+*			01-SGIX
		0010C		297+PAGEHEAD	EQU	*	01-SGIX
00010C	4040404040404040			298+PAGEHD1	DC	CL121' '	FIRST HEADLINE 01-SGIX
000185		00185	0010C	299+	ORG	PAGEHD1	01-SGIX
00010C	40			300+PAGEHD1C	DC	C' '	ASA CNTL 01-SGIX
00010D	4040404040404040			301+	DC	CL10' '	SPACER 01-SGIX
000117	4040404040404040			302+PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING 01-SGIX
00017B		0017B	0017D	303+	ORG	PAGEHD1+113	01-SGIX
00017D	D7C1C7C5			304+PAGEHD1P	DC	CL4'PAGE'	PAGE 01-SGIX
000181	40404040			305+PAGENUMB	DC	CL4' '	PAGE COUNTER 01-SGIX
000185		00185	00185	306+	ORG		01-SGIX
				307+*			01-SGIX
000185	4040404040404040			308+PAGEHD2	DC	CL121' '	SECOND HEADLINE 01-SGIX
0001FE		001FE	00185	309+	ORG	PAGEHD2	01-SGIX
000185	40			310+PAGEHD2C	DC	C' '	ASA CNTL 01-SGIX
000186	4040404040404040			311+	DC	CL10' '	SPACER 01-SGIX
000190	4040404040404040			312+PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING 01-SGIX
0001F4		001F4	001FE	313+	ORG		01-SGIX
				314+*			01-SGIX
0001FE	4040404040404040			315+PAGEHD3	DC	CL121' '	THIRD HEADLINE 01-SGIX
000277		00277	001FE	316+	ORG	PAGEHD3	01-SGIX
0001FE	40			317+PAGEHD3C	DC	C' '	ASA CNTL 01-SGIX
0001FF	4040404040404040			318+	DC	CL10' '	SPACER 01-SGIX
000209	4040404040404040			319+PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING 01-SGIX
00026D		0026D	00277	320+	ORG		01-SGIX
				321+*			01-SGIX
				322+*		END OF STANDARD COMMON AREA	01-SGIX
				323+*			01-SGIX
		00277		324+STANDX	EQU	*	01-SGIX
				325+*			01-SGIX
				326+*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL	01-SGIX
				327+*		PHASES AND PARTLY OVERLAY EACH OTHER	01-SGIX
				328+*			01-SGIX
				329+*		NAME OR PURPOSE	01-SGIX
				330+*		NEEDED BY PHASES	01-SGIX
000277	00						
000278				331+	DC	0F'0'	01-SGIX
000278	4040404040404040			332+PRELPOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL IEX10 01-SGIX
000378		00378	00416	333+	ORG	PRELPOL+414	01-SGIX
				334+*			01-SGIX
				335+*		DCB FOR SYSIN	01-SGIX
				336+*			01-SGIX
				337+		PRINT NOGEN	01-SGIX
				393+		PRINT GEN	01-SGIX
				394+*			01-SGIX
000478		00478	00278	395+	ORG	PRELPOL	01-SGIX
000278				396+PBTAB2	DS	CL510	PROGR. BLOCK TABLE 2 20-50 01-SGIX
000478				397+	DS	0F	01-SGIX
000478				398+PBTAB1	DS	CL255	PROGR. BLOCK TABLE 1 11-20 01-SGIX
000577		00577	00478	399+	ORG	PBTAB1	01-SGIX
000478				400+FSTAB	DS	CL255	FOR STATEMENT TABLE 30-40 01-SGIX
				401+*		DCB FOR SYSUT1	11-30 01-SGIX

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17	13.12
				402+*				01-SGIX
				404+*				02-DCB
				405+*	DATA CONTROL BLOCK			02-DCB
000577 00				406+SYSUT1	DC 0F'0'	ORIGIN ON WORD BOUNDARY		02-DCB
000578				408+*		DIRECT ACCESS DEVICE INTERFACE		02-DCB
000578 0000000000000000				410+	DC BL16'0'	F0AD,DVTBL		02-DCB
000588 00000000				411+	DC A(0)	KEYLE,DEVT,TRBAL		02-DCB
				413+*		COMMON ACCESS METHOD INTERFACE		02-DCB
00058C 00				415+	DC AL1(0)	BUFNO		02-DCB
00058D 000001				416+	DC AL3(1)	BUFCB		02-DCB
000590 0000				417+	DC AL2(0)	BUFL		02-DCB
000592 4000				418+	DC BL2'0100000000000000'	DSORG		02-DCB
000594 00000001				419+	DC A(1)	IOBAD		02-DCB
				421+*		FOUNDATION EXTENSION		02-DCB
000598 00				423+	DC BL1'0000000'	BFTEK,BFLN,HIARCHY		02-DCB
000599 000000				424+	DC AL3(IEX00ED1)	EODAD		02-DCB
00059C 80				425+	DC BL1'1000000'	RECFM		02-DCB
00059D 000000				426+	DC AL3(0)	EXLST		02-DCB
				428+*		FOUNDATION BLOCK		02-DCB
0005A0 E2E8E2E4E3F14040				430+	DC CL8'SYSUT1'	DDNAME		02-DCB
0005A8 02				431+	DC BL1'00000010'	OFLGS		02-DCB
0005A9 00				432+	DC BL1'0000000'	IFLG		02-DCB
0005AA 2020				433+	DC BL2'0010000000100000'	MACR		02-DCB
				435+*		BSAM-BPAM-QSAM INTERFACE		02-DCB
0005AC 00				437+	DC BL1'0000000'		RER1	02-DCB
0005AD 000001				438+	DC AL3(1)	CHECK, GERR, PERR		02-DCB
0005B0 00000000				439+	DC A(IEX00SYN)	SYNAD		02-DCB
0005B4 0000				440+	DC H'0'	CIND1, CIND2		02-DCB
0005B6 0000				441+	DC AL2(0)	BLKSIZE		02-DCB
0005B8 00000000				442+	DC F'0'	WCPO, WCPL, OFFSR, OFFSW		02-DCB
0005BC 00000001				443+	DC A(1)	IOBA		02-DCB
0005C0 00				444+	DC AL1(0)	NCP		02-DCB
0005C1 000001				445+	DC AL3(1)	EOBR, EOBA		02-DCB
				447+*		BSAM-BPAM INTERFACE		02-DCB
0005C4 00000001				449+	DC A(1)	EOBW		02-DCB
0005C8 0000				450+	DC H'0'	DIRCT		02-DCB
0005CA 0000				451+	DC AL2(0)	LRECL		02-DCB
0005CC 00000001				452+	DC A(1)	CNTRL, NOTE, POINT		02-DCB
				453+*				01-SGIX
0005D0				454+	DS 0F			01-SGIX
0005D0				455+SPTAB	DS CL255	SCOPE TABLE	11-30	01-SGIX
0006D0				456+	DS 0F			01-SGIX
	006CD			457+GPTAB	EQU *-3	GROUP TABLE	11-30	01-SGIX
0006D0				458+	DS CL1510			01-SGIX
				459+*				01-SGIX
				460+*		END OF SYMLIB PART OF COMMON WORK AREA		01-SGIX
				461+*				01-SGIX
000CB6		00CB6	00DA6	462+	ORG STANDX+2863			01-SGIX
000DA6 F0				463+	DC C'0'			01-SGIX
				464+*				01-SGIX
				465	END			00059001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
IEX00EDI	1	00000000	00000004	T			163	360				
IEX00ED1	1	00000000	00000003	T			163	424				
IEX00LIN	1	00000000	00000005	T			170	170				
IEX00PCH	1	00000000	00000007	T			176	176				
IEX00PIC	1	00000000	0000000A	T			245	245				
IEX00PRI	1	00000000	0000000B	T			263	263				
IEX00PRT	1	00000000	00000006	T			175	175				
IEX00SYN	1	00000000	00000002	T			163	375	439			
IEX00UT2	1	00000000	00000008	T			178	178				
IEX00UT3	1	00000000	00000009	T			179	179				
LATBEG	1	0000006C		U			256	257				
LATNR	1	0000001C		U			255	256				
PAGEHD1	121	0000010C	00000001	C	C		298	299	303			
PAGEHD2	121	00000185	00000001	C	C		308	309				
PAGEHD3	121	000001FE	00000001	C	C		315	316				
PBTAB1	255	00000478	00000001	C	C		398	399				
PRELPOOL	1	00000278	00000001	C	C		332	267	268	333	395	
SRCE1S	4	000000E0	00000001	F	F		281	282				
STANDX	1	00000277	00000001	U			324	462				
SYSIN	4	00000418	00000001	F	F		342	174				
SYSUT1	4	00000578	00000001	F	F		406	177				



Con	Source	Members
-----	--------	---------

X390	3.1.04	2012/08/17	13.12
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1	SYS1.MACLIB	
	DCB	IHB01
2	SYSD.TOOLS.MACLIB	
3	SYSD.ALGOLF.ASM	
4	SYSD.ALGOLF.MACLIB	
	ALGOL	SGIEX001
5	SYSD.ALGOLFRT.MACLIB	
6	SYS1.AMODGEN	

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T10PT      STEPNAME: OPTIONS      PROCSTEP: X390

Primary input: lines      1 to      59 of SYSD.ALGOLF.ASM(OPTIONS)

SYSLIB library records read: 2267

SYSUT1 work file size: 40568 bytes

SYSUT2 work file size: 196488 bytes

SYSUT3 work file size: 4720 bytes

SYSLIN file records written: 36

TXA000I Return code 0, elapsed time 0.75 seconds.

Csect	Rel	Addr(hex)	Length(dec)
-------	-----	-----------	-------------

IEX00001		000378	158
----------	--	--------	-----

IEX00001		000478	255
----------	--	--------	-----

IEX00001		0005D0	2006
----------	--	--------	------

IEX00001		000DA7	1
----------	--	--------	---

**IEX00**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
Sysadata(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX00)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131247.RA000.T1X00.OBJECT
SYSPRINT	JES2.JOB09268.S00102
SYSUT1	SYS12230.T131247.RA000.T1X00.SYSUT1
SYSUT2	SYS12230.T131247.RA000.T1X00.SYSUT2
SYSUT3	SYS12230.T131247.RA000.T1X00.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.12
2	*					00002001
3	*				COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
4	*					00004001
5	*				FUNCTION/OPERATION -	00005001
6	*				THIS MODULE HAS TWO FUNCTIONS -	00006001
7	*				1. IT PROVIDES THE INITIAL ENTRY POINT TO AND FINAL	00007001
8	*				EXIT POINT FROM THE ALGOL COMPILER	00008001
9	*				2. IT CONTAINS ROUTINES AND DATA WHICH MAY BE NEEDED BY	00009001
10	*				SOME OR ALL OF THE FOLLOWING COMPILER PHASES	00010001
11	*					00011001
12	*				ENTRY POINTS -	00012001
13	*				IEX00000 - INITIAL ENTRY POINT. MAY BE ENTERED BY AN	00013001
14	*				JCL EXEC STATEMENT OR BY ANY ONE OF THE	00014001
15	*				MACROS LINK, CALL, XCTL OR ATTACH	00015001
16	*				IEX00PIC - PROGRAM INTERRUPT ROUTINE	00016001
17	*				IEX00ED1 - END OF DATA ROUTINE FOR SYSUT1	00017001
18	*				EODAD2 - END OF DATA ROUTINE FOR SYSUT2	00018001
19	*				EODAD3 - END OF DATA ROUTINE FOR SYSUT3	00019001
20	*				IEX00EDI - END OF DATA ROUTINE FOR SYSIN	00020001
21	*				(THE FOUR END OF DATA ROUTINES ABOVE ARE	00021001
22	*				DUMMIES WHICH ONLY TRANSFER CONTROL TO THE	00022001
23	*				ACTUAL ROUTINES, THE ADDRESSES OF WHICH HAVE	00023001
24	*				BEEN STORED IN THE COMMON WORK AREA)	00024001
25	*				IEX00SYN - SYNCHRONOUS ERROR ROUTINE FOR ALL DATA SETS	00025001
26	*				EXCEPT SYSPRINT	00026001
27	*				SYNPR - SYNCHRONOUS ERROR ROUTINE FOR SYSPRINT	00027001
28	*				IEX00PRI - A COMMON SUBROUTINE FOR WRITING OUTPUT TO	00028001
29	*				SYSPRINT	00029001
30	*					00030001
31	*				INPUT - N/A	00031001
32	*					00032001
33	*				OUTPUT -	00033001
34	*				THE SUBROUTINE PRINT EXECUTES ALL OUTPUT OPERATIONS ON	00034001
35	*				SYSPRINT	00035001
36	*				RECORD LENGTH IS 121 BYTES WITH ASA CONTROL CHARACTERS	00036001
37	*					00037001
38	*				EXTERNAL ROUTINES -	00038001
39	*				IEX00001 - THE COMMON WORK AREA	00039001
40	*				THIS IS NOT AN EXECUTABLE ROUTINE BUT RATHER A	00040001
41	*				COLLECTION OF TABLES, DATA AND WORK AREAS WHICH ARE	00041001
42	*				NEEDED BY SOME OR ALL OF THE COMPILER PHASES, THUS	00042001
43	*				SUPPLEMENTING THE FUNCTION OF THIS MODULE. IT IS	00043001
44	*				ASSEMBLED SEPARATELY AND LINKAGE EDITED WITH THIS	00044001
45	*				MODULE. ITS CONTENTS AND FORMAT CAN BE FOUND IN THE	00045001
46	*				DUMMY CONTROL SECTION WORKAREA	00046001
47	*					00047001
48	*				IEX10000 - THE COMPILER INITIALIZATION PHASE	00048001
49	*				THE WHOLE CHAIN OF COMPILER PHASES STARTING WITH	00049001
50	*				IEX10000 AND ENDING WITH IEX51002 CAN BE REGARDED AS A	00050001
51	*				SUBROUTINE TO THIS MODULE. IT IS ENTERED BY A MACRO	00051001
52	*				LINK EP=IEX10000. ON ENTRY, R0 CONTAINS THE ADDRESS	00052001
53	*				OF THE COMMON WORK AREA. CONTROL IS FINALLY RETURNED TO	00053001
54	*				THIS MODULE FROM IEX51002 BY A RETURN MACRO WITH THE	00054001
55	*				COMPLETION CODE IN R15	00055001
56	*					00056001
57	*				EXITS - NORMAL -	00057001
58	*				THE FINAL EXIT FROM THE COMPILER IS BY A RETURN MACRO	00058001
59	*				TO THE INVOKING PROGRAM. R15 CONTAINS A RETURN	00059001
60	*				CODE TO INDICATE WHETHER THE COMPILATION WAS SUCCESSFUL	00060001
61	*				OR NOT	00061001
62	*					00062001
63	*				EXIT FROM THE SUBROUTINE PRINT IS BY A RETURN MACRO	00063001
64	*				R1 CONTAINS THE ADDR OF A BUFFER AREA INTO	00064001
65	*				WHICH THE NEXT OUTPUT LINE CAN BE MOVED	00065001
66	*					00066001
67	*				EXITS - ERRORS -	00067001
68	*				EXIT FROM THE COMMON ERROR ROUTINES PIROUT, SYNAD AND	00068001
69	*				SYNPR IS NORMALLY TO AN ERROR ROUTINE WHICH IS PRIVATE	00069001
70	*				TO EACH COMPILER PHASE. THE ADDR OF THIS ROUTINE HAS	00070001
71	*				BEEN STORED IN ERET IN THE COMMON WORK AREA. HOWEVER, IF	00071001
72	*				THE PIROUT ROUTINE IS ENTERED FOR THE SECOND TIME, EXIT	00072001
73	*				IS MADE TO THE ROUTINE GOTOEND IN THIS MODULE WHICH IN	00073001
74	*				ITS TURN XCTL'S TO THE TERMINATING PHASE IEX51002	00074001
75	*					00075001
76	*				EXIT FROM THE ROUTINES SYNAD AND SYNPR IS BY LOADING	00076001
77	*				ERET INTO R15 AND BRANCHING	00077001
78	*					00078001
79	*				EXIT FROM THE ROUTINE PIROUT IS BY MOVING THE RETURN	00079001
80	*				ADDRESS INTO THE OLD PSW AND EXECUTING A RETURN MACRO.	00080001
81	*					00081001
82	*				TABLES/WORK AREAS -	00082001
83	*				SAVE - THE SAVE AREA IN STANDARD FORMAT	00083001
84	*				IEX00PIC - THE PROGRAM INTERRUPT CONTROL AREA	00084001
85	*				SYSPRINT - DCB FOR SYSPRINT	00085001
86	*				SYSLIN - DCB FOR SYSLIN	00086001
87	*				SYSPPUNCH - DCB FOR SYSPPUNCH	00087001
88	*				SYSUT2 - DCB FOR SYSUT2	00088001
89	*				SYSUT3 - DCB FOR SYSUT3	00089001
90	*				WORKAREA - THE COMMON WORKAREA IN THE EXTERNAL CONTROL	00090001
91	*				SECTION IEX0001	00091001
92	*					00092001
93	*				ATTRIBUTES - NOT SERIALLY REUSABLE	00093001
94	*					00094001
95	*				NOTES -	00095001
96	*				THIS MODULE IS TO BE LINKAGE EDITED WITH THE COMMON	00096001
97	*				WORK AREA (MODULE IEX0001). THE RESULTING LOAD MODULE	00097001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17 13.12
				98 *	FORMS THE RESIDENT PART (IEX00) OF THE ALGOL COMPILER		00098001
				99 *			00099001
				100 *	THE OPERATION OF THIS MODULE DEPENDS UPON AN INTERNAL		00100001
				101 *	REPRESENTATION OF THE EXTERNAL CHARACTER SET WHICH IS		00101001
				102 *	EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME		00102001
				103 *			00103001
000000		00000	0049C	104	IEX00000 CSECT		00104001
				105 *			00105001
				106 *	BIT PATTERNS		00106001
				107 *			00107001
		000F0		108	ONSW EQU X'F0' ON SWITCH IN BRANCH INSTR		00108001
		0000F		109	OFFSW EQU X'0F' OFF SWITCH IN BRANCH INSTR		00109001
				110 *			00110001
				111 *	ENTRY POINTS		00111001
				112 *			00112001
				113	ENTRY IEX00LIN,IEX00PCH,IEX00PRT,IEX00OUT2,IEX00UT3		00113001
				114	ENTRY IEX00SYN,IEX00EDI,IEX00PIC,IEX00PRI		00114001
				115 *			00115001
	R:F	00000		116	USING IEX00000,R15		00116001
				117 *			00117001
				118	SAVE (14,12),, 'IEX00000 LEVEL 2.1 &SYSDATE &SYSTIME'		00118001
000000	47F0 F026		00026	119+	B 38(0,15) BRANCH AROUND ID		01-SAVE
000004	21			120+	DC AL1(33) LENGTH OF IDENTIFIER		01-SAVE
000005	C9C5E7F0F0F0F0F0			121+	DC CL32'IEX00000 LEVEL 2.1 08/17/12 13.1' IDENTIFIER		01-SAVE
000025	F2			122+	DC CL1'2' IDENTIFIER		01-SAVE
000026	90EC D00C		0000C	123+	STM 14,12,12(13) SAVE REGISTERS		01-SAVE
				124 *			00119001
00002A	4120 F064		00064	125	LA R2,SAVE		00120001
00002E	50D0 F068		00068	126	ST R13,SAVE+4		00121001
000032	5020 D008		00008	127	ST R2,8(R13)		00122001
000036	18D2			128	LR R13,R2		00123001
000038	5800 F0B0		000B0	129	L R0,-V(IEX00001) R0 -> COMMON WORKAREA		00124001
				130 *			00125001
				131	LINK EP=IEX10 LINK TO PHASE 10		00126001
00003C				132+	CNOP 0,4 02-IHBIN		00127001
00003C	45F0 F050		00050	133+	BAL 15,*+20 BRANCH AROUND CONSTANTS		02-IHBIN
000040	00000048			134+	DC A(*+8) ADDR. OF PARM. LIST		02-IHBIN
000044	00000000			135+	DC A(0) DCB ADDRESS PARAMETER		02-IHBIN
000048	C9C5E7F1F0404040			136+	DC CL8'IEX10' EP PARAMETER		02-IHBIN
000050	0A06			137+	SVC 6 ISSUE LINK SVC		01-LINK
				138 *			00127001
				139 *	TWO PARAMETERS ARE TRANSMITTED TO PHASE 10, R0		00128001
				140 *	CONTAINS THE ADDR OF THE COMMON WORKAREA, R1 CONTAINS		00129001
				141 *	THE ADDR OF THE PARAMETER LIST OF THE INVOKER		00130001
				142 *			00131001
				143 *	FINAL EXIT OF THE COMPILER		00132001
				144 *			00133001
				145 *	PHASE 51 GENERATED THE RETURN CODE IN R15		00134001
				146 *	THE RETURN CODE IS PASSED BACK TO THE INVOKER		00135001
				147 *			00136001
000052	05E0			148	BALR R14,0		00137001
		R:E	00054	149	USING *,R14		00138001
					** TXA533W USING range overlaps prior USING at statement 116.		
					** TXA301I Record 138 in SYSD.ALGOLF.ASM(IEX00)		
000054	58D0 E014		00068	150	L R13,SAVE+4		00139001
				151 *			00140001
				152	RETURN (14,12),RC=(15)		00141001
000058	58ED 000C		0000C	153+	L 14,12(13,0) RESTORE REGISTER 14		01-RETUR
00005C	980C D014		00014	154+	LM 0,12,20(13) RESTORE THE REGISTERS		01-RETUR
000060	07FE			155+	BR 14 RETURN		01-RETUR
				156 *			00142001
				157 *	SAVEAREA FOR THIS LEVEL OF CONTROL		00143001
				158 *			00144001
000062	0000						
000064	0000000000000000			159	SAVE DC 18F'0'		00145001
				160 *			00146001
0000B0				161	LTORG		00147001
0000B0	00000000			162	=V(IEX00001)		
				163 *			00148001
				164 *	THE FOLLOWING SECTION CONTAINS -		00149001
				165 *	THE PROGRAM INTERRUPT CONTROL AREA		00150001
				166 *	THE PROGRAM CHECK		00151001
				167 *	AND I/O ERROR ROUTINES		00152001
				168 *	THE PRINT ROUTINE AND THE DCBS FOR SYSLIN, SYSUNCH,		00153001
				169 *	SYSPRINT, SYSUT2 AND SYSUT3		00154001
				170 *			00155001
		R:D	00000	171	USING WORKAREA,R13		00156001
				172 *			00157001
				173 *	PROGRAM INTERRUPT CONTROL AREA		00158001
				174 *			00159001
				175	IEX00PIC SPIE PIROUT,((1,15)),MF=L		00160001
0000B4				176+	CNOP 0,4 ALIGN PICA TO FULLWORD BOUNDARY S		01-SPIE
0000B4	0F			177+	IEX00PIC DC BL1'00001111' PROGRAM MASKS		01-SPIE
0000B5	0000BA			178+	DC AL3(PIROUT) EXIT ROUTINE ADDRESS S		01-SPIE
0000B8	7FFF			179+	DC BL2'011111111111111' +01-SPIE		01-SPIE
				+	THE INTERRUPT MASK BYTES 1 AND 2		
				180 *			00161001
				181 *	PROGRAM INTERRUPT ROUTINE		00162001
				182 *			00163001
		R:F	000BA	183	USING *,R15		00164001
					** TXA533W USING range overlaps prior USING at statement 149.		
					** TXA301I Record 164 in SYSD.ALGOLF.ASM(IEX00)		
0000BA	9104 D081		00081	184	PIROUT TM COMPFLGS+1,TERM	PROG INTERRUPT IN	00165001
				185 *		TERMINATING PHASE ?	00166001
0000BE	4710 F07C		00136	186	BO TERMERR	YES, BRANCH	00167001
0000C2	9108 D081		00081	187	TM COMPFLGS+1,ERR		00168001

Active USINGS: IEX00000+X'BA',R15 WORKAREA,R13 IEX00000+X'54',R14

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0000C6	4710 F09A		00154	188	BO	ERRERR	PROG INTERRUPT IN ERROR RTN 00169001
0000CA	9047 F08A		00144	189	STM	R4, R7, PISAVE	SAVE REGISTERS 00170001
0000CE	5860 D0C0		000C0	190	L	R6, NEXTERR	ADDR OF NEXT BYTE IN ERROR POOL 00171001
0000D2	D201 6000	F206 00000	002C0	191	MVC	0(2,R6),=AL1(20,209)	PATTERN FOR MSG 209 00172001
0000D8	D201 6002	D09C 00002	0009C	192	MVC	2(2,R6),SEMCNT	SEMICOLON COUNTER 00173001
0000DE	9108 D082		00082	193	TM	COMPFLGS+2,NOSC	SEMICOLON COUNTER VALID ? 00174001
0000E2	4780 F030		000EA	194	BZ	*+8	YES, BRANCH 00175001
0000E6	9680 6000		00000	195	OI	0(R6),X'80'	INDICATE SCNTR NOT VALID 00176001
0000EA	1B77			196	SR	R7, R7	INITIALIZE INDEX 00177001
0000EC	5851 0004		00004	197	L	R5,4(R1)	FIRST HALF OF PSW 00178001
0000F0	1B44			198	SR	R4, R4	00179001
0000F2	8D40 0004		00004	199	SLDL	R4, 4	GET HALF A BYTE OF OLD PSW 00180001
0000F6	4247 6004		00004	200	STC	R4,4(R7,R6)	STORE FOR CONVERSION 00181001
0000FA	4177 0001		00001	201	LA	R7,1(R7)	INCREASE INDEX 00182001
0000FE	4970 F208		002C2	202	CH	R7,=H'8'	PERFORM LOOP 00183001
000102	4740 F036		000F0	203	BL	LOOP	EIGHT TIMES 00184001
000106	5850 1008		00008	204	L	R5,8(R1)	SECOND HALF OF PSW 00185001
00010A	1B44			205	SR	R4, R4	00186001
00010C	8D40 0004		00004	206	SLDL	R4, 4	GET HALF A BYTE OF OLD PSW 00187001
000110	4247 6004		00004	207	STC	R4,4(R7,R6)	STORE FOR CONVERSION 00188001
000114	4177 0001		00001	208	LA	R7,1(R7)	INCREASE INDEX 00189001
000118	4970 F20A		002C4	209	CH	R7,=H'16'	PERFORM LOOP 00190001
00011C	4740 F050		0010A	210	BL	LOOP2	EIGHT TIMES 00191001
000120	DC0F 6004	F1F6 00004	002B0	211	TR	4(16,R6),=C'0123456789ABCDEF'	TRANSLATE TO PRINTABLE HEX 00192001
000126	4166 0014		00014	212	LA	R6,20(R6)	UPDATE POINTER 00193001
00012A	5060 D0C0		000C0	213	ST	R6, NEXTERR	TO ERROR POOL 00194001
00012E	9608 D081		00081	214	OI	COMPFLGS+1,ERR	SET ERROR ROUT SWITCH ON 00195001
000132	9847 F08A		00144	215	LM	R4, R7, PISAVE	RESTORE REGISTERS 00196001
000136	D202 1009	D091 00009	00091	216	TERMERR MVC	9(3,R1),ERET+1	ADDR OF ERR RTN TO OLD PSW 00197001
00013C	9608 D080		00080	217	OI	COMPFLGS,TERR	INDICATE TERMINATING ERROR 00198001
				218	*		00199001
				219	RETURN		00200001
000140	07FE			220+	BR	14	RETURN 01-RETUR
				221	*		00201001
000142	0000						
000144	0000000000000000			222	PISAVE DC	4F'0'	REGISTER SAVE AREA 00202001
				223	*		00203001
000154	D202 1009	F20C 00009	002C6	224	ERRERR MVC	9(3,R1),=AL3(GOTOEND)	SET ADDR IN OLD PSW 00204001
				225	*		00205001
				226	RETURN		00206001
00015A	07FE			227+	BR	14	RETURN 01-RETUR
				228	*		00207001
				229	DROP	R15	00208001
00015C	05F0			230	GOTOEND BALR	R15,0	00209001
		R:F 0015E		231	USING	*,R15	00210001
				232	*		00211001
				233	XCTL	EP=IEX51002	GOTO TERMINATING PHASE 00212001
00015E	0700			234+	CNOP	0,4	02-IHBN 00213001
000160	45F0 F016		00174	235+	BAL	15,*+20	BRANCH AROUND CONSTANTS 02-IHBN
000164	0000016C			236+	DC	A(*+8)	ADDR. OF PARM. LIST 02-IHBN
000168	00000000			237+	DC	A(0)	DCB ADDRESS PARAMETER 02-IHBN
00016C	C9C5E7F5F1F0F0F2			238+	DC	CL8'IEX51002'	EP PARAMETER 02-IHBN
000174	0A07			239+	SVC	7	ISSUE XCTL SVC 01-XCTL
				240	*		00213001
				241	DROP	R15	00214001
				242	*		00215001
				243	*	ENTRY OF THE END OF DATA EXIT ROUTINES	00216001
				244	*		00217001
		00176		245	IEX00ED1 EQU	*	00218001
000176	58F0 D070		00070	246	EODAD1 L	R15,EODUT1	SYSUT1 00219001
00017A	07FF			247	BR	R15	00220001
				248	*		00221001
00017C	58F0 D074		00074	249	EODAD2 L	R15,EODUT2	SYSUT2 00222001
000180	07FF			250	BR	R15	00223001
				251	*		00224001
000182	58F0 D078		00078	252	EODAD3 L	R15,EODUT3	SYSUT3 00225001
000186	07FF			253	BR	R15	00226001
				254	*		00227001
		00188		255	IEX00EDI EQU	*	00228001
000188	58F0 D07C		0007C	256	EODADIN L	R15,EODIN	SYSIN 00229001
00018C	07FF			257	BR	R15	00230001
				258	*		00231001
				259	*		00232001
				260	*	SYNAD ROUTINE (ENTRY POINT FOR SYSPRINT)	00233001
				261	*		00234001
00018E	9680 D082		00082	262	SYNPR OI	COMPFLGS+2,PRT	SET SYSPRINT DOWN SWITCH ON 00235001
000192	05F0			263	BALR	R15,0	00236001
				264	*		00237001
				265	*	SYNAD ROUTINE	00238001
				266	*	FOR ALL DATA SETS EXCEPT SYSPRINT	00239001
				267	*		00240001
		R:F 00194		268	USING	*,R15	00241001
				269	IEX00SYN EQU	*	00242001
000194	4120 1000		00000	270	SYNAD LA	R2,0(,R1)	GET DCB ADDR 00243001
				271	*		00244001
				272	CLOSE	((R2))	00245001
000198				273+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-CLOSE
000198	4510 F00C		001A0	274+	BAL	1,*+8	LOAD REG1 W/LIST ADDR 01-CLOSE
00019C	00000000			275+	DC	A(0)	OPTION AND DCB ADDRESS 01-CLOSE
0001A0	5021 0000		00000	276+	ST	R2,0(1,0)	STORE DCB ADDRESS 01-CLOSE
0001A4	9280 1000		00000	277+	MVI	0(1),128	MOVE IN OPTION BYTE 01-CLOSE
0001A8	0A14			278+	SVC	20	ISSUE CLOSE SVC 01-CLOSE

\*\* TXA533W USING range overlaps prior USING at statement 149.

\*\* TXA301I Record 241 in SYSD.ALGOLF.ASM(IEX00)



Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.12
				279 *		00246001
				280	DROP R15	00247001
0001AA	05F0			281	BALR R15,0	00248001
	R:F 001AC			282	USING *,R15	00249001
** TXA533W USING range overlaps prior USING at statement 149.						
** TXA301I Record 249 in SYSD.ALGOLF.ASM(IEX00)						
0001AC	5830 D0C0		000C0	283	L R3,NEXTERR	00250001
0001B0	D201 3000 F034 00000 001E0			284	MVC 0(2,R3),PTTRN210	00251001
0001B6	D201 3002 D09C 00002 0009C			285	MVC 2(2,R3),SEMCNT	00252001
	R:2 00000			286	USING IHADCB,R2	00253001
0001BC	D207 3004 2028 00004 00028			287	MVC 4(8,R3),DCBDDNAM	00254001
				288	DROP R2	00255001
0001C2	4133 000C		0000C	289	LA R3,12(R3)	00256001
0001C6	5030 D0C0		000C0	290	ST R3,NEXTERR	00257001
0001CA	9608 D080		00080	291	OI COMPFGLS,TERR	00258001
0001CE	9180 D082		00082	292	TM COMPFGLS+2,PRT	00259001
0001D2	4780 F02E		001DA	293	BZ SYNADX	00260001
0001D6	984E F0B8		00264	294	LM R4,R14,SAVEP	00261001
0001DA	58F0 D090		00090	295	L R15,ERET	00262001
0001DE	07FF			296	BR R15	00263001
				297 *		00264001
0001E0	0CD2			298	PTTRN210 DC AL1(12),AL1(210)	00265001
				299 *		00266001
				300	DROP R15	00267001
				301 *		00268001
				302 *	PRINTS ONE LINE ON SYSPRINT	00269001
				303 *		00270001
				304 *	IT ALSO TAKES CARE OF LINE COUNTING, PAGE COUNTING AND	00271001
				305 *	PRINTING OF HEADING LINES AT THE TOP AF EACH NEW PAGE	00272001
				306 *		00273001
				307 *	CALLING SEQUENCE -	00274001
				308 *	L R15,PRTRTADD ENTRY ADDR IN CWA	00275001
				309 *	BALR R14,R15	00276001
				310 *		00277001
				311 *	ON RETURN, R1 -> PRINT BUFFER	00278001
				312 *		00279001
				313 *	GENERAL REGISTERS	00280001
				314 *		00281001
				315 *	R6 LINE COUNTER	00282001
				316 *	R12 SYSPRINT DCB ADDR	00283001
				317 *	R14 RETURN ADDR	00284001
				318 *		00285001
	R:F 001E2			319	USING IEX00PRI,R15	00286001
** TXA533W USING range overlaps prior USING at statement 149.						
** TXA301I Record 286 in SYSD.ALGOLF.ASM(IEX00)						
0001E2	90EC F08E		00270	320	IEX00PRI STM R14,R12,SAVEP+12	00287001
				321	DROP R15	00288001
0001E6	185F			322	LR R5,R15	00289001
	R:5 001E2			323	USING IEX00PRI,R5	00290001
** TXA533W USING range overlaps prior USING at statement 149.						
** TXA301I Record 290 in SYSD.ALGOLF.ASM(IEX00)						
0001E8	58C0 D05C		0005C	324	L R12,APRTDCB	00291001
0001EC	4860 D098		00098	325	LH R6,LINCNT	00292001
0001F0	4960 D09A		0009A	326	CH R6,MAXLINES	00293001
0001F4	47D0 5056		00238	327	BNH PRINTL	00294001
				328 *		00295001
				329 *	PRINT HEADINGS	00296001
				330 *		00297001
0001F8	FA30 D094 50E7 00094 002C9			331	AP PAGECNT,=P'1'	00298001
0001FE	D203 D181 50CA 00181 002AC			332	MVC PAGENUMB,PAGEPATT	00299001
000204	DE03 D181 D096 00181 00096			333	ED PAGENUMB,PAGECNT+2	00300001
				334 *		00301001
				335	NOPAGENO PUT (R12)	00302001
00020A	181C			336	+NOPAGENO LR 1,R12	02-IHBN
00020C	58F0 1030		00030	337	+ L 15,48(0,1)	01-PUT
000210	05EF			338	+ BALR 14,15	01-PUT
				339 *		00303001
000212	D278 1000 D10C 00000 0010C			340	MVC 0(L'PAGEHD1,R1),PAGEHD1	00304001
				341 *		00305001
				342	PUT (R12)	00306001
000218	181C			343	+ LR 1,R12	02-IHBN
00021A	58F0 1030		00030	344	+ L 15,48(0,1)	01-PUT
00021E	05EF			345	+ BALR 14,15	01-PUT
				346 *		00307001
000220	D278 1000 D185 00000 00185			347	MVC 0(L'PAGEHD2,R1),PAGEHD2	00308001
				348 *		00309001
				349	PUT (R12)	00310001
000226	181C			350	+ LR 1,R12	02-IHBN
000228	58F0 1030		00030	351	+ L 15,48(0,1)	01-PUT
00022C	05EF			352	+ BALR 14,15	01-PUT
				353 *		00311001
00022E	D278 1000 D1FE 00000 001FE			354	MVC 0(L'PAGEHD3,R1),PAGEHD3	00312001
000234	4160 0003		00003	355	LA R6,3	00313001
				356 *		00314001
				357	PRINTL PUT (R12)	00315001
000238	181C			358	+PRINTL LR 1,R12	02-IHBN
00023A	58F0 1030		00030	359	+ L 15,48(0,1)	01-PUT
00023E	05EF			360	+ BALR 14,15	01-PUT
				361 *		00316001
000240	9240 1000		00000	362	MVI 0(R1),C' '	00317001
000244	D277 1001 1000 00001 00000			363	MVC 1(120,R1),0(R1)	00318001
00024A	4110 100B		0000B	364	LA R1,11(R1)	00319001
00024E	4160 6001		00001	365	LA R6,1(R6)	00320001
000252	4060 D098		00098	366	STH R6,LINCNT	00321001
000256	98E0 508E		00270	367	LM R14,R0,SAVEP+12	00322001
00025A	982C 509E		00280	368	LM R2,R12,SAVEP+28	00323001

Active USINGS: IEX00000+X'1E2',R5 WORKAREA,R13 IEX00000+X'54',R14

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
00025E	1BFF			369	SR	R15,R15			00324001
000260	07FE			370	BR	R14			00325001
				371	*		RETURN TO CALLER		00326001
000262	0000								
000264	0000000000000000			372	SAVEP	DC 18F'0'	REG SAVE AREA		00327001
				373	*				00328001
0002AC	40202020			374	PAGEPATT	DC XL4'40202020'	PAGE NUMBER ED PATTERN		00329001
				375	*				00330001
0002B0				376	LTORG				00331001
0002B0	F0F1F2F3F4F5F6F7			377		=C'0123456789ABCDEF'			
0002C0	14D1			378		=AL1(20,209)			
0002C2	0008			379		=H'8'			
0002C4	0010			380		=H'16'			
0002C6	00015C			381		=AL3(GOTOEND)			
0002C9	1C			382		=P'1'			
				383	*				00332001
				384	*	PRINT NOGEN			00333001
				385	*				00334001
				386	*	DATA CONTROL BLOCKS			00335001
				387	*				00336001
				388	SYSPRINT	DCB DDNAME=SYSPRINT, DSORG=PS, MACRF=(PL), RECFM=FBA, LRECL=121, SYNAD=SYNPR			C00337001 C00338001 C00339001 C00340001 C00341001 00342001
				390+	*		DATA CONTROL BLOCK		01-DCB
				391+	*				01-DCB
0002CA	0000								
0002CC				392+	SYSPRINT	DC 0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				394+	*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
0002CC	0000000000000000			396+	DC	BL16'0'	FDAD,DVTBL		01-DCB
0002DC	00000000			397+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB
				399+	*		COMMON ACCESS METHOD INTERFACE		01-DCB
0002E0	00			401+	DC	AL1(0)	BUFNO		01-DCB
0002E1	000001			402+	DC	AL3(1)	BUFCB		01-DCB
0002E4	0000			403+	DC	AL2(0)	BUFL		01-DCB
0002E6	4000			404+	DC	BL2'0100000000000000'	DSORG		01-DCB
0002E8	00000001			405+	DC	A(1)	IOBAD		01-DCB
				407+	*		FOUNDATION EXTENSION		01-DCB
0002EC	00			409+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY		01-DCB
0002ED	000001			410+	DC	AL3(1)	EODAD		01-DCB
0002F0	94			411+	DC	BL1'10010100'	RECFM		01-DCB
0002F1	000000			412+	DC	AL3(0)	EXLST		01-DCB
				414+	*		FOUNDATION BLOCK		01-DCB
0002F4	E2E8E2D7D9C9D5E3			416+	DC	CL8'SYSPRINT'	DDNAME		01-DCB
0002FC	02			417+	DC	BL1'00000010'	OFLGS		01-DCB
0002FD	00			418+	DC	BL1'00000000'	IFLG		01-DCB
0002FE	0048			419+	DC	BL2'000000001001000'	MACR		01-DCB
				421+	*		BSAM-BPAM-QSAM INTERFACE		01-DCB
000300	00			423+	DC	BL1'00000000'		RER1	01-DCB
000301	000001			424+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
000304	0000018E			425+	DC	A(SYNPR)	SYNAD		01-DCB
000308	0000			426+	DC	H'0'	CIND1, CIND2		01-DCB
00030A	0000			427+	DC	AL2(0)	BLKSIZE		01-DCB
00030C	00000000			428+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
000310	00000001			429+	DC	A(1)	IOBA		01-DCB
000314	00			430+	DC	AL1(0)	NCP		01-DCB
000315	000001			431+	DC	AL3(1)	EOBR, EOBA		01-DCB
				433+	*		QSAM INTERFACE		01-DCB
000318	00000001			435+	DC	A(1)	RECAD		01-DCB
00031C	0000			436+	DC	H'0'	QSW		01-DCB
00031E	0079			437+	DC	AL2(121)	LRECL		01-DCB
000320	00			438+	DC	BL1'000000000'	EROPT		01-DCB
000321	000001			439+	DC	AL3(1)	CNTRL		01-DCB
000324	00000000			440+	DC	F'0'	PRECL		01-DCB
000328	00000001			441+	DC	A(1)	EOB		01-DCB
				442	*				00343001
				443	SYSLIN	DCB DDNAME=SYSLIN, DSORG=PS, MACRF=(PL), RECFM=FB, LRECL=80, SYNAD=SYNAD			C00344001 C00345001 C00346001 C00347001 C00348001 00349001
				445+	*		DATA CONTROL BLOCK		01-DCB
				446+	*				01-DCB
00032C				447+	SYSLIN	DC 0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				449+	*		DIRECT ACCESS DEVICE INTERFACE		01-DCB

Active USINGS: IEX00000+X'1E2',R5 WORKAREA,R13 IEX00000+X'54',R14

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
00032C	0000000000000000			451+	DC	BL16'0'	FDAD,DVTBL	01-DCB
00033C	00000000			452+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				454+*		COMMON ACCESS METHOD INTERFACE		01-DCB
000340	00			456+	DC	AL1(0)	BUFNO	01-DCB
000341	000001			457+	DC	AL3(1)	BUFCB	01-DCB
000344	0000			458+	DC	AL2(0)	BUFL	01-DCB
000346	4000			459+	DC	BL2'0100000000000000'	DSORG	01-DCB
000348	00000001			460+	DC	A(1)	IOBAD	01-DCB
				462+*		FOUNDATION EXTENSION		01-DCB
00034C	00			464+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY	01-DCB
00034D	000001			465+	DC	AL3(1)	EODAD	01-DCB
000350	90			466+	DC	BL1'10010000'	RECFM	01-DCB
000351	000000			467+	DC	AL3(0)	EXLST	01-DCB
				469+*		FOUNDATION BLOCK		01-DCB
000354	E2E8E2D3C9D54040			471+	DC	CL8'SYSLIN'	DDNAME	01-DCB
00035C	02			472+	DC	BL1'00000010'	OFLGS	01-DCB
00035D	00			473+	DC	BL1'00000000'	IFLG	01-DCB
00035E	0048			474+	DC	BL2'000000001001000'	MACR	01-DCB
				476+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
000360	00			478+	DC	BL1'00000000'		RER1 01-DCB
000361	000001			479+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000364	00000194			480+	DC	A(SYNAD)	SYNAD	01-DCB
000368	0000			481+	DC	H'0'	CIND1, CIND2	01-DCB
00036A	0000			482+	DC	AL2(0)	BLKSIZE	01-DCB
00036C	00000000			483+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
000370	00000001			484+	DC	A(1)	IOBA	01-DCB
000374	00			485+	DC	AL1(0)	NCP	01-DCB
000375	000001			486+	DC	AL3(1)	EOBR, EOBAD	01-DCB
				488+*		QSAM INTERFACE		01-DCB
000378	00000001			490+	DC	A(1)	RECAD	01-DCB
00037C	0000			491+	DC	H'0'	QSW	01-DCB
00037E	0050			492+	DC	AL2(80)	LRECL	01-DCB
000380	00			493+	DC	BL1'00000000'	EROPT	01-DCB
000381	000001			494+	DC	AL3(1)	CNTRL	01-DCB
000384	00000000			495+	DC	F'0'	PRECL	01-DCB
000388	00000001			496+	DC	A(1)	EOB	01-DCB
				497 *				00350001
				498	SYSPUNCH DCB	DDNAME=SYSPUNCH, DSORG=PS, MACRF=(PL), RECFM=FB, LRECL=80, SYNAD=SYNAD		C00351001 C00352001 C00353001 C00354001 C00355001 00356001
				500+*		DATA CONTROL BLOCK		01-DCB
				501+*				01-DCB
00038C				502+SYSPUNCH	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				504+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
00038C	0000000000000000			506+	DC	BL16'0'	FDAD,DVTBL	01-DCB
00039C	00000000			507+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				509+*		COMMON ACCESS METHOD INTERFACE		01-DCB
0003A0	00			511+	DC	AL1(0)	BUFNO	01-DCB
0003A1	000001			512+	DC	AL3(1)	BUFCB	01-DCB
0003A4	0000			513+	DC	AL2(0)	BUFL	01-DCB
0003A6	4000			514+	DC	BL2'0100000000000000'	DSORG	01-DCB
0003A8	00000001			515+	DC	A(1)	IOBAD	01-DCB
				517+*		FOUNDATION EXTENSION		01-DCB
0003AC	00			519+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY	01-DCB
0003AD	000001			520+	DC	AL3(1)	EODAD	01-DCB
0003B0	90			521+	DC	BL1'10010000'	RECFM	01-DCB
0003B1	000000			522+	DC	AL3(0)	EXLST	01-DCB
				524+*		FOUNDATION BLOCK		01-DCB
0003B4	E2E8E2D7E4D5C3C8			526+	DC	CL8'SYSPUNCH'	DDNAME	01-DCB
0003BC	02			527+	DC	BL1'00000010'	OFLGS	01-DCB
0003BD	00			528+	DC	BL1'00000000'	IFLG	01-DCB
0003BE	0048			529+	DC	BL2'000000001001000'	MACR	01-DCB
				531+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
0003C0	00			533+	DC	BL1'00000000'		RER1 01-DCB
0003C1	000001			534+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
0003C4	00000194			535+	DC	A(SYNAD)	SYNAD	01-DCB
0003C8	0000			536+	DC	H'0'	CIND1, CIND2	01-DCB
0003CA	0000			537+	DC	AL2(0)	BLKSIZE	01-DCB
0003CC	00000000			538+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
0003D0	00000001			539+	DC	A(1)	IOBA	01-DCB
0003D4	00			540+	DC	AL1(0)	NCP	01-DCB

Active USINGS: IEX00000+X'1E2',R5 WORKAREA,R13 IEX00000+X'54',R14

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
0003D5	000001			541+	DC	AL3(1) EOBR, EOBD			01-DCB
				543+*		QSAM INTERFACE			01-DCB
0003D8	00000001			545+	DC	A(1) RECAD			01-DCB
0003DC	0000			546+	DC	H'0' QSW			01-DCB
0003DE	0050			547+	DC	AL2(80) LRECL			01-DCB
0003E0	00			548+	DC	BL1'00000000' EROPT			01-DCB
0003E1	000001			549+	DC	AL3(1) CNTRL			01-DCB
0003E4	00000000			550+	DC	F'0' PRECL			01-DCB
0003E8	00000001			551+	DC	A(1) EOB			01-DCB
				552 *					00357001
				553 SYSUT2	DCB	DDNAME=SYSUT2, DSORG=PS, MACRF=(R,W), RECFM=F, SYNAD=SYNAD, EODAD=EODAD2			C00358001 C00359001 C00360001 C00361001 C00362001 00363001
				555+*		DATA CONTROL BLOCK			01-DCB
				556+*					01-DCB
0003EC				557+SYSUT2	DC	0F'0' ORIGIN ON WORD BOUNDARY			01-DCB
				559+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
0003EC	0000000000000000			561+	DC	BL16'0' FDAD,DVTBL			01-DCB
0003FC	00000000			562+	DC	A(0) KEYLE,DEVT,TRBAL			01-DCB
				564+*		COMMON ACCESS METHOD INTERFACE			01-DCB
000400	00			566+	DC	AL1(0) BUFNO			01-DCB
000401	000001			567+	DC	AL3(1) BUFCB			01-DCB
000404	0000			568+	DC	AL2(0) BUFL			01-DCB
000406	4000			569+	DC	BL2'0100000000000000' DSORG			01-DCB
000408	00000001			570+	DC	A(1) IOBAD			01-DCB
				572+*		FOUNDATION EXTENSION			01-DCB
00040C	00			574+	DC	BL1'00000000' BFTEK,BFLN,HIARCHY			01-DCB
00040D	00017C			575+	DC	AL3(EODAD2) EODAD			01-DCB
000410	80			576+	DC	BL1'10000000' RECFM			01-DCB
000411	000000			577+	DC	AL3(0) EXLST			01-DCB
				579+*		FOUNDATION BLOCK			01-DCB
000414	E2E8E2E4E3F24040			581+	DC	CL8'SYSUT2' DDNAME			01-DCB
00041C	02			582+	DC	BL1'00000010' OFLGS			01-DCB
00041D	00			583+	DC	BL1'00000000' IFLG			01-DCB
00041E	2020			584+	DC	BL2'0010000000100000' MACR			01-DCB
				586+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
000420	00			588+	DC	BL1'00000000' RER1			01-DCB
000421	000001			589+	DC	AL3(1) CHECK, GERR, PERR			01-DCB
000424	00000194			590+	DC	A(SYNAD) SYNAD			01-DCB
000428	0000			591+	DC	H'0' CIND1, CIND2			01-DCB
00042A	0000			592+	DC	AL2(0) BLKSIZE			01-DCB
00042C	00000000			593+	DC	F'0' WCPO, WCPL, OFFSR, OFFSW			01-DCB
000430	00000001			594+	DC	A(1) IOBA			01-DCB
000434	00			595+	DC	AL1(0) NCP			01-DCB
000435	000001			596+	DC	AL3(1) EOBR, EOBD			01-DCB
				598+*		BSAM-BPAM INTERFACE			01-DCB
000438	00000001			600+	DC	A(1) EOBW			01-DCB
00043C	0000			601+	DC	H'0' DIRCT			01-DCB
00043E	0000			602+	DC	AL2(0) LRECL			01-DCB
000440	00000001			603+	DC	A(1) CNTRL, NOTE, POINT			01-DCB
				604 *					00364001
				605 SYSUT3	DCB	DDNAME=SYSUT3, DSORG=PS, MACRF=(RP,WP), BLKSIZE=2000, RECFM=U, SYNAD=SYNAD, EODAD=EODAD3			C00365001 C00366001 C00367001 C00368001 C00369001 C00370001 00371001
				607+*		DATA CONTROL BLOCK			01-DCB
				608+*					01-DCB
000444				609+SYSUT3	DC	0F'0' ORIGIN ON WORD BOUNDARY			01-DCB
				611+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000444	0000000000000000			613+	DC	BL16'0' FDAD,DVTBL			01-DCB
000454	00000000			614+	DC	A(0) KEYLE,DEVT,TRBAL			01-DCB
				616+*		COMMON ACCESS METHOD INTERFACE			01-DCB
000458	00			618+	DC	AL1(0) BUFNO			01-DCB
000459	000001			619+	DC	AL3(1) BUFCB			01-DCB
00045C	0000			620+	DC	AL2(0) BUFL			01-DCB
00045E	4000			621+	DC	BL2'0100000000000000' DSORG			01-DCB
000460	00000001			622+	DC	A(1) IOBAD			01-DCB

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
				624+*		FOUNDATION EXTENSION			01-DCB
000464	00			626+	DC	BL1'0000000'	BFTEK,BFLN,HIARCHY		01-DCB
000465	000182			627+	DC	AL3(EODAD3)	EODAD		01-DCB
000468	C0			628+	DC	BL1'11000000'	RECFM		01-DCB
000469	000000			629+	DC	AL3(0)	EXLST		01-DCB
				631+*		FOUNDATION BLOCK			01-DCB
00046C	E2E8E2E4E3F34040			633+	DC	CL8'SYSUT3'	DDNAME		01-DCB
000474	02			634+	DC	BL1'00000010'	OFLGS		01-DCB
000475	00			635+	DC	BL1'00000000'		IFLG	01-DCB
000476	2424			636+	DC	BL2'0010010000100100'	MACR		01-DCB
				638+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
000478	00			640+	DC	BL1'00000000'		RER1	01-DCB
000479	000001			641+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
00047C	00000194			642+	DC	A(SYNAD)	SYNAD		01-DCB
000480	0000			643+	DC	H'0'	CIND1, CIND2		01-DCB
000482	07D0			644+	DC	AL2(2000)	BLKSIZE		01-DCB
000484	00000000			645+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
000488	00000001			646+	DC	A(1)	IOBA		01-DCB
00048C	00			647+	DC	AL1(0)	NCP		01-DCB
00048D	000001			648+	DC	AL3(1)	EOBR, EOBA		01-DCB
				650+*		BSAM-BPAM INTERFACE			01-DCB
000490	00000001			652+	DC	A(1)	EOBW		01-DCB
000494	0000			653+	DC	H'0'	DIRECT		01-DCB
000496	0000			654+	DC	AL2(0)	LRECL		01-DCB
000498	00000001			655+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				656 *					00372001
				657 *					00373001
				658 *		PRINT GEN			00374001
				659 *					00375001
	002CC			660	IEX00PRT EQU	SYSPRINT			00376001
	0032C			661	IEX00LIN EQU	SYSLIN			00377001
	0038C			662	IEX00PCH EQU	SYSUPUNCH			00378001
	003EC			663	IEX00UT2 EQU	SYSUT2			00379001
	00444			664	IEX00UT3 EQU	SYSUT3			00380001
				665 *					00381001
000000		00000	00CB6	666	WORKAREA DSECT				00382001
				667 *					00383001
				668	COPY	WORKAREA			00384001
				669=*					00001001
				670=*		WORKAREA - MAPPING CSECT IEX00001			00002001
				671=*					00003001
				672=*		ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT			00004001
				673=*					00005001
000000	0000000000000000			674=SAVEAREA	DC	18F'0'			00006001
				675=*					00007001
				676=*		DCB ADDRS			00008001
				677=*					00009001
000048				678=DCBTABLE	DC	0F'0'			00010001
000048	00000000			679=ALINDCB	DC	A(0)			00011001
00004C	00000000			680=	DC	A(0)			00012001
000050	00000000			681=	DC	A(0)			00013001
000054	00000000			682=	DC	A(0)			00014001
000058	00000000			683=ASYSDCB	DC	A(0)			00015001
00005C	00000000			684=APRTDCB	DC	A(0)			00016001
000060	00000000			685=APCHDCB	DC	A(0)			00017001
000064	00000000			686=AUT1DCB	DC	A(0)			00018001
000068	00000000			687=AUT2DCB	DC	A(0)			00019001
00006C	00000000			688=AUT3DCB	DC	A(0)			00020001
				689=*					00021001
				690=*		END OF DATA EXIT ADDRS			00022001
				691=*					00023001
000070	00000000			692=EODUT1	DC	A(0)	SYSUT1		00024001
000074	00000000			693=EODUT2	DC	A(0)	SYSUT2		00025001
000078	00000000			694=EODUT3	DC	A(0)	SYSUT3		00026001
00007C	00000000			695=EODIN	DC	A(0)	SYSIN		00027001
				696=*					00028001
				697=*		OPTION SWITCHES IN COMPFGLS			00029001
				698=*					00030001
				699=*		ALLOCATION OF THE BIT POSITIONS IN COMPFGLS -			00031001
				700=*					00032001
				701=*		PURPOSE	POSITION		00033001
				702=*			BYTE 1	BYTE 2	00034001
				703=*			01234567	01234567	00035001
				704=*				01234567	00036001
				705=*		COMPMODE (SYNTAX CHECK)	X		00037001
				706=*		SUBSCRIPT OPTIMIZATION	X		00038001
				707=*		WARNING ERROR	X		00039001
				708=*		SERIOUS ERROR	X		00040001
				709=*		TERMINATING ERROR	X		00041001
				710=*		PROCEDURE/PROGRAM	X		00042001
				711=*		LONG/SHORT PRECISION	X		00043001
				712=*		OPERAND	X		00044001
				713=*					00045001
				714=*		NOSOURCE/SOURCE		X	00046001
				715=*		NLOAD/LOAD		X	00047001
				716=*		NODECK/DECK		X	00048001
				717=*		ISO/EBCDIC		X	00049001
				718=*		PROGRAM INTERRUPT		X	00050001
				719=*		TERMINATING PHASE ENTERED		X	00051001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
				720=*		NO BUFFERS ASSIGNED	X	00052001
				721=*		NO COMPILATION POSSIBLE	X	00053001
				722=*				00054001
				723=*		SYSPRINT DOWN	X	00055001
				724=*		WHOLE SOURCE PROG IN CORE	X	00056001
				725=*		NO OPTAB	X	00057001
				726=*		SYSPRINT NOT OPENED	X	00058001
				727=*		ERROR UNRELATED TO SEMICOLON NR	X	00059001
				728=*		NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)	X	00060001
				729=*		60 CHARACTER SET	X	00061001
				730=*		(RESERVED)	X	00062001
				731=*				00063001
000080	00220000			732=COMPFLGS	DC	X'00220000'		00064001
				733=*		PARAMETERS AND SWITCHES		00065001
				734=*		OPTION SWITCHES IN COMPFLGS		00066001
				735=*				00067001
		000080		736=COMPMODE	EQU	X'80'		00068001
		000040		737=SUBSCOPT	EQU	X'40'		00069001
		0000FB		738=PGR	EQU	X'FB'		00070001
		000004		739=PROC	EQU	X'04'		00071001
				740=*		PRECOMPILED PROCEDURE		00072001
		000FD		741=SHRT	EQU	X'FD'		00073001
		00002		742=LNG	EQU	X'02'		00074001
		00001		743=OPERAND	EQU	X'01'		00075001
				744=*				00076001
				745=*		ERROR SEVERITY INDICATORS IN COMPFLGS		00077001
				746=*				00078001
		00020		747=WERR	EQU	X'20'		00079001
		00010		748=SERR	EQU	X'10'		00080001
		00008		749=TERR	EQU	X'08'		00081001
				750=*				00082001
				751=*		OPTION SWITCHES IN COMPFLGS+1		00083001
				752=*				00084001
		0007F		753=SRCE	EQU	X'7F'		00085001
		00080		754=NSRCE	EQU	X'80'		00086001
				755=*				00087001
		000BF		756=LOAD	EQU	X'BF'		00088001
		00040		757=NLOAD	EQU	X'40'		00089001
				758=*				00090001
		000DF		759=DECK	EQU	X'DF'		00091001
		00020		760=NDECK	EQU	X'20'		00092001
				761=*				00093001
		000EF		762=EBCDIC	EQU	X'EF'		00094001
		00010		763=ISO	EQU	X'10'		00095001
				764=*				00096001
				765=*		TERMINATION SWITCHES IN COMPFLGS+1		00097001
				766=*				00098001
		00008		767=ERR	EQU	X'08'		00099001
				768=*		PROGRAM INTERRUPT HAS OCCURED IN COMPILER		00100001
		00004		769=TERM	EQU	X'04'		00101001
		00002		770=NOBUF	EQU	X'02'		00102001
				771=*		ERROR POOL IS IN WORKAREA		00103001
				772=NOGO	EQU	X'01'		00104001
				773=*		NO SCE PROG BUFF 1		00105001
		00001		774=NOBUNOGO	EQU	X'03'		00106001
				775=*		COMPILATION NOT POSSIBLE		00107001
				776=*		DO NOT START SCAN 1		00108001
				777=*		NOBUF AND NOGO		00109001
				778=PRT	EQU	X'80'		00110001
		000080		779=SPIC	EQU	X'40'		00111001
		00020		780=NOPT	EQU	X'20'		00112001
		00010		781=PRTNO	EQU	X'10'		00113001
		00008		782=NOSC	EQU	X'08'		00114001
				783=*		SEMICOLON COUNTER NOT VALID		00115001
		00004		784=NOTEST	EQU	X'04'		00116001
		000FB		785=TEST	EQU	X'FB'		00117001
				786=*		EMBED SC COUNT IN CODE (DEFAULT)		00118001
		00002		787=SET60	EQU	X'02'		00119001
				788=*		60 CHARACTER SET IS TO BE USED		00120001
				789=*				00121001
				790=*		MISCELLANEOUS CONTROL INFORMATION		00122001
		000084	0000B000	791=SIZE	DC	F'45056'		00123001
		000088	00000000	792=PICAADD	DC	A(0)		00124001
		00008C	00000000	793=HDING	DC	F'0'		00125001
		000090	00000000	794=ERET	DC	F'0'		00126001
				795=*		AND I/O ERRORS		00127001
		000094	0000000C	796=PAGECNT	DC	PL4'0'		00128001
		000098	0000	797=LINCNT	DC	H'0'		00129001
		00009A	0038	798=MAXLINES	DC	H'56'		00130001
		00009C	0000	799=SEMCNT	DC	H'0'		00131001
		00009E	0032	800=PBN	DC	H'50'		00132001
		0000A0	0000	801=KBN	DC	H'0'		00133001
				802=LATNR	EQU	28		00134001
		000A2	006C	803=LATBEG	EQU	4*(LATNR-1)		00135001
		0000A4	00000000	804=LN	DC	AL2(LATBEG)		00136001
		0000A8	00000000	805=PRPT	DC	F'0'		00137001
		0000AC		806=SAVOUTA	DC	F'0'		00138001
				807=OUTAREA2	DS	F		00139001
		0000B0	40404040	808=PIDENT	DC	CL4' '		00140001
		0000B4	0000000C	809=CARDCNT	DC	PL4'0'		00141001
		0000B8	00000000	810=PRTRTADD	DC	A(0)		00142001
				811=*				00143001
				812=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE		00144001
				813=*				00145001
		0000BC	00000278	814=ERRPOOL	DC	A(PRELPOOL)		00146001
		0000C0	00000278	815=NEXTERR	DC	A(PRELPOOL)		00147001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
0000C4				816=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23		00148001
0000C8				817=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1		00149001
0000CC				818=SRCE1END	DS	F	ADDR OF LAST BYTE+1		00150001
0000D0				819=SULTSTRT	DS	F	ID OF LAST ITAB RECORD		00151001
				820=*					00152001
				821=*					00153001
				822=*			TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS		00154001
				823=*					00155001
0000D4				824=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED		00156001
0000D6				825=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED		00157001
0000D8				826=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED		00158001
0000DA				827=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED		00159001
0000DC				828=POOLS	DS	F	SIZE OF ERROR POOL		00160001
0000E0				829=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2		00161001
	000E0			830=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4		00162001
0000E4				831=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10		00163001
0000E8				832=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20		00164001
0000EC				833=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30		00165001
0000F0				834=CRIDTABS	DS	F	SIZE OF CRIDTAB FOR PHASE 30		00166001
0000F4				835=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30		00167001
0000F8				836=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30		00168001
0000FC				837=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2		00169001
000100				838=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40		00170001
000104				839=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40		00171001
000108				840=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK		00172001
				841=*					00173001
				842=*			AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF		00174001
				843=*			EACH NEW PAGE		00175001
				844=*					00176001
		0010C		845=PAGEHEAD	EQU	*			00177001
00010C	4040404040404040			846=PAGEHD1	DC	CL121' '	FIRST HEADLINE		00178001
000185		00185	0010C	847=	ORG	PAGEHD1			00179001
00010C	F1			848=PAGEHD1C	DC	C'1'	ASA CNTL		00180001
00010D	4040404040404040			849=	DC	CL10' '	SPACER		00181001
000117	4040404040404040			850=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING		00182001
00017B		0017B	0017D	851=	ORG	PAGEHD1+113			00183001
00017D	D7C1C7C5			852=PAGEHD1P	DC	CL4'PAGE'	PAGE		00184001
000181	40404040			853=PAGENUMB	DC	CL4' '	PAGE COUNTER		00185001
000185		00185	00185	854=	ORG				00186001
				855=*					00187001
000185	4040404040404040			856=PAGEHD2	DC	CL121' '	SECOND HEADLINE		00188001
0001FE		001FE	00185	857=	ORG	PAGEHD2			00189001
000185	40			858=PAGEHD2C	DC	C' '	ASA CNTL		00190001
000186	4040404040404040			859=	DC	CL10' '	SPACER		00191001
000190	4040404040404040			860=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING		00192001
0001F4		001F4	001FE	861=	ORG				00193001
				862=*					00194001
0001FE	4040404040404040			863=PAGEHD3	DC	CL121' '	THIRD HEADLINE		00195001
000277		00277	001FE	864=	ORG	PAGEHD3			00196001
0001FE	40			865=PAGEHD3C	DC	C' '	ASA CNTL		00197001
0001FF	4040404040404040			866=	DC	CL10' '	SPACER		00198001
000209	4040404040404040			867=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING		00199001
00026D		0026D	00277	868=	ORG				00200001
				869=*					00201001
				870=*					00202001
				871=*			END OF STANDARD COMMON AREA		00203001
				872=*					00204001
		00277		873=STANDX	EQU	*			00205001
				874=*					00206001
				875=*			THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL		00207001
				876=*			PHASES AND PARTLY OVERLAY EACH OTHER		00208001
				877=*					00209001
				878=*			NAME OR PURPOSE	NEEDED BY PHASES	00210001
				879=*					00211001
000277	00								
000278				880=	DC	0F'0'			00212001
000278	4040404040404040			881=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL	IEX10	00213001
000378		00378	00416	882=	ORG	PRELPOOL+414			00214001
				883=*			DCB FOR SYSIN	11	00215001
				884=SYSIN	DCB	DDNAME=SYSIN,			X00216001
				=		DSORG=PS,			X00217001
				=		MACRF=(GM),			X00218001
				=		RECFM=FB,			X00219001
				=		LRECL=80,			X00220001
				=		BFTEK=S			00221001
				886+*			DATA CONTROL BLOCK		01-DCB
				887+*					01-DCB
000416	0000								
000418				888+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				890+*			DIRECT ACCESS DEVICE INTERFACE		01-DCB
000418	0000000000000000			892+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000428	00000000			893+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB
				895+*			COMMON ACCESS METHOD INTERFACE		01-DCB
00042C	00			897+	DC	AL1(0)	BUFNO		01-DCB
00042D	000001			898+	DC	AL3(1)	BUFCB		01-DCB
000430	0000			899+	DC	AL2(0)	BUFL		01-DCB
000432	4000			900+	DC	BL2'0100000000000000'	DSORG		01-DCB
000434	00000001			901+	DC	A(1)	IOBAD		01-DCB
				903+*			FOUNDATION EXTENSION		01-DCB



Active USINGS: IEX00000+X'1E2',R5 WORKAREA,R13 IEX00000+X'54',R14

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000438	40			905+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY 01-DCB
000439	000001			906+	DC	AL3(1)	EODAD 01-DCB
00043C	90			907+	DC	BL1'10010000'	RECFM 01-DCB
00043D	000000			908+	DC	AL3(0)	EXLST 01-DCB
				910+*		FOUNDATION BLOCK	01-DCB
000440	E2E8E2C9D5404040			912+	DC	CL8'SYSIN'	DDNAME 01-DCB
000448	02			913+	DC	BL1'00000010'	OFLGS 01-DCB
000449	00			914+	DC	BL1'00000000'	IFLG 01-DCB
00044A	5000			915+	DC	BL2'0101000000000000'	MACR 01-DCB
				917+*		BSAM-BPAM-QSAM INTERFACE	01-DCB
00044C	00			919+	DC	BL1'00000000'	RER1 01-DCB
00044D	000001			920+	DC	AL3(1)	CHECK, GERR, PERR 01-DCB
000450	00000001			921+	DC	A(1)	SYNAD 01-DCB
000454	0000			922+	DC	H'0'	CIND1, CIND2 01-DCB
000456	0000			923+	DC	AL2(0)	BLKSIZE 01-DCB
000458	00000000			924+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW 01-DCB
00045C	00000001			925+	DC	A(1)	IOBA 01-DCB
000460	00			926+	DC	AL1(0)	NCP 01-DCB
000461	000001			927+	DC	AL3(1)	EOBR, EOBA 01-DCB
				929+*		QSAM INTERFACE	01-DCB
000464	00000001			931+	DC	A(1)	RECAD 01-DCB
000468	0000			932+	DC	H'0'	QSW 01-DCB
00046A	0050			933+	DC	AL2(80)	LRECL 01-DCB
00046C	00			934+	DC	BL1'00000000'	EROPT 01-DCB
00046D	000001			935+	DC	AL3(1)	CNTRL 01-DCB
000470	00000000			936+	DC	F'0'	PRECL 01-DCB
000474	00000001			937+	DC	A(1)	EOB 01-DCB
				938=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)	00222001
				939=*		EODAD=EODADIN (INSERTED BY IEX11)	00223001
000478		00478	00278	940=	ORG	PRELPOOL	00224001
000278				941=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2 20-50 00225001
000478				942=	DS	0F	00226001
000478				943=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1 11-20 00227001
000577		00577	00478	944=	ORG	PB TAB1	00228001
000478				945=FSTAB	DS	CL255	FOR STATEMENT TABLE 30-40 00229001
				946=*			DCB FOR SYSUT1 11-30 00230001
				947=SYSUT1	DCB	DDNAME=SYSUT1,	X00231001
				=		DSORG=PS,	X00232001
				=		MACRF=(R,W),	X00233001
				=		RECFM=F	00234001
				949+*		DATA CONTROL BLOCK	01-DCB
				950+*			01-DCB
000577	00			951+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY 01-DCB
000578				953+*		DIRECT ACCESS DEVICE INTERFACE	01-DCB
000578	0000000000000000			955+	DC	BL16'0'	FDAD,DVTBL 01-DCB
000588	00000000			956+	DC	A(0)	KEYLE,DEVT,TRBAL 01-DCB
				958+*		COMMON ACCESS METHOD INTERFACE	01-DCB
00058C	00			960+	DC	AL1(0)	BUFNO 01-DCB
00058D	000001			961+	DC	AL3(1)	BUFCB 01-DCB
000590	0000			962+	DC	AL2(0)	BUFL 01-DCB
000592	4000			963+	DC	BL2'0100000000000000'	DSORG 01-DCB
000594	00000001			964+	DC	A(1)	IOBAD 01-DCB
				966+*		FOUNDATION EXTENSION	01-DCB
000598	00			968+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY 01-DCB
000599	000001			969+	DC	AL3(1)	EODAD 01-DCB
00059C	80			970+	DC	BL1'10000000'	RECFM 01-DCB
00059D	000000			971+	DC	AL3(0)	EXLST 01-DCB
				973+*		FOUNDATION BLOCK	01-DCB
0005A0	E2E8E2E4E3F14040			975+	DC	CL8'SYSUT1'	DDNAME 01-DCB
0005A8	02			976+	DC	BL1'00000010'	OFLGS 01-DCB
0005A9	00			977+	DC	BL1'00000000'	IFLG 01-DCB
0005AA	2020			978+	DC	BL2'0010000000100000'	MACR 01-DCB
				980+*		BSAM-BPAM-QSAM INTERFACE	01-DCB
0005AC	00			982+	DC	BL1'00000000'	RER1 01-DCB
0005AD	000001			983+	DC	AL3(1)	CHECK, GERR, PERR 01-DCB
0005B0	00000001			984+	DC	A(1)	SYNAD 01-DCB
0005B4	0000			985+	DC	H'0'	CIND1, CIND2 01-DCB
0005B6	0000			986+	DC	AL2(0)	BLKSIZE 01-DCB
0005B8	00000000			987+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW 01-DCB
0005BC	00000001			988+	DC	A(1)	IOBA 01-DCB
0005C0	00			989+	DC	AL1(0)	NCP 01-DCB
0005C1	000001			990+	DC	AL3(1)	EOBR, EOBA 01-DCB
				992+*		BSAM-BPAM INTERFACE	01-DCB
0005C4	00000001			994+	DC	A(1)	EOBW 01-DCB
0005C8	0000			995+	DC	H'0'	DIRCT 01-DCB



Active USINGs: IEX00000+X'1E2',R5 WORKAREA,R13 IEX00000+X'54',R14

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
0005CA	0000			996+	DC	AL2(0)	LRECL		01-DCB
0005CC	00000001			997+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				998=*		SYNAD=SYNAD,	(ASSEMBLED IN IEX00001)		00235001
				999=*		EODAD=EODAD1			00236001
				1000=*					00237001
0005D0				1001=	DS	0F			00238001
0005D0				1002=SPTAB	DS	CL255	SCOPE TABLE	11-30	00239001
0006D0				1003=	DS	0F			00240001
		006CD		1004=GPTAB	EQU	*-3	GROUP TABLE	11-30	00241001
0006D0				1005=	DS	CL1510			00242001
				1006=*					00243001
				1007=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				1008=*					00245001
				1009 *					00385001
				1010 *		DUMMY CONTROL SECTION TO PROVIDE ADDRESSABILITY OF DCB			00386001
				1011 *					00387001
				1012	PRINT	NOGEN			00388001
				1013 *					00389001
				1014	DCBD	DSORG=(PS),DEV=(DA)			00390001
				1572 *					00391001
				1573	PRINT	GEN			00392001
				1574 *					00393001
				1575 *		REGISTER AND BIT EQUATES			00394001
				1576 *					00395001
				1577	IEZREGS				00396001
	00000			1578+R0	EQU	0			01-IEZRE
	00001			1579+R1	EQU	1			01-IEZRE
	00002			1580+R2	EQU	2			01-IEZRE
	00003			1581+R3	EQU	3			01-IEZRE
	00004			1582+R4	EQU	4			01-IEZRE
	00005			1583+R5	EQU	5			01-IEZRE
	00006			1584+R6	EQU	6			01-IEZRE
	00007			1585+R7	EQU	7			01-IEZRE
	00008			1586+R8	EQU	8			01-IEZRE
	00009			1587+R9	EQU	9			01-IEZRE
	0000A			1588+R10	EQU	10			01-IEZRE
	0000B			1589+R11	EQU	11			01-IEZRE
	0000C			1590+R12	EQU	12			01-IEZRE
	0000D			1591+R13	EQU	13			01-IEZRE
	0000E			1592+R14	EQU	14			01-IEZRE
	0000F			1593+R15	EQU	15			01-IEZRE
				1594 *					00397001
				1595	IEZBITS				00398001
	00080			1597+BIT0	EQU	128			01-IEZBI
	00040			1598+BIT1	EQU	64			01-IEZBI
	00020			1599+BIT2	EQU	32			01-IEZBI
	00010			1600+BIT3	EQU	16			01-IEZBI
	00008			1601+BIT4	EQU	8			01-IEZBI
	00004			1602+BIT5	EQU	4			01-IEZBI
	00002			1603+BIT6	EQU	2			01-IEZBI
	00001			1604+BIT7	EQU	1			01-IEZBI
				1606 *					00399001
				1607	END				00400001



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
SAVE	4	00000064	00000001	F	F		159	125 126M 150				
SAVEP	4	00000264	00000001	F	F		372	294 320M 367 368				
SEMCNT	2	0000009C	FFFFFFFF	H	H		799	192 285				
SRCE1S	4	000000E0	FFFFFFFF	F	F		829	830				
SYNAD	4	00000194	00000001	I			270	480 535 590 642				
SYNADX	4	000001DA	00000001	I			295	293B				
SYNPR	4	0000018E	00000001	I			262	425				
SYSLIN	4	0000032C	00000001	F	F		447	661				
SYSPRINT	4	000002CC	00000001	F	F		392	660				
SYSPUNCH	4	0000038C	00000001	F	F		502	662				
SYSUT2	4	000003EC	00000001	F	F		557	663				
SYSUT3	4	00000444	00000001	F	F		609	664				
TERM	1	00000004		U			769	184				
TERMERR	6	00000136	00000001	I			216	186B				
TERR	1	00000008		U			749	217 291				
WORKAREA	1	00000000	FFFFFFFF	J			666	171U				

[illegible]

Dsect	Length	Id	Defn	Con	Member	X390 3.1.04	2012/08/17	13.12
IHADCB	00000060	FFFFFFFFE	1019	1	DCBD			
WORKAREA	00000CB6	FFFFFFFFF	666		PRIMARY INPUT			

Con	Source	Members								X390	3.1.04	2012/08/17	13.12
1	SYS1.MACLIB	CLOSE SAVE	DCB SPIE	DCBD XCTL	IEZBITS	IEZREGS	IHBINNRA	IHBINNRB	IHB01	LINK	PUT	RETURN	
2	SYSD.TOOLS.MACLIB												
3	SYSD.ALGOLF.ASM												
4	SYSD.ALGOLF.MACLIB												
		WORKAREA											
5	SYSD.ALGOLFRT.MACLIB												
6	SYS1.AMODGEN												

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.12
116		USING	Ordinary	00000001	00000000	00001000	15	000B0	133	IEX00000,R15			
149		USING	Ordinary	00000001	00000054	00001000	14	00014	150	*,R14			
171		USING	Ordinary	FFFFFFFF	00000000	00001000	13	001FE	366	WORKAREA,R13			
183		USING	Ordinary	00000001	000000BA	00001000	15	0020C	224	*,R15			
229		DROP					15			R15			
231		USING	Ordinary	00000001	0000015E	00001000	15	00016	235	*,R15			
241		DROP					15			R15			
268		USING	Ordinary	00000001	00000194	00001000	15	0000C	274	*,R15			
280		DROP					15			R15			
282		USING	Ordinary	00000001	000001AC	00001000	15	000B8	294	*,R15			
286		USING	Ordinary	FFFFFFFFE	00000000	00001000	2	00028	287	IHADCB,R2			
288		DROP					2			R2			
300		DROP					15			R15			
319		USING	Ordinary	00000001	000001E2	00001000	15	0008E	320	IEX00PRI,R15			
321		DROP					15			R15			
323		USING	Ordinary	00000001	000001E2	00001000	5	000E7	368	IEX00PRI,R5			

The following statements were flagged -

SYSD.ALGOLF.ASM(IEX00)  
149(138), 183(164), 231(210), 268(241), 282(249), 319(286), 323(290)

7 statements flagged in this assembly, 4 was the highest severity code.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1X00 STEPNAME: IEX00 PROCSTEP: X390

Primary input: lines 1 to 400 of SYSD.ALGOLF.ASM(IEX00)

SYSLIB library records read: 5038

SYSUT1 work file size: 114182 bytes

SYSUT2 work file size: 447528 bytes

SYSUT3 work file size: 32000 bytes

SYSLIN file records written: 28

TXA000I Return code 4, elapsed time 1.95 seconds.



INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX00000 00049C 4

**LEX10**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX10)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131250.RA000.T1X10.OBJECT
SYSPRINT	JES2.JOB09269.S00102
SYSUT1	SYS12230.T131250.RA000.T1X10.SYSUT1
SYSUT2	SYS12230.T131250.RA000.T1X10.SYSUT2
SYSUT3	SYS12230.T131250.RA000.T1X10.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.12
2 *						00002001
3 *					COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
4 *						00004001
5 *					FUNCTION/OPERATION -	00005001
6 *					THIS MODULE PERFORMS THE FOLLOWING INITIALIZATION	00006001
7 *					ACTIONS -	00007001
8 *					1. SAVE THE REGISTERS AND ESTABLISH THE LOWER	00008001
9 *					PART OF THE COMMON WORKAREA AS THE NEW SAVEAREA	00009001
10 *					TO BE USED THROUGHOUT THE COMPILATION	00010001
11 *					2. EXECUTE A SPIE MACRO	00011001
12 *					3. SCAN THE OPTION PARAMETER FIELD PROVIDED BY THE USER	00012001
13 *					AND SET THE SWITCHES IN COMPFLGS ACCORDINGLY	00013001
14 *					4. IF PROVIDED BY THE USER, INSERT NEW DD NAMES INTO	00014001
15 *					THE DCB'S AND STORE THE INITIAL PAGECOUNT IN THE COMMON	00015001
16 *					COMMON WORKAREA	00016001
17 *					5. OBTAIN STORAGE FOR THE ERROR POOL AND MOVE ANY ERROR	00017001
18 *					PATTERNS ALREADY STORED FROM THE PRELIMINARY ERROR POOL	00018001
19 *					INTO THE NEW POOL	00019001
20 *					6. COMPLETE AND OPEN THE DCB'S FOR ALL DATASETS TO BE USED	00020001
21 *					7. OBTAIN THE TIME AND DATE WITH A TIME MACRO	00021001
22 *					STORE IT IN EDITED FORM IN A HEADLINE, WHICH IS	00022001
23 *					PRINTED AT THE TOP OF THE FIRST PAGE	00023001
24 *					8. TRANSFER CONTROL TO THE SCANI/II PHASE (IEX11)	00024001
25 *						00025001
26 *					IF ERRORS ARE DETECTED IN THE STEPS DESCRIBED ABOVE	00026001
27 *					(SUCH AS INVALID OPTION PARAMETERS OR INCORRECT DD	00027001
28 *					CARDS), SOME OF THE STEPS MAY BE BYPASSED, AND AN ERROR	00028001
29 *					EXIT MAY BE TAKEN	00029001
30 *						00030001
31 *					ENTRY POINTS -	00031001
32 *					IEX10000 - THE ONLY ENTRY POINT TO THIS MODULE	00032001
33 *					CONTROL IS TRANSFERRED HERE FROM IEX00 BY THE	00033001
34 *					MACRO LINK EP=IEX10. R0 THEN CONTAINS THE	00034001
35 *					ADDR OF THE COMMON WORKAREA AND R1 THE ADDR	00035001
36 *					OF THE PARAMETER LIST PROVIDED BY THE USER	00036001
37 *						00037001
38 *					INPUT - N/A	00038001
39 *						00039001
40 *					OUTPUT -	00040001
41 *					THE TEXT STORED AT FIRSTLIN IS OUTPUT TO SYSPRINT AS A	00041001
42 *					91-CHARACTER RECORD WITH MACHINE CONTROL CHARACTER	00042001
43 *						00043001
44 *					EXTERNAL ROUTINES - N/A	00044001
45 *						00045001
46 *					IF NO TERMINATING ERRORS ARE FOUND, CONTROL IS	00046001
47 *					TRANSFERRED TO THE SCANI/II PHASE BY MEANS OF THE MACRO	00047001
48 *					'XCTL EP=IEX11'	00048001
49 *						00049001
50 *					EXITS - ERRORS -	00050001
51 *					IF A PROGRAM CHECK OR UNRECOVERABLE I/O ERROR OCCURS	00051001
52 *					DURING ONE OF THE INITIALIZATION STEPS, CONTROL IS	00052001
53 *					TRANSFERRED (VIA AN ERROR ROUTINE IN IEX00) TO THE	00053001
54 *					ROUTINE GOTOTERM IN THIS MODULE. FROM THERE AN EXIT IS	00054001
55 *					MADE TO THE TERMINATING PHASE BY MEANS OF THE MACRO	00055001
56 *					XCTL EP=IEX51002	00056001
57 *						00057001
58 *					IF ANY OTHER TERMINATING ERROR IS DETECTED, CONTROL IS	00058001
59 *					TRANSFERRED TO THE ROUTINE GOTOEDIT IN THIS MODULE. FROM	00059001
60 *					THERE AN EXIT IS MADE TO THE ERROR EDITING MODULE BY	00060001
61 *					MEANS OF THE MACRO XCTL EP=IEX21000	00061001
62 *						00062001
63 *					TABLES/WORK AREAS -	00063001
64 *					STARTING AT PTRN200 - ERROR PATTERNS FOR ALL	00064001
65 *					ERRORS WHICH MAY BE DETECTED IN THIS MODULE	00065001
66 *					FIRSTLIN - THE FIRST OUTPUT LINE TO BE PRINTED	00066001
67 *					CONTAINS PROGRAM IDENTIFICATION AND	00067001
68 *					LEVEL AND THE DATE OF THE RUN	00068001
69 *					PARMLIST - A TABLE USED FOR DECODING THE OPTION	00069001
70 *					PARAMETERS	00070001
71 *						00071001
72 *					ATTRIBUTES - NOT REUSABLE	00072001
73 *						00073001
74 *					NOTES -	00074001
75 *					THIS MODULE IS ONLY INTENDED TO BE USED IN CONNECTION	00075001
76 *					WITH THE OTHER MODULES COMPRISING THE ALGOL COMPILER	00076001
77 *						00077001
78 *					THE OPERATION OF THIS MODULE DEPENDS UPON AN INTERNAL	00078001
79 *					REPRESENTATION OF THE EXTERNAL CHARACTER SET WHICH IS	00079001
80 *					EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME	00080001
81 *						00081001
82	000000	00000	00812	IEX10000	CSECT	00082001
83 *						00083001
84 *					REGISTER ASSIGNMENTS	00084001
85 *						00085001
86 *				R4	RUNNING ADDR OF PARAMETER FIELD MINUS 2	00086001
87 *				R5	ADDR OF BYTE FOLLOWING LAST BYTE OF FIELD MINUS 2	00087001
88 *				R6	RUNNING ADDR OF PARAMETER LIST	00088001
89 *				R7	ADDR OF LAST ENTRY OF PARAMETER LIST	00089001
90 *				R8	LENGTH-1 OF PARAMETER	00090001
91 *				R9	CURRENT FIELD IN ERROR POOL	00091001
92 *				R10	NEXT FIELD IN ERROR POOL	00092001
93 *				R11	BYTE COUNT OF PARAMETER IN ERROR	00093001
94 *						00094001
95				SAVE	(14,12),, 'IEX10000 LEVEL 2.1 &SYSDATE &SYSTIME'	00095001
96+	000000 47F0 F026	00026		B	38(0,15)	01-SAVE BRANCH AROUND ID
97+	000004 21			DC	AL1(33)	01-SAVE LENGTH OF IDENTIFIER

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000005	C9C5E7F1F0F0F0F0			98+	DC	CL32'IEX10000 LEVEL 2.1 08/17/12 13.1' IDENTIFIER	01-SAVE
000025	F2			99+	DC	CL1'2' IDENTIFIER	01-SAVE
000026	90EC D00C		0000C	100+	STM	14,12,12(13) SAVE REGISTERS	01-SAVE
				101 *			00096001
00002A	182F			102	LR	R2,R15 SET BASE	00097001
		R:2	00000	103	USING	IEX10000,R2	00098001
00002C	500D 0008		00008	104	ST	R0,8(R13) ADDR OF LOWER LEVEL SAVAREA	00099001
000030	18CD			105	LR	R12,R13	00100001
000032	18D0			106	LR	R13,R0	00101001
000034	50CD 0004		00004	107	ST	R12,4(R13) ADDR OF HIGHER LEVEL SAVEAREA	00102001
		R:D	00000	108	USING	WORKAREA,R13	00103001
				109 *			00104001
				110 *		EXECUTE THE SPIE MACRO	00105001
				111 *			00106001
000038	5830 D088		00088	112	L	R3,PICADD ADDR OF PICA OF COMPILER	00107001
				113 *			00108001
				114	SPIE	MF=(E,(3))	00109001
00003C	1813			115+	LR	1,3 LOAD PARAMETER REG 1	02-IHBN
00003E	0A0E			116+	SVC	14 ISSUE THE SPIE SVC	01-SPIE
				117 *			00110001
000040	5010 D088		00088	118	ST	R1,PICADD STORE ADDR OF OLD PICA IN	00111001
000044	D203 D090 24F8 00090 004F8		004F8	119	MVC	ERET,=A(GOTOTERM) ERROR ROUT FOR NEXT PART	00112001
				120 *		OF PHASE	00113001
				121 *			00114001
				122 *		INTERROGATE THE CONTROL PARAMETERS AND SET SWITCHES IN	00115001
				123 *		THE WORKAREA	00116001
				124 *			00117001
00004A	58E0 D004		00004	125	L	R14,4(,R13)	00118001
00004E	58E0 E018		00018	126	L	R14,24(,R14) GET CALLERS R1	00119001
000052	12EE			127	LTR	R14,R14 ZERO ?	00120001
000054	4780 220A		0020A	128	BZ	BYPASSOP YES, NO OPTIONS ARE SPECIFIED	00121001
000058	5840 E000		00000	129	L	R4,0(,14) ADDR OF PARMETER FIELD	00122001
00005C	4140 4000		00000	130	LA	R4,0(,R4) RESET HIGH ORDER BYTE	00123001
000060	4850 4000		00000	131	LH	R5,0(,R4) FIELD LENGTH	00124001
000064	1255			132	LTR	R5,R5 NONZERO FIELD LENGTH ?	00125001
000066	4780 21A8		001A8	133	BZ	DDNAMES NO CONTROL PARAMETERS SPECIFIED	00126001
00006A	1A54			134	AR	R5,R4 END OF FIELD	00127001
00006C	4170 2780		00780	135	LA	R7,LISTENTRY LAST ENTRY OF LIST	00128001
000070	1B88			136	SR	R8,R8 ZERO REG	00129001
000072	956B 4002		00002	137	CLF	2(R4),C', ' COMMA ?	00130001
000076	4770 209A		0009A	138	BNE	FNDPAR NO, BRANCH	00131001
00007A	4140 4001		00001	139	STEP1	LA R4,1(,R4) STEP FIELD	00132001
00007E	1945			140	COMP1	CR R4,R5	00133001
000080	4740 2072		00072	141	BL	FNDCOMMA IF NOT END OF FIELD YET	00134001
000084	9160 D081		00081	142	TM	COMPLG5+1,NLOAD+NDECK NOLOAD AND NODECK ?	00135001
000088	47E0 21A8		001A8	143	BNO	DDNAMES NO, BRANCH	00136001
00008C	9680 D080		00080	144	OI	COMPLG5,COMPmode YES, FORCE SYNTAX MODE ONLY	00137001
000090	47F0 21A8		001A8	145	B	DDNAMES END OF FIELD	00138001
				146 *			00139001
		R:6	00614	147	USING	LENGTH,R6	00140001
** TXA533W USING range overlaps prior USING at statement 103.							
** TXA301I Record 140 in SYSD.ALGO.LF.ASM(IEX10)							
000094	D500 4002 6001 00002 00615		00002	148	COMPINST	CLC 2(0,R4),PARAM	00141001
00009A	D504 4002 2518 00002 00518		00002	149	FNDPAR	CLC 2(5,R4),=C'SIZE='	00142001
0000A0	4780 2120			150	BE	FNDSIZE	00143001
0000A4	4160 2605			151	LA	R6,PARMLIST	00144001
0000A8	4380 6000		00614	152	NXTPAR	IC R8,LENGTH	00145001
0000AC	4480 2094		00094	153	EX	R8,COMPINST	00146001
0000B0	4770 20D0		000D0	154	BNE	NOTFOUND	00147001
0000B4	41A4 8001		00001	155	LA	R10,1(R4,R8) ADDR OF BYTE FOLLOWING	00148001
				156 *		PARAMETER-2	00149001
0000B8	956B A002		00002	157	CLI	2(R10),C', ' COMMA ?	00150001
0000BC	4780 20C6		000C6	158	BE	SETBIT YES, BRANCH	00151001
0000C0	19A5			159	CR	R10,R5 END OF PARAMETER FIELD ?	00152001
0000C2	4740 20DA		000DA	160	BL	ERROR200 IF NO	00153001
0000C6	184A			161	SETBIT	LR R4,R10	00154001
0000C8	4400 600A		0061E	162	EX	0,INSTR	00155001
				163	DROP	R6	00156001
0000CC	47F0 207E		0007E	164	B	COMP1	00157001
				165 *			00158001
0000D0	1967			166	NOTFOUND	CR R6,R7	00159001
0000D2	4166 000F		0000F	167	LA	R6,LENGTH-PARMLIST(R6) STEP LIST ADDR	00160001
0000D6	4740 20A8		000A8	168	BL	NXTPAR IF NOT END OF LIST YET	00161001
				169 *			00162001
0000DA	5890 D0C0		000C0	170	ERROR200	L R9,NEXTERR ADDR OF NEXT FREE BYTE	00163001
				171 *			00164001
0000DE	95E7 9000		00000	172	CLI	0(R9),C'X' TEST IF THE PRELIMINARY ERROR	00165001
0000E2	4780 2196		00196	173	BE	FULLPOOL POOL IS FILLED	00166001
0000E6	41A9 0010		00010	174	LA	R10,16(R9)	00167001
0000EA	50A0 D0C0		000C0	175	ST	R10,NEXTERR	00168001
0000EE	D20F 9000 253C 00000 0053C		00000	176	MVC	0(16,R9),PTRN200	00169001
				177 *		PATTERN WITH BLANKS	00170001
						TO ERROR POOL	00171001
0000F4	41B0 000C		0000C	178	LA	R11,12(0)	00172001
0000F8	D200 9004 4002 00004		00002	179	MOVE	MVC 4(1,R9),2(R4)	00173001
0000FE	4199 0001		00001	180	LA	R9,1(R9)	00174001
000102	4144 0001		00001	181	MOVENOT	LA R4,1(R4)	00175001
000106	956B 4002		00002	182	CLI	2(R4),C', ' IF END OF PARAMETER	00176001
00010A	4780 207A		0007A	183	BE	STEP1	00177001
00010E	1545			184	CLR	R4,R5	00178001
000110	47B0 21A8		001A8	185	BNL	DDNAMES IF END OF PARAMETER LIST	00179001
000114	48B0 2510		00510	186	SH	R11,=H'1'	00180001
000118	4720 20F8		000F8	187	BP	MOVE	00181001
00011C	47F0 2102		00102	188	B	MOVENOT	00182001
				189 *			00183001
000120	41A4 0005		00005	190	FND SIZE	LA R10,5(R4) ADDR OF FIRST DIGIT -2	00184001
000124	1BBB			191	SR	R11,R11 SET COUNT OF DIGITS TO ZERO	00185001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000126	95F0 A002	00002		192	TSTDIGIT	CLI 2(R10),C'0'	TEST IF
00012A	4740 20DA		000DA	193		BL ERROR200	THE CHARACTER
00012E	95F9 A002	00002		194		CLI 2(R10),C'9'	IS A DIGIT
000132	4720 20DA		000DA	195		BH ERROR200	
000136	41AA 0001		00001	196		LA R10,1(R10)	
00013A	19A5			197		CR R10,R5	END OF PARAMTER FIELD ?
00013C	4780 215E		0015E	198		BE PCKSIZE	
000140	956B A002	00002		199		CLI 2(R10),C','	DIGIT IS FOLLOWED ?
				200	*		BY A COMMA
000144	4780 215E		0015E	201		BE PCKSIZE	
000148	418B 0001		00001	202		LA R11,1(R11)	ADD 1 TO DIGIT COUNT
00014C	49B0 2512		00512	203		CH R11,=H'7'	TEST IF TOO MANY DIGITS
000150	4780 20DA		000DA	204		BE ERROR200	
000154	47F0 2126		00126	205		B TSTDIGIT	
				206	*		
000158	F270 2790	4007 00790	00007	207	PCKINSTR	PACK FIELD1,7(0,R4)	
00015E	44B0 2158		00158	208	PCKSIZE	EX R11,PCKINSTR	L2 IS IN TEGH
000162	4F60 2790		00790	209		CVB R6,FIELD1	
000166	184A			210		LR R4,R10	
000168	5960 24FC		004FC	211		C R6,=F'45056'	SPECIFIED STORAGE SIZE
00016C	4740 2178		00178	212		BL ERROR208	IS TOO SMALL ?
000170	5060 D084		00084	213		ST R6,SIZE	
000174	47F0 207E		0007E	214		B COMPI	
				215	*		
000178	5890 D0C0		000C0	216	ERROR208	L R9,NEXTERR	
00017C	D203 9000	2588 00000	00588	217		MVC 0(4,R9),PTRN208	PATTERN FOR MSG 208
				218	*		TO ERROR POOL
000182	4199 0004		00004	219		LA R9,4(R9)	UPDATE POINTER TO NEXT
000186	95E7 9000		00000	220		CLI 0(R9),C'X'	TEST IF THE PRELIMINARY ERROR
00018A	4780 2196		00196	221		BE FULLPOOL	POOL IS FILLED
00018E	5090 D0C0		000C0	222		ST R9,NEXTERR	FREE ENTRY
000192	47F0 207E		0007E	223		B COMPI	
				224	*		
000196	D203 9000	2580 00000	00580	225	FULLPOOL	MVC 0(4,R9),PTRN206	PATTERN FOR MESSAGE 206
00019C	4199 0004		00004	226		LA R9,4(R9)	UPDATE POINTER TO
0001A0	5090 D0C0		000C0	227		ST R9,NEXTERR	NEXT FREE ENTRY
0001A4	47F0 21A8		001A8	228		B DDNAMES	NO PARAMETER TESTING ANY MORE
				229	*		
				230	*	FIND THE DD NAMES	
				231	*		
0001A8	9180 E000		00000	232	DDNAMES	TM 0(14),X'80'	
0001AC	4710 220A		0020A	233		BO BYPASSOP	IF NO DDNAMES AND HEADING INFO
0001B0	584E 0004		00004	234		L R4,4(14)	
0001B4	4854 0000		00000	235		LH R5,0(R4)	
0001B8	1255			236		LTR R5,R5	
0001BA	4780 220A		0020A	237		BZ BYPASSOP	IF NO DDNAMES SPECIFIED
0001BE	5550 2500		00500	238		CL R5,=F'80'	MORE THAN TEN
0001C2	47D0 21DC		001DC	239		BNH FNDDCB-4	DD NAMES
0001C6	5850 2500		00500	240		L R5,=F'80'	NOT ALLOWED
0001CA	5890 D0C0		000C0	241		L R9,NEXTERR	
0001CE	D203 9000	2584 00000	00584	242		MVC 0(4,R9),PTRN207	PATTERN TO ERROR POOL
0001DA	4199 0004		00004	243		LA R9,4(R9)	UPDATE POINTER
0001D8	5090 D0C0		000C0	244		ST R9,NEXTERR	TO ERROR POOL
0001DC	4160 D048		00048	245		LA R6,DCBTABLE	R6 -> TABLE OF DCB ADDRS
0001E0	5876 0000		00000	246	FNDDCB	L R7,0(R6)	
0001E4	1277			247		LTR R7,R7	THIS DATASET EXIST ?
0001E6	4780 21FA		001FA	248		BZ NXTDDNAM	NO, BRANCH
0001EA	D507 4002	24F0 00002	004F0	249		CLC 2(8,R4),=XL8'00'	NULL DDNAME ?
0001F0	4780 21FA		001FA	250		BE NXTDDNAM	YES, BRANCH
		R:7 00000		251		USING IHADCB,R7	
0001F4	D207 7028	4002 00028	00002	252		MVC DCBDDNAM,2(R4)	MOVE IN OVERRIDE DDNAME
				253		DROP R7	
0001FA	4144 0008		00008	254	NXTDDNAM	LA R4,8(R4)	INCR DDNAME PTR
0001FE	4166 0004		00004	255		LA R6,4(R6)	
000202	4B50 2514		00514	256		SH R5,=H'8'	DECR COUNT
000206	4720 21E0		001E0	257		BP FNDDCB	
				258	*		
				259	*	ACQUIRE THE ERROR POOL AND THE SOURCE PROG BUFFER 1	
				260	*	STORE CONTENT OF PRELIMINARY ERROR POOL IN NEW ERROR	
				261	*	POOL	
				262	*		
00020A	5800 D0DC		000DC	263	BYPASSOP	L R0,POOLS	SIZE OF ERROR POOL
00020E	1840			264		LR R4,R0	
000210	5A00 D0E0		000E0	265		A R0,SRCE15	SIZE OF SOURCE PROG BUFFER 1
000214	1860			266		LR R6,R0	SIZE OF TOTAL AREA
				267	*		
				268		GETMAIN R,LV=(0)	
				269+	*	OS/VS2 RELEASE 4 VERSION -- 10/21/75	
000216	4510 221A		0021A	270+		BAL 1,*+4	INDICATE GETMAIN
00021A	0A0A			271+		SVC 10	ISSUE GETMAIN SVC
				272	*		
00021C	9702 D081		00081	273		XI COMPFGLS+1,NOBUF	COMMON BUFFER AREA PRESENT
000220	5850 D0C0		000C0	274		L R5,NEXTERR	ADDR OF NEXT FREE BYTE
				275	*		IN PREL POOL
000224	4170 D278		00278	276		LA R7,PRELPOOL	ADDR OF BEGIN OF PREL POOL
000228	1B57			277		SR R5,R7	NUMBER OF BYTES IN ERROR POOL
00022A	4450 2232		00232	278		EX R5,MVCPPOOL	
00022E	47F0 2238		00238	279		B JUMPEXEA	BRANCH AROUND MVC INSTR
				280	*		
000232	D200 1000	D278 00000	00278	281	MVCPPOOL	MVC 0(0,R1),PRELPOOL	EXE INSTRUCTION
				282	*		
000238	5010 D0BC		000BC	283	JUMPEXEA	ST R1,ERRPOOL	ADDR OF FIRST BYTE OF POOL
00023C	1A51			284		AR R5,R1	ADDR OF NEXT FREE BYTE
00023E	5050 D0C0		000C0	285		ST R5,NEXTERR	
000242	1A41			286		AR R4,R1	ADDR OF END OF POOL +1
000244	5040 D0C8		000C8	287		ST R4,SRCE1ADD	ADDR OF SOURCE PROG BUFFER 1

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000248	1A61			288	AR	R6,R1	END ADDR OF SOURCE PROG BUFFER 1 00278001
00024A	5060 D0CC		000CC	289	ST	R6,SRCE1END	00279001
00024E	4B40 2516		00516	290	SH	R4,=H'24'	ADDR OF END OF POOL-23 00280001
000252	5040 D0C4		000C4	291	ST	R4,ENDPOOL	00281001
				292 *			00282001
				293 *	COMPLETE	THE DCBS	00283001
				294 *			00284001
000256	983C D048		00048	295	LM	R3,R12,DCBTABLE	ADDRES OF THE DCBS 00285001
				296 *		R4, R5, R6 NOT USED	00286001
		R:3 00000		297	USING	IHADCB,R3	SYSLIN DCB 00287001
00025A	D202 3025	251D 00025	0051D	298	MVC	DCBEXLST+1(3),=AL3(LINEX)	ADDR OF EXLIST 00288001
				299	DROP	R3	00289001
		R:7 00000		300	USING	IHADCB,R7	SYSIN DCB 00290001
000260	D202 7025	2520 00025	00520	301	MVC	DCBEXLST+1(3),=AL3(INEX)	ADDR OF EXLIST 00291001
				302	DROP	R7	00292001
		R:8 00000		303	USING	IHADCB,R8	00293001
000266	D202 8025	2523 00025	00523	304	MVC	DCBEXLSA,=AL3(PRINTEX)	EXLIST FOR PRINT DCB 00294001
				305	DROP	R8	00295001
		R:9 00000		306	USING	IHADCB,R9	SYSPUNCH DCB 00296001
00026C	D202 9025	2526 00025	00526	307	MVC	DCBEXLST+1(3),=AL3(PCHEX)	ADDR OF EXLIST 00297001
				308	DROP	R9	00298001
		R:A 00000		309	USING	IHADCB,R10	SYSUT1 DCB 00299001
000272	4840 D0E2		000E2	310	LH	R4,SRCE1S+2	SOURCE PROG BUFFER 1 SIZE 00300001
000276	4040 A03E		0003E	311	STH	R4,DCBBLKSI	BLOCK SIZE 00301001
				312	DROP	R10	00302001
		R:B 00000		313	USING	IHADCB,R11	SYSUT2 DCB 00303001
00027A	4040 B03E		0003E	314	STH	R4,DCBBLKSI	BLOCK SIZE 00304001
				315	DROP	R11	00305001
00027E	D203 D090	2504 00090	00504	316	MVC	ERET,=A(OPEXERR)	ERROR ROUTINE FOR OPEN EXIT 00306001
				317 *		ROUTINES	00307001
				318 *			00308001
				319 *	OPEN	THE SYSLIN, SYSPRINT, SYSPUNCH, SYSUT2 AND SYSUT3 DCBS	00309001
				320 *			00310001
				321	OPEN	((3),OUTPUT,(8),OUTPUT,(9),OUTPUT,(11),OUTIN,(12),OUTIN)	00311001
000284				322+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-OPEN
000284	4510 229C		0029C	323+	BAL	1,*+24	LOAD REG1 W/LIST ADDR. 01-OPEN
000288	00000000			324+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
00028C	00000000			325+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
000290	00000000			326+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
000294	00000000			327+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
000298	00000000			328+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
00029C	5031 0000		00000	329+	ST	3,0(1,0)	STORE INTO LIST 01-OPEN
0002A0	920F 1000		00000	330+	MVI	0(1),15	MOVE IN OPTION BYTE 01-OPEN
0002A4	5081 0004		00004	331+	ST	8,4(1,0)	STORE INTO LIST 01-OPEN
0002A8	920F 1004		00004	332+	MVI	4(1),15	MOVE IN OPTION BYTE 01-OPEN
0002AC	5091 0008		00008	333+	ST	9,8(1,0)	STORE INTO LIST 01-OPEN
0002B0	920F 1008		00008	334+	MVI	8(1),15	MOVE IN OPTION BYTE 01-OPEN
0002B4	50B1 000C		0000C	335+	ST	11,12(1,0)	STORE INTO LIST 01-OPEN
0002B8	9207 100C		0000C	336+	MVI	12(1),7	MOVE IN OPTION BYTE 01-OPEN
0002BC	50C1 0010		00010	337+	ST	12,16(1,0)	STORE INTO LIST 01-OPEN
0002C0	9287 1010		00010	338+	MVI	16(1),135	MOVE IN OPTION BYTE 01-OPEN
0002C4	0A13			339+	SVC	19	ISSUE OPEN SVC 01-OPEN
				340 *			00312001
				341	OPEN	((10),OUTIN,(R7),INPUT)	OPEN SYSUT1 AND SYSIN DCBS 00313001
				342+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-OPEN
0002C6	0700			343+	BAL	1,*+12	LOAD REG1 W/LIST ADDR. 01-OPEN
0002C8	4510 22D4		002D4	344+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
0002CC	00000000			345+	DC	A(0)	OPT BYTE AND DCB ADDR. 01-OPEN
0002D0	00000000			346+	ST	10,0(1,0)	STORE INTO LIST 01-OPEN
0002D4	50A1 0000		00000	347+	MVI	0(1),7	MOVE IN OPTION BYTE 01-OPEN
0002D8	9207 1000		00000	348+	ST	R7,4(1,0)	STORE INTO LIST 01-OPEN
0002DC	5071 0004		00004	349+	MVI	4(1),128	MOVE IN OPTION BYTE 01-OPEN
0002E0	9280 1004		00004	350+	SVC	19	ISSUE OPEN SVC 01-OPEN
0002E4	0A13			351 *			00314001
0002E6	D203 D090	24F8 00090	004F8	352	MVC	ERET,=A(GOTOTERM)	00315001
				353 *			00316001
				354 *	TEST	IF THE SYSPRINT DCB HAS BEEN OPENED	00317001
				355 *			00318001
		R:8 00000		356	USING	IHADCB,R8	00319001
0002EC	9110 8030		00030	357	TSTDCB	TM DCBOFLGS,DCBOFOPN	OPEN SUCCESSFULL ? 00320001
				358	DROP	R8	00321001
0002F0	4710 2302		00302	359	BO	EDITDATE	YES, BRANCH 00322001
0002F4	9610 D082		00082	360	OI	COMPFLGS+2,PRTN0	SYSPRINT DCB FAILED TO OPEN 00323001
0002F8	1878			361	LR	R7,R8	DCB ADDR 00324001
0002FA	5840 D0C0		000C0	362	L	R4,NEXTERR	00325001
0002FE	47F0 23D2		003D2	363	B	ERROR201	00326001
				364 *			00327001
				365 *	GET	DATE AND TRANSLATE IT TO DD MMM YYYY HH:MM:SS	00328001
				366 *			00329001
				367	EDITDATE	TIME DEC	GET SYSTEM DATE 00330001
				368+*	/*	MACDATE Y-1 72277	*/ 01-TIME
				369+*	/*		01-TIME
000302	4110 0002		00002	370+	EDITDATE	LA 1,2(0,0)	LOAD 1 TO SPECIFY UNIT 01-TIME
000306	0A0B			371+	SVC	11	ISSUE TIME SVC 01-TIME
				372 *			00331001
000308	9001 27A8		007A8	373	STM	R0,R1,TEMP2	STORE SYSTEM TIME AND DATE 00332001
				374 *			INTO TEMP2 AND TEMP3 00333001
				375	ED	HEADTIME,TEMP2	FORMAT TIME 00334001
000312	F321 2798	27A8 005EE	007A8	376	UNPK	TEMP(3),TEMP3+1(2)	UNPACK YY 00335001
000318	D201 25EC	2798 005EC	00798	377	MVC	HEADYEAR+2(2),TEMP	MOVE YEAR ACROSS 00336001
00031E	F871 27A0	27AE 007A0	007AE	378	ZAP	TEMP1,TEMP3+2(2)	JULIN DAY NO INTO DOUBLE WORD 00337001
000324	4FE0 27A0		007A0	379	CVB	R14,TEMP1	GET JULIAN DAY IN BINARY 00338001
000328	41F0 27B0		007B0	380	LA	R15,MNTHTBL	R15 -> MNTHTBL 00339001
00032C	4BF0 2514		00514	381	SH	R15,=H'8'	ADJUST ADDR FOR FIRST ITERATION 00340001
000330	9101 27AD		007AD	382	TM	TEMP3+1,X'01'	IF ODD YEAR THEN 00341001
000334	4710 2340		00340	383	BO	NOTLEAP	NOT LEAP YEAR 00342001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000338	9112 27AD	007AD		384	TM	TEMP3+1,X'12'	TEST FOR LEAP (OK TILL 2099)
00033C	47B0 234C		0034C	385	BNM	NEXTMNTNTH	IF MIXED NOT LEAP YEAR
000340	49E0 2810		00810	386	NOTLEAP CH	R14,H60	DDD AFTER 28TH FEBRUARY?
000344	4740 234C		0034C	387	BL	NEXTMNTNTH	NO, LEAP YEAR IRRELEVANT
000348	41E0 E001		00001	388	LA	R14,1(,R14)	YES, FUDGE DDD ACCORDINGLY
00034C	41F0 F008		00008	389	NEXTMNTNTH LA	R15,8(,R15)	INCREMENT THRU MONTH TABLE
000350	4BE0 F000		00000	390	SH	R14,0(,R15)	DECREASE NUMBER OF DAYS
000354	4720 234C		0034C	391	BP	NEXTMNTNTH	NOT YET, TRY NEXT MONTH
				392	*		FOUND THE CORRECT MONTH
000358	4AE0 F000		00000	393	AH	R14,0(,R15)	ADD BACK THE DAYS IN MONTH
00035C	4EE0 27A0		007A0	394	CVD	R14,TEMP1	GET DAY OF MONTH
000360	960F 27A7	007A7		395	OI	TEMP1+7,X'0F'	MAKE UNPK RESULT PRINTABLE
000364	F311 25E3	27A6	005E3	396	UNPK	HEADDAY,TEMP1+6(2)	FORMAT DAY OF MONTH
00036A	D202 25E6	F002	005E6	397	MVC	HEADMON,2(R15)	MOVE IN MONTH NAME
				398	*		
				399	*	SETUP HEADING LINE	
				400	*		
000370	D278 D10C	258C	0010C	401	MVC	PAGEHD1,HEADING	FIRST LINE ON PAGE
				402	*		
000376	D203 D090	2508	00090	403	MVC	ERET,=A(GOTOEDIT)	ERROR ROUTINE FOR REST OF PHASE
				404	*		
				405	*	TEST IF THE OTHER DCBS HAVE BEEN OPENED	
				406	*		
00037C	983C D048		00048	407	LM	R3,R12,DCBTABLE	R3 -> SYSLIN DCB
000380	5840 D0C0		000C0	408	L	R4,NEXTERR	
		R:3	00000	409	USING	IHADCB,R3	
000384	9140 D081		00081	410	TM	COMPFLGS+1,NLOAD	NLOAD SPECIFIED ?
000388	4710 23A2		003A2	411	BO	TSTPUNCH	YES, BRANCH
00038C	9110 3030		00030	412	TM	DCBOFLGS,DCBOFOPN	DCB OPENED SUCCESSFULLY ?
000390	4710 23A2		003A2	413	BO	TSTPUNCH	YES, BRANCH
000394	9640 D081		00081	414	OI	COMPFLGS+1,NLOAD	NO, SET NLOAD OPTION
000398	D203 4000	2550	00000	415	MVC	0(4,R4),PTRN202	PATTERN FOR MSG 202
00039E	4144 0004		00004	416	LA	R4,4(R4)	POINTER TO NEXT FREE ENTRY
				417	DROP	R3	
		R:9	00000	418	USING	IHADCB,R9	R9 -> SYSPUNCH
0003A2	9120 D081		00081	419	TSTPUNCH TM	COMPFLGS+1,NDECK	NODECK SPECIFIED ?
0003A6	4710 23C0		003C0	420	BO	TSTIN	YES, BRANCH
0003AA	9110 9030		00030	421	TM	DCBOFLGS,DCBOFOPN	SYSPUNCH DCB OPEN SUCESSFULLY ?
0003AE	4710 23C0		003C0	422	BO	TSTIN	YES, BRANCH
0003B2	9620 D081		00081	423	OI	COMPFLGS+1,NDECK	NO, SET NODECK OPTION
0003B6	D203 4000	2554	00000	424	MVC	0(4,R4),PTRN203	PATTERN FOR MSG 203
0003BC	4144 0004		00004	425	LA	R4,4(R4)	POINTER TO NEXT FREE ENTRY
				426	DROP	R9	
				427	*		
0003C0	45E0 23D6		003D6	428	TSTIN BAL	R14,TSTDCBRT	DCB ADDR FOR SYSIN IS IN REG 7
0003C4	187A			429	LR	R7,R10	TEST SYSUT1
0003C6	45E0 23D6		003D6	430	BAL	R14,TSTDCBRT	
0003CA	187B			431	LR	R7,R11	TEST SYSUT2
0003CC	45E0 23D6		003D6	432	BAL	R14,TSTDCBRT	
0003D0	187C			433	LR	R7,R12	TEST SYSUT3
				434	*		
				435	*	ENTRY IF SYSPRINT NOT OPENED	
				436	*		
0003D2	41E0 23F2		003F2	437	ERROR201 LA	R14,STPOINTR	DO NOT RETURN
		R:7	00000	438	USING	IHADCB,R7	
0003D6	9110 7030		00030	439	TSTDCBRT TM	DCBOFLGS,DCBOFOPN	DCB OPENED ?
0003DA	071E			440	BOR	R14	YES, RETURN
0003DC	D203 4000	254C	00000	441	MVC	0(4,R4),PTRN201	PATTERN FOR MSG 201
0003E2	D207 4004	7028	00004	442	MVC	4(8,R4),DCBDDNAM	MOVE DDNAME INTO MSG
0003E8	4144 000C		0000C	443	LA	R4,12(R4)	UPDATE POINTER
0003EC	9601 D081		00081	444	OI	COMPFLGS+1,NOGO	SET NOGO SWITCH ON
0003F0	07FE			445	BR	R14	RETURN
				446	*		
				447	DROP	R7	
0003F2	5040 D0C0		000C0	448	STPOINTR ST	R4,NEXTERR	
				449	*		
				450	*	END OF INITIALIZATION OF THE COMPILER	
				451	*	GOTO SCAN 1/2 OR TO PHASE 21 FOR ERROR EDITING IF	
				452	*	COMPILATION IS IMPOSSIBLE	
				453	*		
0003F6	9101 D081		00081	454	TM	COMPFLGS+1,NOGO	
0003FA	4710 246A		0046A	455	BO	GOTOEDIT	IF COMPILATION IMPOSSIBLE
0003FE	5820 250C		0050C	456	L	R2,=A(IEX10001)	
000402	07F2			457	BR	R2	TO INITIALIZE IEX11
				458	*		
				459	*	DCB EXIT ROUTINES	
				460	*		
		R:1	00000	461	USING	IHADCB,R1	
				462	*		
				463	*	SYSLIN OPEN EXIT	
				464	*		
000404	4860 103E		0003E	465	INEXRT LH	R6,DCBBLKSI	GET BLKSIZE
000408	1266			466	LTR	R6,R6	VALUE PROVIDED ?
00040A	077E			467	BNZR	R14	YES, RETURN
00040C	D201 103E	1052	0003E	468	MVC	DCBBLKSI,DCBLRECL	NO, SET BLKSIZE TO LRECL
000412	07FE			469	BR	R14	RETURN
				470	*		
				471	*	SYSLIN OPEN EXIT	
				472	*		
000414	4860 103E		0003E	473	LINEXRT LH	R6,DCBBLKSI	GET BLKSIZE
000418	1266			474	LTR	R6,R6	VALUE PROVIDED ?
00041A	077E			475	BNZR	R14	YES, RETURN
00041C	4160 0C80		00C80	476	LA	R6,3200	SET A DEFAULT OF 3200
000420	4060 103E		0003E	477	STH	R6,DCBBLKSI	UPDATE BLKSIZE
000424	07FE			478	BR	R14	RETURN
				479	*		



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				480 *		SYSPUNCH OPEN EXIT	00439001
				481 *			00440001
000426	4860 103E		0003E	482 PCHEXRT	LH R6,DCBBLKSI	GET BLKSIZE	00441001
00042A	1266			483	LTR R6,R6	VALUE PROVIDED ?	00442001
00042C	077E			484	BNZR R14	YES, RETURN	00443001
00042E	D201 103E 1052 0003E 00052			485	MVC DCBBLKSI,DCBLRECL	NO, SET BLKSIZE TO LRECL	00444001
000434	07FE			486	BR R14	RETURN	00445001
				487 *			00446001
				488 *		SYSPRINT OPEN EXIT	00447001
				489 *			00448001
000436	4860 103E		0003E	490 PRTEXRT	LH R6,DCBBLKSI	GET BLKSIZE	00449001
00043A	1266			491	LTR R6,R6	VALUE PROVIDED ?	00450001
00043C	077E			492	BNZR R14	YES, RETURN	00451001
00043E	D201 103E 1052 0003E 00052			493	MVC DCBBLKSI,DCBLRECL	NO, SET BLKSIZE TO LRECL	00452001
000444	07FE			494	BR R14	RETURN	00453001
				495 *			00454001
				496	DROP R1		00455001
				497 *			00456001
				498 *		ERROR ROUTINES	00457001
				499 *			00458001
				500 *		ROUTINE FOR UNEXPECTED ERROR DURING OPEN	00459001
				501 *		ENTERED VIA ERET	00460001
				502 *			00461001
000446	9601 D081		00081	503 OPEXERR	OI COMPFGLS+1,NOGO		00462001
00044A	07FE			504	BR R14	GO BACK TO OPEN ROUTINE	00463001
				505 *			00464001
				506	DROP R2		00465001
				507 *			00466001
				508 *		EXIT TO TERMINATING PHASE IF ERROR EDITING NOT POSSIBLE	00467001
				509 *			00468001
00044C	0520			510 GOTOTERM	BALR R2,0		00469001
		R:2 0044E		511	USING *,R2		00470001
00044E	4540 203C		0048A	512	BAL R4,CLOSE		00471001
				513 *			00472001
				514	XCTL EP=IEX51002	GO TO TERMINATING PHASE	00473001
000452	0700			515+	CNOP 0,4		02-IHBIN
000454	45F0 201A		00468	516+	BAL 15,*,+20	BRANCH AROUND CONSTANTS	02-IHBIN
000458	00000460			517+	DC A(*+8)	ADDR. OF PARM. LIST	02-IHBIN
00045C	00000000			518+	DC A(0)	DCB ADDRESS PARAMETER	02-IHBIN
000460	C9C5E7F5F1F0F0F2			519+	DC CL8'IEX51002'	EP PARAMETER	02-IHBIN
000468	0A07			520+	SVC 7	ISSUE XCTL SVC	01-XCTL
				521 *			00474001
				522	DROP R2		00475001
				523 *			00476001
				524 *		TERMINATE VIA ERROR EDITING PHASE	00477001
				525 *			00478001
00046A	0520			526 GOTOEDIT	BALR R2,0		00479001
		R:2 0046C		527	USING *,R2		00480001
00046C	4540 201E		0048A	528	BAL R4,CLOSE		00481001
000470	9608 D080		00080	529	OI COMPFGLS,TERR	INDICATE TERMINATING ERROR	00482001
				530 *			00483001
				531	XCTL EP=IEX21000	GO TO EDIT PHASE	00484001
000474				532+	CNOP 0,4		02-IHBIN
00047A	45F0 201C		00488	533+	BAL 15,*,+20	BRANCH AROUND CONSTANTS	02-IHBIN
000478	00000480			534+	DC A(*+8)	ADDR. OF PARM. LIST	02-IHBIN
00047C	00000000			535+	DC A(0)	DCB ADDRESS PARAMETER	02-IHBIN
000480	C9C5E7F2F1F0F0F0			536+	DC CL8'IEX21000'	EP PARAMETER	02-IHBIN
000488	0A07			537+	SVC 7	ISSUE XCTL SVC	01-XCTL
				538 *			00485001
				539	DROP R2		00486001
				540 *			00487001
				541 *		SUBROUTINE FOR CLOSING SYSIN AND SYSUT1	00488001
				542 *			00489001
00048A	0530			543 CLOSE	BALR R3,0		00490001
		R:3 0048C		544	USING *,R3		00491001
00048C	5860 D058		00058	545	L R6,ASYSDCB	R6 -> SYSIN DCB	00492001
		R:6 00000		546	USING IHADCB,R6		00493001
000490	9110 6030		00030	547	TM DCBOFLGS,DCBOFOPN	OPEN SUCCESSFULLY ?	00494001
				548	DROP R6		00495001
000494	4710 3010		0049C	549	BO *,+8	YES, BRANCH	00496001
000498	96F0 302F		004BB	550	OI SWITCH+1,X'F0'	NO, SYSIN NOT OPENED	00497001
00049C	5870 D064		00064	551	L R7,AUT1DCB	R7 -> SYSUT1 DCB	00498001
				552 *			00499001
				553	CLOSE ((6),,(7))	CLOSE SYSIN AND SYSUT1	00500001
0004A0				554+	CNOP 0,4	ALIGN LIST TO FULLWORD	01-CLOSE
0004A0	4510 3020		004AC	555+	BAL 1,*,+12	LOAD REG1 W/LIST ADDR	01-CLOSE
0004A4	00000000			556+	DC A(0)	OPTION AND DCB ADDRESS	01-CLOSE
0004A8	00000000			557+	DC A(0)	OPTION AND DCB ADDRESS	01-CLOSE
0004AC	5061 0000		00000	558+	ST 6,0(1,0)	STORE DCB ADDRESS	01-CLOSE
0004B0	5071 0004		00004	559+	ST 7,4(1,0)	STORE DCB ADDRESS	01-CLOSE
0004B4	9280 1004		00004	560+	MVI 4(1),128	MOVE IN OPTION BYTE	01-CLOSE
0004B8	0A14			561+	SVC 20	ISSUE CLOSE SVC	01-CLOSE
				562 *			00501001
0004BA	0704			563 SWITCH	NOPR R4	RETURN IF SYSIN NOT OPENED	00502001
				564 *			00503001
				565	FREEPOOL (R6)	FREE SYSIN BUFFER	00504001
0004BC	1816			566+	LR 1,R6	LOAD PARAMETER REG 1	02-IHBIN
0004BE	58F0 1014		00014	567+	L 15,20(0,1)	LOAD BUFCB ADDRESS	01-FREEP
0004C2	9601 1017		00017	568+	OI 23(1),1	INDICATE NO BUFCB ADDR	01-FREEP
0004C6	1BEE			569+	SR 14,14	CLEAR REGISTER	01-FREEP
0004C8	1B11			570+	SR 1,1	CLEAR REGISTER	@ZA79785 01-FREEP
0004CA	BF13 F006		00006	571+	ICM 1,3,6(15)	LOAD LENGTH OF BUFFERS	@ZA86199 01-FREEP
0004CE	43E0 F005		00005	572+	IC 14,5(0,15)	NUMBER OF BUFFERS	@ZA79785 01-FREEP
0004D2	1C0E			573+	MR 0,14	AREA TO BE FREED	@ZA79785 01-FREEP
0004D4	4110 1008		00008	574+	LA 1,8(0,1)	ACCOUNT FOR BCB	@ZA86199 01-FREEP
0004D8	9140 F004		00004	575+	TM 4(15),X'40'	IS BUFCB 16 BYTES	@ZA19719 01-FREEP

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0004DC	47E0 3058		004E4	576+	BNO	*+8	BRANCH IF BUFCB = 8 BYTES 01-FREEP
0004E0	4110 1008		00008	577+	LA	1,8(0,1)	ADJUST SIZE PLUS 8 @ZA87508 01-FREEP
0004E4	1801			578+	LR	0,1	LOAD LENGTH TO BE FREED @ZA86199 01-FREEP
0004E6	4110 F000		00000	579+	LA	1,0(0,15)	LOAD AREA ADDRESS 01-FREEP
0004EA	0A0A			580+	SVC	10	ISSUE FREEMAIN SVC 01-FREEP
				581 *			00505001
0004EC	07F4			582	BR	R4	RETURN 00506001
				583 *			00507001
				584	DROP	R3	00508001
				585 *			00509001
0004F0				586	LTORG		00510001
0004F0	0000000000000000			587		=XL8'00'	
0004F8	0000044C			588		=A(GOTOTERM)	
0004FC	0000B000			589		=F'45056'	
000500	00000050			590		=F'80'	
000504	00000446			591		=A(OPEXERR)	
000508	0000046A			592		=A(GOTOEDIT)	
00050C	00000818			593		=A(IEX10001)	
000510	0001			594		=H'1'	
000512	0007			595		=H'7'	
000514	0008			596		=H'8'	
000516	0018			597		=H'24'	
000518	E2C9E9C57E			598		=C'SIZE=	
00051D	000530			599		=AL3(LINEX)	
000520	00052C			600		=AL3(INEX)	
000523	000538			601		=AL3(PRINTEX)	
000526	000534			602		=AL3(PCHEX)	
				603 *			00511001
				604 *	DCB EXIT LIST FOR SYSIN, SYSLIN, SYSPUNCH AND SYSPRINT		00512001
				605 *			00513001
000529	000000						
00052C				606	DC	0F'0'	00514001
00052C	85000404			607	INEX	DC X'85',AL3(INEXRT)	00515001
000530	85000414			608	LINEX	DC X'85',AL3(LINEXRT)	00516001
000534	85000426			609	PCHEX	DC X'85',AL3(PCHEXRT)	00517001
000538	85000436			610	PRINTEX	DC X'85',AL3(PRTEXRT)	00518001
				611 *			00519001
				612 *			00520001
				613 *	PATTERNS FOR THE ERROR MESSAGES OF THE INITIALIZATION		00521001
				614 *	PHASE		00522001
				615 *			00523001
				616 *	W OPTION PARAMETER ... IS INVALID. THE PARAMETER IS		00524001
				617 *	DISREGARDED		00525001
				618 *			00526001
00053C	90C8000040404040			619	PTRN200	DC AL1(128+16,200),AL2(0),CL12' '	00527001
				620 *			00528001
				621 *	T DD CARD FOR ... IS INCORRECT OR MISSING		00529001
				622 *			00530001
00054C	8CC90000			623	PTRN201	DC AL1(128+12,201),AL2(0)	00531001
				624 *			00532001
				625 *	W DD CARD FOR SYSLIN IS INCORRECT OR MISSING. OPTION		00533001
				626 *	NOLOAD IS ASSUMED		00534001
				627 *			00535001
000550	84CA0000			628	PTRN202	DC AL1(128+4,202),AL2(0)	00536001
				629 *			00537001
				630 *	W DD CARD FOR SYSPUNCH IS INCORRECT OF MISSING. OPTION		00538001
				631 *	NODECK IS ASSUMED		00539001
				632 *			00540001
000554	84CB0000			633	PTRN203	DC AL1(128+4,203),AL2(0)	00541001
				634 *			00542001
				635 *	T BLOCKSIZE SPECIFIED FOR SYSIN IS INCORRECT		00543001
				636 *			00544001
000558	84CC0000			637	PTRN204	DC AL1(128+4,204),AL2(0)	00545001
				638 *			00546001
				639 *	W BLOCKSIZE SPECIFIED FOR ... IS INCORRECT. UNBLOCKED		00547001
				640 *	OUTPUT IS GENERATED INSTEAD		00548001
				641 *			00549001
00055C	8CCD0000E2E8E2D3			642	PTRN205A	DC AL1(128+12,205),AL2(0),CL8'SYSLIN'	00550001
000568	8CCD0000E2E8E2D7			643	PTRN205B	DC AL1(128+12,205),AL2(0),CL8'SYSPUNCH'	00551001
000574	8CCD0000E2E8E2D7			644	PTRN205C	DC AL1(128+12,205),AL2(0),CL8'SYSPRINT'	00552001
				645 *			00553001
				646 *	W INCORRECT PARAMETER FIELD. NO OPTION PARAMETERS ARE		00554001
				647 *	HANDLED ANY MORE		00555001
				648 *			00556001
000580	84CE0000			649	PTRN206	DC AL1(128+4,206),AL2(0)	00557001
				650 *			00558001
				651 *	W POSSIBLE ERROR IN DD NAMES PARAMETER		00559001
				652 *			00560001
000584	84CF0000			653	PTRN207	DC AL1(128+4,207),AL2(0)	00561001
				654 *			00562001
				655 *	T SIZE PARAMERER IS INCORRECT. MINIMUM STORAGE SIZE FOR		00563001
				656 *	ALGOL F COMPILER IS 45056 BYTES		00564001
				657 *			00565001
000588	84D00000			658	PTRN208	DC AL1(128+4,208),AL2(0)	00566001
				659 *			00567001
				660 *	FIRST LINE OF PRINTED OUTPUT		00568001
				661 *			00569001
00058C	4040404040404040			662	HEADING	DC CL121' ' HEADING LINE	00570001
000605		00605	0058C	663	ORG		00571001
00058C	F1			664	DC	C'1' ASA CNTL	00572001
00058D	F3F6F0E260C1D360			665	DC	C'360S-AL-531 LEVEL 2.1' IDENTIFY UPDATED SOURCE	00573001
0005A2	4040404040404040			666	DC	C' OS ALGOL F'	00574001
0005B6		005B6	005E3	667	ORG	HEADING+87	00575001
0005E3	C4C4			668	HEADDAY	DC C'DD'	00576001
0005E5	40			669	DC	C' '	00577001
0005E6	D4D4D4			670	HEADMON	DC C'MMM' ALPHA 3 CHAR MONTH	00578001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
0005E9	40			671	DC	C ' '			00579001
0005EA	F2F0E7E7			672	HEADYEAR	DC C '20XX'			00580001
0005EE	4021217A21217A21			673	HEADTIME	DC XL9 '4021217A21217A2121' PATTERN FOR TIME			00581001
0005F7	404040404040			674	DC	C ' '			00582001
0005FD	D7C1C7C5404040F1			675	HEADPAGE	DC C 'PAGE 1'			00583001
000605		00605	00605	676	ORG	,		V	00584001
				677	*				00585001
				678	*	TABLE OF OPTION PARAMETERS			00586001
				679	*				00587001
000605	06			680	PARMLIST	DC AL1(6) (LENGTH-1) OF PARAM			00588001
000606	D7D9D6C7D9C1D440			681	DC	CL9 'PROGRAM' PARAMETER			00589001
00060F	00								
000610	94FB D080		00080	682	NI	COMPFLGS,PGR SET SWITCH IN COMPFLGS			00590001
000614	08			683	LENGTH	DC AL1(8)			00591001
000615	D7D9D6C3C5C4E4D9			684	PARAM	DC CL9 'PROCEDURE'			00592001
00061E	9604 D080		00080	685	INSTR	OI COMPFLGS,PROC			00593001
000622	04			686	DC	AL1(4)			00594001
000623	E2C8D6D9E3404040			687	DC	CL9 'SHORT'			00595001
00062C	94FD D080		00080	688	NI	COMPFLGS,SHRT			00596001
000630	03			689	DC	AL1(3)			00597001
000631	D3D6D5C740404040			690	DC	CL9 'LONG'			00598001
00063A	9602 D080		00080	691	OI	COMPFLGS,LNG			00599001
00063E	05			692	DC	AL1(5)			00600001
00063F	E2D6E4D9C3C54040			693	DC	CL9 'SOURCE'			00601001
000648	947F D081		00081	694	NI	COMPFLGS+1,SRCE			00602001
00064C	07			695	DC	AL1(7)			00603001
00064D	D5D6E2D6E4D9C3C5			696	DC	CL9 'NOSOURCE'			00604001
000656	9680 D081		00081	697	OI	COMPFLGS+1,NSRCE			00605001
00065A	03			698	DC	AL1(3)			00606001
00065B	D3D6D1C440404040			699	DC	CL9 'LOAD'			00607001
000664	94BF D081		00081	700	NI	COMPFLGS+1,LOAD			00608001
000668	05			701	DC	AL1(5)			00609001
000669	D5D6D3D6C1C44040			702	DC	CL9 'NLOAD'			00610001
000672	9640 D081		00081	703	OI	COMPFLGS+1,NLOAD			00611001
000676	03			704	DC	AL1(3)			00612001
000677	C4C5C3D240404040			705	DC	CL9 'DECK'			00613001
000680	94DF D081		00081	706	NI	COMPFLGS+1,DECK			00614001
000684	05			707	DC	AL1(5)			00615001
000685	D5D6C4C5C3D24040			708	DC	CL9 'NODECK'			00616001
00068E	9620 D081		00081	709	OI	COMPFLGS+1,NDECK			00617001
000692	05			710	DC	AL1(5)			00618001
000693	C5C2C3C4C9C34040			711	DC	CL9 'EBCDIC'			00619001
00069C	94EF D081		00081	712	NI	COMPFLGS+1,EBCDIC			00620001
0006A0	05			713	DC	AL1(5)			00621001
0006A1	D5D6E3C5E2E34040			714	DC	CL9 'NOTEST'			00622001
0006AA	9604 D082		00082	715	OI	COMPFLGS+2,NOTEST			00623001
0006AE	03			716	DC	AL1(3)			00624001
0006AF	E3C5E2E340404040			717	DC	CL9 'TEST'			00625001
0006B8	94FB D082		00082	718	NI	COMPFLGS+2,TEST			00626001
0006BC	02			719	DC	AL1(2)			00627001
0006BD	C9E2D64040404040			720	DC	CL9 'ISO'			00628001
0006C6	9610 D081		00081	721	OI	COMPFLGS+1,ISO			00629001
0006CA	01			722	DC	AL1(1)			00630001
0006CB	D5E2404040404040			723	DC	CL9 'NS'			00631001
0006D4	9680 D081		00081	724	OI	COMPFLGS+1,NSRCE			00632001
0006D8	01			725	DC	AL1(1)			00633001
0006D9	D5C4404040404040			726	DC	CL9 'ND'			00634001
0006E2	9620 D081		00081	727	OI	COMPFLGS+1,NDECK			00635001
0006E6	01			728	DC	AL1(1)			00636001
0006E7	D5D3404040404040			729	DC	CL9 'NL'			00637001
0006F0	9640 D081		00081	730	OI	COMPFLGS+1,NLOAD			00638001
0006F4	01			731	DC	AL1(1)			00639001
0006F5	C5C2404040404040			732	DC	CL9 'EB'			00640001
0006FE	94EF D081		00081	733	NI	COMPFLGS+1,EBCDIC			00641001
000702	01			734	DC	AL1(1)			00642001
000703	D7C7404040404040			735	DC	CL9 'PG'			00643001
00070C	94FB D080		00080	736	NI	COMPFLGS,PGR			00644001
000710	01			737	DC	AL1(1)			00645001
000711	D7C3404040404040			738	DC	CL9 'PC'			00646001
00071A	9604 D080		00080	739	OI	COMPFLGS,PROC			00647001
00071E	01			740	DC	AL1(1)			00648001
00071F	D5E3404040404040			741	DC	CL9 'NT'			00649001
000728	9604 D082		00082	742	OI	COMPFLGS+2,NOTEST			00650001
00072C	01			743	DC	AL1(1)			00651001
00072D	E2D7404040404040			744	DC	CL9 'SP'			00652001
000736	94FD D080		00080	745	NI	COMPFLGS,SHRT			00653001
00073A	01			746	DC	AL1(1)			00654001
00073B	D3D7404040404040			747	DC	CL9 'LP'			00655001
000744	9602 D080		00080	748	OI	COMPFLGS,LNG			00656001
000748	00			749	DC	AL1(0)			00657001
000749	C440404040404040			750	DC	CL9 'D'			00658001
000752	94DF D081		00081	751	NI	COMPFLGS+1,DECK			00659001
000756	00			752	DC	AL1(0)			00660001
000757	C940404040404040			753	DC	CL9 'I'			00661001
000760	9610 D081		00081	754	OI	COMPFLGS+1,ISO			00662001
000764	00			755	DC	AL1(0)			00663001
000765	D340404040404040			756	DC	CL9 'L'			00664001
00076E	94BF D081		00081	757	NI	COMPFLGS+1,LOAD			00665001
000772	00			758	DC	AL1(0)			00666001
000773	E240404040404040			759	DC	CL9 'S'			00667001
00077C	947F D081		00081	760	NI	COMPFLGS+1,SRCE			00668001
000780	00			761	LSTENTRY	DC AL1(0)			00669001
000781	E340404040404040			762	DC	CL9 'T'			00670001
00078A	94FB D082		00082	763	NI	COMPFLGS+2,TEST			00671001
				764	*				00672001
				765	*	WORKSPACE FOR TRANSLATING THE SIZE PARAMETER AND THE			00673001

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				766 *		ACTUAL DATE	00674001
				767 *			00675001
00078E	0000						
000790				768	DC	0D'0'	00676001
000790	0000000000000000C			769	FIELD1	PL8'0'	00677001
				770 *			00678001
000798	00000000			771	TEMP	F'0'	00679001
00079C	00000000					TEMP WORK SLOT	
0007A0	0000000000000000			772	TEMP1	D'0'	00680001
0007A8	00000000			773	TEMP2	F'0'	00681001
0007AC	00000000			774	TEMP3	F'0'	00682001
				775 *			00683001
				776 *		TABLE OF THE MONTH NAMES AND THE NUMBER OF DAYS	00684001
				777 *			00685001
0007B0	001F			778	MNTHBL	H'31'	00686001
0007B2	D1C1D540			779		JAN DAYS IN MONTH	00687001
0007B6	F0F1			780		3 CHAR MONTH CODE	00688001
0007B8	001D			781		MONTH NUMBER	00689001
0007BA	C6C5C240			782		FEB	00690001
0007BE	F0F2			783			00691001
0007C0	001F			784			00692001
0007C2	D4C1D940			785		MAR	00693001
0007C6	F0F3			786			00694001
0007C8	001E			787		APR	00695001
0007CA	C1D7D940			788			00696001
0007CE	F0F4			789			00697001
0007D0	001F			790		MAY	00698001
0007D2	D4C1E840			791			00699001
0007D6	F0F5			792			00700001
0007D8	001E			793		JUN	00701001
0007DA	D1E4D540			794			00702001
0007DE	F0F6			795			00703001
0007E0	001F			796		JUL	00704001
0007E2	D1E4D340			797			00705001
0007E6	F0F7			798			00706001
0007E8	001F			799		AUG	00707001
0007EA	C1E4C740			800			00708001
0007EE	F0F8			801			00709001
0007F0	001E			802		SEP	00710001
0007F2	E2C5D740			803			00711001
0007F6	F0F9			804			00712001
0007F8	001F			805		OCT	00713001
0007FA	D6C3E340			806			00714001
0007FE	F1F0			807			00715001
000800	001E			808		NOV	00716001
000802	D5D6E540			809			00717001
000806	F1F1			810			00718001
000808	00FF			811		DEC (ALLOW FOR STUPID DDD)	00719001
00080A	C4C5C340			812			00720001
00080E	F1F2			813			00721001
				814 *			00722001
000810	003C			815	H60	H'60'	00723001
				816 *			00724001
000818		00818	00016	817	IEX10001	CSECT	00725001
				818 *			00726001
	R:2	00818		819		USING IEX10001,R2	00727001
				820 *			00728001
				821 *		INSTRUCTIONS FOR INITIALIZING IEX11 CAN BE INSERTED HERE	00729001
				822 *			00730001
				823	XCTL	EP=IEX11000	00731001
000818				824+	CNOP	0,4	02-IHBIN
000818	45F0 2014		0082C	825+	BAL	15,*+20	02-IHBIN
00081C	00000824			826+	DC	A(*+8)	02-IHBIN
000820	00000000			827+	DC	A(0)	02-IHBIN
000824	C9C5E7F1F1F0F0F0			828+	DC	CL8'IEX11000'	02-IHBIN
00082C	0A07			829+	SVC	7	01-XCTL
				830 *		ISSUE XCTL SVC	00732001
				831 *			00733001
				832 *		DUMMY CONTROL SECTION TO PROVIDE ADRESSABILITY OF DCB	00734001
				833			00735001
				834 *		PRINT NOGEN	00736001
				835		DCBD DSORG=(PS),DEVD=(DA)	00737001
				1393 *			00738001
				1394		PRINT GEN	00739001
				1395 *			00740001
000000		00000	00CB6	1396	WORKAREA	DSECT	00741001
				1397 *			00742001
				1398		COPY WORKAREA	00743001
				1399=*			00001001
				1400=*		WORKAREA - MAPPING CSECT IEX00001	00002001
				1401=*			00003001
				1402=*		ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT	00004001
				1403=*			00005001
000000	0000000000000000			1404=	SAVEAREA	DC 18F'0'	00006001
				1405=*			00007001
				1406=*		DCB ADDR5	00008001
				1407=*			00009001
000048				1408=	DCBTABLE	DC 0F'0'	00010001
000048	00000000			1409=	ALINDCB	DC A(0)	00011001
00004C	00000000			1410=	DC	A(0)	00012001
000050	00000000			1411=	DC	A(0)	00013001
000054	00000000			1412=	DC	A(0)	00014001
000058	00000000			1413=	ASYSDCB	DC A(0)	00015001
00005C	00000000			1414=	APRTDCB	DC A(0)	00016001
000060	00000000			1415=	APCHDCB	DC A(0)	00017001
000064	00000000			1416=	AUT1DCB	DC A(0)	00018001

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000068	00000000		1417=AUT2DCB	DC	A(0)				00019001
00006C	00000000		1418=AUT3DCB	DC	A(0)				00020001
			1419=*						00021001
			1420=*		END OF DATA EXIT ADDR5				00022001
			1421=*						00023001
000070	00000000		1422=EODUT1	DC	A(0)		SYSUT1		00024001
000074	00000000		1423=EODUT2	DC	A(0)		SYSUT2		00025001
000078	00000000		1424=EODUT3	DC	A(0)		SYSUT3		00026001
00007C	00000000		1425=EODIN	DC	A(0)		SYSIN		00027001
			1426=*						00028001
			1427=*		OPTION SWITCHES IN COMPFLGS				00029001
			1428=*						00030001
			1429=*		ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -				00031001
			1430=*						00032001
			1431=*		PURPOSE		POSITION		00033001
			1432=*				BYTE 1	BYTE 2	00034001
			1433=*				01234567	01234567	00035001
			1434=*					01234567	00036001
			1435=*		COMPMODE (SYNTAX CHECK)	X			00037001
			1436=*		SUBSCRIPT OPTIMIZATION	X			00038001
			1437=*		WARNING ERROR	X			00039001
			1438=*		SERIOUS ERROR	X			00040001
			1439=*		TERMINATING ERROR	X			00041001
			1440=*		PROCEDURE/PROGRAM	X			00042001
			1441=*		LONG/SHORT PRECISION	X			00043001
			1442=*		OPERAND	X			00044001
			1443=*						00045001
			1444=*		NOSOURCE/SOURCE		X		00046001
			1445=*		NOLOAD/LOAD		X		00047001
			1446=*		NODECK/DECK		X		00048001
			1447=*		ISO/EBCDIC		X		00049001
			1448=*		PROGRAM INTERRUPT		X		00050001
			1449=*		TERMINATING PHASE ENTERED		X		00051001
			1450=*		NO BUFFERS ASSIGNED		X		00052001
			1451=*		NO COMPILEATION POSSIBLE		X		00053001
			1452=*						00054001
			1453=*		SYSPRINT DOWN			X	00055001
			1454=*		WHOLE SOURCE PROG IN CORE			X	00056001
			1455=*		NO OPTAB			X	00057001
			1456=*		SYSPRINT NOT OPENED			X	00058001
			1457=*		ERROR UNRELATED TO SEMICOLON NR			X	00059001
			1458=*		NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)			X	00060001
			1459=*		60 CHARACTER SET			X	00061001
			1460=*		(RESERVED)			X	00062001
			1461=*						00063001
000080	00220000		1462=COMPFLGS	DC	X'00220000'		PARAMETERS AND SWITCHES		00064001
			1463=*						00065001
			1464=*		OPTION SWITCHES IN COMPFLGS				00066001
			1465=*						00067001
000080			1466=COMPMODE	EQU	X'80'		SYNTAX CHECK MODE		00068001
000040			1467=SUBSCOPT	EQU	X'40'		SUBSCRIPT OPTIMIZATION		00069001
0000FB			1468=PGR	EQU	X'FB'				00070001
000004			1469=PROC	EQU	X'04'		PRECOMPILED PROCEDURE		00071001
			1470=*						00072001
0000FD			1471=SHRT	EQU	X'FD'				00073001
000002			1472=LNG	EQU	X'02'				00074001
000001			1473=OPERAND	EQU	X'01'				00075001
			1474=*						00076001
			1475=*		ERROR SEVERITY INDICATORS IN COMPFLGS				00077001
			1476=*						00078001
000020			1477=WERR	EQU	X'20'		WARNING ERROR		00079001
000010			1478=SERR	EQU	X'10'		SERIOUS ERROR		00080001
000008			1479=TERR	EQU	X'08'		TERMINATING ERROR		00081001
			1480=*						00082001
			1481=*		OPTION SWITCHES IN COMPFLGS+1				00083001
			1482=*						00084001
00007F			1483=SRCE	EQU	X'7F'				00085001
000080			1484=NSRCE	EQU	X'80'				00086001
			1485=*						00087001
0000BF			1486=LOAD	EQU	X'BF'				00088001
000040			1487=NLOAD	EQU	X'40'				00089001
			1488=*						00090001
0000DF			1489=DECK	EQU	X'DF'				00091001
000020			1490=NDECK	EQU	X'20'				00092001
			1491=*						00093001
0000EF			1492=EBCDIC	EQU	X'EF'				00094001
000010			1493=ISO	EQU	X'10'				00095001
			1494=*						00096001
			1495=*		TERMINATION SWITCHES IN COMPFLGS+1				00097001
			1496=*						00098001
000008			1497=ERR	EQU	X'08'		PROGRAM INTERRUPT HAS		00099001
			1498=*				OCCURED IN COMPILER		00100001
000004			1499=TERM	EQU	X'04'		LAST PHASE HAS BEEN ENTERED		00101001
000002			1500=NOBUF	EQU	X'02'		ERROR POOL IS IN WORKAREA		00102001
			1501=*				NO SCE PROG BUFF 1		00103001
000001			1502=NOGO	EQU	X'01'		COMPILEATION NOT POSSIBLE		00104001
			1503=*				DO NOT START SCAN 1		00105001
000003			1504=NOBUNOGO	EQU	X'03'		NOBUF AND NOGO		00106001
			1505=*						00107001
			1506=*		SWITCHES IN COMPFLGS+2				00108001
			1507=*						00109001
000080			1508=PRT	EQU	X'80'		SYSPRINT NOT AVAILABLE		00110001
000040			1509=SPIC	EQU	X'40'		SOURCE PROGRAM IN STORAGE		00111001
000020			1510=NOPT	EQU	X'20'		NO SUBSCRIPT OPTIMIZATION		00112001
000010			1511=PRTNO	EQU	X'10'		SYSPRINT NOT OPENED		00113001
000008			1512=NOSC	EQU	X'08'		SEMICOLON COUNTER NOT VALID		00114001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				1513=*			00115001
		00004		1514=NOTEST	EQU	X'04'	00116001
		000FB		1515=TEST	EQU	X'FB'	00117001
				1516=*		EMBED SC COUNT IN CODE (DEFAULT)	00118001
		00002		1517=SET60	EQU	X'02'	00119001
				1518=*		60 CHARACTER SET IS TO BE USED	00120001
				1519=*		MISCELLANEOUS CONTROL INFORMATION	00121001
				1520=*			00122001
000084	0000B000			1521=SIZE	DC	F'45056'	00123001
000088	00000000			1522=PICADD	DC	A(0)	00124001
00008C	00000000			1523=HDING	DC	F'0'	00125001
000090	00000000			1524=ERET	DC	F'0'	00126001
				1525=*		AND I/O ERRORS	00127001
000094	0000000C			1526=PAGECNT	DC	PL4'0'	00128001
000098	0000			1527=LINCNT	DC	H'0'	00129001
00009A	0038			1528=MAXLINES	DC	H'56'	00130001
00009C	0000			1529=SEMCNT	DC	H'0'	00131001
00009E	0032			1530=PBN	DC	H'50'	00132001
0000A0	0000			1531=KBN	DC	H'0'	00133001
		0001C		1532=LATNR	EQU	28	00134001
		0006C		1533=LATBEG	EQU	4*(LATNR-1)	00135001
0000A2	006C			1534=LN	DC	AL2(LATBEG)	00136001
0000A4	00000000			1535=PRPT	DC	F'0'	00137001
0000A8	00000000			1536=SAVOUTA	DC	F'0'	00138001
0000AC				1537=OUTAREA2	DS	F	00139001
0000B0	40404040			1538=PIDENT	DC	CL4' '	00140001
0000B4	0000000C			1539=CARDCNT	DC	PL4'0'	00141001
0000B8	00000000			1540=PRTRTADD	DC	A(0)	00142001
				1541=*			00143001
				1542=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	00144001
				1543=*			00145001
0000BC	00000278			1544=ERRPOOL	DC	A(PRELPOOL)	00146001
0000C0	00000278			1545=NEXTERR	DC	A(PRELPOOL)	00147001
0000C4				1546=ENDPOOL	DS	F	00148001
0000C8				1547=SRCE1ADD	DS	F	00149001
0000CC				1548=SRCE1END	DS	F	00150001
0000D0				1549=SULTSTR	DS	F	00151001
				1550=*			00152001
				1551=*			00153001
				1552=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	00154001
				1553=*			00155001
0000D4				1554=INBLKS	DS	H	00156001
0000D6				1555=PRTBLKS	DS	H	00157001
0000D8				1556=LINBLKS	DS	H	00158001
0000DA				1557=PCHBLKS	DS	H	00159001
0000DC				1558=POOLS	DS	F	00160001
0000E0				1559=SRCE1S	DS	F	00161001
		000E0		1560=SRCE3S	EQU	SRCE1S	00162001
0000E4				1561=ITAB10S	DS	F	00163001
0000E8				1562=ITAB20S	DS	F	00164001
0000EC				1563=ITAB30S	DS	F	00165001
0000F0				1564=CRIDTAB5	DS	F	00166001
0000F4				1565=SUTAB30S	DS	F	00167001
0000F8				1566=LVTAB30S	DS	F	00168001
0000FC				1567=OPTABS	DS	F	00169001
000100				1568=SUTAB40S	DS	F	00170001
000104				1569=LVTAB40S	DS	F	00171001
000108				1570=OOSTACKS	DS	F	00172001
				1571=*			00173001
				1572=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	00174001
				1573=*		EACH NEW PAGE	00175001
				1574=*			00176001
		0010C		1575=PAGEHEAD	EQU	*	00177001
00010C	4040404040404040			1576=PAGEHD1	DC	CL121' '	00178001
000185		00185	0010C	1577=	ORG	PAGEHD1	00179001
00010C	F1			1578=PAGEHD1C	DC	C'1'	00180001
00010D	4040404040404040			1579=	DC	CL10' '	00181001
000117	4040404040404040			1580=PAGEHD1D	DC	CL100' '	00182001
00017B		0017B	0017D	1581=	ORG	PAGEHD1+113	00183001
00017D	D7C1C7C5			1582=PAGEHD1P	DC	CL4'PAGE'	00184001
000181	40404040			1583=PAGENUMB	DC	CL4' '	00185001
000185		00185	00185	1584=	ORG		00186001
				1585=*			00187001
000185	4040404040404040			1586=PAGEHD2	DC	CL121' '	00188001
0001FE		001FE	00185	1587=	ORG	PAGEHD2	00189001
000185	40			1588=PAGEHD2C	DC	C' '	00190001
000186	4040404040404040			1589=	DC	CL10' '	00191001
000190	4040404040404040			1590=PAGEHD2D	DC	CL100' '	00192001
0001F4		001F4	001FE	1591=	ORG		00193001
				1592=*			00194001
0001FE	4040404040404040			1593=PAGEHD3	DC	CL121' '	00195001
000277		00277	001FE	1594=	ORG	PAGEHD3	00196001
0001FE	40			1595=PAGEHD3C	DC	C' '	00197001
0001FF	4040404040404040			1596=	DC	CL10' '	00198001
000209	4040404040404040			1597=PAGEHD3D	DC	CL100' '	00199001
00026D		0026D	00277	1598=	ORG		00200001
				1599=*			00201001
				1600=*			00202001
				1601=*		END OF STANDARD COMMON AREA	00203001
				1602=*			00204001
		00277		1603=STANDX	EQU	*	00205001
				1604=*			00206001
				1605=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL	00207001
				1606=*		PHASES AND PARTLY OVERLAY EACH OTHER	00208001
				1607=*			00209001
				1608=*		NAME OR PURPOSE NEEDED BY PHASES	00210001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
				1609=*				00211001
000277	00							
000278				1610=	DC	0F'0'		00212001
000278	4040404040404040			1611=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL IEX10	00213001
000378		00378	00416	1612=	ORG	PRELPOOL+414		00214001
				1613=*			DCB FOR SYSIN 11	00215001
				1614=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				1616+*			DATA CONTROL BLOCK	01-DCB
				1617+*				01-DCB
000416	0000							
000418				1618+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1620+*			DIRECT ACCESS DEVICE INTERFACE	01-DCB
000418	0000000000000000			1622+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000428	00000000			1623+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1625+*			COMMON ACCESS METHOD INTERFACE	01-DCB
00042C	00			1627+	DC	AL1(0)	BUFNO	01-DCB
00042D	000001			1628+	DC	AL3(1)	BUFCB	01-DCB
000430	0000			1629+	DC	AL2(0)	BUFL	01-DCB
000432	4000			1630+	DC	BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			1631+	DC	A(1)	IOBAD	01-DCB
				1633+*			FOUNDATION EXTENSION	01-DCB
000438	40			1635+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			1636+	DC	AL3(1)	EODAD	01-DCB
00043C	90			1637+	DC	BL1'10010000'	RECFM	01-DCB
00043D	000000			1638+	DC	AL3(0)	EXLST	01-DCB
				1640+*			FOUNDATION BLOCK	01-DCB
000440	E2E8E2C9D5404040			1642+	DC	CL8'SYSIN'	DDNAME	01-DCB
000448	02			1643+	DC	BL1'00000010'	OFLGS	01-DCB
000449	00			1644+	DC	BL1'00000000'	IFLG	01-DCB
00044A	5000			1645+	DC	BL2'0101000000000000'	MACR	01-DCB
				1647+*			BSAM-BPAM-QSAM INTERFACE	01-DCB
00044C	00			1649+	DC	BL1'00000000'		RER1 01-DCB
00044D	000001			1650+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000450	00000001			1651+	DC	A(1)	SYNAD	01-DCB
000454	0000			1652+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			1653+	DC	AL2(0)	BLKSIZE	01-DCB
000458	00000000			1654+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			1655+	DC	A(1)	IOBA	01-DCB
000460	00			1656+	DC	AL1(0)	NCP	01-DCB
000461	000001			1657+	DC	AL3(1)	EOBR, EOBA	01-DCB
				1659+*			QSAM INTERFACE	01-DCB
000464	00000001			1661+	DC	A(1)	RECAD	01-DCB
000468	0000			1662+	DC	H'0'	QSW	01-DCB
00046A	0050			1663+	DC	AL2(80)	LRECL	01-DCB
00046C	00			1664+	DC	BL1'00000000'	EROPT	01-DCB
00046D	000001			1665+	DC	AL3(1)	CNTRL	01-DCB
000470	00000000			1666+	DC	F'0'	PRECL	01-DCB
000474	00000001			1667+	DC	A(1)	EOB	01-DCB
				1668=*		SYNAD=SYNAD	(ASSEMBLED IN IEX00001)	00222001
				1669=*		EODAD=EODADIN	(INSERTED BY IEX11)	00223001
000478		00478	00278	1670=	ORG	PRELPOOL		00224001
000278				1671=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2 20-50	00225001
000478				1672=	DS	0F		00226001
000478				1673=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1 11-20	00227001
000577		00577	00478	1674=	ORG	PB TAB1		00228001
000478				1675=FSTAB	DS	CL255	FOR STATEMENT TABLE 30-40	00229001
				1676=*			DCB FOR SYSUT1 11-30	00230001
				1677=SYSUT1	DCB	DDNAME=SYSUT1,		X00231001
				=		DSORG=PS,		X00232001
				=		MACRF=(R,W),		X00233001
				=		RECFM=F		00234001
				1679+*			DATA CONTROL BLOCK	01-DCB
				1680+*				01-DCB
000577	00							
000578				1681+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1683+*			DIRECT ACCESS DEVICE INTERFACE	01-DCB
000578	0000000000000000			1685+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000588	00000000			1686+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1688+*			COMMON ACCESS METHOD INTERFACE	01-DCB
00058C	00			1690+	DC	AL1(0)	BUFNO	01-DCB
00058D	000001			1691+	DC	AL3(1)	BUFCB	01-DCB

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
000590	0000			1692+	DC	AL2(0) BUFL		01-DCB
000592	4000			1693+	DC	BL2 '0100000000000000'	DSORG	01-DCB
000594	00000001			1694+	DC	A(1) IOBAD		01-DCB
				1696+*		FOUNDATION EXTENSION		01-DCB
000598	00			1698+	DC	BL1 '00000000'	BFTEK, BFLN, HIARCHY	01-DCB
000599	000001			1699+	DC	AL3(1) EODAD		01-DCB
00059C	80			1700+	DC	BL1 '10000000'	RECFM	01-DCB
00059D	000000			1701+	DC	AL3(0) EXLST		01-DCB
				1703+*		FOUNDATION BLOCK		01-DCB
0005A0	E2E8E2E4E3F14040			1705+	DC	CL8 'SYSUT1'	DDNAME	01-DCB
0005A8	02			1706+	DC	BL1 '00000010'	OFLGS	01-DCB
0005A9	00			1707+	DC	BL1 '00000000'	IFLG	01-DCB
0005AA	2020			1708+	DC	BL2 '0010000000100000'	MACR	01-DCB
				1710+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
0005AC	00			1712+	DC	BL1 '00000000'	RER1	01-DCB
0005AD	000001			1713+	DC	AL3(1) CHECK, GERR, PERR		01-DCB
0005B0	00000001			1714+	DC	A(1) SYNAD		01-DCB
0005B4	0000			1715+	DC	H'0' CIND1, CIND2		01-DCB
0005B6	0000			1716+	DC	AL2(0) BLKSIZE		01-DCB
0005B8	00000000			1717+	DC	F'0' WCPO, WCPL, OFFSR, OFFSW		01-DCB
0005BC	00000001			1718+	DC	A(1) IOBA		01-DCB
0005C0	00			1719+	DC	AL1(0) NCP		01-DCB
0005C1	000001			1720+	DC	AL3(1) EOBR, EOBA		01-DCB
				1722+*		BSAM-BPAM INTERFACE		01-DCB
0005C4	00000001			1724+	DC	A(1) EOBW		01-DCB
0005C8	0000			1725+	DC	H'0' DIRCT		01-DCB
0005CA	0000			1726+	DC	AL2(0) LRECL		01-DCB
0005CC	00000001			1727+	DC	A(1) CNTRL, NOTE, POINT		01-DCB
				1728=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)		00235001
				1729=*		EODAD=EODAD1		00236001
				1730=*				00237001
0005D0				1731=	DS	0F		00238001
0005D0				1732=SPTAB	DS	CL255 SCOPE TABLE	11-30	00239001
0006D0				1733=	DS	0F		00240001
		006CD		1734=GPTAB	EQU	*-3 GROUP TABLE	11-30	00241001
0006D0				1735=	DS	CL1510		00242001
				1736=*				00243001
				1737=*		END OF SYMLIB PART OF COMMON WORK AREA		00244001
				1738=*				00245001
				1739 *				00744001
				1740 *		CWA SYMBOL DEFINITIONS FOR IEX11 CAN BE INSERTED HERE		00745001
				1741 *				00746001
				1742 *		REGISTER EQUATES		00747001
				1743 *				00748001
				1744		IEZREGS		00749001
		00000		1745+R0	EQU	0		01-IEZRE
		00001		1746+R1	EQU	1		01-IEZRE
		00002		1747+R2	EQU	2		01-IEZRE
		00003		1748+R3	EQU	3		01-IEZRE
		00004		1749+R4	EQU	4		01-IEZRE
		00005		1750+R5	EQU	5		01-IEZRE
		00006		1751+R6	EQU	6		01-IEZRE
		00007		1752+R7	EQU	7		01-IEZRE
		00008		1753+R8	EQU	8		01-IEZRE
		00009		1754+R9	EQU	9		01-IEZRE
		0000A		1755+R10	EQU	10		01-IEZRE
		0000B		1756+R11	EQU	11		01-IEZRE
		0000C		1757+R12	EQU	12		01-IEZRE
		0000D		1758+R13	EQU	13		01-IEZRE
		0000E		1759+R14	EQU	14		01-IEZRE
		0000F		1760+R15	EQU	15		01-IEZRE
				1761 *				00750001
000000				1762	END	IEX10000		00751001



X10	Symbol Cross Reference												PAGE	15
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References		X390	3.1.04	2012/08/17	13.12	
=A(GOTOEDIT)														
	4	00000508	00000001	A	A		592	403						
=A(GOTOTERM)														
	4	000004F8	00000001	A	A		588	119 352						
=A(IEX10001)														
	4	0000050C	00000001	A	A		593	456						
=A(OPEXERR)														
	4	00000504	00000001	A	A		591	316						
=AL3(INEX)														
	3	00000520	00000001	R	A		600	301						
=AL3(LINEX)														
	3	0000051D	00000001	R	A		599	298						
=AL3(PCHEX)														
	3	00000526	00000001	R	A		602	307						
=AL3(PRINTEX)														
	3	00000523	00000001	R	A		601	304						
=C'SIZE='														
	5	00000518	00000001	C	C		598	149						
=F'45056'														
	4	000004FC	00000001	F	F		589	211						
=F'80'														
	4	00000500	00000001	F	F		590	238 240						
=H'1'														
	2	00000510	00000001	H	H		594	186						
=H'24'														
	2	00000516	00000001	H	H		597	290						
=H'7'														
	2	00000512	00000001	H	H		595	203						
=H'8'														
	2	00000514	00000001	H	H		596	256 381						
=XL8'00'														
	8	000004F0	00000001	X	X		587	249						
ASYSDCB														
	4	00000058	FFFFFFFFE	A	A		1413	545						
AUT1DCB														
	4	00000064	FFFFFFFFE	A	A		1416	551						
BYPASSOP														
	4	0000020A	00000001	I			263	128B 233B 237B						
CLOSE														
	2	0000048A	00000001	I			543	512B 528B						
COMPFLGS														
	4	00000080	FFFFFFFFE	X	X		1462	142 144M 273M 360M 410 414M 419 423M 444M 454 503M 529M 682M 685M 688M 691M 694M 697M 700M 703M 706M 709M 712M 715M 718M 721M 724M 727M 730M 733M 736M 739M 742M 745M 748M 751M 754M 757M 760M 763M						
COMPINST														
	6	00000094	00000001	I			148	153X						
COMPMODE														
	1	00000080		U			1466	144						
COMP1														
	2	0000007E	00000001	I			140	164B 214B 223B						
DCBBIT0														
	1	00000080		U			857	943 951 963 986 1013 1015 1016 1018 1041 1044 1064 1068 1083 1120 1175 1206 1245 1249 1262 1362 1364 1374						
DCBBIT1														
	1	00000040		U			858	944 952 965 987 988 997 1013 1015 1017 1018 1046 1064 1066 1068 1086 1087 1088 1123 1124 1175 1208 1251 1253 1265 1309 1362 1366 1375						
DCBBIT2														
	1	00000020		U			859	945 953 966 967 968 987 988 992 998 1013 1014 1019 1048 1069 1070 1091 1092 1093 1127 1128 1176 1213 1254 1270 1312 1315 1362 1376						
DCBBIT3														
	1	00000010		U			860	946 966 968 969 987 1000 1020 1051 1069 1072 1095 1096 1097 1131 1132 1176 1215 1218 1220 1256 1271 1312 1316 1362						
DCBBIT4														
	1	00000008		U			861	954 1001 1021 1052 1074 1079 1080 1100 1101 1135 1136 1138 1139 1177 1223 1272 1312 1317						
DCBBIT5														
	1	00000004		U			862	955 1002 1024 1025 1054 1074 1076 1077 1080 1104 1106 1107 1108 1142 1143 1144 1145 1177 1225 1228 1258 1274 1307						
DCBBIT6														
	1	00000002		U			863	947 1003 1004 1007 1024 1026 1055 1111 1112 1113 1114 1148 1149 1150 1151 1178 1231 1276 1318 1157 1158 1234 1260 1277 1320						
DCBBIT7														
	1	00000001		U			864	948 1003 1005 1007 1028 1059 1116 1117 1154 1155						
DCBBLKSI														
	2	0000003E	FFFFFFFFF	H	H		1279	311M 314M 465 468M 473 477M 482 485M 490 493M						
DCBDDNAM														
	8	00000028	FFFFFFFFF	C	C		1038	252M 442						
DCBEXLSA														
	3	00000025	FFFFFFFFF	R	A		1030	304M						
DCBEXLST														
	4	00000024	FFFFFFFFF	A	A		1011	298M 301M 307M						
DCBFODAD														
	8	00000005	FFFFFFFFF	C	C		884	887						
DCBLRECL														
	2	00000052	FFFFFFFFF	H	H		1344	468 485 493						
DCBOFLGS														
	1	00000030	FFFFFFFFF	B	B		1040	357 412 421 439 547						
DCBOFOPN														
	1	00000010		U			1051	357 412 421 439 547						
DCBTABLE														
	4	00000048	FFFFFFFFE	F	F		1408	245 295 407						
DDNAMES														
	4	000001A8	00000001	I			232	133B 143B 145B 185B 228B						
DECK														
	1	000000DF		U			1489	706 751						
EBCDIC														
	1	000000EF		U			1492	712 733						
EDITDATE														
	4	00000302	00000001	I			370	359B						
ENDPOOL														
	4	000000C4	FFFFFFFFE	F	F		1546	291M						
ERET														
	4	00000090	FFFFFFFFE	F	F		1524	119M 316M 352M 403M						
ERROR200														
	4	000000DA	00000001	I			170	160B 193B 195B 204B						
ERROR201														
	4	000003D2	00000001	I			437	363B						
ERROR208														
	4	00000178	00000001	I			216	212B						
ERRPOOL														
	4	000000BC	FFFFFFFFE	A	A		1544	283M						
FIELD1														
	8	00000790	00000001	P	P		769	207M 209						
FNDCOMMA														
	4	00000072	00000001	I			137	141B						
FNDDCB														
	4	000001E0	00000001	I			246	239B 257B						
FNDPAR														
	6	0000009A	00000001	I			149	138B						
FNDSIZE														
	4	00000120	00000001	I			190	150B						
FULLPOOL														
	6	00000196	00000001	I			225	173B 221B						
GOTOEDIT														
	2	0000046A	00000001	I			526	455B 592						
GOTOTERM														
	2	0000044C	00000001	I			510	588						



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
TEMP2	4	000007A8	00000001	F	F		773	373M 375				
TEMP3	4	000007AC	00000001	F	F		774	376 378 382 384				
TERR	1	00000008		U			1479	529				
TEST	1	000000FB		U			1515	718 763				
TSTDCBRT	4	000003D6	00000001	I			439	428B 430B 432B				
TSTDIGIT	4	00000126	00000001	I			192	205B				
TSTIN	4	000003C0	00000001	I			428	420B 422B				
TSTPUNCH	4	000003A2	00000001	I			419	411B 413B				
WORKAREA	1	00000000	FFFFFFFFE	J			1396	108U				

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)															X390 3.1.04	2012/08/17	13.12
0(0)	100	104	106	263M	264	265M	266	373	573M	578M								
1(1)	100	115M	118	270M	281	283	284	286	288	323M	329N	330	331N	332	333N	334	335N	336
	337N	338	343M	346N	347	348N	349	370M	373	461U	496D	555M	558N	559N	560	566M	567	568
	570M	571M	573M	574M	577M	578	579M											
2(2)	100	102M	103U	456M	457B	506D	510M	511U	522D	526M	527U	539D	819U					
3(3)	100	112M	115	295M	297U	299D	329	407M	409U	417D	543M	544U	584D					
4(4)	100	129M	130M	131	134	137	139M	140	148	149	155N	161M	179	181M	181N	182	184	190N
	207	210M	234M	235N	249	252	254M	254N	264M	286M	287	290M	291	295M	310M	311	314	362M
	407M	408M	415	416M	416N	424	425M	425N	441	442	443M	443N	448	512M	528M	563B	582B	
5(5)	100	131M	132M	134M	140	159	184	197	235M	236M	238	240M	256M	274M	277M	278	284M	285
	295M	407M																
6(6)	100	147U	151M	163D	166	167M	167N	209M	211	213	245M	246N	255M	255N	266M	288M	289	295M
	407M	465M	466M	473M	474M	476M	477	482M	483M	490M	491M	545M	546U	548D	558	566		
7(7)	100	135M	166	246M	247M	251U	253D	276M	277	295M	300U	302D	348	361M	407M	429M	431M	433M
	438U	447D	551M	559														
8(8)	100	136M	152M	153	155	295M	303U	305D	331	356U	358D	361	407M					
9(9)	100	170M	172	174N	176	179	180M	180N	216M	217	219M	219N	220	222	225	226M	226N	227
	241M	242	243M	243N	244	295M	306U	308D	333	407M	418U	426D						
10(A)	100	155M	157	159	161	174M	175	190M	192	194	196M	196N	197	199	210	295M	309U	312D
	346	407M	429															
11(B)	100	178M	186M	191M	202M	202N	203	208	295M	313U	315D	335	407M	431				
12(C)	100	105M	107	295M	337	407M	433											
13(D)	100	104N	105	106M	107N	108U	125											
14(E)	100	125M	126M	127M	129	232	234N	379M	386	388M	390M	393M	394	428M	430M	432M	437M	440B
	445B	467B	469B	475B	478B	484B	486B	492B	494B	504B	569M	572M	573					
15(F)	96B	100	102	380M	381M	389M	390	393	397	516M	533M	567M	571	572	575	579	825M	

Dsect	Length	Id	Defn	Con	Member	X390 3.1.04	2012/08/17	13.12
IHADCB	00000060	FFFFFFFF	840	1	DCBD			
WORKAREA	00000CB6	FFFFFFFE	1396		PRIMARY INPUT			

Con	Source	Members							X390	3.1.04	2012/08/17	13.12
1	SYS1.MACLIB	CLOSE SPIE	DCB TIME	DCBD XCTL	FREPOOL	GETMAIN	IEZREGS	IHBINNRA	IHBINNRB	IHB01	OPEN	SAVE
2	SYSD.TOOLS.MACLIB											
3	SYSD.ALGOLF.ASM											
4	SYSD.ALGOLF.MACLIB											
	WORKAREA											
5	SYSD.ALGOLFRT.MACLIB											
6	SYS1.AMODGEN											

Stmnt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.12
103		USING	Ordinary	00000001	00000000	00001000	2	00810	456	IEX10000, R2			
108		USING	Ordinary	FFFFFFFFE	00000000	00001000	13	00278	763	WORKAREA, R13			
147		USING	Ordinary	00000001	00000614	00001000	6	0000A	162	LENGTH, R6			
163		DROP					6			R6			
251		USING	Ordinary	FFFFFFFF	00000000	00001000	7	00028	252	IHADCB, R7			
253		DROP					7			R7			
297		USING	Ordinary	FFFFFFFF	00000000	00001000	3	00025	298	IHADCB, R3			
299		DROP					3			R3			
300		USING	Ordinary	FFFFFFFF	00000000	00001000	7	00025	301	IHADCB, R7			
302		DROP					7			R7			
303		USING	Ordinary	FFFFFFFF	00000000	00001000	8	00025	304	IHADCB, R8			
305		DROP					8			R8			
306		USING	Ordinary	FFFFFFFF	00000000	00001000	9	00025	307	IHADCB, R9			
308		DROP					9			R9			
309		USING	Ordinary	FFFFFFFF	00000000	00001000	10	0003E	311	IHADCB, R10			
312		DROP					10			R10			
313		USING	Ordinary	FFFFFFFF	00000000	00001000	11	0003E	314	IHADCB, R11			
315		DROP					11			R11			
356		USING	Ordinary	FFFFFFFF	00000000	00001000	8	00030	357	IHADCB, R8			
358		DROP					8			R8			
409		USING	Ordinary	FFFFFFFF	00000000	00001000	3	00030	412	IHADCB, R3			
417		DROP					3			R3			
418		USING	Ordinary	FFFFFFFF	00000000	00001000	9	00030	421	IHADCB, R9			
426		DROP					9			R9			
438		USING	Ordinary	FFFFFFFF	00000000	00001000	7	00030	442	IHADCB, R7			
447		DROP					7			R7			
461		USING	Ordinary	FFFFFFFF	00000000	00001000	1	00052	493	IHADCB, R1			
496		DROP					1			R1			
506		DROP					2			R2			
511		USING	Ordinary	00000001	0000044E	00001000	2	0003C	516	*, R2			
522		DROP					2			R2			
527		USING	Ordinary	00000001	0000046C	00001000	2	0001E	533	*, R2			
539		DROP					2			R2			
544		USING	Ordinary	00000001	0000048C	00001000	3	00058	576	*, R3			
546		USING	Ordinary	FFFFFFFF	00000000	00001000	6	00030	547	IHADCB, R6			
548		DROP					6			R6			
584		DROP					3			R3			
819		USING	Ordinary	00000002	00000818	00001000	2	00014	825	IEX10001, R2			

The following statements were flagged -

SYSD.ALGOLF.ASM(IEX10)  
147(140)

1 statement flagged in this assembly, 4 was the highest severity code.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1X10 STEPNAME: IEX10 PROCSTEP: X390

Primary input: lines 1 to 751 of SYSD.ALGOLF.ASM(IEX10)

SYSLIB library records read: 5600

SYSUT1 work file size: 132369 bytes

SYSUT2 work file size: 501840 bytes

SYSUT3 work file size: 60080 bytes

SYSLIN file records written: 44

TXA000I Return code 4, elapsed time 1.84 seconds.



Csect	Rel	Addr(hex)	Length(dec)
-------	-----	-----------	-------------

IEX10000		000812	6
----------	--	--------	---

IEX10001		00082E	2
----------	--	--------	---

**IEX11**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX11)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131252.RA000.T1X11.OBJECT
SYSPRINT	JES2.JOB09270.S00102
SYSUT1	SYS12230.T131252.RA000.T1X11.SYSUT1
SYSUT2	SYS12230.T131252.RA000.T1X11.SYSUT2
SYSUT3	SYS12230.T131252.RA000.T1X11.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement	X390 3.1.04 2012/08/17 13.12
2	*					00002001
3	*				COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
4	*					00004001
5	*				FUNCTION/OPERATION -	00005001
6	*				TO TRANSFORM THE SOURCE PROGRAM TO MODIFICATION LEVEL 1,	00006001
7	*				WHICH INCLUDES A ONE FOR ONE TRANSLATION OF ALL	00007001
8	*				CHARACTERS, THE REPLACEMENT OF ALL ALGOL DELIMITERS BY	00008001
9	*				ONE BYTE OPERATORS AND THE REMOVAL OR MODIFICATION OF	00009001
10	*				ALL DECLARATIONS	00010001
11	*				1. TABULATE AND CLASSIFY ALL VALID IDENTIFIERS	00011001
12	*				2. ASSIGN A SERIAL PROGRAM BLOCK NUMBER TO ALL BLOCKS	00012001
13	*				AND PROCEDURES AND A SERIAL GROUP NUMBER TO ALL BLOCKS,	00013001
14	*				PROCEDURES AND FOR STATEMENTS	00014001
15	*				3. RECOGNIZE SYNTACTICAL ERRORS IN THE SOURCE PROGRAM	00015001
16	*				AND TO GENERATE APPROPRIATE ERROR PATTERNS	00016001
17	*				4. PRINT A LISTING ON SYSPRINT OF THE SOURCE PROGRAM IF	00017001
18	*				OPTION SOURCE IS SPECIFIED	00018001
19	*				5. PREPARE TABLES TO BE USED BY THE SUCCEEDING PHASES.	00019001
20	*				THE TABLES ARE PB TAB1, GROUP TABLE, AND SCOPETABLE	00020001
21	*					00021001
22	*				ENTRY POINTS -	00022001
23	*				IEX11000 SCAN I/II XCTL EP=IEX11000	00023001
24	*					00024001
25	*				INPUT - THE SOURCE PROGRAM IS READ IN FROM SYSIN	00025001
26	*					00026001
27	*				OUTPUT -	00027001
28	*				1. THE SOURCE PROGRAM, MODIFICATION LEVEL 1, IS WRITTEN	00028001
29	*				ON SYSUT1	00029001
30	*				2. AN ITAB RECORD IS WRITTEN FOR EACH BLOCK ON SYSUT3	00030001
31	*				3. ESD CARD FOR THE OBJECT MODULE AND TXT CARDS FOR THE	00031001
32	*				CONSTANTS 0 THROUGH 15 AND THE STRINGS IN THE CONSTANT	00032001
33	*				POOL ARE WRITTEN ON SYSLIN AND OR SYSPUNCH IF THE	00033001
34	*				OPTIONS LOAD AND OR DECK IS SPECIFIED	00034001
35	*				4. THE SOURCE PROGRAM IS LISTED ON SYSPRINT IF THE	00035001
36	*				SOURCE OPTION IS SPECIFIED	00036001
37	*					00037001
38	*				EXITS - NORMAL -	00038001
39	*				CONTROL IS GIVEN TO ITAB MANIPULATION, XCTL EP=IEX20000	00039001
40	*				IF NO TERMINATING ERROR HAS BEEN DETECTED	00040001
41	*					00041001
42	*				EXITS - ERROR -	00042001
43	*				IF A TERMINATING ERROR HAS BEEN DETECTED CONTROL IS	00043001
44	*				GIVEN TO THE ERROR MESSAGE HANDLING PHASE XCTL	00044001
45	*				EP=IEX21000	00045001
46	*					00046001
47	*				EXTERNAL ROUTINES - THE PRINT ROUTINE IN IEX00 IS USED	00047001
48	*					00048001
49	*				TABLES/WORKAREAS -	00049001
50	*				BPRTAB - BRANCH ADDR TABLE	00050001
51	*				TESTTABL - FOR MAINLOOP SCANNING	00051001
52	*				TRINTEXT - FOR TRANSLATION FROM INTERNAL TO EBCDIC	00052001
53	*				CHARACTER SET	00053001
54	*				COMTABLE - USED BY COMMENT PROGRAM	00054001
55	*				STRTABLE - USED BY STRING PROGRAM	00055001
56	*				BTABLE - USED BY BLANK PROGRAM	00056001
57	*				KEYTAB - USED BY TRANSOP	00057001
58	*				PTTABLE - USED BY POINT AND POINT IN LIST PROGRAMS	00058001
59	*				TREXTINT - FOR TRANSLATION FROM EBCDIC TO INTERNAL	00059001
60	*				CHARACTER SET	00060001
61	*				KFCONST - CONTAIN THE FULL WORD CONSTANTS 0 THROUGH 15	00061001
62	*				ATABLE - USED BY APOSTROF	00062001
63	*				SCTAB - USED TO SAVE THE STARTING SEMICOLON COUNTER	00063001
64	*				FOR THE BLOCKS	00064001
65	*				KEYWTAB - TABLE OF ALGOL KEYWORDS	00065001
66	*				KWLUTAB - DISPLACEMENTS INTO KEYWTAB	00066001
67	*				DELPRGTB - BRANCH ADDR TABLE AFTER A DELIMITER HAS	00067001
68	*				BEEN FOUND	00068001
69	*				ARTABLE - USED BY LIST PROGRAM	00069001
70	*				WA - 80 BYTE WORKAREA WITH 17 PRECEEDING CHARACTERS,	00070001
71	*				USED FOR INPUT RECORDS. THE 17 EXTRA BYTES USED	00071001
72	*				TO OVERLAP BETWEEN ONE RECORD AND THE NEXT ONE	00072001
73	*				STACK - USED FOR THE SCOPE STRUCTURE HANDLING	00073001
74	*				ITAB - USED TO TABULATE ALL VALID IDENTIFIERS	00074001
75	*				SAVEPRT - DUMMY PRINTAREA. USED TO PICK UP STRINGS FROM	00075001
76	*				IN EBCDIC FORM IF THE OPTION 'NOSOURCE'	00076001
77	*				IS SPECIFIED	00077001
78	*					00078001
79	*				NOTES -	00079001
80	*				CHARACTER CODE DEPENDENCE IF THE SOURCE PROGRAM IS IN	00080001
81	*				ISO CODE A SCAN IS MADE IN THE PROGRAM CIB TO EXCHANGE	00081001
82	*				THE CHARACTERS -	00082001
83	*				4C, 7B, 7C, 6C, 50,	00083001
84	*				WITH THE EBCDIC CHARACTERS -	00084001
85	*				5D, 7E, 7D, 4D, 4E	00085001
86	*				THEN WHEN THE SOURCE PROGRAM IN WA IS IN EBCDIC FORM IT	00086001
87	*				IS TRANSFERRED TO THE PRINTBUFFER, POSSIBLY THE DUMMY	00087001
88	*				PRINTAREA. THE SOURCE PROGRAM IN WA IS THEN TRANSLATED	00088001
89	*				TO INTERNAL CODE BY MEANS OF THE HEXADECIMAL TABLE	00089001
90	*				TREXTINT. THE INVERSE TABLE, TRANSLATING FROM INTERNAL TO	00090001
91	*				EBCDIC CODE, IS CALLED TRINTEXT AND IS IN CHARACTER FORM.	00091001
92	*				THE TRANSFER OF PRECOMPILED AND CODE PROCEDURE NAMES,	00092001
93	*				THE TRANSFER OF STRINGS AND CONSTANTS TO THE CONSTANT	00093001
94	*				POOL AND THE OPERATION OF THE ROUTINE GENERATE DEPENDS	00094001
95	*				ON AN INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER	00095001
96	*				SET WHICH IS EQUIVALENT TO THE ONE USED AT ASSEMBLY	00096001
97	*				TIME. THE OPERATION OF THE OTHER PARTS DOES NOT DEPEND	00097001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.12	
				98 *	UPON A PARTICULAR INTERNAL REPRESENTATION OF THE	00098001	
				99 *	EXTERNAL CHARACTER SET	00099001	
				100 *		00100001	
				101 *	THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN	00101001	
				102 *	CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER.	00102001	
				103 *	IN PARTICULAR IT REQUIRES THE COMMON WORKAREA	00103001	
				104 *		00104001	
				105 *	INITIALIZATION	00105001	
				106 *	MAINLOOP AND ITS SUBPROGRAMS	00106001	
				107 *	BLANK	00107001	
				108 *	TRANSOP (*,/,(>,<,NOT,)	00108001	
				109 *	RIGHTPAR	00109001	
				110 *	POINT	00110001	
				111 *	COLON	00111001	
				112 *	LABEL	00112001	
				113 *	LETDEL	00113001	
				114 *	ASSIGN	00114001	
				115 *	APOSTROPHE	00115001	
				116 *	SCALE	00116001	
				117 *	BLKAPOS	00117001	
				118 *	ZETAAPOS	00118001	
				119 *	NPAFAPO (NOT PERMITTED)	00119001	
				120 *	SOME GENERAL ROUTINES	00120001	
				121 *	STATE (STATEMENT PROGRAM)	00121001	
				122 *	ERROR ROUTINES	00122001	
				123 *	ITABCLEA	00123001	
				124 *	IDCHK1	00124001	
				125 *	FINDSEMC0	00125001	
				126 *	AND TABLES AND CONSTANTS OUTSIDE CWA	00126001	
				127 *		00127001	
				128 *	COB (CHANGE OUTPUT BUFFER)	00128001	
				129 *	CIB (CHANGE INPUT BUFFER)	00129001	
				130 *	DELIMITER EROUT (DELIMITER ERROR ROUTINE)	00130001	
				131 *	NORMAL (/ OR AND NOT STEP LESS IMPL UNTIL WHILE POWER	00131001	
				132 *	EQUIU	00132001	
				133 *	NOTLESS GREATER NOTEQUAL NOT GREATER)	00133001	
				134 *	BOLCON ('TRUE', 'FALSE')	00134001	
				135 *	GIF (GOTO, IF)	00135001	
				136 *	TED (THEN, ELSE, DO)	00136001	
				137 *	BEGIN	00137001	
				138 *	BEGI (BLOCKHEAD)	00138001	
				139 *	END	00139001	
				140 *	FOREND	00140001	
				141 *	PBLCKEND	00141001	
				142 *	COM (COMMENT)	00142001	
				143 *	FOR	00143001	
				144 *	TYPE (REAL, INTEGER, BOOLEAN)	00144001	
				145 *	IER (IDENT ERROR ROUTINE)	00145001	
				146 *	CODE	00146001	
				147 *		00147001	
				148 *	IDCHECK (SPECIFIED IDENTIFIERS)	00148001	
				149 *	VALUE	00149001	
				150 *	TYPEARRAY	00150001	
				151 *	ARRAY	00151001	
				152 *	TRATE (ARRAY AND SWITCH LIST)	00152001	
				153 *	PONTLST	00153001	
				154 *	SEMCLST	00154001	
				155 *	LEFTPARL	00155001	
				156 *	RIGHTPARL	00156001	
				157 *	SLASHLST	00157001	
				158 *	COMMALST	00158001	
				159 *	COLONLST	00159001	
				160 *	SWITCH	00160001	
				161 *	STRING	00161001	
				162 *	TYPPROC	00162001	
				163 *	PROCEDURE	00163001	
				164 *	PROCEDEL (PROC LETTERSTRING)	00164001	
				165 *	ENDMISSIN (UNBALANCED BEGIN END COUNT)	00165001	
				166 *		00166001	
				167 *	TERMINATION	00167001	
				168 *		00168001	
000000		00000 02E40		169	IEX11000 CSECT	00169001	
				170 *		00170001	
				171 *	R3	OUTPUT POINTER	00171001
				172 *	R4	POINTS TO FIRST APOSTROPHE	00172001
				173 *	R4	TRANSOP REGISTER	00173001
				174 *	R4	LINK REGISTER FOR PRGBLOCKEND	00174001
				175 *	R4	LINK REGISTER FOR FDREND	00175001
				176 *	R6	RETURN REG FROM ERROR ROUTINES	00176001
				177 *	R7	ITAB POINTER	00177001
				178 *	R8	BASE REGISTER	00178001
				179 *	R9	RETURN REGISTER FROM BEGI	00179001
				180 *	R10	TESTLOOP AND LIST MAIN RETURN REG	00180001
				181 *	R11	BASE REGISTER	00181001
				182 *	R12	SPECIFICATION HANDLING	00182001
				183 *	R12	RETURN REG FROM COB	00183001
				184 *	R14	LABEL POINTER	00184001
				185 *		00185001	
				186 *	INITIALIZATION	00186001	
				187 *		00187001	
				188 *	GETMAIN FOR -	00188001	
				189 *	1. KOPOOL	00189001	
				190 *	2. STACK	00190001	
				191 *	3. ITABBUF	00191001	
				192 *	4. OUTPUTAREA2	00192001	
				193 *	5. ITAB	00193001	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				194 *		ALPHA 00 IS PUT IN STACK AND SP (STACK POINTER) IS MADE	00194001
				195 *		TO POINT TO NEXT BYTE	00195001
				196 *		ADDR OF THE FIRST O/P AREA IS TAKEN FROM CWA AND PUT	00196001
				197 *		IN ADDARI. THE ADDR OF SECOND O/P AREA (FROM	00197001
				198 *		GETMAIN) IS PUT IN ADDARI+4	00198001
				199 *		AITAB, LIGP, LPBP, AITAB AND ELI ARE INITIALIZED IN	00199001
				200 *		ITAB. HEADLINE FOR PB0 IS CREATED.	00200001
				201 *		AITAB, LPBP, LIGP WILL POINT TO PB0 HEAD	00201001
				202 *		AITL TO NEXT FREE ENTRY	00202001
				203 *		ELI TO LAST POSITION+1 OF ITAB	00203001
				204 *		APE WILL POINT TO LAST POSITION IN FIRST OUTPUT BUFFER	00204001
				205 *		WADDARI (CURRENT OUTPUT BUFFER) WILL POINT TO FIRST	00205001
				206 *		OUTPUT BUFFER	00206001
				207 *		R3 WILL POINT TO FIRST O/P BUFFER	00207001
				208 *		PRINTING OF HEADLINES IS INITIALIZED IF SOURCE WAS	00208001
				209 *		SPECIFIED	00209001
				210 *		SWITCHES ARE SET TO ZERO	00210001
				211 *		FIRST ENTRIES IN TABLES ARE SET TO ZERO	00211001
				212 *			00212001
				213		IEXENTRY 'IEX11000 LEVEL 2.1 &SYSDATE &SYSTIME'	00213001
				214+*			01-IEXEN
000000	47F0 F026		00026	215+	B	38(,R15) BRANCH AROUND ID	01-IEXEN
000004	21			216+	DC	AL1(33) LENGTH OF IDENTIFIER	01-IEXEN
000005	C9C5E7F1F1F0F0F0			217+	DC	CL33'IEX11000 LEVEL 2.1 08/17/12 13.12'	+01-IEXEN
				+		IDENTIFIER	01-IEXEN
				218 *			00214001
		R:58B	00000	219	USING	IEX11000,R5,R8,R11	00215001
				220	LR	R5,R15	00216001
000026	185F			221	LA	R8,2048(,R5)	00217001
000028	4180 5800		00800	222	LA	R8,2048(,R8)	00218001
00002C	4180 8800		00800	223	LA	R11,2048(,R8)	00219001
000030	4180 8800		00800	224	LA	R11,2048(,R11)	00220001
000034	4180 B800		00800	225 *			00221001
				226	USING	WORKAREA,R13	00222001
		R:D	00000	227	LA	R12,SLUT2	00223001
000038	41C0 B36E		0236E	228	ST	R12,ERET	00224001
00003C	50C0 D090		00090	229	LH	R1,KH4096	00225001
000040	4810 BD58		02D58	230	LA	R1,1000(,R1)	00226001
000044	4110 13E8		003E8	231	A	R1,SRCE1S	00227001
000048	5A10 D0E0		000E0	232	A	R1,ITAB10S	00228001
00004C	5A10 D0E4		000E4	233	LA	R1,2000(,R1)	00229001
000050	4110 17D0		007D0	234	ST	R1,POOLLEN	00230001
000054	5010 DCBC		00CBC	235	LR	R0,R1	00231001
000058	1801			236 *			00232001
				237	GETMAIN	R,LV=(0) GET AREAS NEEDED	00233001
				238+*	OS/VS2	RELEASE 4 VERSION -- 10/21/75	01-GETMA
00005A	4510 505E		0005E	239+	BAL	1,*+4 INDICATE GETMAIN	01-GETMA
00005E	0A0A			240+	SVC	10 ISSUE GETMAIN SVC	01-GETMA
				241 *			00234001
000060	5010 DCC0		00CC0	242	ST	R1,POOLLOC	00235001
000064	41C0 B2EE		022EE	243	LA	R12,ENDMISS	00236001
000068	50C0 D07C		0007C	244	ST	R12,EODIN	00237001
00006C	41C0 B3B2		023B2	245	LA	R12,EODADIN	00238001
000070	50C0 D090		00090	246	ST	R12,ERET	00239001
000074	5010 DD54		00D54	247	ST	R1,AKOPOOL	00240001
000078	4110 1FFF		00FFF	248	LA	R1,4095(,R1)	00241001
00007C	D203 1001	BD0C	00001	249	MVC	1(4,R1),KF0	00242001
000082	4110 1002		00002	250	LA	R1,2(,R1)	00243001
000086	5010 DCD8		00CD8	251	ST	R1,SP	00244001
00008A	4110 13E7		003E7	252	LA	R1,999(,R1)	00245001
00008E	5010 DCC4		00CC4	253	ST	R1,AITABBUF	00246001
000092	4110 17D0		007D0	254	LA	R1,2000(,R1)	00247001
000096	5010 DCD0		00CD0	255	ST	R1,ADDARI+4	00248001
00009A	5A10 D0E0		000E0	256	A	R1,SRCE1S	00249001
00009E	5010 DD64		00D64	257	ST	R1,AITAB	00250001
0000A2	5010 DD6C		00D6C	258	ST	R1,LIGP	00251001
0000A6	5010 DD70		00D70	259	ST	R1,LPBP	00252001
0000AA	9200 1000		00000	260	MVI	0(R1),0	00253001
0000AE	D214 1001	1000	00001	261	MVC	1(21,R1),0(R1)	00254001
0000B4	92FF 1003		00003	262	MVI	3(R1),X'FF'	00255001
0000B8	922B 1005		00005	263	MVI	5(R1),X'FBLANK	00256001
0000BC	41C0 100B		0000B	264	LA	R12,11(,R1)	00257001
0000C0	50C0 DD68		00D68	265	ST	R12,AITL	00258001
0000C4	5A10 D0E4		000E4	266	A	R1,ITAB10S	00259001
0000C8	5010 DCC8		00CC8	267	ST	R1,ELI	00260001
0000CC	5830 D0C8		000C8	268	L	R3,SRCE1ADD	00261001
0000D0	5A30 D0E0		000E0	269	A	R3,SRCE1S	00262001
0000D4	0630			270	BCTR	R3,0	00263001
0000D6	5030 DCDC		00CDC	271	ST	R3,APE	00264001
0000DA	5830 D0C8		000C8	272	L	R3,SRCE1ADD	00265001
0000DE	D203 DCCC	D0C8	00CCC	273	MVC	ADDARI(4),SRCE1ADD	00266001
0000E4	D203 DD74	DCCC	00D74	274	MVC	WADDARI(4),ADDARI	00267001
0000EA	41C0 BDE4		02DE4	275	LA	R12,SAVEPRNT	00268001
0000EE	50C0 DD44		00D44	276	ST	R12,APRNTAR	00269001
				277 *			00270001
				278 *	SETUP	HEADING TEXT	00271001
				279 *			00272001
0000F2	D20D D135	BD8D	00135	280	MVC	PAGEHD1D+30(L'HEAD1),HEAD1	00273001
0000F8	D216 D194	BD9B	00194	281	MVC	PAGEHD2D+4(L'HEAD2),HEAD2	00274001
0000FE	92FF D099		00099	282	MVI	LINCNT+1,255	00275001
000102	4590 5A28		00A28	283	BAL	R9,CIB	00276001
				284 *			00277001
000106	1B22			285	SR	R2,R2	00278001
000108	4220 DD85		00D85	286	STC	R2,ONC	00279001
00010C	4220 DCD4		00CD4	287	STC	R2,DISP	00280001
000110	41C0 0040		00040	288	LA	R12,64	00281001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000114	50C0 D0A4		000A4	289	ST	R12,PRPT	PROGRAM POINTER 00282001
000118	4020 DD4C		00D4C	290	STH	R2,IGC	ZERO ITAB GROUP COUNTER 00283001
00011C	5020 DD7C		00D7C	291	ST	R2,MGESITL	00284001
000120	4220 DD84		00D84	292	STC	R2,PBC	ZERO PROGRAM BLOCK COUNTER (PBC) 00285001
000124	4220 DD85		00D85	293	STC	R2,ONC	ZERO OUTPUT RECORD COUNTER (ONC) 00286001
000128	4220 DD8E		00D8E	294	STC	R2,BITS1	ZERO SWITCHBITS 00287001
00012C	4220 DD8F		00D8F	295	STC	R2,BITS2	00288001
000130	4220 DD90		00D90	296	STC	R2,BITS3	00289001
000134	4020 D09C		00D9C	297	STH	R2,SEMCNT	ZERO SEMICOLON COUNTER 00290001
000138	4220 DD82		00D82	298	STC	R2,FSN	ZERO FSN 00291001
00013C	4220 D478		00478	299	STC	R2,PBTAB1	ZERO PB0 00292001
000140	5020 D6D0		006D0	300	ST	R2,GPTAB+3	ZERO GROUP AND SCOUP TABLE 00293001
000144	4220 D5D0		005D0	301	STC	R2,SPTAB	00294001
000148	4220 3000		00000	302	STC	R2,0(,R3)	FIRST BYTE IN FIRST OUTPUTREC D 00295001
00014C	5030 DD88		00D88	303	ST	R3,OPIN	00296001
000150	5030 DD58		00D58	304	ST	R3,LAPIN	SET LABEL POINTERS 00297001
000154	4220 DD8C		00D8C	305	STC	R2,OPIN+4	00298001
000158	41C0 D6CD		006CD	306	LA	R12,GPTAB	00299001
00015C	50C0 DD50		00D50	307	ST	R12,AGT	ADDR TO GROUPTABLE 00300001
000160	58C0 DCC4		00CC4	308	L	R12,AITABBUF	00301001
000164	06C0			309	BCTR	R12,0	00302001
000166	50C0 DD48		00D48	310	ST	R12,ATOPSTAK	HIGHEST BYTE IN STACK TO USE 00303001
00016A	47F0 5174		00174	311	B	TESTLOOP	GOTO START PROCESSING 00304001
				312	*		00305001
00016E	D200 3000 4000 00000	00000	00000	313	EXMVC	MVC 0(1,R3),0(R4)	00306001
				314	*		00307001
				315	*	MAINLOOP	00308001
				316	*		00309001
				317	*	SCANS THE INPUT STREAM WHICH IS IN INTERNAL CODE	00310001
				318	*		00311001
				319	*	EVERYTHING PRECEDING THE FIRST REAL ALGOL WORD WILL BE	00312001
				320	*	SKIPPED WITH THE HELP OF THE FALG BITS2, X'20'	00313001
				321	*		00314001
000174	05A0			322	TESTLOOP	BALR R10,0	00315001
000176	189A			323	LR	R9,R10	RETURN ADDR FOR CIB PROGRAM 00316001
000178	1841			324	LR	R4,R1	00317001
00017A	1B22			325	SR	R2,R2	00318001
00017C	DD48 1000 B872 00000	02872	00D8F	326	TRT	0(73,R1),TESTTABL	SCAN INTERNAL CODE WITH TESTTABL 00319001
000182	9120 DD8F		00D8F	327	TM	BITS2,X'20'	FIRST BEGIN FOUND ? 00320001
000186	4780 51E0		001E0	328	BZ	FIRSTSTR	NO 00321001
00018A	1BF1			329	CONT	LR R15,R1	FIND LENGTH OF SCANNED BYTES 00322001
00018C	1BF4			330	SR	R15,R4	00323001
00018E	4780 51AA		001AA	331	BZ	SUBROUT	00324001
000192	45C0 598C		0098C	332	BAL	R12,C0B	00325001
000196	410F 3000		00000	333	LA	R0,0(R15,R3)	00326001
00019A	5900 DCDC		00CDC	334	C	R0,APE	SPACE LEFT IN O/P BUFFER ? 00327001
00019E	4720 51B0		001B0	335	BH	MSBLOOP	00328001
0001A2	06F0			336	BCTR	R15,0	00329001
0001A4	44F0 516E		0016E	337	EX	R15,EXMVC	MOVE SCANNED BYTES 00330001
0001A8	1830			338	LR	R3,R0	INCREASE OUTPUT POINTER 00331001
0001AA	5862 B6C4		026C4	339	SUBROUT	L R6,BPRTAB(R2)	00332001
0001AE	07F6			340	BR	R6	BRANCH TO PROGRAM 00333001
				341	*		00334001
				342	*	MSBLOOP	00335001
				343	*		00336001
				344	*	USED WHEN SCANNED BYTES HAS TO BE PLACED IN TWO O/P AREAS	00337001
				345	*		00338001
0001B0	5860 DCDC		00CDC	346	MSBLOOP	L R6,APE	00339001
0001B4	1B63			347	SR	R6,R3	00340001
0001B6	0660			348	BCTR	R6,0	00341001
0001B8	4460 516E		0016E	349	EX	R6,EXMVC	MOVE TO FIRST O/P AREA 00342001
0001BC	4136 3001		00001	350	LA	R3,1(R6,R3)	00343001
0001C0	45C0 5992		00992	351	BAL	R12,C0BSPEB	CHANGE O/P BUFFER 00344001
0001C4	41C6 4001		00001	352	LA	R12,1(R6,R4)	00345001
0001C8	1BF6			353	SR	R15,R6	00346001
0001CA	06F0			354	BCTR	R15,0	00347001
0001CC	06F0			355	BCTR	R15,0	00348001
0001CE	44F0 51DA		001DA	356	EX	R15,MOVERST	MOVE TO 2ND O/P BUFFER 00349001
0001D2	413F 3001		00001	357	LA	R3,1(R15,R3)	00350001
0001D6	47F0 51AA		001AA	358	B	SUBROUT	RETURN 00351001
				359	*		00352001
0001DA	D200 3000 C000 00000	00000	00000	360	MOVERST	MVC 0(1,R3),0(R12)	00353001
0001E0	952E 1000		00000	361	FIRSTSTR	CLI 0(R1),XFQUOTE	QUOTE ? 00354001
0001E4	4780 5300		00300	362	BE	APOSTROF	00355001
0001E8	952F 1000		00000	363	CLI	0(R1),XFZETA	ZETA ? 00356001
0001EC	4780 5A28		00A28	364	BE	CIB	00357001
0001F0	4110 1001		00001	365	LA	R1,1(,R1)	IF NEITHER- CONTINUE SCANNING 00358001
0001F4	47F0 5174		00174	366	B	TESTLOOP	00359001
				367	*		00360001
				368	*	BLANK	00361001
				369	*		00362001
				370	*	SCANS TO THE NEXT NONBLANK CHARACTER	00363001
				371	*	ALL BLANK CHARACTER WILL BE SKIPPED	00364001
				372	*	USED BY MAIN LOOP AND ARRAYLIST	00365001
				373	*		00366001
0001F8	4110 1001		00001	374	BLANK	LA R1,1(,R1)	INCREASE INPUT POINTER 00367001
0001FC	952B 1000		00000	375	CLI	0(R1),XFBANK	BLANK ? 00368001
000200	077A			376	BNER	R10	NO, RETURN 00369001
000202	4110 1001		00001	377	LA	R1,1(,R1)	YES, INCREASE INPUT POINTER 00370001
000206	1B22			378	SR	R2,R2	00371001
000208	DD48 1000 B814 00000	02814		379	TRT	0(73,R1),BTABLE	SCAN INPUT TO NEXT DELIMITER 00372001
00020E	07FA			380	BR	R10	RETURN 00373001
				381	*		00374001
				382	*	TRANSOP	00375001
				383	*		00376001
				384	*	CHECKS THE NEXT BYTE IN THE INPUT AREA AGAIN A	00377001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				385 *		KEY IE IF ( FOUND, NEXT BYTE WILL BE CHECKED FOR /, IF	00378001
				386 *		A SLASH IS FOUND A LEFT SQUARE BRACKET WILL BE	00379001
				387 *		TRANSFERED OTHERWISE A (	00380001
				388 *		USED BY MAIN LOOP AND ARRAYLIST	00381001
				389 *			00382001
000210	4142 BBF0		02BF0	390 TRANSOP	LA	R4,KEYTAB(R2)	00383001
000214	4110 1001		00001	391 INCR	LA	R1,1(,R1)	00384001
000218	D500 1000	4003	00000	392 INCRA	CLC	0(1,R1),3(R4)	00385001
00021E	4780 524A		0024A	393	BE	TROE	00386001
000222	952B 1000		00000	394	CLI	0(R1),XFBANK	00387001
000226	4780 5214		00214	395	BE	INCR	00388001
00022A	952F 1000		00000	396	CLI	0(R1),XFZETA	00389001
00022E	4770 523A		0023A	397	BNE	TRONE	00390001
000232	4190 5218		00218	398	LA	R9,INCRA	00391001
000236	47F0 5A28		00A28	399	B	CIB	00392001
				400 *			00393001
00023A	45C0 598C		0098C	401 TRONE	BAL	R12,COB	00394001
00023E	D200 3000	4002	00000	402	MVC	0(1,R3),2(R4)	00395001
000244	4130 3001		00001	403	LA	R3,1(,R3)	00396001
000248	07FA			404	BR	R10	00397001
				405 *		RETURN	00398001
00024A	45C0 598C		0098C	406 TROE	BAL	R12,COB	00399001
00024E	D200 3000	4001	00000	407	MVC	0(1,R3),1(R4)	00400001
000254	58C0 BDB4		02DB4	408	L	R12,BRACKET	00401001
000258	9528 3000		00000	409	CLI	0(R3),XFRSQBR	00402001
00025C	4770 5266		00266	410	BNE	TSTMORE	00403001
000260	06C0			411	BCTR	R12,0	00404001
000262	47F0 5272		00272	412	B	NOUPDAT	00405001
				413 *			00406001
000266	9508 3000		00000	414 TSTMORE	CLI	0(R3),XFLSQBR	00407001
00026A	4770 5272		00272	415	BNE	NOUPDAT	00408001
00026E	41C0 C001		00001	416	LA	R12,1(,R12)	00409001
000272	50C0 BDB4		02DB4	417 NOUPDAT	ST	R12,BRACKET	00410001
000276	4130 3001		00001	418	LA	R3,1(,R3)	00411001
00027A	4110 1001		00001	419	LA	R1,1(,R1)	00412001
00027E	07FA			420	BR	R10	00413001
				421 *		RETURN	00414001
				422 *		RIGHTPAR	00415001
				423 *			00416001
				424 *		INSERTS A ) IN O/P, SETS THE LABEL POINTERS	00417001
				425 *			00418001
000280	45C0 598C		0098C	426 RIGHTPAR	BAL	R12,COB	00419001
000284	9226 3000		00000	427	MVI	0(R3),XFRBRAC	00420001
000288	5030 DD88		00D88	428	ST	R3,OPIN	00421001
00028C	9226 BDB2		02DB2	429	MVI	OPINCHAR,XFRBRAC	00422001
000290	D200 DD8C	DD85	00D8C	430	MVC	OPIN+4(1),ONC	00423001
000296	4130 3001		00001	431	LA	R3,1(,R3)	00424001
00029A	5030 DD58		00D58	432	ST	R3,LAPIN	00425001
00029E	4110 1001		00001	433	LA	R1,1(,R1)	00426001
0002A2	47F0 5174		00174	434	B	TESTLOOP	00427001
				435 *			00428001
				436 *		POINT	00429001
				437 *			00430001
				438 *		SCANS FOR -	00431001
				439 *		DECPOINT	00432001
				440 *		ERROR	00433001
				441 *		COLON	00434001
				442 *		SEMICOLON	00435001
				443 *		ASSIGN	00436001
				444 *		USED BY MAIN LOOP AND ARRAYLIST	00437001
				445 *			00438001
0002A6	4110 1001		00001	446 POINT	LA	R1,1(,R1)	00439001
0002AA	4190 52AA		002AA	447	LA	R9,*	00440001
0002AE	1B22			448	SR	R2,R2	00441001
0002B0	DD48 1000	B758	00000	449	TRT	0(73,R1),PTTABLE	00442001
0002B6	5862 B6C4		026C4	450	L	R6,BPRTAB(R2)	00443001
0002BA	07F6			451	BR	R6	00444001
				452 *			00445001
				453 *		DECPOINT	00446001
				454 *			00447001
				455 *		TRANSFERS A DECIMAL POINT	00448001
				456 *			00449001
0002BC	45C0 598C		0098C	457 DECPOINT	BAL	R12,COB	00450001
0002C0	923E 3000		00000	458	MVI	0(R3),XFDECP	00451001
0002C4	4130 3001		00001	459	LA	R3,1(,R3)	00452001
0002C8	07FA			460	BR	R10	00453001
				461 *			00454001
				462 *		ASSIGN	00455001
				463 *			00456001
				464 *		TRANSFERS A ASSIGN CHAR TO O/P	00457001
				465 *		RETURNS VIA STATEMENT	00458001
				466 *			00459001
0002CA	45C0 598C		0098C	467 ASSIGN	BAL	R12,COB	00460001
0002CE	9216 3000		00000	468	MVI	0(R3),XFASSIGN	00461001
0002D2	4110 1001		00001	469	LA	R1,1(,R1)	00462001
0002D6	4130 3001		00001	470	LA	R3,1(,R3)	00463001
0002DA	47F0 52DE		002DE	471	B	STATE	00464001
				472 *			00465001
				473 *		STATE	00466001
				474 *			00467001
				475 *		1. CHECKS WITH PROBIT IF FIRST LABEL, FOR, IF, GOTO OR	00468001
				476 *		ASSIGN STATEMENT AFTER A PROCEDURE	00469001
				477 *		2. CHECKS THAT ALL PARAMETERS HAVE BEEN SPECIFIED	00470001
				478 *		3. TURNS OFF THE PROBIT AND THE BEGBIT, POSSIBLE	00471001
				479 *		PROCEEDING BEGIN WILL BE COMPOUND BEGIN	00472001
				480 *			00473001



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0002DE	947F DD8E	00D8E		481	STATE	NI BITS1,X'7F'	BEGBIT = 0 00474001
0002E2	58F0 DCD8		00CD8	482		L R15,SP	00475001
0002E6	950C F000	00000		483		CLI 0(R15),X'0C'	PROC IN STACK ? 00476001
0002EA	077A			484		BNER R10	IF NO RETURN 00477001
0002EC	9214 F000	00000		485		MVI 0(R15),X'14'	00478001
0002F0	94BF DD8E	00D8E		486		NI BITS1,X'BF'	PROBIT.=0 00479001
0002F4	9500 DD8D	00D8D		487		CLI PZ,0	ALL PARAMETERS SPECIFIED ? 00480001
0002F8	078A			488		BER R10	YES, RETURN 00481001
0002FA	45C0 57CE		007CE	489		BAL R12,ERROR10	NO, GENERATE E10 00482001
0002FE	07FA			490		BR R10	RETURN 00483001
				491	*		00484001
				492	*	APOSTROF	00485001
				493	*		00486001
				494	*	SCANS FOR -	00487001
				495	*	SCALE	00488001
				496	*	BLANK	00489001
				497	*	ZETA	00490001
				498	*	NOT PERMITTED	00491001
				499	*	ONE MORE APOSTROPHE (DELIMITER)	00492001
				500	*	R4 WILL POINT TO THE APOSTROPHE	00493001
				501	*	USED BY TESTLOOP AND LIST	00494001
				502	*		00495001
000300	9200 DD81	00D81		503	APOSTROF	MVI FBYTE,0	ZERO FBYTE 00496001
000304	1841			504	ENTRAPR	LR R4,R1	R4 WILL POINT TO FIRST APOST 00497001
000306	4110 1001		00001	505		LA R1,1(,R1)	00498001
00030A	0590			506		BALR R9,0	00499001
00030C	1B22			507		SR R2,R2	00500001
00030E	DD48 1000 B7B6 00000 027B6			508		TRT 0(73,R1),ATABLE	SOURCE STRING IS SCANNED TO 00501001
				509	*		THE NEXT SIGNIFICANT DELIMITER 00502001
000314	5862 B6C4		026C4	510		L R6,BPRTAB(R2)	R6 -> SELECTED SUBROUTINE 00503001
000318	07F6			511		BR R6	BRANCH TO ROUTINE SELECTED 00504001
				512	*		00505001
				513	*	SCALE	00506001
				514	*		00507001
				515	*	CORRECT ONLY DIRECT AFTER TESTLOOP OR LIST	00508001
				516	*	CHECK THAT THE APOSTROPHE IS ONLY ONE CHAR IN FRONT OF	00509001
				517	*	DIGIT	00510001
				518	*		00511001
00031A	91FF DD81	00D81		519	SCALE	TM FBYTE,X'FF'	00512001
00031E	4710 8370		01370	520		BO COMCEE2	COMMENT UNDER PROCESS 00513001
000322	4740 5BF0		00BF0	521		BM TYPESPEC	DECLARATION UNDER PROCESS 00514001
000326	1861			522	SCALEOK	LR R6,R1	00515001
000328	9120 DD8F	00D8F		523		TM BITS2,X'20'	PROGRAM STARTED YET ? 00516001
00032C	4780 5174		00174	524		BZ TESTLOOP	NO, RETURN 00517001
000330	0660			525		BCTR R6,0	00518001
000332	952E 6000	00000		526		CLI 0(R6),XFQUOTE	QUOTE ONE BYTE BEFORE SIGN 00519001
				527	*		OR DIGIT ? 00520001
000336	4770 5B7C		00B7C	528		BNE EROUT	IF NO, BRANCH TO ERROR ROUTINE 00521001
00033A	45C0 598C		0098C	529		BAL R12,COB	CHECK IF O/P AREA FILLED 00522001
00033E	923F 3000	00000		530	MOVETEN	MVI 0(R3),X'3F'	MOVE SCALE FACTOR TO OUTPUT REC 00523001
000342	4130 3001		00001	531		LA R3,1(,R3)	INCREASE OUTPUT 00524001
000346	07FA			532		BR R10	RETURN 00525001
				533	*		00526001
				534	*	BLKAPOS	00527001
				535	*		00528001
				536	*	SHIFT THE BLANK OR BLANKS AWAY AND MOVES THE QUOTE	00529001
				537	*	AND VALID CHARACTERS UP TO THE RIGHT	00530001
				538	*		00531001
				539	*	SETS R4 TO POINT NEW LOCATION OF THE QUOTE	00532001
				540	*	USED BY MAINLOOP AND INDIRECT BY THE ARRAYLIST AND THE	00533001
				541	*	NPAFTAPO	00534001
				542	*		00535001
000348	18F1			543	BLKAPOS	LR R15,R1	NOTE POSITION OF FIRST BLANK 00536001
00034A	DD48 1000 B814 00000 02814			544	BLKAPOSA	TRT 0(73,R1),BTABLE	00537001
000350	1861			545		LR R6,R1	CALC NUMBER OF BLANKS 00538001
000352	1B6F			546		SR R6,R15	NUMBER OF BLANKS IN R6 00539001
000354	18EF			547		LR R14,R15	00540001
000356	1BE4			548		SR R14,R4	00541001
000358	59E0 BD38		02D38	549		C R14,KF11	BYTES EXCEED THE LIMIT ALREADY ? 00542001
00035C	4720 5B7C		00B7C	550		BH EROUT	00543001
000360	06E0			551		BCTR R14,0	NUMBER OF BYTES TO BE SHIFTED 00544001
000362	41F6 4000		00000	552		LA R15,0(R6,R4)	COMPUTE NEW POSITION OF QUOTE 00545001
000366	44E0 5372		00372	553		EX R14,MAPOS	MOVE QUOTE AND SCANNED CHARS 00546001
00036A	44E0 5378		00378	554		EX R14,MAPOS2	00547001
00036E	184F			555		LR R4,R15	NOTE NEW POSITION OF QUOTE 00548001
000370	07F9			556		BR R9	RETURN 00549001
				557	*		00550001
000372	D200 537E 4000 0037E 00000			558	MAPOS	MVC BUCKET(1),0(R4)	00551001
000378	D200 F000 537E 00000 0037E			559	MAPOS2	MVC 0(1,R15),BUCKET	00552001
				560	*		00553001
00037E	0000000000000000			561	BUCKET	DC 11X'00'	00554001
				562	*		00555001
				563	*	ZETAPO	00556001
				564	*		00557001
				565	*	MOVES SCANNED BYTES AND APOSTROPHE IN FRONT OF WA AND	00558001
				566	*	PUTS R4 TO NEW START LOCATION OF POSSIBLE DELIMITER	00559001
				567	*	USED BY MAINLOOP AND ARRAYLIST	00560001
				568	*		00561001
000389	00						
00038A	18F4			569	ZETAPO	LR R15,R4	COMPUTE 00562001
00038C	18E1			570		LR R14,R1	NUMBER OF SCANNED 00563001
00038E	1BE4			571		SR R14,R4	BYTES 00564001
000390	59E0 BD38		02D38	572		C R14,KF11	EXCEED LIMIT ? 00565001
000394	4720 5B7C		00B7C	573		BH EROUT	YES 00566001
000398	4140 DCF3		00CF3	574		LA R4,WA	NO, CALCULATE WHERE TO MOVE 00567001
00039C	1B4E			575		SR R4,R14	CHAR STRING 00568001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00039E	06E0			576	BCTR	R14,0	00569001
0003A0	44E0 53A8		003A8	577	EX	R14,MOVBEFWA	00570001
0003A4	47F0 5A28		00A28	578	B	CIB	00571001
				579	*		00572001
0003A8	D200 4000 F000 00000	00000	00000	580	MOVBEFWA	MVC 0(1,R4),0(R15)	00573001
				581	*		00574001
				582	*	NPAFAPO	00575001
				583	*		00576001
				584	*	GIVES ERROR MESSAGE AND UTILIZES BLANKAPO TO SHIFT THE	00577001
				585	*	INVALID CHARACTER AWAY	00578001
				586	*	USED BY MAINLOOP AND ARRAYLIST	00579001
				587	*		00580001
0003AE	91FF DD81		00D81	588	NPAFTAPO	TM FBYTE,X'FF'	00581001
0003B2	4740 5BF0		00BF0	589	BM	TYPESPEC	00582001
0003B6	4710 836C		0136C	590	BO	COMCED2	00583001
0003BA	9120 DD8F		00D8F	591	TM	BITS2,X'20'	00584001
0003BE	4780 53C8		003C8	592	BZ	NPAFTAPA	00585001
0003C2	4560 578A		0078A	593	BAL	R6,ERR7	00586001
				594	*		00587001
0003C6	0401			595	DC	X'0401'	00588001
				596	*		00589001
0003C8	18F1			597	NPAFTAPA	LR R15,R1	00590001
0003CA	4110 1001		00001	598	LA	R1,1(,R1)	00591001
0003CE	47F0 534A		0034A	599	B	BLKAPOSA	00592001
				600	*		00593001
				601	*	COLON	00594001
				602	*		00595001
				603	*	ENTERD FROM MAINLOOP OR POINT	00596001
				604	*	CHECKS FOR := ASSIGN	00597001
				605	*	:( DELIMITER	00598001
				606	*	LABEL	00599001
				607	*		00600001
0003D2	1861			608	COLON	LR R6,R1	00601001
0003D4	5B60 BD24		02D24	609	S	R6,KF6	00602001
0003D8	D205 537E 6000 0037E	00000	00000	610	MVC	BUCKET(6),0(R6)	00603001
0003DE	4110 1001		00001	611	COLON2	LA R1,1(,R1)	00604001
0003E2	9510 1000		00000	612	EQUAL	CLI 0(R1),XFEQUAL	00605001
0003E6	4780 52CA		002CA	613	BE	ASSIGN	00606001
0003EA	9506 1000		00000	614	CLI	0(R1),XFLBRAC	00607001
0003EE	4780 552E		0052E	615	BE	LETDEL	00608001
0003F2	952B 1000		00000	616	CLI	0(R1),XFLBLANK	00609001
0003F6	4780 53DE		003DE	617	BE	COLON2	00610001
0003FA	952F 1000		00000	618	CLI	0(R1),XFZETA	00611001
0003FE	4770 540A		0040A	619	BNE	LABEL01	00612001
000402	4190 53E2		003E2	620	LA	R9,EQUAL	00613001
000406	47F0 5A28		00A28	621	B	CIB	00614001
				622	*		00615001
				623	*	LABEL	00616001
				624	*		00617001
				625	*	OPIN POINTS TO LAST OPERATOR WHICH MIGHT BE	00618001
				626	*	FOLLOWED BY A LABEL	00619001
				627	*	R14 IS THE POINTER, STEPPING UP BETWEEN LAPIN AND	00620001
				628	*	THE COLON POINTED TO BY R3	00621001
				629	*	OPIN+4 CONTAINS THE O/P REC NUMBER WHEN OPIN WAS SET	00622001
				630	*	LABEL IS CHECKED FOR VALIDITY. THE FIRST 6 CHAR	00623001
				631	*	ARE MOVED TO OUTPUT AND ITAB	00624001
				632	*	CHECKS IF THE LABEL IS SPLIT OVER MORE THAN ONE	00625001
				633	*	O/P BUFFER	00626001
				634	*		00627001
				635	*	IF THE LABEL IS SPLIT BY ONE O/P BUFFER END THE HANDLING	00628001
				636	*	IS THE SAME AS IF NOT EXECPT THAT WHEN ZETA	00629001
				637	*	IS FOUND R14 IS UPDATED TO THE FIRST CHARACTER OF THE	00630001
				638	*	CURRENT O/P REC	00631001
				639	*		00632001
				640	*	E3 IF THERE IS NO LABEL	00633001
				641	*	E6 IF LABEL LONGER THAN 1024 BYTES	00634001
				642	*	E7 IF LABEL CONTAINS INVALID CHARACTER	00635001
				643	*	E8 IF LABEL STARTS WITH INVALID CHAR	00636001
				644	*		00637001
00040A	D500 DD85 DD8C 00D85	00D8C	00D85	645	LABEL01	CLC ONC,OPIN+4	00638001
000410	4780 542E		0042E	646	BE	LABEL	00639001
000414	1B44			647	SR	R4,R4	00640001
000416	4340 DD8C		00D8C	648	IC	R4,OPIN+4	00641001
00041A	4140 4001		00001	649	LA	R4,1(,R4)	00642001
00041E	4320 DD85		00D85	650	IC	R2,ONC	00643001
000422	1924			651	CR	R2,R4	00644001
000424	4780 542E		0042E	652	BE	LABEL	00645001
000428	4560 5724		00724	653	BAL	R6,ERR4	00646001
				654	*		00647001
00042C	0406			655	DC	X'0406'	00648001
				656	*		00649001
00042E	58E0 DD58		00D58	657	LABEL	L R14,LAPIN	00650001
000432	193E			658	CR	R3,R14	00651001
000434	4780 570A		0070A	659	BE	ERROR3	00652001
000438	9526 BDB2		02DB2	660	CLI	OPINCHAR,XFRBRAC	00653001
00043C	4780 570A		0070A	661	BE	ERROR3	00654001
000440	9540 E000		00000	662	LABNAME	CLI 0(R14),XFA	00655001
000444	4740 5492		00492	663	BL	LABNAMER	00656001
000448	5870 DD68		00D68	664	L	R7,AITL	00657001
00044C	D200 7000 E000 00000	00000	00000	665	MVC	0(1,R7),0(R14)	00658001
000452	4170 7001		00001	666	LA	R7,1(,R7)	00659001
000456	4120 0001		00001	667	LA	R2,1	00660001
00045A	41E0 E001		00001	668	LABID	LA R14,1(,R14)	00661001
00045E	19E3			669	CR	R14,R3	00662001
000460	4780 54C4		004C4	670	BE	LABEND	00663001
000464	952F E000		00000	671	LABCHECK	CLI 0(R14),XFZETA	00664001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000468	4770 5474		00474	672	BNE	LABCHK1	NO, BRANCH
00046C	58E0 DD74		00D74	673	L	R14,WADDARI	GET START OF CURRENT O/P AREA
000470	47F0 5464		00464	674	B	LABCHECK	
				675	*		
000474	4740 54B4		004B4	676	LABCHK1	BL	ERROR7
000478	5920 BD24		02D24	677	C	R2,KF6	R2 = 6 ?
00047C	4780 545A		0045A	678	BE	LABID	YES, DON'T MOVE MORE CHAR TO
				679	*		ITAB
000480	D200 7000	E000 00000	00000	680	MVC	0(1,R7),0(R14)	MOVE CONTENT OF PINTOIN
000486	4170 7001		00001	681	LA	R7,1(,R7)	INCR R7, R2
00048A	4120 2001		00001	682	LA	R2,1(,R2)	
00048E	47F0 545A		0045A	683	B	LABID	
				684	*		
000492	952F E000	00000		685	LABNAMER	CLI	0(R14),XFZETA
000496	4770 54A2		004A2	686	BNE	LABNAM01	ZETA ?
00049A	58E0 DD74		00D74	687	L	R14,WADDARI	NO, BRANCH
00049E	47F0 5440		00440	688	B	LABNAME	UPDATE R14 TO CURRENT O/P BUFFER
				689	*		
0004A2	952B E000	00000		690	LABNAM01	CLI	0(R14),XFBANK
0004A6	4780 5440		00440	691	BE	LABNAME	BLANK ?
0004AA	4560 578A		0078A	692	BAL	R6,ERR7	YES, BRANCH
				693	*		
0004AE	0408			694	DC	X'0408'	E8
				695	*		
0004B0	47F0 54BA		004BA	696	B	ERROR7A	
				697	*		
0004B4	4560 56CC		006CC	698	ERROR7	BAL	R6,ERR2
				699	*		
0004B8	0007			700	DC	X'0007'	E7 INCORRECT LABEL
				701	*		
0004BA	58F0 DD68		00D68	702	ERROR7A	L	R15,AITL
0004BE	45C0 5962		00962	703	BAL	R12,ITABCLEC	CLEAR THE ITAB ENTRY
0004C2	07FA			704	BR	R10	
				705	*		
				706	*	LABEND	
				707	*		
				708	*	IF (LABEL:LABELX) THE LN (LABEL NUMBER) WILL ONLY BE	
				709	*	INCREASED ONCE	
				710	*	INTERNAL NAME IS CREATED AND LN INSERTED	
				711	*	X'27' IS MOVED TO THE O/P TO INDICATE LABEL OPIN,	
				712	*	OPIN+4 AND LAPIN ARE UPDATED	
				713	*	ITABCLEA IS ACTIVATED TO PREPARE NEXT ITABENTRY	
				714	*		
0004C4	9527 BDB2		02DB2	715	LABEND	CLI	OPINCHAR,XFLABEL
0004C8	4780 54EC		004EC	716	BE	LABLAHEI	+. LABEL PRECEDED BY LABEL
0004CC	48F0 D0A2		000A2	717	LH	R15, LN	YES, DO NOT UPDATE LN
0004D0	41F0 F004		00004	718	LA	R15,4(,R15)	LN = LN+4
0004D4	D501 D0A2	BD58 000A2	02D58	719	LABCREAT	CLC	LN(2),KH4096
0004DA	4740 54E8		004E8	720	BL	LABCRT01	LN = 2**12 ?
0004DE	4560 578A		0078A	721	BAL	R6,ERR7	
				722	*		
0004E2	04D8			723	DC	X'04D8'	E216
				724	*		
0004E4	41F0 006C		0006C	725	LA	R15,LATBEG	RESET LN
0004E8	40F0 D0A2		000A2	726	LABCRT01	STH	R15, LN
0004EC	58F0 DD68		00D68	727	LABLAHEI	L	R15,AITL
0004F0	92CC F006	00006		728	MVI	6(R15),X'CC'	CREATE INTERNAL NAME
0004F4	9208 F007	00007		729	MVI	7(R15),X'08'	
0004F8	58E0 DD70		00D70	730	L	R14,LPBP	
0004FC	D200 F008	E00A 00008	0000A	731	MVC	8(1,R15),10(R14)	PROGRAM BLOCK NR AITL + 7
000502	D201 F009	D0A2 00009	000A2	732	MVC	9(2,R15),LN	LN IN AITL+9
000508	45C0 598C		0098C	733	BAL	R12,C0B	CHECK IF O/P AREA FILLED
00050C	9227 3000	00000		734	MVI	0(R3),XFLABEL	MOVE LABEL IND TO O/P
000510	5030 DD88		00D88	735	ST	R3,OPIN	SET LABEL POINTERS
000514	9227 BDB2		02DB2	736	MVI	OPINCHAR,XFLABEL	
000518	D200 DD8C	DD85 00D8C	00D85	737	MVC	OPIN+4(1),ONC	
00051E	4130 3001		00001	738	LA	R3,1(,R3)	
000522	5030 DD58		00D58	739	ST	R3,LAPIN	
000526	45C0 595A		0095A	740	BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY
00052A	47F0 52DE		002DE	741	B	STATE	RETURN VIA STATEMENT PCM
				742	*		
				743	*	LETDEL	
				744	*		
				745	*	:( HAS BEEN FOUND IN THE I/P	
				746	*	IF OPIN POINTS TO A RIGHT PARENTHESIS IT SHOULD BE	
				747	*	LETTER DELIMITER, WHICH SHOULD BE REMOVED AND REPLACED	
				748	*	BY A COMMA	
				749	*	IT IS CHECKED THAT ALL CHARACTERS ARE LETTERS OTHERWISE	
				750	*	E3 IS GIVEN	
				751	*		
00052E	9526 BDB2		02DB2	752	LETDEL	CLI	OPINCHAR,XFRBRAC
000532	4770 570A		0070A	753	BNE	ERROR3	OPIN POINTS TO A RIGHT BRACKET ?
000536	D500 DD85	DD8C 00D85	00D8C	754	CLC	ONC(1),OPIN+4	NO, E3, COLON DELETED
00053C	4770 5576		00576	755	BNE	LETDEL2	LETDEL EXCEEDS ONE O/P REC ?
000540	58E0 DD88		00D88	756	L	R14,OPIN	YES
000544	4160 E001		00001	757	LA	R6,1(,R14)	
000548	1963			758	CR	R6,R3	AT LEAST ONE CHAR ?
00054A	4780 570A		0070A	759	BE	ERROR3	NO, E3 DELETE COLON
00054E	41E0 E001		00001	760	LETDELE1	LA	R14,1(,R14)
000552	9539 E000	00000		761	CLI	0(R14),XF9	OTHER CHAR THAN
000556	47D0 570A		0070A	762	BNH	ERROR3	LETTERS ?
00055A	4160 E001		00001	763	LA	R6,1(,R14)	
00055E	1963			764	CR	R6,R3	ALL CHAR CHECKED ?
000560	4770 554E		0054E	765	BNE	LETDELE1	NO, CHECK NEXT
000564	5830 DD88		00D88	766	L	R3,OPIN	SET O/P POINTER TO BEGINING OF
000568	9225 3000	00000		767	MVI	0(R3),XFCOMMA	THE STRING, MOVE IN A COMMA

Active USINGS: WORKAREA,R13 IEX11000,R5,R8,R11

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00056C	4130 3001		00001	768	LA	R3,1(,R3)	00761001
000570	4110 1001		00001	769	LA	R1,1(,R1)	00762001
000574	07FA			770	BR	R10	00763001
				771 *			00764001
				772 *		DELIMITER EXCEEDS ONE O/P RECORD	00765001
				773 *			00766001
000576	1B66			774	LETDELB2	SR R6,R6	00767001
000578	4360 DD8C		00D8C	775	IC	R6,OPIN+4	00768001
00057C	4160 6001		00001	776	LA	R6,1(,R6)	00769001
000580	4320 DD85		00D85	777	IC	R2,ONC	00770001
000584	1962			778	CR	R6,R2	00771001
000586	4780 5590		00590	779	BE	LETDEL01	00772001
00058A	4560 5724		00724	780	BAL	R6,ERR4	00773001
				781 *			00774001
00058E	0404			782	DC	X'0404'	00775001
				783 *		E4 GOES TO COMPFIN	00776001
000590	58E0 DD88		00D88	784	LETDEL01	L R14,OPIN	00777001
000594	41E0 E001		00001	785	LETDELB3	LA R14,1(,R14)	00778001
000598	9540 E000		00000	786	CLI	0(R14),XFA	00779001
00059C	47B0 5594		00594	787	BNL	LETDELB3	00780001
0005A0	952F E000		00000	788	CLI	0(R14),XFZETA	00781001
0005A4	4770 570A		0070A	789	BNE	ERROR3	00782001
0005A8	58E0 DD74		00D74	790	L	R14,WADDARI	00783001
				791 *		CHANGE BACK SO R14 POINT	00784001
0005AC	9540 E000		00000	792	LETDELF4	CLI 0(R14),XFA	00785001
0005B0	4740 570A		0070A	793	BL	ERROR3	00786001
0005B4	41E0 E001		00001	794	LA	R14,1(,R14)	00787001
0005B8	19E3			795	CR	R14,R3	00788001
0005BA	4770 55AC		005AC	796	BNE	LETDELF4	00789001
0005BE	5830 DD74		00D74	797	L	R3,WADDARI	00790001
0005C2	923D 3000		00000	798	MVI	0(R3),X'3D'	00791001
0005C6	4130 3001		00001	799	LA	R3,1(,R3)	00792001
0005CA	4110 1001		00001	800	LA	R1,1(,R1)	00793001
0005CE	07FA			801	BR	R10	00794001
				802 *			00795001
				803 *	SEMC0		00796001
				804 *			00797001
				805 *		IF THE DELTA BIT IS ON, THE DELTA AND SEMICOLON COUNTER	00798001
				806 *		(SEMCNT) IS MOVED TO THE OUTPUT	00799001
				807 *		IF THE DELTABIT IS OFF THE STACK IS INSPECTED	00800001
				808 *			00801001
				809 *		BEGIN, BETA OR PROC* -	00802001
				810 *		A SEMICOLON AND THE SEMCNT IS MOVED TO THE O/P AND	00803001
				811 *		PROCESSING IS CONTINUES VIA TEST	00804001
				812 *			00805001
				813 *		FOR -	00806001
				814 *		THE FORSTATEMENT IS COMPLETE, THE FOREND PROGRAM IS	00807001
				815 *		ACTIVATED	00808001
				816 *		THE RETURN IS TO STACKTST TO SEE IF ONE MORE FOR	00809001
				817 *		STATEMENT OR A PROC** HAS ENDED AT THE SAME TIME	00810001
				818 *			00811001
				819 *		PROC -	00812001
				820 *		A PROCEDURE CONSISTING OF ONLY ONE STATEMENT OR A DUMMY	00813001
				821 *		STATEMENT HAS ENDED IT IS CHECKED THAT ALL PARAMETERS	00814001
				822 *		HAVE BEEN SPECIFIED, AND THE PROC** PGM IS JOINED	00815001
				823 *			00816001
				824 *		PROC** -	00817001
				825 *		A PROCEDURE CONSISTING OF ONE LABELED STATEMENT OR ONE	00818001
				826 *		FOR, IF, GOTO OR ASSIGN STATEMENT HAS ENDED	00819001
				827 *		THE PROGRAM BLOCKEND PROGRAM IS ACTIVATED AND A DELTA	00820001
				828 *		AND THE SEMCNT IS MOVED OUT	00821001
				829 *			00822001
				830 *		THE FINAL EXIT IS IN ALL CASES TO TEST	00823001
				831 *			00824001
0005D0	9602 D082		00082	832	SEMC00	OI COMPFGLS+2,SET60	00825001
0005D4	4840 D09C		0009C	833	SEMC0	LH R4,SEMCNT	00826001
0005D8	5940 BE3C		02E3C	834	C	R4,SCOVFL	00827001
0005DC	4740 55EC		005EC	835	BL	SEMC001	00828001
0005E0	4560 578A		0078A	836	BAL	R6,ERR7	00829001
				837 *			00830001
0005E4	0411			838	DC	X'0411'	00831001
				839 *		E17	00832001
0005E6	D201 D09C	BD0C	0009C	840	MVC	SEMCNT,KF0	00833001
0005EC	4140 4001		00001	841	SEMC001	LA R4,1(,R4)	00834001
0005F0	4040 D09C		0009C	842	STH	R4,SEMCNT	00835001
0005F4	4100 3003		00003	843	LA	R0,3(,R3)	00836001
0005F8	45C0 5982		00982	844	BAL	R12,C0BSPEC	00837001
0005FC	94BF DD90		00D90	845	NI	BITS3,FMOFF	00838001
000600	9120 DD8E		00D8E	846	TM	BITS1,X'20'	00839001
000604	4710 5638		00638	847	BO	DELTA	00840001
000608	4140 5694		00694	848	LA	R4,STACKTST	00841001
00060C	58F0 DCD8		00CD8	849	L	R15,SP	00842001
000610	4320 F000		00000	850	IC	R2,0(,R15)	00843001
000614	5862 561C		0061C	851	L	R6,PROG2(R2)	00844001
000618	07F6			852	BR	R6	00845001
				853 *			00846001
00061A	0000						
00061C	0000079A			854	PROG2	DC A(ERR8)	00847001
000620	00000644			855		DC A(SCTRANS)	00848001
000624	00000644			856		DC A(SCTRANS)	00849001
000628	00000670			857		DC A(SEMPROC)	00850001
00062C	00000644			858		DC A(SCTRANS)	00851001
000630	00000680			859		DC A(SEMPROC2)	00852001
000634	00000F4A			860		DC A(FOREND)	00853001
				861 *			00854001
000638	94DF DD8E		00D8E	862	DELTA	NI BITS1,X'DF'	00855001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00063C	9229 3000	00000		863	MVI	0(R3),XFDELTA	TRANSFER DELTA 00856001
000640	47F0 5648		00648	864	B	SCTRANSA	00857001
				865	*		00858001
000644	920B 3000	00000		866	SCTRANS	MVI 0(R3),XFSCOLON	TRANSFER SEMICOLON 00859001
000648	920B BD82	02DB2		867	SCTRANSA	MVI OPINCHAR,XFSCOLON	00860001
00064C	5030 DD88		00D88	868	ST	R3,OPIN	NOTE POS OF SEMICOLON IN OPIN 00861001
000650	D200 DD8C	DD85 00D8C	00D85	869	MVC	OPIN+4(1),ONC	AND O/P NO 00862001
000656	D201 3001	D09C 00001	0009C	870	MVC	1(2,R3),SEMCNT	TRANSFER SEMICOLON COUNTER 00863001
00065C	4130 3003		00003	871	LA	R3,3(,R3)	INCREASE OUTPUT POINTER 00864001
000660	5030 DD58		00D58	872	ST	R3,LAPIN	00865001
000664	947F DD8E		00D8E	873	NI	BITS1,X'7F'	BEGBIT.=0 00866001
000668	4110 1001		00001	874	LA	R1,1(,R1)	INCREASE INPUT POINTER 00867001
00066C	47F0 5174		00174	875	B	TESTLOOP	00868001
				876	*		00869001
000670	948F DD8E	00D8E		877	SEMPROC	NI BITS1,X'BF'	PROBIT.=0 00870001
000674	9500 DD8D	00D8D		878	CLI	PZ,0	ALL PARAMETERS SPECIFIED 00871001
000678	4780 5680		00680	879	BE	SEMPROC2	00872001
00067C	45C0 57CE		007CE	880	BAL	R12,ERROR10	00873001
000680	4540 5FB8		00FB8	881	SEMPROC2	BAL R4,PBLCKEND	00874001
000684	4100 3003		00003	882	LA	R0,3(,R3)	PROVIDE 3 BYTES IN OUTPUT BUF 00875001
000688	45C0 5982		00982	883	BAL	R12,COBSPEC	CHECK IF ENOUGH SPACE IN O/P 00876001
00068C	9229 3000	00000		884	MVI	0(R3),XFDELTA	TRANSFER DELTA 00877001
000690	47F0 5648		00648	885	B	SCTRANSA	00878001
				886	*		00879001
000694	9514 F000	00000		887	STACKTST	CLI 0(R15),X'14'	00880001
000698	4780 5680		00680	888	BE	SEMPROC2	PROC** 00881001
00069C	4720 5FAA		00F4A	889	BH	FOREND	FOR 00882001
0006A0	4100 3003		00003	890	LA	R0,3(,R3)	00883001
0006A4	45C0 5982		00982	891	BAL	R12,COBSPEC	CHECK IF ENOUGH SPACE IN O/P 00884001
0006A8	47F0 5644		00644	892	B	SCTRANS	00885001
				893	*		00886001
				894	*	ERROR ROUTINE	00887001
				895	*		00888001
				896	*	GENERATES ERROR PATTERNS	00889001
				897	*		00890001
				898	*	MAINLY CLOSED SUBROUTINES, ENTERED WITH BAL R6	00891001
				899	*	FOLLOWED BY TWO BYTES. FIRST BYTE SPECIFIES THE LENGTH,	00892001
				900	*	IF KNOW AND SECOND BYTE ERROR NUMBER.	00893001
				901	*	USES ERROR1 TO CHECK FOR ERRORPOL OVERFLOW AND TO	00894001
				902	*	INSERT NUMBER, LENGTH AND SEMCNT	00895001
				903	*		00896001
				904	*	ERR0	00897001
				905	*		00898001
				906	*	GENERATES E212 PATTERN	00899001
				907	*	EXITS TO COMFIN	00900001
				908	*		00901001
0006AC	9202 F000	00000		909	ERR0	MVI 0(R15),X'02'	00902001
0006B0	92D4 F001	00001		910	MVI	1(R15),X'D4'	E212 00903001
0006B4	41F0 F002		00002	911	LA	R15,2(,R15)	00904001
0006B8	50F0 D0C0		000C0	912	ST	R15,NEXTERR	00905001
0006BC	47F0 5728		00728	913	B	COMPFIN	00906001
				914	*		00907001
				915	*	ERR1	00908001
				916	*		00909001
				917	*	E1	00910001
				918	*	ACTIVATES ERR7, SKIPS INVALID CHARACTER AND RETURNS TO	00911001
				919	*	EITHER TESTLOOP OR LIST	00912001
				920	*	ENTERED VIA BPRTAB WHEN USED BY TESTLOOP OR LIST	00913001
				921	*	INVALID CHARACTER FOLLOWING AN APOSTROPHE IS TREATED	00914001
				922	*	SPECIALY IN NPAFTAPO	00915001
				923	*		00916001
0006C0	4560 578A		0078A	924	ERR1	BAL R6,ERR7	NOT PERMITTED CHARACTER 00917001
				925	*		00918001
0006C4	0401			926	DC	X'0401'	E1 00919001
				927	*		00920001
0006C6	4110 1001		00001	928	LA	R1,1(,R1)	00921001
0006CA	07FA			929	BR	R10	RETURN TO TEST OR TRATE 00922001
				930	*		00923001
				931	*	ERR2	00924001
				932	*		00925001
				933	*	ERR2 7, 16, 31, 32, 33, 34	00926001
				934	*	ENTERED ERROR7, IER, ARRAYERR, SWITCHERR	00927001
				935	*	SLASHERR, SEMCLST, SEMCLER, ARRYSLSH	00928001
				936	*	SLASHLST, PNAMEERR	00929001
				937	*	NAME TAKE FROM AITL	00930001
				938	*	ERR2B 10, 36, 37	00931001
				939	*	ERROR10, PROCFIN, ERROP37	00932001
				940	*	NAME TAKEN FROM LPBP-11	00933001
				941	*	ERR2C 14	00934001
				942	*	EROUT	00935001
				943	*	DELIMITER TAKEN FROM BUCKET	00936001
				944	*	ERR2E 16, 26, 27, 30	00937001
				945	*	IDVALCHK, VALDLB2, IDSELSE, NOTFOUND	00938001
				946	*	NAME TAKEN FROM IDBUCKET	00939001
				947	*	ERR2D UTILISES ERROR2 TO FIND LENGTH	00940001
				948	*	ERROR1 TO CREATE MESSAGE	00941001
				949	*	MOVES IN INFORMATION	00942001
				950	*	RETURNS TO CALLING SEQUENCE	00943001
				951	*		00944001
0006CC	5870 DD68		00D68	952	ERR2	L R7,AITL	NAME FROM AITL 00945001
0006D0	47F0 56F2		006F2	953	B	ERR2D	00946001
				954	*		00947001
0006D4	5870 DD70		00D70	955	ERR2B	L R7,LPBP	NAME FRM LPBP-11 00948001
0006D8	5870 BD38		02D38	956	S	R7,KF11	00949001
0006DC	47F0 56F2		006F2	957	B	ERR2D	00950001
				958	*		00951001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.12
0006E0	D205 537E	4001	0037E	00001	959 ERR2C	MVC BUCKET(6),1(R4)	DELIMITER FROM BUCKET	00952001	
0006E6	4170 537E		0037E	960		LA R7, BUCKET		00953001	
0006EA	47F0 56F2		006F2	961		B ERR2D		00954001	
				962	*			00955001	
0006EE	4170 873E		0173E	963 ERR2E	LA	R7, IDBUCKET	E26 NAME FROM IDBUCKET	00956001	
0006F2	90CF BD74		02D74	964 ERR2D	STM	R12, R15, ERRSAVE		00957001	
0006F6	45C0 588E		0088E	965	BAL	R12, ERROR2	GET NAME AND LENGTHS	00958001	
0006FA	45C0 584A		0084A	966	BAL	R12, ERROR1	CREATE ENTRY IN ERRPOOL	00959001	
0006FE	4420 58AC		008AC	967	EX	R2, ERRMOVE	MOVE THE NAME	00960001	
000702	98CF BD74		02D74	968	LM	R12, R15, ERRSAVE		00961001	
000706	47F0 6002		00002	969	B	2(, R6)		00962001	
				970	*			00963001	
				971	*	ERROR3		00964001	
				972	*			00965001	
				973	*	GENERATES PATTERN FOR E3		00966001	
				974	*	ENTERED FROM LABEL, COLONLST		00967001	
				975	*	TAKES INFORMATION FROM BUCKET		00968001	
				976	*			00969001	
00070A	90CF BD74		02D74	977 ERROR3	STM	R12, R15, ERRSAVE	GET PARAMETER FIELD	00970001	
00070E	4160 5722		00722	978	LA	R6, PARAM3		00971001	
000712	45C0 584A		0084A	979	BAL	R12, ERROR1	CREATE PATTERN	00972001	
000716	D205 F004	537E 00004	0037E	980	MVC	4(6, R15), BUCKET	MOVE IN INFORMATION	00973001	
00071C	98CF BD74		02D74	981	LM	R12, R15, ERRSAVE		00974001	
000720	07FA			982	BR	R10		00975001	
				983	*			00976001	
000722	0A03			984 PARAM3	DC	X'0A03'		00977001	
				985	*			00978001	
				986	*	ERR4		00979001	
				987	*			00980001	
				988	*	PROCESS ALL TERMINATING ERRORS THAT ARE 4 BYTTES LONG		00981001	
				989	*			00982001	
				990	*	NO - 4, 6, 20, 22, 38, 41, 44, 213, 215, 216		00983001	
				991	*	ENTERED FROM - LABEL, ITABCLEA, COB, BEGIN, BEG1,		00984001	
				992	*	PBLCKEND, FOR, PROCEDUR, ENDMISS		00985001	
				993	*	EXITS TO COMPFIN		00986001	
				994	*			00987001	
000724	45C0 584A		0084A	995 ERR4	BAL	R12, ERROR1		00988001	
				996	*			00989001	
				997	*	COMPFIN		00990001	
				998	*			00991001	
				999	*	TERMINATING ERROR HAS BEEN FOUND		00992001	
				1000	*	SETS TERR IN COMPFILGS		00993001	
				1001	*	EXITS TO KOPOOLRL IN TERMINATION		00994001	
				1002	*			00995001	
000728	9608 D080		00080	1003 COMPFIN	OI	COMPFILGS, TERR	SET TERMINATING ERROR BIT	00996001	
00072C	47F0 B3F6		023F6	1004	B	KOPOOLRL	EXIT TO TERMINATION	00997001	
				1005	*			00998001	
				1006	*	ERR5		00999001	
				1007	*			01000001	
				1008	*	ERR5A E35 FROM BPRTAB, DISP IN TESTTABL		01001001	
				1009	*	ERR5 E2 FROM BPRTAB, DISP IN ARTABLE		01002001	
				1010	*	GENERATES ERROR PATTERN RETURNS TO TESTLOOP OR LIST		01003001	
				1011	*			01004001	
000730	4160 574A		0074A	1012 ERR5A	LA	R6, PPARLST	GET PARAMETER FIELD	01005001	
000734	47F0 573C		0073C	1013	B	ERR5B		01006001	
				1014	*			01007001	
000738	4160 574C		0074C	1015 ERR5	LA	R6, PONTPAR	GET PARAMETER FIELD	01008001	
00073C	90CF BD74		02D74	1016 ERR5B	STM	R12, R15, ERRSAVE		01009001	
000740	45C0 584A		0084A	1017	BAL	R12, ERROR1	GENERATE PATTERN	01010001	
000744	98CF BD74		02D74	1018	LM	R12, R15, ERRSAVE		01011001	
000748	07FA			1019	BR	R10	RETURN TO TESTLOOP OR LIST	01012001	
				1020	*			01013001	
00074A	0423			1021 PPARLST	DC	X'0423'		01014001	
00074C	0402			1022 PONTPAR	DC	X'0402'	E2	01015001	
				1023	*			01016001	
				1024	*	ERR6		01017001	
				1025	*			01018001	
				1026	*	GENERATES PATTERN FOR E6		01019001	
				1027	*	TESTS IF PROGRAM STARTED IF NOT, NO ERROR MESSAGE		01020001	
				1028	*	TEST IF IN COMMENT OR IDENTIFIER PROGRAM		01021001	
				1029	*	TAKES THE 6 CHARACTERS PRECEEDING THE FIRST QUOTE		01022001	
				1030	*	RETURNS TO APOSTROPHE PROGRAM TO TEST ON SECOND		01023001	
				1031	*	QUOTE		01024001	
				1032	*			01025001	
00074E	9120 DD8F		00D8F	1033 ERR6	TM	BITS2, X'20'	FIRST BEGIN FOUND YET ?	01026001	
000752	4780 5174		00174	1034	BZ	TESTLOOP	NO	01027001	
000756	91FF DD81		00D81	1035	TM	FBYTE, X'FF'		01028001	
00075A	4710 5304		00304	1036	BO	ENTRAPR	INVALID IDENTIFIER	01029001	
00075E	4780 576A		0076A	1037	BZ	ERR6A	COMMENT	01030001	
000762	4110 1001		00001	1038	LA	R1, 1(, R1)		01031001	
000766	47F0 5C0C		00C0C	1039	B	TPSPECER		01032001	
				1040	*			01033001	
00076A	0610			1041 ERR6A	BCTR	R1, 0		01034001	
00076C	90CF BD74		02D74	1042	STM	R12, R15, ERRSAVE		01035001	
000770	45C0 584A		0084A	1043	BAL	R12, ERROR1		01036001	
000774	5B10 BD24		02D24	1044	S	R1, KF6	SUBTRACT 6	01037001	
000778	D205 F004	1000 00004	00000	1045	MVC	4(6, R15), 0(R1)	MOVE OUT INFORMATION TO POOL	01038001	
00077E	4110 1007		00007	1046	LA	R1, 7(, R1)		01039001	
000782	98CF BD74		02D74	1047	LM	12, 15, ERRSAVE		01040001	
000786	47F0 5304		00304	1048	B	ENTRAPR	RETURN TO TEST SECOND APOST	01041001	
				1049	*			01042001	
				1050	*	ERR7		01043001	
				1051	*			01044001	
				1052	*	TAKES CARE OF ALL SERIOUS AND WARNING MESSAGES THAT ARE		01045001	
				1053	*	4 BYTES LONG		01046001	
				1054	*			01047001	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
				1055 *		ENTERED FROM -			01048001
				1056 *		ERR1, IERSPEC, ARNAME, SWITCHNSE, PNAMESE, LABNAMER,			01049001
				1057 *		CODE, SEMCO, ERR18 ERR23, CODE, SPEC, VALUE, VALDLB2,			01050001
				1058 *		FIRSTBEG, ERR9, LABEL, PROCEDURE, SWITCH, COM			01051001
				1059 *		1, 5, 8, 15, 17, 18, 23, 24, 25, 28, 29, 42, 43, 216			01052001
				1060 *		RETURNS TO CALLING SEQUENCE			01053001
				1061 *					01054001
00078A	90CF BD74		02D74	1062 ERR7	STM	R12,R15,ERRSAVE			01055001
00078E	45C0 584A		0084A	1063	BAL	R12,ERROR1	CREATE ENTRY		01056001
000792	98CF BD74		02D74	1064	LM	R12,R15,ERRSAVE			01057001
000796	47F0 6002		00002	1065	B	2(,R6)			01058001
				1066 *					01059001
				1067 *		ERR8			01060001
				1068 *					01061001
				1069 *		GENERATES ERROR PATTERN E11 ONCE			01062001
				1070 *					01063001
				1071 *		IF FOUND DELIMITER IS COMMENT E18 IS GIVEN INSTEAD			01064001
				1072 *		ENTERED FROM - TYPESPEC, STARTDEL			01065001
				1073 *		EXITS TO TESTLOOP			01066001
				1074 *					01067001
00079A	9180 DD90	00D90		1075 ERR8	TM	BITS3,E11BIT	MESSAGE ALLREADY GIVEN ONCE ?		01068001
00079E	4110 1001		00001	1076	LA	R1,1(,R1)	GET NEXT CHARACTER		01069001
0007A2	4710 5174		00174	1077	BO	TESTLOOP	YES, RETURN		01070001
0007A6	9538 DD80		00D80	1078	CLI	BCHAR,X'38'	COMMENT FOUND ?		01071001
0007AA	4780 57BC		007BC	1079	BE	E18	YES GENERATE E18 INSTEAD		01072001
0007AE	9680 DD90		00D90	1080	OI	BITS3,E11BIT	SET E11BIT		01073001
0007B2	4560 578A		0078A	1081	BAL	R6,ERR7	GENERATE E11 PATTERN		01074001
				1082 *					01075001
0007B6	040B			1083	DC	X'040B'			01076001
				1084 *					01077001
0007B8	47F0 57C2		007C2	1085	B	E18A			01078001
				1086 *					01079001
0007BC	4560 578A		0078A	1087 E18	BAL	R6,ERR7			01080001
				1088 *					01081001
0007C0	0412			1089	DC	X'0412'			01082001
				1090 *					01083001
0007C2	07FA			1091 E18A	BR	R10	RETURN		01084001
				1092 *					01085001
				1093 *		ERR9			01086001
				1094 *					01087001
				1095 *		GENERATE E9 PATTERN			01088001
				1096 *					01089001
				1097 *		ENTERED FROM - TED, END, READROUT			01090001
				1098 *		EXITS TO EODADIN			01091001
				1099 *					01092001
0007C4	4560 578A		0078A	1100 ERR9	BAL	R6,ERR7	PROGRAM CONT AFTER LAST END		01093001
				1101 *					01094001
0007C8	042B			1102	DC	X'042B'			01095001
				1103 *					01096001
0007CA	47F0 B3B2		023B2	1104	B	EODADIN			01097001
				1105 *					01098001
				1106 *		ERROR10			01099001
				1107 *					01100001
				1108 *		GENERATES E10 PATTERN			01101001
				1109 *					01102001
				1110 *		INSERTS IN THE NOT SPECIFID PARAMETERS AN ALL PURPOSE			01103001
				1111 *		IDENTIFIER			01104001
				1112 *		RETURNS TO CALLING PROGRAM			01105001
				1113 *					01106001
0007CE	4560 56D4		006D4	1114 ERROR10	BAL	R6,ERR2B			01107001
				1115 *					01108001
0007D2	000A			1116	DC	X'000A'	E10		01109001
				1117 *					01110001
0007D4	5860 DD70		00D70	1118	L	R6,LPBP			01111001
0007D8	4160 600B		0000B	1119 FINDEMTY	LA	R6,11(,R6)	GET FIRST PARAMETER		01112001
0007DC	5960 DD68		00D68	1120	C	R6,ATIL	ALL PARAMETERS CHECKED ?		01113001
0007E0	078C			1121	BER	R12	WHEN ALL CHECKED RETURN		01114001
0007E2	9500 6006	00006		1122	CLI	6(R6),0	INSERT ALL PURPOSE IDENTIFIER		01115001
0007E6	4770 57D8		007D8	1123	BNE	FINDEMTY	IN EMPTY INTERNAL NAMES		01116001
0007EA	D204 6006	57F4 00006	007F4	1124	MVC	6(5,R6),ALLPUPOS			01117001
0007F0	47F0 57D8		007D8	1125	B	FINDEMTY			01118001
				1126 *					01119001
0007F4	91FF010000			1127 ALLPUPOS	DC	X'91FF010000'			01120001
				1128 *					01121001
				1129 *		ERR13			01122001
				1130 *					01123001
				1131 *		GENERATES E13 PATTERN			01124001
				1132 *		PICKS UP THE DELIMITER FROM KEYWTAB			01125001
				1133 *					01126001
0007F9	00								
0007FA	90CF BD74		02D74	1134 ERR13	STM	12,15,ERRSAVE			01127001
0007FE	41C0 E005		00005	1135	LA	R12,5(,R14)	INCREASE TO GET WHOLE LENGTH		01128001
000802	42C6 0000		00000	1136	STC	R12,0(R6)			01129001
000806	45C0 584A		0084A	1137	BAL	R12,ERROR1			01130001
00080A	58E0 BD7C		02D7C	1138	L	R14,ERRSAVE+8	GET LENGTH OF DELIMITER		01131001
00080E	4170 4001		00001	1139	LA	R7,1(,R4)	GET START ADDR OF DELIMITER		01132001
000812	44E0 58AC		008AC	1140	EX	R14,ERRMOVE	MOVE DELIMITER TO ERROR PATTERN		01133001
000816	98CF BD74		02D74	1141	LM	12,15,ERRSAVE			01134001
00081A	47F0 6002		00002	1142	B	2(0,R6)	RETURN		01135001
				1143 *					01136001
				1144 *		ERROR21			01137001
				1145 *					01138001
				1146 *		GENERATES E21 PATTERN			01139001
				1147 *		PICKS UP DELIMITER FROM DELIMITER TABLE			01140001
				1148 *		EXITS TO PROGRAM WHICH CALLED FOR BEG1			01141001
				1149 *					01142001

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00081E	90CF BD74		02D74	1150	ERROR21	STM 12,15,ERRSAVE	01143001
000822	4160 E005		00005	1151		LA R6,5(,R14)	01144001
000826	4260 5848		00848	1152		STC R6,E21PAR	01145001
00082A	4160 5848		00848	1153		LA R6,E21PAR	01146001
00082E	45C0 584A		0084A	1154		BAL R12,ERROR1	01147001
000832	5870 BDC8		02DC8	1155		L R7,SAVE1	01148001
000836	58E0 BD7C		02D7C	1156		L R14,ERRSAVE+8	01149001
00083A	44E0 58AC		008AC	1157		EX R14,ERRMOVE	01150001
00083E	4130 3001		00001	1158		LA R3,1(,R3)	01151001
000842	98CF BD74		02D74	1159		LM 12,15,ERRSAVE	01152001
000846	07F9			1160		BR R9	01153001
				1161	*		01154001
000848	0015		1162	E21PAR	DC	X'0015'	01155001
			1163	*			01156001
			1164	*		ERROR1	01157001
			1165	*			01158001
			1166	*		CHECKS IF SPACE LEFT IN ERRORPOOL	01159001
			1167	*		INSERTS LENGTH, SEMCNT, ERROR NUMBER	01160001
			1168	*		RETURNS TO CALLIN ERROR PUTINE	01161001
			1169	*			01162001
00084A	D200 5863 6000	00863	00000	1170	ERROR1	MVC ERRMOD1+3(1),0(R6)	01163001
000850	D200 5879 6000	00879	00000	1171		MVC ERRMOD2+1(1),0(R6)	01164001
000856	D200 587D 6001	0087D	00001	1172		MVC ERRMOD3+1(1),1(R6)	01165001
00085C	58F0 D0C0		000C0	1173		L R15,NEXTERR	01166001
000860	41E0 F000		00000	1174	ERRMOD1	LA R14,0(,R15)	01167001
000864	59E0 D0C4		000C4	1175		C R14,ENDPOOL	01168001
000868	47D0 5870		00870	1176		BNH *+8	01169001
00086C	47F0 56AC		006AC	1177		B ERR0	01170001
			1178	*			01171001
000870	58F0 D0C0		000C0	1179		L R15,NEXTERR	01172001
000874	50E0 D0C0		000C0	1180		ST R14,NEXTERR	01173001
000878	9200 F000	00000		1181	ERRMOD2	MVI 0(R15),0	01174001
00087C	9200 F001	00001		1182	ERRMOD3	MVI 1(R15),0	01175001
000880	D201 F002 D09C	00002	0009C	1183		MVC 2(2,R15),SEMCNT	01176001
000886	18E1			1184		LR R14,R1	01177001
000888	4BE0 58B2		008B2	1185		SH R14,KH7	01178001
00088C	07FC			1186		BR R12	01179001
			1187	*			01180001
			1188	*		ERROR2	01181001
			1189	*			01182001
			1190	*		FINDS FIRST NONZERO CHAR IN BUCKET, ITAB, IDBUCKET OR	01183001
			1191	*		BUCKET	01184001
			1192	*			01185001
00088E	4120 0005		00005	1193	ERROR2	LA R2,5	01186001
000892	4220 5899		00899	1194	ERROR2A	STC R2,ERRKCAL+3	01187001
000896	9500 7000	00000		1195	ERRKCAL	CLI 0(R7),0	01188001
00089A	4770 58A2		008A2	1196		BNE ERRK01	01189001
00089E	4620 5892		00892	1197		BCT R2,ERROR2A	01190001
0008A2	41F0 2005		00005	1198	ERRK01	LA R15,5(,R2)	01191001
0008A6	42F0 6000		00000	1199		STC R15,0(,R6)	01192001
0008AA	07FC			1200		BR R12	01193001
			1201	*			01194001
0008AC			1202		CNOP	0,4	01195001
0008AC	D200 F004 7000	00004	00000	1203	ERRMOVE	MVC 4(1,R15),0(R7)	01196001
			1204	*			01197001
0008B2	0007		1205	KH7	DC	X'0007'	01198001
			1206	*			01199001
			1207	*		IDCHECK1	01200001
			1208	*			01201001
			1209	*		CHECKS IDENTIFIER NAMES FOR ARRAY, PROCEDURE AND SWITCH	01202001
			1210	*			01203001
			1211	*		MOVES THE FIRST 6 CHARACTERS OF THE NAME TO ITAB AND THE	01204001
			1212	*		OUTPUT	01205001
			1213	*		RETURNS VIA R6 WHEN A CHARACTER IS FOUND THAT IS NOT	01206001
			1214	*		LETTER, DIGIT, BLANK OR ZETA	01207001
			1215	*			01208001
0008B4	45C0 598C		0098C	1216	IDCHECK1	BAL R12,C0B	01209001
0008B8	D200 3000 1000	00000	00000	1217		MVC 0(1,R3),0(R1)	01210001
0008BE	4130 3001		00001	1218		LA R3,1(,R3)	01211001
0008C2	5870 D068		00D68	1219		L R7,AITL	01212001
0008C6	D200 7000 1000	00000	00000	1220		MVC 0(1,R7),0(R1)	01213001
0008CC	4170 7001		00001	1221		LA R7,1(,R7)	01214001
0008D0	4120 0001		00001	1222		LA R2,1	01215001
0008D4	4190 58DC		008DC	1223		LA R9,IDCHECK3	01216001
0008D8	4110 1001		00001	1224	IDCHECK2	LA R1,1(,R1)	01217001
0008DC	952F 1000	00000		1225	IDCHECK3	CLI 0(R1),XFZETA	01218001
0008E0	0746			1226		BLR R6	01219001
0008E2	4780 5A28		00A28	1227		BE CIB	01220001
0008E6	5920 BD24		02D24	1228		C R2,KF6	01221001
0008EA	4780 58D8		008D8	1229		BE IDCHECK2	01222001
0008EE	45C0 598C		0098C	1230		BAL R12,C0B	01223001
0008F2	D200 3000 1000	00000	00000	1231		MVC 0(1,R3),0(R1)	01224001
0008F8	4130 3001		00001	1232		LA R3,1(,R3)	01225001
0008FC	D200 7000 1000	00000	00000	1233		MVC 0(1,R7),0(R1)	01226001
000902	4170 7001		00001	1234		LA R7,1(,R7)	01227001
000906	4120 2001		00001	1235		LA R2,1(,R2)	01228001
00090A	47F0 58D8		008D8	1236		B IDCHECK2	01229001
			1237	*			01230001
			1238	*		FINDSEMC	01231001
			1239	*			01232001
			1240	*		CHECKS FOR SEMICOLON OR POINT	01233001
			1241	*		COMMA BLANKS AND I/P BUFFER CHANGE IS HANDLED	01234001
			1242	*		IF SEMICOLON IS FOUND THE RETURN IS VIA R12 IF NOT	01235001
			1243	*		THE RETURN IS VIA R6	01236001
			1244	*			01237001
00090E	4110 1001		00001	1245	FINDSEMA	LA R1,1(,R1)	01238001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000912	4190 5912		00912	1246	FINDSEMC	LA R9,*	01239001
000916	950B 1000	00000		1247		CLI 0(R1),XFSCOLON	01240001
00091A	4780 C000		00000	1248		BE 0(,R12)	01241001
00091E	952D 1000	00000		1249		CLI 0(R1),XFPERIOD	01242001
000922	4780 5938		00938	1250		BE FINDCOMA	01243001
000926	952B 1000	00000		1251		CLI 0(R1),XFBLANK	01244001
00092A	4780 590E		0090E	1252		BE FINDSEMA	01245001
00092E	952F 1000	00000		1253		CLI 0(R1),XFZETA	01246001
000932	4780 5A28		00A28	1254		BE CIB	01247001
000936	07F6			1255		BR R6	01248001
				1256	*		01249001
000938	4190 5940		00940	1257	FINDCOMA	LA R9,*+8	01250001
00093C	4110 1001		00001	1258	FINDCOMB	LA R1,1(,R1)	01251001
000940	9525 1000	00000		1259		CLI 0(R1),XFCOMMA	01252001
000944	4780 C000		00000	1260		BE 0(,R12)	01253001
000948	952B 1000	00000		1261		CLI 0(R1),XFBLANK	01254001
00094C	4780 593C		0093C	1262		BE FINDCOMB	01255001
000950	952F 1000	00000		1263		CLI 0(R1),XFZETA	01256001
000954	4780 5A28		00A28	1264		BE CIB	01257001
000958	07F6			1265		BR R6	01258001
				1266	*		01259001
				1267	*	ITABCLEA	01260001
				1268	*		01261001
				1269	*	CHECKS FOR ITAB OVERFLOW AND CLEARS THE NEXT ENTRY	01262001
				1270	*		01263001
00095A	58F0 DD68		00D68	1271	ITABCLEA	L R15,AITL	01264001
00095E	41F0 F00B		0000B	1272		LA R15,11(,R15)	01265001
000962	59F0 DCC8		00CC8	1273	ITABCLEC	C R15,ELI	01266001
000966	4740 5970		00970	1274		BL ITABCLEB	01267001
00096A	4560 5724		00724	1275		BAL R6,ERR4	01268001
				1276	*		01269001
00096E	04D5			1277		DC X'04D5'	01270001
				1278	*		01271001
000970	187F			1279	ITABCLEB	LR R7,R15	01272001
000972	50F0 DD68		00D68	1280		ST R15,AITL	01273001
000976	9200 F000	00000		1281		MVI 0(R15),0	01274001
00097A	D209 F001 F000	F000 00001	00000	1282		MVC 1(10,R15),0(R15)	01275001
000980	07FC			1283		BR R12	01276001
				1284	*		01277001
				1285	*	COB	01278001
				1286	*		01279001
				1287	*	CHECKS IF NEW O/P BUFFER IS NEEDED	01280001
				1288	*		01281001
				1289	*	ENTRY IS TO COBSPEC IF TWO OR MORE CONTINUOUS BYTES ARE	01282001
				1290	*	NEEDED	01283001
				1291	*	THE CHANGE OF ADDR BETWEEN THE TWO BUFFERS IS DONE	01284001
				1292	*	WITH DISP. DISP IS EITHER 0 OR 4 SO ADDARI+DISP WILL	01285001
				1293	*	PICK UP EITHER ADDARI OR THE ADDR OF THE ALTERNATE	01286001
				1294	*	O/P BUFFER	01287001
				1295	*	WADDARI POINTS TO THE FIRST BYTE OF THE CURRENT O/P	01288001
				1296	*	BUFFER	01289001
				1297	*	R3 IS THE CURRENT O/P POINTER	01290001
				1298	*	APE POINTS TO THE LAST BYTE OF THE CORRENT BUFFER	01291001
				1299	*	ONC CONTAINS THE CURRENT O/P RECORD NUMBER	01292001
				1300	*	ZETA IS THE BUFFER END INDICATION	01293001
				1301	*		01294001
000982	5900 DCDC		00CDC	1302	COBSPEC	C R0,APE	01295001
000986	074C			1303		BLR R12	01296001
000988	47F0 5992		00992	1304		B COBSPEB	01297001
				1305	*		01298001
00098C	5930 DCDC		00CDC	1306	COB	C R3,APE	01299001
000990	074C			1307		BLR R12	01300001
000992	922F 3000	00000		1308	COBSPEB	MVI 0(R3),XFZETA	01301001
000996	90E2 BDC8		02DC8	1309		STM R14,R2,SAVE1	01302001
00099A	5060 BDE0		02DE0	1310		ST R6,SAVE1+24	01303001
00099E	95FF DD85		00D85	1311		CLI ONC,255	01304001
0009A2	4740 59AC		009AC	1312		BL COBSPED	01305001
0009A6	4560 5724		00724	1313		BAL R6,ERR4	01306001
				1314	*		01307001
0009AA	04D7			1315		DC X'04D7'	01308001
				1316	*		01309001
0009AC	5830 DD74		00D74	1317	COBSPED	L R3,WADDARI	01310001
0009B0	4160 D578		00578	1318		LA R6,SYSUT1	01311001
0009B4	9500 DD85		00D85	1319		CLI ONC,0	01312001
0009B8	4780 59CC		009CC	1320		BE WRITEOB	01313001
				1321	*		01314001
				1322		CHECK ODECB	01315001
0009BC	4110 59D0		009D0	1323+		LA 1,ODECB	02-IHBRD
0009C0	58E0 1008		00008	1324+		L 14,8(0,1)	PICK UP DCB ADDR 01-CHECK
0009C4	58F0 E034		00034	1325+		L 15,52(0,14)	LOAD CHECK ROUTINE ADDR 01-CHECK
0009C8	05EF			1326+		BALR 14,15	LINK TO CHECK ROUTINE 01-CHECK
				1327	*		WRITTEN 01316001
				1328	WRITEOB	WRITE ODECB,SF,(R6),(R3)	01317001
0009CA	0700			1329+		CNOP 0,4	02-IHBRD
0009CC	4510 59E4		009E4	1330+WRITEOB		BAL 1,*+24	LOAD DECB ADDRESS 02-IHBRD
0009D0	00000000			1331+ODECB		DC F'0'	EVENT CONTROL BLOCK 02-IHBRD
0009D4	00			1332+		DC X'00'	TYPE FIELD 02-IHBRD
0009D5	20			1333+		DC X'20'	TYPE FIELD 02-IHBRD
0009D6	0000			1334+		DC AL2(0)	LENGTH 02-IHBRD
0009D8	00000000			1335+		DC A(0)	DCB ADDRESS 02-IHBRD
0009DC	00000000			1336+		DC A(0)	AREA ADDRESS 02-IHBRD
0009E0	00000000			1337+		DC A(0)	RECORD POINTER WORD 02-IHBRD
0009E4	5061 0008		00008	1338+		ST R6,8(1,0)	STORE DCB ADDRESS 02-IHBRD
0009E8	5031 000C		0000C	1339+		ST R3,12(1,0)	STORE AREA ADDRESS 02-IHBRD
0009EC	58F1 0008		00008	1340+		L 15,8(1,0)	LOAD DCB ADDRESS 02-IHBRD
0009F0	58F0 F030		00030	1341+		L 15,48(0,15)	LOAD RDWR ROUTINE ADDR 02-IHBRD

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0009F4	05EF			1342+	BALR	14,15	LINK TO RDWR ROUTINE 02-IHBRD
				1343 *			01318001
0009F6	9704 DCD4	00CD4		1344	XI	DISP,X'04'	CHANGE ADDR DISPLACEMENT 01319001
0009FA	4320 DCD4	00CD4		1345	IC	R2,DISP	01320001
0009FE	5832 DCCC	00CCC		1346	L	R3,ADDARI(R2)	01321001
000A02	5030 DD74	00D74		1347	ST	R3,WADDARI	01322001
000A06	18E3			1348	LR	R14,R3	01323001
000A08	5AE0 D0E0	00E00		1349	A	R14,SRCE1S	01324001
000A0C	06E0			1350	BCTR	R14,0	01325001
000A0E	50E0 DCDC	00CDC		1351	ST	R14,APE	01326001
000A12	4320 DD85	00D85		1352	IC	R2,ONC	01327001
000A16	4120 2001	00001		1353	LA	R2,1(,R2)	01328001
000A1A	4220 DD85	00D85		1354	STC	R2,ONC	01329001
000A1E	5860 BDE0	02DE0		1355	L	R6,SAVE1+24	01330001
000A22	98E2 BDC8	02DC8		1356	LM	R14,R2,SAVE1	01331001
000A26	07FC			1357	BR	R12	01332001
				1358 *			01333001
				1359 *	CIB		01334001
				1360 *			01335001
				1361 *		GET NEXT RECORD AND PRINTS IT WITH THE SEMICOLON COUNTER	01336001
				1362 *			01337001
				1363 *		IF ISO CODE IS SPECIFIED A TRANSLATION IS FIRST MADE TO	01338001
				1364 *		EBCDIC	01339001
				1365 *		THE RECORD IS TRANSLATED AND THE RECORD END INDICATION	01340001
				1366 *		ZETA IS INSERTED	01341001
				1367 *			01342001
000A28	90E2 BDC8		02DC8	1368	CIB	STM R14,R2,SAVE1	01343001
000A2C	4810 58B2		008B2	1369	SH	R1,KH7	01344001
000A30	D206 DCEC	1000 00CEC	00000	1370	MVC	WABEFOR(7),0(R1)	01345001
000A36	9180 D081	00081		1371	TM	COMPLFGS+1,NSRCE	01346001
000A3A	4710 5A48		00A48	1372	BO	GETREC	01347001
000A3E	58F0 D0B8		000B8	1373	L	R15,PRTRTADD	01348001
000A42	05EF			1374	BALR	R14,R15	01349001
000A44	5010 DD44		00D44	1375	ST	R1,APRNTAR	01350001
000A48	5810 D058		00058	1376	L	R1,ASYSDCB	01351001
				1377 *			01352001
				1378	GET	(1),WA	01353001
000A4C	4100 DCF3		00CF3	1379+	LA	0,WA	02-IHBBIN
000A50	58F0 1030		00030	1380+	L	15,48(0,1)	01-GET
000A54	05EF			1381+	BALR	14,15	01-GET
				1382 *			01354001
000A56	9110 D081	00081		1383	TESTISO	TM COMPLFGS+1,ISO	01355001
000A5A	4710 5AA2		00AA2	1384	BO	ISOTRANS	01356001
000A5E	5810 DD44		00D44	1385	L	R1,APRNTAR	01357001
000A62	9180 D081	00081		1386	TM	COMPLFGS+1,NSRCE	01358001
000A66	4710 5A88		00A88	1387	BO	NOPRINT	01359001
000A6A	48F0 D09C		0009C	1388	LH	R15,SEMCNT	01360001
000A6E	4EF0 BD60		02D60	1389	CVD	R15,DOUBLE	01361001
000A72	D205 1000	BDBF 00000	02DBF	1390	MVC	0(L'SCPATTN,R1),SCPATTN	01362001
000A78	DE05 1000	BD65 00000	02D65	1391	ED	0(L'SCPATTN,R1),DOUBLE+5	01363001
000A7E	D24F 100A	DCF3 0000A	00CF3	1392	MVC	10(80,R1),WA	01364001
000A84	47F0 5A8E		00A8E	1393	B	PRNTREC	01365001
				1394 *			01366001
000A88	D247 BDEC	DCF3 02DEC	00CF3	1395	NOPRINT	MVC SAVEPRNT+8(72),WA	01367001
000A8E	98E2 BDC8		02DC8	1396	PRNTREC	LM R14,R2,SAVE1	01368001
000A92	4110 DCF3		00CF3	1397	LA	R1,WA	01369001
000A96	DC47 DCF3	BC0C 00CF3	02C0C	1398	TR	WA(72),TREXTINT	01370001
000A9C	922F 1048		00048	1399	MVI	72(R1),XFZETA	01371001
000AA0	07F9			1400	BR	R9	01372001
				1401 *			01373001
000AA2	5060 BDE0		02DE0	1402	ISOTRANS	ST R6,SAVE1+24	01374001
000AA6	4160 DCF3		00CF3	1403	LA	R6,WA	01375001
000AAA	41F0 604F		0004F	1404	LA	R15,79(,R6)	01376001
000AAE	954C 6000	00000		1405	LOOP	CLI 0(R6),X'4C'	01377001
000AB2	4780 5ADE		00ADE	1406	BE	IRPAR	01378001
000AB6	957B 6000	00000		1407	CLI	0(R6),X'7B'	01379001
000ABA	4780 5AE6		00AE6	1408	BE	IEQUAL	01380001
000ABE	957C 6000	00000		1409	CLI	0(R6),X'7C'	01381001
000AC2	4780 5AE6		00AEE	1410	BE	IAPOST	01382001
000AC6	956C 6000	00000		1411	CLI	0(R6),X'6C'	01383001
000ACA	4780 5AF6		00AF6	1412	BE	ILPAR	01384001
000ACE	9550 6000	00000		1413	CLI	0(R6),X'50'	01385001
000AD2	4770 5AFA		00AFA	1414	BNE	LOOPEND	01386001
000AD6	924E 6000	00000		1415	MVI	0(R6),X'4E'	01387001
000ADA	47F0 5AFA		00AFA	1416	B	LOOPEND	01388001
				1417 *			01389001
000ADE	925D 6000	00000		1418	IRPAR	MVI 0(R6),X'5D'	01390001
000AE2	47F0 5AFA		00AFA	1419	B	LOOPEND	01391001
				1420 *			01392001
000AE6	927E 6000	00000		1421	IEQUAL	MVI 0(R6),X'7E'	01393001
000AEA	47F0 5AFA		00AFA	1422	B	LOOPEND	01394001
				1423 *			01395001
000AEE	927D 6000	00000		1424	IAPOST	MVI 0(R6),X'7D'	01396001
000AF2	47F0 5AFA		00AFA	1425	B	LOOPEND	01397001
				1426 *			01398001
000AF6	924D 6000	00000		1427	ILPAR	MVI 0(R6),X'4D'	01399001
000AFA	4160 6001	00001		1428	LOOPEND	LA R6,1(,R6)	01400001
000AFE	196F			1429	CR	R6,R15	01401001
000B00	47D0 5AAE		00AAE	1430	BNH	LOOP	01402001
000B04	5860 BDE0		02DE0	1431	L	R6,SAVE1+24	01403001
000B08	47F0 5ASE		00A5E	1432	B	TESTISO+8	01404001
				1433 *			01405001
				1434 *	DELTMIT		01406001
				1435 *			01407001
				1436 *		TWO QUOTES HAVE BEEN FOUND	01408001
				1437 *			01409001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				1438 *		IT IS CHECKED THAT THE LENGTH IS NOT ZERO OR EXCEED THE	01410001
				1439 *		MAXIMUM LIMIT FOR A DELIMITER (10 CHARACTERS)	01411001
				1440 *		R4 POINTS TO THE FIRST AND R1 TO THE LAST QUOTE	01412001
				1441 *		THE LENGTH IS USED TO GET A DISPLACEMENT FROM THE KWLUTAB	01413001
				1442 *		FOR A SECTION IN THE KEYWTAB. A SECTION IN THE KEYWTAB	01414001
				1443 *		CONTAINS ALL DELIMITERS OF THE SAME LENGTH.	01415001
				1444 *		1. THE FIRST BYTE IN EACH SECTION SAYS HOW MANY ENTRIES	01416001
				1445 *		THERE ARE IN THE SECTION. THEREAFTER A DELIMITER PLUS 3	01417001
				1446 *		BYTES OF INTERNAL CODE MAKES A SUBSECTION.	01418001
				1447 *		2. THE FIRST 2 BYTES OF THE INTERNAL CODE IS	01419001
				1448 *		CHARACTERISTICS FOR THE DELIMITER.	01420001
				1449 *		3. THE THIRD BYTE IS A DISPLACEMENT TO THE DELPRGTB,	01421001
				1450 *		WHERE THE ADDR IS PICKED UP TO THE PROGRAM TO HANDLE	01422001
				1451 *		THE DELIMITER.	01423001
				1452 *		A CHECK IS MADE WHEN A DELIMITER IS FOUND IF IT IS THE	01424001
				1453 *		FIRST FOUND IN THE PROGRAM. THE EXIT IS THEN TO	01425001
				1454 *		STARTDEL. THE TEST IS ON BITS2 X'20'. IF NO DELIMITER IS	01426001
				1455 *		FOUND THE EXIT IS TO THE EROUT PROGRAM.	01427001
				1456 *		FBYTE - SWITCH -	01428001
				1457 *		1. THE FBYTE IS FF IF AN APOSTROPHE IS FOUND IN THE	01429001
				1458 *		COMMENT PROGRAM	01430001
				1459 *		2. THE FBYTE IS F0 IF AN APOSTROPHE IS FOUND IN THE TYPE	01431001
				1460 *		PROGRAM INSTEAD OF THE FIRST CHARACTER OF THE NAME	01432001
				1461 *		3. OTHERWISE IT IS 00	01433001
				1462 *			01434001
000B0C	1BFF			1463 DELIMIT	SR	R15,R15	01435001
000B0E	18E1			1464	LR	R14,R1	01436001
000B10	06E0			1465	BCTR	R14,0	01437001
000B12	1BE4			1466	SR	R14,R4	01438001
000B14	4720 5B1E	00B1E		1467	BP	DELIM01	01439001
000B18	4560 574E	0074E		1468	BAL	R6,ERR6	01440001
				1469 *			01441001
000B1C	0A0C			1470	DC	X'0A0C'	01442001
				1471 *		E12 DELETE FIRST APOSTROPHE	01443001
000B1E	59E0 BD38	02D38		1472 DELIM01	C	R14,KF11	01444001
000B22	4720 5B7C	00B7C		1473	BH	EROUT	01445001
000B26	06E0			1474	BCTR	R14,0	01446001
000B28	4190 B990	02990		1475	LA	R9,KWLUTAB	01447001
000B2C	91FF DD81	00D81		1476	TM	FBYTE,X'FF'	01448001
000B30	4710 5C24	00C24		1477	BO	COMSPEC	01449001
000B34	4740 5BF0	00BF0		1478	BM	TYPESPEC	01450001
000B38	8BE0 0002	00002		1479	SLA	R14,2	01451001
000B3C	589E 9000	00000		1480	L	R9,0(R14,R9)	01452001
000B40	43F0 9000	00000		1481	IC	R15,0(,R9)	01453001
000B44	4190 9001	00001		1482	LA	R9,1(,R9)	01454001
000B48	8AE0 0002	00002		1483	SRA	R14,2(0)	01455001
000B4C	44E0 5B76	00B76		1484 CLCLOOP	EX	R14,EXCLC	01456001
000B50	4770 5B6A	00B6A		1485	BNE	NOMATCH	01457001
000B54	432E 9003	00003		1486	IC	R2,3(R14,R9)	01458001
000B58	9120 DD8F	00D8F		1487	TM	BITS2,X'20'	01459001
000B5C	4710 5B64	00B64		1488	BO	DELIM02	01460001
000B60	47F0 5C54	00C54		1489	B	STARTDEL	01461001
				1490 *			01462001
000B64	5862 BAE8	02AE8		1491 DELIM02	L	R6,DELPRGTB(R2)	01463001
000B68	07F6			1492	BR	R6	01464001
				1493 *			01465001
000B6A	419E 9004	00004		1494 NOMATCH	LA	R9,4(R14,R9)	01466001
000B6E	46F0 5B4C	00B4C		1495	BCT	R15,CLCLOOP	01467001
000B72	47F0 5B7C	00B7C		1496	B	EROUT	01468001
				1497 *			01469001
000B76	D500 4001 9000 00001 00000			1498 EXCLC	CLC	1(1,R4),0(R9)	01470001
				1499 *			01471001
				1500 *		EROUT	01472001
				1501 *			01473001
				1502 *		CHECKS ALL SECTIONS OF THE KEYWTAB FOR AN EQUAL DELIMITER	01474001
				1503 *		TO THE ONE IN I/P, DISREGARDING LENGTH	01475001
				1504 *			01476001
				1505 *		IF NO EQUAL FOUND E14 IS GENERATED AND THE FIRST	01477001
				1506 *		APOSTROPHE IS DELETED. EXIT IS THEN TO TEST.	01478001
				1507 *		IF AN EQUAL IS FOUND E13 IS GENERATED AND AN BRANCH IS	01479001
				1508 *		TAKEN TO THE APPROPRIATE SUBPROGRAM	01480001
				1509 *			01481001
000B7C	91FF DD81	00D81		1510 EROUT	TM	FBYTE,X'FF'	01482001
000B80	4740 5BF0	00BF0		1511	BM	TYPESPEC	01483001
000B84	4710 8370	01370		1512	BO	COMCEE2	01484001
000B88	4120 000A	0000A		1513 EROUTOK	LA	R2,10	01485001
000B8C	1BFF			1514	SR	R15,R15	01486001
000B8E	1BEE			1515	SR	R14,R14	01487001
000B90	8BE0 0002	00002		1516 EROUT2	SLA	R14,2	01488001
000B94	4190 B990	02990		1517	LA	R9,KWLUTAB	01489001
000B98	589E 9000	00000		1518	L	R9,0(R14,R9)	01490001
000B9C	43F0 9000	00000		1519	IC	R15,0(,R9)	01491001
000BA0	4190 9001	00001		1520	LA	R9,1(,R9)	01492001
000BA4	8AE0 0002	00002		1521	SRA	R14,2	01493001
000BA8	44E0 5B76	00B76		1522 CLCERR	EX	R14,EXCLC	01494001
000BAC	4770 5BCC	00BCC		1523	BNE	EROUT3	01495001
000BB0	9120 DD8F	00D8F		1524	TM	BITS2,STARTBIT	01496001
000BB4	4780 5C54	00C54		1525	BZ	STARTDEL	01497001
000BB8	4560 57FA	007FA		1526	BAL	R6,ERR13	01498001
				1527 *			01499001
000BBC	000D			1528	DC	X'000D'	01500001
				1529 *		E13	01501001
000BBE	411E 4001	00001		1530	LA	R1,1(R14,R4)	01502001
000BC2	432E 9003	00003		1531	IC	R2,3(R14,R9)	01503001
000BC6	5862 BAE8	02AE8		1532	L	R6,DELPRGTB(R2)	01504001
000BCA	07F6			1533	BR	R6	01505001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				1534 *			01506001
000BCC	419E 9004		00004	1535	EROUT3	LA R9,4(R14,R9)	01507001
000BD0	46F0 5BA8		00BA8	1536		BCT R15,CLCERR	01508001
000BD4	41E0 E001		00001	1537		LA R14,1(,R14)	01509001
000BD8	4620 5B90		00B90	1538		BCT R2,EROUT2	01510001
000BDC	9120 DD8F	00D8F		1539		TM BITS2,X'20'	01511001
000BE0	4780 5174		00174	1540		BZ TESTLOOP	01512001
000BE4	4560 56E0		006E0	1541		BAL R6,ERR2C	01513001
				1542 *			01514001
000BE8	0A0E			1543		DC X'0A0E'	01515001
				1544 *			01516001
000BEA	4110 4001		00001	1545		LA R1,1(,R4)	01517001
000BEE	07FA			1546		BR R10	01518001
				1547 *			01519001
				1548 *		TYPESPEC	01520001
				1549 *			01521001
				1550 *		'REAL' OR 'INTEGER' OR 'BOOLEAN' HAS BEEN FOUND	01522001
				1551 *			01523001
				1552 *		THE ONLY VALID DELIMITERS ARE AT THIS POINT ARRAY OR	01524001
				1553 *		PROCEDURE	01525001
				1554 *			01526001
000BF0	D508 4001	BACE	00001	02ACE	1555	TYPESPEC CLC 1(L'KWPROC,R4),KWPROC	01527001
000BF6	4780 8EE4			01EE4	1556	BE TYPPROC	01528001
000BFA	9120 DD8F		00D8F		1557	TM BITS2,X'20'	01529001
000BFE	4780 579A		0079A		1558	BZ ERR8	01530001
000C02	D504 4001	BA3B	00001	02A3B	1559	CLC 1(L'KWARRAY,R4),KWARRAY	01531001
000C08	4780 882E		0182E		1560	BE TYPEARRY	01532001
				1561 *			01533001
				1562 *			01534001
000C0C	9140 DD8E		00D8E		1563	TPSPECER TM BITS1,X'40'	01535001
000C10	4710 5C1C		00C1C		1564	BO TPSPEC01	01536001
000C14	41F0 84D2		014D2		1565	LA R15,TYPDEFI	01537001
000C18	47F0 8588		01588		1566	B IERSPEC	01538001
				1567 *			01539001
000C1C	41F0 86AE		016AE		1568	TPSPEC01 LA R15,IDCHECK	01540001
000C20	47F0 8588		01588		1569	B IERSPEC	01541001
				1570 *			01542001
				1571 *		COMSPEC	01543001
				1572 *			01544001
				1573 *		TWO APOSTROPHES HAVE BEEN FOUND IN A COMMENT	01545001
				1574 *			01546001
				1575 *		VALID DELIMITERS TO END A COMMENT ARE END OR ELSE	01547001
				1576 *			01548001
000C24	4190 BA00		02A00		1577	COMSPEC LA R9,KWELSE	01549001
000C28	D503 4001	BA00	00001	02A00	1578	CLC 1(L'KWELSE,R4),KWELSE	01550001
000C2E	4770 5C3E		00C3E		1579	BNE COMSPECN	01551001
000C32	59E0 BD18		02D18		1580	C R14,KF3	01552001
000C36	4780 5D02		00D02		1581	BE TED	01553001
000C3A	47F0 5304		00304		1582	B ENTRAPR	01554001
				1583 *			01555001
000C3E	D502 4001	B9D2	00001	029D2	1584	COMSPECN CLC 1(L'KWEND,R4),KWEND	01556001
000C44	4770 5304		00304		1585	BNE ENTRAPR	01557001
000C48	59E0 BD14		02D14		1586	C R14,KF2	01558001
000C4C	4780 5E82		00E82		1587	BE END	01559001
000C50	47F0 5304		00304		1588	B ENTRAPR	01560001
				1589 *			01561001
				1590 *		STARTDEL	01562001
				1591 *			01563001
				1592 *		THE ONLY VALID DELIMITERS TO START A PROGRAM IS BEGIN	01564001
				1593 *		OR IF PRECOMPILED PROCEDURE IS SPECIFIED PROCEDURE OR	01565001
				1594 *		TYPE PROCEDURE	01566001
				1595 *			01567001
000C54	4220 DD80		00D80		1596	STARTDEL STC R2,BCHAR	01568001
				1597 *			01569001
000C58	9524 DD80		00D80		1598	CLI BCHAR,X'24'	01570001
000C5C	4780 5DA6		00DA6		1599	BE FIRSTBEG	01571001
000C60	9104 D080		00080		1600	TM COMPLFGS,PROC	01572001
000C64	4780 579A		0079A		1601	BZ ERR8	01573001
000C68	953C DD80		00D80		1602	CLI BCHAR,X'3C'	01574001
000C6C	4770 5C74		00C74		1603	BNE TYPEPR01	01575001
000C70	47F0 8F28		01F28		1604	B PROCEDUR	01576001
				1605 *			01577001
000C74	9518 DD80		00D80		1606	TYPEPR01 CLI BCHAR,X'18'	01578001
000C78	4770 579A		0079A		1607	BNE ERR8	01579001
000C7C	4110 1001		00001		1608	TYPEPREC LA R1,1(,R1)	01580001
000C80	952E 1000		00000		1609	TYPEPREA CLI 0(R1),XFQUOTE	01581001
000C84	4770 5C8E		00C8E		1610	BNE TYPEPR02	01582001
000C88	0610			1611		BCTR R1,0	01583001
000C8A	47F0 8496		01496		1612	B TYPE	01584001
				1613 *			01585001
000C8E	952B 1000		00000		1614	TYPEPR02 CLI 0(R1),XFLANK	01586001
000C92	4780 5C7C		00C7C		1615	BE TYPEPREC	01587001
000C96	952F 1000		00000		1616	CLI 0(R1),XFZETA	01588001
000C9A	4770 579A		0079A		1617	BNE ERR8	01589001
000C9E	5090 BDDC		02DDC		1618	ST R9,SAVE1+20	01590001
000CA2	4590 5A28		00A28		1619	BAL R9,CIB	01591001
000CA6	5890 BDDC		02DDC		1620	L R9,SAVE1+20	01592001
000CAA	47F0 5C80		00C80		1621	B TYPEPREA	01593001
				1622 *			01594001
				1623 *		NORMAL	01595001
				1624 *			01596001
				1625 *		INSERTS IN THE O/P THE INTERNAL CODE FROM KEYWTAB	01597001
				1626 *			01598001
000CAE	45C0 598C		0098C		1627	NORMAL BAL R12,C0B	01599001
000CB2	419E 9001		00001		1628	LA R9,1(R14,R9)	01600001
000CB6	D200 3000	9000	00000	00000	1629	MVC 0(1,R3),0(R9)	01601001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000CBC	4130 3001		00001	1630	LA	R3,1(,R3)	INCREASE OUTPUT AND
000CC0	4110 1001		00001	1631	LA	R1,1(,R1)	INPUT POINTERS
000CC4	07FA			1632	BR	R10	
				1633 *			
				1634 *	BOLCON		
				1635 *			
				1636 *	MOVES OUT SIX BYTES OF INTERNAL CODE FOR FALSE OR TRUE		
				1637 *			
000CC6	4100 3006		00006	1638	BOLCON	R0,6(,R3)	
000CCA	45C0 5982		00982	1639	BAL	R12,C0BSPEC	CHECK IF ENOUGH SPACE IN O/P
000CCE	D204 3000 BD6C 00000	02D6C		1640	MVC	0(5,R3),INT	TRANSFER FIRST PART
				1641 *			OF INTERNAL NAME
000CD4	417E 9001		00001	1642	LA	R7,1(R14,R9)	AND
000CD8	D200 3005 7000 00005	00000	00000	1643	MVC	5(1,R3),0(R7)	LAST PART
000CDE	4130 3006		00006	1644	LA	R3,6(,R3)	INCR OUTPUT POINTER
000CE2	4110 1001		00001	1645	LA	R1,1(,R1)	INCR INPUT POINTERS
000CE6	07FA			1646	BR	R10	
				1647 *			
				1648 *	GIF		
				1649 *			
				1650 *	TRANSFERS INTERNAL CODE BYTE AND EXITS TO THE STATEMENT		
				1651 *	PROGRAM TO CHECK IF A PROCEDURE BOBY HAS STARTED		
				1652 *			
000CE8	45C0 598C		0098C	1653	GIF	BAL R12,C0B	CHECK IF O/P AREA FILLED
000CEC	417E 9001		00001	1654	LA	R7,1(R14,R9)	TRANSFER INTERNAL CODE
000CF0	D200 3000 7000 00000	00000	00000	1655	MVC	0(1,R3),0(R7)	
000CF6	4130 3001		00001	1656	LA	R3,1(,R3)	INCR OUTPUT POINTER
000CFA	4110 1001		00001	1657	LA	R1,1(,R1)	INCR INPUT POINTER
000CFE	47F0 52DE		002DE	1658	B	STATE	BRANCH TO STATEMENT PROGRAM
				1659 *			
				1660 *	TED		
				1661 *			
				1662 *	TRANSFERS INTERNAL CODE		
				1663 *	SETS POSSIBLE LABEL POINTERS		
				1664 *			
000D02	9180 DD8F		00D8F	1665	TED	TM BITS2,ENDBIT	ELSE ENDED FINAL END COMMENT ?
000D06	4710 57C4		007C4	1666	BO	ERR9	YES
000D0A	45C0 598C		0098C	1667	BAL	R12,C0B	
000D0E	419E 9001		00001	1668	LA	R9,1(R14,R9)	
000D12	D200 3000 9000 00000	00000	00000	1669	MVC	0(1,R3),0(R9)	TRANSFER INTERNAL CODE
000D18	5030 DD88		00D88	1670	ST	R3,OPIN	SET LABEL POINTERS
000D1C	D200 DD8C DD85 00D8C	00D85	00D85	1671	MVC	OPIN+4(1),ONC	
000D22	D200 BDB2 9000 02DB2	00000	00000	1672	MVC	OPINCHAR(1),0(R9)	
000D28	4130 3001		00001	1673	LA	R3,1(,R3)	
000D2C	5030 DD58		00D58	1674	ST	R3,LAPIN	
000D30	4110 1001		00001	1675	LA	R1,1(,R1)	
000D34	94FE DD8F		00D8F	1676	NI	BITS2,X'FE'	SET ENELSE BIT TO ZERO
000D38	07FA			1677	BR	R10	
				1678 *			
				1679 *	BEGIN		
				1680 *			
				1681 *	TEST IF PROC IN STACK		
				1682 *			
				1683 *	TRANSFERS 'BEGIN' TO OUTPUT AND STACK		
				1684 *	SETS OPIN, OPIN+4, LAPIN, BEGBIT		
				1685 *	BEGBIT IS USED TO DISTINGUISH BETWEEN COMPOUND BEGIN		
				1686 *	AND BLOCK BEGIN. IF A DECLARATION IS FOUND WHEN THE		
				1687 *	BEGBIT IS ON IT'S A BLOCK BEGIN THE BEGBIT IS TURNED OF		
				1688 *	BY THE STATEMENT PROGRAM AND THE BEG1 PROGRAM		
				1689 *			
000D3A	58F0 DCD8		00CD8	1690	BEGIN	L R15,SP	
000D3E	950C F000		00000	1691	CLI	0(R15),X'0C'	PROC IN STACK ?
000D42	4780 5D8E		00D8E	1692	BE	BEGPROC	YES, BRANCH TO PROC PROCESSING
000D46	4100 3004		00004	1693	LA	R0,4(,R3)	
000D4A	45C0 5982		00982	1694	BAL	R12,C0BSPEC	CHECK IF ENOUGH SPACE IN O/P
000D4E	920C 3000		00000	1695	MVI	0(R3),X'0C'	TRANSFER BEGIN TO O/P
000D52	920C BDB2		02DB2	1696	MVI	OPINCHAR,X'0C'	SET LABELSAVE
000D56	5030 DD88		00D88	1697	ST	R3,OPIN	NOTE ITS POSITION IN OPIN AND
000D5A	D200 DD8C DD85 00D8C	00D85	00D85	1698	MVC	OPIN+4(1),ONC	THE NUMBER OF THE OUTPUT BUFFER
000D60	4130 3001		00001	1699	LA	R3,1(,R3)	INCREASE OUTPUT POINTER
000D64	5030 DD58		00D58	1700	ST	R3,LAPIN	NOTE WHERE LABEL MAY START
000D68	9680 DD8E		00D8E	1701	OI	BITS1,X'80'	BEGBIT.= 1
000D6C	41F0 F001		00001	1702	LA	R15,1(,R15)	INCR STACK POINTER
000D70	59F0 DD48		00D48	1703	C	R15,ATOPSTAK	
000D74	4740 5D7E		00D7E	1704	BL	BEGINAA	
000D78	4560 5724		00724	1705	BAL	R6,ERR4	STACK OVERFLOW
				1706 *			
000D7C	0414			1707	DC	X'0414'	E20
				1708 *			
000D7E	9208 F000		00000	1709	BEGINAA	MVI 0(R15),X'08'	PUT BEGIN IN STACK
000D82	50F0 DCD8		00CD8	1710	ST	R15,SP	
000D86	4110 1001		00001	1711	BEGINAB	LA R1,1(,R1)	
000D8A	47F0 5174		00174	1712	B	TESTLOOP	
				1713 *			
				1714 *	BEGPROC		
				1715 *			
				1716 *	PROCEDURE - SPECIFICATIONS - BEGIN HAS BEEN FOUND		
				1717 *			
				1718 *	PROC BODY IS TO COME. PROC IS CHANGED TO PROC*		
				1719 *	ITS CHECKED THAT ALL PARAMETERS HAVE BEEN SPECIFIED		
				1720 *	THE RETURN IS TO TEST VIA THE BEGIN PROGRAM		
				1721 *			
000D8E	9210 F000		00000	1722	BEGPROC	MVI 0(R15),X'10'	CONVERT PROC INTO PROC*
000D92	94BF DD8E		00D8E	1723	NI	BITS1,X'BF'	PROBIT=0
000D96	9500 DD8D		00D8D	1724	CLI	PZ,0	ALL PARAMETERS SPECIFIED ?
000D9A	4780 5D86		00D86	1725	BE	BEGINAB	YES

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
000D9E	45C0 57CE		007CE	1726	BAL	R12,ERROR10	NO, GENERATE E11 01698001
000DA2	47F0 5D86		00D86	1727	B	BEGINAB	01699001
				1728	*		01700001
				1729	*	FIRSTBEG	01701001
				1730	*		01702001
				1731	*	THE FIRST BEGIN IS CONSIDERED AS A BLOCK BEGIN	01703001
				1732	*	THE START BIT IS TURNED OFF	01704001
				1733	*	THE BEG1 PROGRAM IS JOINED	01705001
				1734	*	IF PRECOMPILED PROCEDURE HAS BEEN SPECIFID E42 IS GIVEN	01706001
				1735	*	AS A WARNING AND THE BEGIN IS DISREGARDED	01707001
				1736	*		01708001
000DA6	9104 D080	00080	1737	FIRSTBEG	TM	COMPFLGS,PROC	PRECOMPILED PROCEDURE ? 01709001
000DAA	4780 5DBC	00DBC	1738		BZ	FIRSTB01	NO, BRANCH 01710001
000DAE	4560 578A	0078A	1739		BAL	R6,ERR7	YES, GIVE WARNING MESSAGE 01711001
			1740	*			01712001
000DB2	042A		1741		DC	X'042A'	01713001
			1742	*			01714001
000DB4	4110 1001	00001	1743		LA	R1,1(,R1)	DISREGARD THE BEGIN 01715001
000DB8	47F0 5174	00174	1744		B	TESTLOOP	01716001
			1745	*			01717001
000DBC	9620 DD8F	00D8F	1746	FIRSTB01	OI	BITS2,X'20'	NO, TURN STARTBIT OFF 01718001
000DD0	4190 5174	00174	1747		LA	R9,TESTLOOP	MAKE RETURN FROM BEGI BE TEST 01719001
000DC4	4110 1001	00001	1748		LA	R1,1(,R1)	01720001
000DC8	47F0 5DDA	00DDA	1749		B	BEG1FRST	FIRST BEGIN = BLOCK BEGIN 01721001
			1750	*			01722001
			1751	*		BEGI	01723001
			1752	*			01724001
			1753	*		BLOCK BEGIN PROGRAM	01725001
			1754	*			01726001
			1755	*		CHANGES BEGIN TO BETA IN STACK AND OUTPUT	01727001
			1756	*		INCREASES ITAB GROUP NUMBER AND PROGRAM BLOCK NUMBER	01728001
			1757	*		ENTRIES ARE MADE IN -	01729001
			1758	*		GROUPTABEL	01730001
			1759	*		SURROUNDING BLOCKS IG. NR	01731001
			1760	*		PBTAB1	01732001
			1761	*		SURROUNDING PBN	01733001
			1762	*		SCTAB - CURRENTSC COUNTER	01734001
			1763	*		ITAB	01735001
			1764	*		ADDRS OF SURROUNDING BLOCK AND IG HEAD ENTRIES, NEW	01736001
			1765	*		PBN AND IGN	01737001
			1766	*		LPBP (ADDR OF CURRENT PROGRAM BLOCK HEAD ENTRY)	01738001
			1767	*		AND	01739001
			1768	*		LIGP (ADDR OF CURRENT ITAB GROUP HEAD ENTRY)	01740001
			1769	*		ARE UPDATED	01741001
			1770	*		PUTS BETA + NEW PBN AND IGN TO OUTPUT REC.	01742001
			1771	*			01743001
000DCC	0630		1772	BEG1	BCTR	R3,0	01744001
000DCE	947F DD8E	00D8E	1773		NI	BITS1,BEGOFF	BEGBIT 0 01745001
000DD2	950C 3000	00000	1774		CLI	0(R3),X'0C'	BEGIN IN O/P ? 01746001
000DD6	4770 581E	0081E	1775		BNE	ERROR21	NO, DECLARATION INCORRECT PLACE 01747001
000DDA	920D 3000	00000	1776	BEG1FRST	MVI	0(R3),X'0D'	MOVE BETA TO O/P 01748001
000DDE	58F0 DC08	00CD8	1777		L	R15,SP	AND 01749001
000DE2	9204 F000	00000	1778		MVI	0(R15),X'04'	STACK 01750001
000DE6	1B66		1779		SR	R6,R6	01751001
000DE8	4860 DD4C	00D4C	1780		LH	R6,IGC	01752001
000DEC	4160 6001	00001	1781		LA	R6,1(,R6)	INCREASE ITAB GROUP NUMBER 01753001
000DF0	4060 DD4C	00D4C	1782		STH	R6,IGC	01754001
000DF4	1A66		1783		AR	R6,R6	ENTRY IS TO GO INTO 01755001
000DF6	4A60 DD4C	00D4C	1784		AH	R6,IGC	A(GT)+3*(IGC) 01756001
000DF8	5A60 DD50	00D50	1785		A	R6,AGT	01757001
000DFE	5870 DD6C	00D6C	1786		L	R7,LIGP	01758001
000E02	D201 6000	7008 00000	1787		MVC	0(2,R6),8(R7)	ENTRY INTO GROUPTABLE 01759001
000E08	9200 6002	00002	1788		MVI	2(R6),0	01760001
000E0C	947F 6000	00000	1789		NI	0(R6),X'7F'	CLEAR POSSIBLE PHI IND 01761001
000E10	95FF DD84	00D84	1790		CLI	PBC,255	MORE THAN 255 BLOCKS ? 01762001
000E14	4770 5E1E	00E1E	1791		BNE	BEG1FAAA	01763001
000E18	4560 5724	00724	1792		BAL	R6,ERR4	01764001
			1793	*			01765001
000E1C	0416		1794		DC	X'0416'	E22 01766001
			1795	*			01767001
000E1E	4320 DD84	00D84	1796	BEG1FAAA	IC	R2,PBC	01768001
000E22	4120 2001	00001	1797		LA	R2,1(,R2)	INCR PROGRAM BLOCK NUMBER 01769001
000E26	4220 DD84	00D84	1798		STC	R2,PBC	01770001
000E2A	5870 DD70	00D70	1799		L	R7,LPBP	01771001
000E2E	4160 D478	00478	1800		LA	R6,PBTAB1	01772001
000E32	1A62		1801		AR	R6,R2	01773001
000E34	D200 6000	700A 00000	1802		MVC	0(1,R6),10(R7)	ENTRY INTO PROGRAM BLOCK TABLE 01774001
000E3A	4220 3001	00001	1803		STC	R2,1(,R3)	TRANSFER PBN TO O/P 01775001
000E3E	1A22		1804		AR	R2,R2	MAKE ENTRY OF CURRENT 01776001
000E40	4162 8126	01126	1805		LA	R6,SCTAB(R2)	SEMCNT COUNTER IN SCTAB 01777001
000E44	D201 6000	D09C 00000	1806		MVC	0(2,R6),SEMCNT	01778001
000E4A	D201 3002	DD4C 00002	1807		MVC	2(2,R3),IGC	IGN IN OUTPUT BUFFER 01779001
000E50	4130 3004	00004	1808		LA	R3,4(,R3)	01780001
000E54	5030 DD58	00D58	1809		ST	R3,LAPIN	SET LABEL POINTERS 01781001
000E58	58F0 DD68	00D68	1810		L	R15,AITL	MAKE BLOCK HEAD IN ITAB 01782001
000E5C	D203 F000	DD6C 00000	1811		MVC	0(4,R15),LIGP	01783001
000E62	D203 F004	DD70 00004	1812		MVC	4(4,R15),LPBP	01784001
000E68	D201 F008	DD4C 00008	1813		MVC	8(2,R15),IGC	01785001
000E6E	D200 F00A	DD84 0000A	1814		MVC	10(1,R15),PBC	01786001
000E74	50F0 DD70	00D70	1815		ST	R15,LPBP	UPDATE LIGP AND LPBP 01787001
000E78	50F0 DD6C	00D6C	1816		ST	R15,LIGP	01788001
000E7C	45C0 595A	0095A	1817		BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY 01789001
000E80	07F9		1818		BR	R9	01790001
			1819	*			01791001
			1820	*		END	01792001
			1821	*			01793001

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				1822 *		ACTION DEPENDS ON WHAT IS IN THE STACK	01794001
				1823 *			01795001
				1824 *		URNS IN ALL CASES OFF THE DELTABIT AND THE END ELSE	01796001
				1825 *		BIT	01797001
				1826 *		GENERAL RETURN POINT IS CSPEND IF RETURN ADDR, IN	01798001
				1827 *		R4, IS NOT CHANGED	01799001
				1828 *		FINAL RETURN IS TO TEST VIA SEMCO OR COMMENT PROGRAM	01800001
				1829 *		PROC** IN STACK ACTIVATES PBLOCKEND AND RETURNS TO END	01801001
				1830 *		TO INSPECT THE STACK AGAIN	01802001
				1831 *			01803001
000E82	94DF DD8E	00D8E		1832 END	NI	BITS1,X'DF' DELTABIT.=0	01804001
000E86	9180 DD8F	00D8F		1833	TM	BITS2,ENDBIT	01805001
000E8A	4710 57C4		007C4	1834	BO	ERR9	01806001
000E8E	94FE DD8F		00D8F	1835	NI	BITS2,X'FE'	01807001
000E92	4140 5E92		00E92	1836 CSPEND	LA	R4,*	01808001
000E96	58F0 DCD8		00CD8	1837	L	R15,SP	01809001
000E9A	4320 F000		00000	1838	IC	R2,0(,R15)	01810001
000E9E	5862 5EA4		00EA4	1839	L	R6,PROG1(R2)	01811001
000EA2	07F6			1840	BR	R6	01812001
				1841 *			01813001
000EA4	0000079A			1842 PROG1	DC	A(ERR8)	01814001
000EA8	00000F42			1843	DC	A(BLOCKEND)	01815001
000EAC	00000EE0			1844	DC	A(COMPEND)	01816001
000EB0	00000ECC			1845	DC	A(PREND)	01817001
000EB4	00000EC0			1846	DC	A(STAREND)	01818001
000EB8	00000FB8			1847	DC	A(PBLCKEND)	01819001
000EBC	00000F4A			1848	DC	A(FOREND)	01820001
				1849 *			01821001
				1850 *		STAREND	01822001
				1851 *			01823001
				1852 *		PROC* HAS ENDED	01824001
				1853 *			01825001
				1854 *		ACTIVATES THE PBLOCK END PROGRAM AND RETURNS AFTERWARDS	01826001
				1855 *		TO TEST VIA COMMENT PROGRAM	01827001
				1856 *			01828001
000EC0	9620 DD8E	00D8E		1857 STAREND	OI	BITS1,X'20'	01829001
000EC4	4140 8330		01330	1858	LA	R4,COMMENT	01830001
				1859 *			01831001
000EC8	47F0 5FB8		00FB8	1860	B	PBLCKEND	01832001
				1861 *			01833001
				1862 *		PREND	01834001
				1863 *		PROC HAS ENDED	01835001
				1864 *			01836001
				1865 *		CHECKS IF ALL PARAMETERS SPECIFIED.	01837001
				1866 *		URNS OFF THE PROBIT.	01838001
				1867 *		A PROC THAT ENDS WITH 'END' IS NOT CORRECTED, THEREFORE	01839001
				1868 *		THE STACK IS AGAIN INSPECTED AFTER THE PBLOCKEND PROGRAM	01840001
				1869 *		HAS BEEN ACTIVATED	01841001
				1870 *			01842001
000ECC	94BF DD8E	00D8E		1871 PREND	NI	BITS1,X'BF'	01843001
000ED0	9500 DD8D	00D8D		1872	CLI	PZ,0	01844001
000ED4	4780 5FB8		00FB8	1873	BE	PBLCKEND	01845001
000ED8	45C0 57CE		007CE	1874	BAL	R12,ERROR10	01846001
000EDC	47F0 5FB8		00FB8	1875	B	PBLCKEND	01847001
				1876 *			01848001
				1877 *		COMPEND	01849001
				1878 *			01850001
				1879 *		A COMPOUND STATMENT HAS ENDED	01851001
				1880 *			01852001
				1881 *		TRANSFERS END '2C' TO OUTPUT AND RELEASES BEGIN IN	01853001
				1882 *		STACK.	01854001
				1883 *		THEN IT CHECKS IF THE END OF THIS COMPOUND STATEMENT	01855001
				1884 *		INDICATES THE END OF ANY FOR STATMENT(S) OR PROC**.	01856001
				1885 *		THIS IS DONE WITH BITS2 X'01' AND THE COMMENT PROGRAM.	01857001
				1886 *		IF THE END IS FOLLOWED BY A ., OR 'END' THE STACK IS	01858001
				1887 *		INSPECTED AGAIN.	01859001
				1888 *		IF THE END IS FOLLOWED BY AN 'ELSE' THE COMPOUND	01860001
				1889 *		STATMENT ITSELF IS ALL THAT HAS ENDED AT THIS POINT.	01861001
				1890 *			01862001
000EE0	45C0 598C		0098C	1891 COMPEND	BAL	R12,COB	01863001
000EE4	922C 3000		00000	1892	MVI	0(R3),XFEND	01864001
000EE8	4130 3001		00001	1893	LA	R3,1(,R3)	01865001
000EEC	58F0 DCD8		00CD8	1894	L	R15,SP	01866001
000EF0	06F0			1895	BCTR	R15,0	01867001
000EF2	50F0 DCD8		00CD8	1896	ST	R15,SP	01868001
000EF6	9500 F000		00000	1897 COMPENDI	CLI	0(R15),X'00'	01869001
000EFA	4780 8108		01108	1898	BE	PGMEND	01870001
000EFE	9514 F000		00000	1899	CLI	0(R15),X'14'	01871001
000F02	4740 8330		01330	1900	BL	COMMENT	01872001
				1901 *			01873001
				1902 *			01874001
000F06	9601 DD8F	00D8F		1903	OI	BITS2,X'01'	01875001
000F0A	47F0 8330		01330	1904	B	COMMENT	01876001
				1905 *			01877001
000F0E	94FE DD8F	00D8F		1906 COMPEND2	NI	BITS2,X'FE'	01878001
000F12	58F0 DCD8		00CD8	1907	L	R15,SP	01879001
000F16	9514 F000		00000	1908	CLI	0(R15),X'14'	01880001
000F1A	4780 5F26		00F26	1909	BE	COMPEND3	01881001
000F1E	4140 5F32		00F32	1910	LA	R4,COMPEND4	01882001
000F22	47F0 5FAA		00F4A	1911	B	FOREND	01883001
				1912 *			01884001
000F26	9620 DD8E	00D8E		1913 COMPEND3	OI	BITS1,X'20'	01885001
000F2A	4140 55D4		005D4	1914	LA	R4,SEMCO	01886001
000F2E	47F0 5FB8		00FB8	1915	B	PBLCKEND	01887001
				1916 *			01888001
000F32	9514 F000	00000		1917 COMPEND4	CLI	0(R15),X'14'	01889001

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000F36	4780 5F26		00F26	1918	BE	COMPEND3	PROC** 01890001
000F3A	4720 5F4A		00F4A	1919	BH	FOREND	FOR 01891001
000F3E	47F0 55D4		005D4	1920	B	SEMCO	SOMETHING ELSE 01892001
				1921 *			01893001
				1922 *		BLOCKEND	01894001
				1923 *			01895001
				1924 *		A BETA BLOCK HAS ENDED	01896001
				1925 *			01897001
				1926 *		THE RETURN AFTER THE PBLOCKEND PROGRAM IS TO THE	01898001
				1927 *		COMPENDI TO CHECK IF SOME MORE ITAB GROUP SHOULD END AT	01899001
				1928 *		THIS POINT	01900001
				1929 *			01901001
000F42	4540 5FB8		00FB8	1930	BLOCKEND	BAL R4,PBLCKEND	EXECUTE PROGRAM BLOCKEND 01902001
000F46	47F0 5EF6		00EF6	1931	B	COMPENDI	01903001
				1932 *			01904001
				1933 *		FOREND	01905001
				1934 *			01906001
				1935 *		CORRECTS THE LIGP POINTER	01907001
				1936 *			01908001
				1937 *		INSERTS A CONTINUATION LINE IN ITAB IF THE FORSTAMENT	01909001
				1938 *		CONTAINED ANY LABEL.	01910001
				1939 *		IF THE FORSTAMENT DID NOT CONTAIN ANY DEKLARATIONS THE	01911001
				1940 *		PREVIOUSC CREATED FOR HEADENTRY IS ERASED.	01912001
				1941 *		IF ONE CONTINUATION LINE IS CREATED, FOLLOWING	01913001
				1942 *		ENCLOSING FORSTATEMENTS WILL OVERLAY THE FIRST	01914001
				1943 *		CONTINUATION LINE, IF LABELS OR NOT ETA AND SURROVNDING	01915001
				1944 *		ITABGROUPS IG NR. IS MOVED TO THE OUTPUT	01916001
				1945 *		FOR IS RELEASED IN THE STACK	01917001
				1946 *			01918001
				1947 *		ENTERED FROM SEMCO, END	01919001
				1948 *		EXITS TO END, COMPEND4, STACKTST (IN SEMCO)	01920001
				1949 *			01921001
000F4A	5860 DD6C		00D6C	1950	FOREND	L R6,LIGP	01922001
000F4E	D203 DD6C	6000	00D6C	1951	MVC	LIGP(4),0(R6)	GET PREVIOUS LIGP HEAD 01923001
000F54	58F0 DD68		00D68	1952	L	R15,AITL	CURRENT ENTRY 01924001
000F58	5BF0 BD38		02D38	1953	S	R15,KF11	MINUS ELEVEN 01925001
000F5C	91FF F006		00006	1954	TM	6(R15),X'FF'	CONTINUATION LINE NEEDED ? 01926001
000F60	4780 5F8A		00F8A	1955	BZ	EMPTYFOR	NO 01927001
000F64	4710 5F6C		00F6C	1956	BO	FORENDAA	OVERLAY PREVIOUS CONT LINE 01928001
000F68	41F0 F00B		0000B	1957	LA	R15,11(,R15)	CREATE NEW CONT LINE 01929001
000F6C	5860 DD6C		00D6C	1958	FORENDAA	L R6,LIGP	01930001
000F70	D201 F008	6008	00008	1959	MVC	8(2,R15),8(R6)	COPY IG NUMBER 01931001
000F76	92FF F006		00006	1960	MVI	6(R15),X'FF'	CONTINUATION LINE INDICATOR 01932001
000F7A	947F F008		00008	1961	NI	8(R15),X'7F'	CLEAR POSSIBLE PHI INDICATOR 01933001
000F7E	922B F005		00005	1962	MVI	5(R15),XFBLANK	01934001
000F82	45C0 595E		0095E	1963	BAL	R12,ITABCLEA+4	CLEAR NEXT ENTRY 01935001
000F86	47F0 5F8E		00F8E	1964	B	EMPTYFAA	01936001
				1965 *			01937001
000F8A	45C0 5962		00962	1966	EMPTYFOR	BAL R12,ITABCLEC	CLEAR FORHEAD FOR EMPTY FORGROUP 01938001
000F8E	4100 3003		00003	1967	EMPTYFAA	LA R0,3(,R3)	01939001
000F92	45C0 5982		00982	1968	BAL	R12,C0BSPEC	CHECK IF ENOUGH SPACE IN O/P 01940001
000F96	922B 3000		00000	1969	MVI	0(R3),XFBLANK	INSERT ETA 01941001
000F9A	5860 DD6C		00D6C	1970	L	R6,LIGP	01942001
000F9E	D201 3001	6008	00001	1971	MVC	1(2,R3),8(R6)	AND CURRENT IGN IN OUTPUT BUFFER 01943001
000FA4	947F 3001		00001	1972	NI	1(R3),X'7F'	CLEAR EVENTUALLY PHI 01944001
000FA8	4130 3003		00003	1973	LA	R3,3(,R3)	01945001
000FAC	58F0 DCD8		00CD8	1974	L	R15,SP	RELEASE FOR IN STACK 01946001
000FB0	06F0			1975	BCTR	R15,0	01947001
000FB2	50F0 DCD8		00CD8	1976	ST	R15,SP	01948001
000FB6	07F4			1977	BR	R4	RETURN 01949001
				1978 *			01950001
				1979 *		PBLCKEND	01951001
				1980 *			01952001
				1981 *		ERASES EMPTY CONTINUATION LINES	01953001
				1982 *		WRITES OUT THE PROGRAM BLOCK TO SYSUT3	01954001
				1983 *		LENGTH IS CALCULATED AND SAVED IN ITABEN AND STORED IN	01955001
				1984 *		THE FIRST TWO BYTES OF THE ITAB RECORD	01956001
				1985 *		SEMCNT IS PICKED UP FROM SCTAB AND ENTERED IN BYTES 6+7	01957001
				1986 *		THE BLOCK IS MOVED TO THE ITAB BUFFER WHERE IT	01958001
				1987 *		IS WRITTEN OUT	01959001
				1988 *		THE SURROUNDING BLOCKS NEW DECLARATIONS WILL BE	01960001
				1989 *		OVERLAYING THE OUTWRITTEN RECORD	01961001
				1990 *		AITL WILL POINT TO THE HEADENTRY'S PLACE OF THE BLOCK	01962001
				1991 *		WHICH NOW WAS WRITTEN OUT	01963001
				1992 *		LPBP TO THE SURROUNDING BLOCKS HEADENTRY	01964001
				1993 *		LIGP TO THE SURROUNDING ITABGROUPS HEADENTRY	01965001
				1994 *		AITL, LPBP AND LIGP WILL BE MODIFIED ACCORDINLY	01966001
				1995 *		EPSILON, THE SURROUNDING BLOCKS PBN AND IGN WILL BE PUT	01967001
				1996 *		TO THE OUTPUT	01968001
				1997 *		THE BLOCK INDICATOR IN THE STACK WILL BE RELEASED IF	01969001
				1998 *		STACK NOW IS EMPTY - ALPHA IN STACK - PGMENT WILL SET	01970001
				1999 *		THE END BIT AND CHANGE END OF DATA EXIT TO EODADIN. THIS	01971001
				2000 *		WILL CAUSE THE COMMENT PROGRAM TO CHECK FOR AN CORRECT	01972001
				2001 *		ENDCOMMENT BUT NOTHING MORE IS TO BE PROCESSED.	01973001
				2002 *		FOR PROGRAM BLOCK 0, IF ANY, THE BLOCK WILL ONLY BE	01974001
				2003 *		WRITTEN OUT AND NO FURTHER ACTIONS TAKEN.	01975001
				2004 *			01976001
				2005 *		ENTERED FROM END (BETA, PROC*), SEMCO (PROC, PROC**)	01977001
				2006 *			01978001
				2007 *		EXITS TO COMMEND (NORMAL), COMPEND4 (PROC OR PROC**	01979001
				2008 *		FOLLOWED BY END), TERMINATION (NOPBN0)	01980001
				2009 *			01981001
000FB8	58F0 DD68		00D68	2010	PBLCKEND	L R15,AITL	01982001
000FBC	5BF0 BD38		02D38	2011	PBLCKEAA	S R15,KF11	SUBTRACT 11 TO EARSE 01983001
000FC0	9500 F006		00006	2012	CLI	6(R15),0	EMPTY 01984001
000FC4	4780 5FBC		00FBC	2013	BE	PBLCKEAA	CONTINUATION 01985001



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000FC8	41F0 F00B		0000B	2014	LA	R15,11(,R15)	01986001
000FCC	5BF0 DD70		00D70	2015	WRTITAB S	R15,LPBP	01987001
000FD0	50F0 DD78		00D78	2016	ST	R15,ITABLEN	01988001
000FD4	59F0 BD50		02D50	2017	C	R15,KF2000	01989001
000FD8	4740 5FE2		00FE2	2018	BL	WRTITABA	01990001
000FDC	4560 5724		00724	2019	BAL	R6,ERR4	01991001
				2020	*		01992001
000FE0	0426			2021	DC	X'0426'	01993001
				2022	*		01994001
000FE2	D203 DD68	DD70	00D68	2023	WRTITABA MVC	AITL(4),LPBP	01995001
000FE8	5860 DD70		00D70	2024	L	R6,LPBP	01996001
000FEC	D203 DD6C	6000	00D6C	2025	MVC	LIGP(4),0(R6)	01997001
000FF2	D203 DD70	6004	00D70	2026	MVC	LPBP(4),4(R6)	01998001
000FF8	D201 6000	DD7A	00000	2027	MVC	0(2,R6),ITABLEN+2	01999001
000FFE	922B 6005		00005	2028	MVI	5(R6),XFBLANK	02000001
001002	90E3 BDC8		02DC8	2029	STM	R14,R3,SAVE1	02001001
001006	1B22			2030	SR	R2,R2	02002001
001008	4320 600A		0000A	2031	IC	R2,10(,R6)	02003001
00100C	1A22			2032	AR	R2,R2	02004001
00100E	4172 8126		01126	2033	LA	R7,SCTAB(R2)	02005001
001012	D201 6006	7000	00006	2034	MVC	6(2,R6),0(R7)	02006001
001018	9108 DD8F		00D8F	2035	TM	BITS2,X'08'	02007001
00101C	4780 8028		01028	2036	BZ	WRTITABB	02008001
001020	9200 6006		00006	2037	MVI	6(R6),0	02009001
001024	9200 6007		00007	2038	MVI	7(R6),0	02010001
001028	9110 DD90		00D90	2039	WRTITABB TM	BITS3,FRSITB	02011001
00102C	4780 8118		01118	2040	BZ	WRT1	02012001
001030	90EF BD74		02D74	2041	STM	R14,R15,ERRSAVE	02013001
				2042	*		02014001
				2043	CHECK	ITABC	02015001
001034	4110 8084		01084	2044+	LA	1,ITABC	02-IHBN
001038	58E0 1008		00008	2045+	L	14,8(0,1)	PICK UP DCB ADDR
00103C	58F0 E034		00034	2046+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
001040	05EF			2047+	BALR	14,15	LINK TO CHECK ROUTINE
				2048	*		02016001
001042	98EF BD74		02D74	2049	LM	R14,R15,ERRSAVE	02017001
001046	5870 DCC4		00CC4	2050	WRT L	R7,AITABBUF	02018001
00104A	59F0 BD68		02D68	2051	COMPARE1 C	R15,KF256	02019001
00104E	4740 806C		0106C	2052	BL	EXMVC1	02020001
001052	D2FF 7000	6000	00000	2053	COMPARE2 MVC	0(256,R7),0(R6)	02021001
001058	4160 6100		00100	2054	LA	R6,256(,R6)	02022001
00105C	4170 7100		00100	2055	LA	R7,256(,R7)	02023001
001060	58F0 BD68		02D68	2056	S	R15,KF256	02024001
001064	59F0 BD68		02D68	2057	C	R15,KF256	02025001
001068	4720 8052		01052	2058	BH	COMPARE2	02026001
00106C	44F0 8120		01120	2059	EXMVC1 EX	R15,MOVE4	02027001
001070	413F 7000		00000	2060	LA	R3,0(R15,R7)	02028001
001074	5870 DCC4		00CC4	2061	L	R7,AITABBUF	02029001
001078	58F0 D06C		0006C	2062	L	R15,AUT3DCB	02030001
00107C	58E0 DD78		00D78	2063	L	R14,ITABLEN	02031001
				2064	*		02032001
				2065	WRITE	ITABC,SF,(R15),(R7),(R14)	02033001
001080				2066+	CNOP	0,4	02-IHBRD
001080	4510 8098		01098	2067+	BAL	1,*+24	02-IHBRD
001084	00000000			2068+	ITABC DC	F'0'	02-IHBRD
001088	00			2069+	DC	X'00'	02-IHBRD
001089	20			2070+	DC	X'20'	02-IHBRD
00108A	0000			2071+	DC	AL2(0)	02-IHBRD
00108C	00000000			2072+	DC	A(0)	02-IHBRD
001090	00000000			2073+	DC	A(0)	02-IHBRD
001094	00000000			2074+	DC	A(0)	02-IHBRD
001098	50F1 0008		00008	2075+	ST	R15,8(1,0)	02-IHBRD
00109C	5071 000C		0000C	2076+	ST	R7,12(1,0)	02-IHBRD
0010A0	40E1 0006		00006	2077+	STH	R14,6(1,0)	02-IHBRD
0010A4	58F1 0008		00008	2078+	L	15,8(1,0)	02-IHBRD
0010A8	58F0 F030		00030	2079+	L	15,48(0,15)	02-IHBRD
0010AC	05EF			2080+	BALR	14,15	02-IHBRD
				2081	*		02034001
0010AE	98E3 BDC8		02DC8	2082	LM	R14,R3,SAVE1	02035001
0010B2	9108 DD8F		00D8F	2083	TM	BITS2,X'08'	02036001
0010B6	0714			2084	BOR	R4	02037001
0010B8	5860 DD68		00D68	2085	L	R6,AITL	02038001
0010BC	9200 6000		00000	2086	MVI	0(R6),0	02039001
0010C0	D209 6001	6000	00001	2087	MVC	1(10,R6),0(R6)	02040001
0010C6	4100 3004		00004	2088	LA	R0,4(,R3)	02041001
0010CA	45C0 5982		00982	2089	BAL	R12,COBSPEC	02042001
0010CE	922A 3000		00000	2090	MVI	0(R3),X'2A'	02043001
0010D2	5860 DD70		00D70	2091	L	R6,LPBP	02044001
0010D6	D200 3001	600A	00001	2092	MVC	1(1,R3),10(R6)	02045001
0010DC	5860 DD6C		00D6C	2093	L	R6,LIGP	02046001
0010E0	D201 3002	6008	00002	2094	MVC	2(2,R3),8(R6)	02047001
0010E6	947F 3002		00002	2095	NI	2(R3),X'7F'	02048001
0010EA	4130 3004		00004	2096	LA	R3,4(,R3)	02049001
0010EE	58F0 DCD8		00CD8	2097	L	R15,SP	02050001
0010F2	06F0			2098	BCTR	R15,0	02051001
0010F4	50F0 DCD8		00CD8	2099	ST	R15,SP	02052001
0010F8	9101 DD8E		00D8E	2100	TM	BITS1,X'01'	02053001
0010FC	0714			2101	BOR	R4	02054001
0010FE	9500 F000		00000	2102	CLI	0(R15),0	02055001
001102	4780 8108		01108	2103	BE	PGMEND	02056001
001106	07F4			2104	BR	R4	02057001
				2105	*		02058001
001108	9680 DD8F		00D8F	2106	PGMEND OI	BITS2,ENDBIT	02059001
00110C	41C0 B3B2		023B2	2107	LA	R12,EODADIN	02060001
001110	50C0 D07C		0007C	2108	ST	R12,EODIN	02061001
001114	47F0 8330		01330	2109	B	COMMENT	02062001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				2110 *			02063001
001118	9610 DD90	00D90		2111 WRT1	OI	BITS3,FRSITB	02064001
00111C	47F0 8046		01046	2112	B	WRT	02065001
				2113 *			02066001
001120	D200 7000 6000 00000	00000	00000	2114 MOVE4	MVC	0(1,R7),0(R6)	02067001
				2115 *			02068001
001126	0000000000000000			2116 SCTAB	DC	XL256'00'	02069001
001226	0000000000000000			2117	DC	XL254'00'	02070001
				2118 *			02071001
				2119 *		COMMENT	02072001
				2120 *			02073001
				2121 *		THREE ENTRIES -	02074001
				2122 *		1. COM FOR THE ALGOL WORD COMMENT	02075001
				2123 *		SETS CODIT=1, CHECKS THAT COMMENT IS IN A LEGAL	02076001
				2124 *		POSITION	02077001
				2125 *		2. COMERR FOR ERRORS IN DECLARATIONS	02078001
				2126 *		ALL CHARACTERS TO NEXT SEMICOLON WILL BE SKIPPED	02079001
				2127 *		SET COBIT AND DELTABIT = 1	02080001
				2128 *		3. COMMEND ENTERED AFTER AN END IS FOUND	02081001
				2129 *		SKIPS ALL CHARACTERS TO NEXT ; OR END OR ELSE SETS	02082001
				2130 *		THE COBIT = 0	02083001
				2131 *			02084001
001324	9640 DD8F	00D8F		2132 COMERR	OI	BITS2,X'40'	02085001
001328	9620 DD8E	00D8E		2133	OI	BITS1,X'20'	02086001
00132C	47F0 8370		01370	2134	B	COMCEE2	02087001
				2135 *			02088001
001330	948F DD8F	00D8F		2136 COMMEND	NI	BITS2,X'BF'	02089001
001334	47F0 836C		0136C	2137	B	COMCED2	02090001
				2138 *			02091001
001338	9640 DD8F	00D8F		2139 COM	OI	BITS2,X'40'	02092001
00133C	1843			2140	LR	R4, R3	02093001
00133E	0640			2141	BCTR	R4, 0	02094001
001340	950C 4000	00000		2142	CLI	0(R4),X'0C'	02095001
001344	4780 836C		0136C	2143	BE	COMCED2	02096001
001348	0640			2144	BCTR	R4, 0	02097001
00134A	0640			2145	BCTR	R4, 0	02098001
00134C	950B 4000	00000		2146	CLI	0(R4),X'0B'	02099001
001350	4780 836C		0136C	2147	BE	COMCED2	02100001
001354	9529 4000	00000		2148	CLI	0(R4),XFDelta	02101001
001358	4780 836C		0136C	2149	BE	COMCED2	02102001
00135C	0640			2150	BCTR	R4, 0	02103001
00135E	950D 4000	00000		2151	CLI	0(R4),X'0D'	02104001
001362	4780 836C		0136C	2152	BE	COMCED2	02105001
001366	4560 578A		0078A	2153	BAL	R6, ERR7	02106001
				2154 *			02107001
00136A	0412			2155	DC	X'0412'	02108001
				2156 *			02109001
00136C	4110 1001	00001		2157 COMCED2	LA	R1,1(,R1)	02110001
001370	0590			2158 COMCEE2	BALR	R9, 0	02111001
001372	1B22			2159	SR	R2, R2	02112001
001374	DD48 1000 BB30 00000	02B30	00000	2160	TRT	0(73,R1),COMTABLE	02113001
00137A	4142 9000	00000	00000	2161	LA	R4,0(R2,R9)	02114001
00137E	07F4			2162	BR	R4	02115001
				2163 *			02116001
				2164		*****	02117001
				2165 *			02118001
				2166 *		ROUTINES COMAPOST, COMZETA, COMPOINT AND COMSEMC	02119001
				2167 *		ARE ADDRESSED AS OFFSETS FROM COMCEE2 VIA COMTABLE	02120001
				2168 *			02121001
				2169 *		COMAPOST	02122001
				2170 *			02123001
				2171 *		IF AN END COMMENT IS PROCESSED, COBIT= 0, CHECK IF	02124001
				2172 *		APOSTROPHE IS THE START OF END OR ELSE OTHERWISE RETURN	02125001
				2173 *		TO SCAN THE COMMENT AGAIN	02126001
				2174 *			02127001
001380	9140 DD8F	00D8F		2175 COMAPOST	TM	BITS2,X'40'	02128001
001384	4710 836C		0136C	2176	BO	COMCED2	02129001
001388	92FF DD81	00D81		2177	MVI	FBYTE,X'FF'	02130001
00138C	47F0 5304		00304	2178	B	ENTRAPR	02131001
				2179 *			02132001
001390	47F0 5A28		00A28	2180 COMZETA	B	CIB	02133001
				2181 *			02134001
				2182 *		COMPOINT	02135001
				2183 *			02136001
				2184 *		CHECK FOR SEMICOLON ., IF NOT RETURN	02137001
				2185 *			02138001
001394	4160 8370		01370	2186 COMPOINT	LA	R6,COMCEE2	02139001
001398	45C0 5912		00912	2187	BAL	R12,FINDSEMC	02140001
				2188 *			02141001
				2189 *		COMSEMC	02142001
				2190 *			02143001
				2191 *		ENELSE BIT ON -	02144001
				2192 *		END COMMENT AFTER BEGIN OR BETA ENDED WITH A ., MEANS	02145001
				2193 *		THAT THE END MIGHT ALSO CLOSE AN FOR STATEMENT OR A	02146001
				2194 *		PROCEDURE.	02147001
				2195 *		ENDBIT ON -	02148001
				2196 *		FINAL END HAS BEEN REACHED NOTHING IS TO FOLLOW THIS	02149001
				2197 *		COMMENT IN THE CORRECT CASE.	02150001
				2198 *		AN SEMICOLON AFTER AN COMMENT IS NOT TO BE COUNTED THAT	02151001
				2199 *		IS COBIT= 1 AND DELTABIT=0 RETURN TO TEST OTHERWISE	02152001
				2200 *		RETURN VIA SEMICOLON PROGRAM	02153001
				2201 *			02154001
00139C	9101 DD8F	00D8F		2202 COMSEMC	TM	BITS2,X'01'	02155001
0013A0	4710 5F0E		00F0E	2203	BO	COMPEND2	02156001
0013A4	9180 DD8F	00D8F		2204	TM	BITS2,ENDBIT	02157001
0013A8	4710 B376		02376	2205	BO	READROUT	02158001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0013AC	9140 DD8F	00D8F		2206	TM	BITS2,X'40'	COMMENT ?
0013B0	4780 55D4		005D4	2207	BZ	SEMC0	NO
0013B4	9120 DD8E	00D8E		2208	TM	BITS1,X'20'	DELIMITER ERROR ?
0013B8	4710 55D4		005D4	2209	BO	SEMC0	YES
0013BC	4110 1001		00001	2210	LA	R1,1(,R1)	FOR A COMMENT SKIP SEMICOLON
0013C0	47F0 5174		00174	2211	B	TESTLOOP	
				2212 *			
				2213		*****	
				2214 *			
				2215 *	FOR		
				2216 *			
				2217 *	INCREASES IG AND FSN NUMBER		
				2218 *	MAKES ENTRIES IN SCOPE AND GROUPTABE		
				2219 *	MOVES FOR (18) TO OUTPUT FOLLOWED BY NEW IG NUMBER		
				2220 *	CHECKS IF PROC IN STACK, IF YES PROC IS CHANGED TO		
				2221 *	PROC**		
				2222 *	PUTS FOR IN STACK		
				2223 *	AN FORHEAD ENTRY IS MADE IN ITAB		
				2224 *	THE RETURN IS TO TEST		
				2225 *			
0013C4	4100 3003		00003	2226	FOR	LA R0,3(,R3)	
0013C8	45C0 5982		00982	2227	BAL	R12,C0BSPEC	CHECK IF ENOUGH SPACE IN O/P
0013CC	48F0 DD4C		00D4C	2228	LH	R15,IGC	INCREASE ITAB GROUP NUMBER
0013D0	41F0 F001		00001	2229	LA	R15,1(,R15)	
0013D4	9218 3000	00000		2230	MVI	0(R3),XFFOR	MOVE 'FOR'
0013D8	40F0 DD4C		00D4C	2231	STH	R15,IGC	AND IGN
0013DC	D201 3001	DD4C 00001	00D4C	2232	MVC	1(2,R3),IGC	
0013E2	4130 3003		00003	2233	LA	R3,3(,R3)	TO OUTPUT BUFFER
0013E6	95FF DD82		00D82	2234	CLI	FSN,255	> 255 FOR STATEMENTS ?
0013EA	4770 83F4		013F4	2235	BNE	FORAA	
0013EE	4560 5724		00724	2236	BAL	R6,ERR4	
				2237 *			
0013F2	0429			2238	DC	X'0429'	E41
				2239 *			
0013F4	4320 DD82		00D82	2240	FORAA	IC R2,FSN	INCREASE FSN
0013F8	4120 2001		00001	2241	LA	R2,1(,R2)	
0013FC	4220 DD82		00D82	2242	STC	R2,FSN	
001400	41C0 D5CF		005CF	2243	LA	R12,SPTAB-1	
001404	1AC2			2244	AR	R12,R2	
001406	58F0 DD70		00D70	2245	L	R15,LPBP	
00140A	D200 C000	F00A 00000	0000A	2246	MVC	0(1,R12),10(R15)	MAKE ENTRY IN SCOUP TABLE
001410	947F DD8E		00D8E	2247	NI	BITS1,X'7F'	BEGBIT= 0
001414	58C0 DCD8		00CD8	2248	L	R12,SP	
001418	59C0 DD48		00D48	2249	C	R12,ATOPSTAK	STACK OVERFLOW ?
00141C	4740 8426		01426	2250	BL	FORBB	
001420	4560 5724		00724	2251	BAL	R6,ERR4	
				2252 *			
001424	0414			2253	DC	X'0414'	E20
				2254 *			
001426	950C C000		00000	2255	FORBB	CLI 0(R12),X'0C'	PROC IN STACK ?
00142A	4770 8442		01442	2256	BNE	NOPROCBY	NO
00142E	9214 C000		00000	2257	MVI	0(R12),X'14'	MAKE PROC BE PROC**
001432	948F DD8E		00D8E	2258	NI	BITS1,X'BF'	PROBIT=0
001436	9500 DD8D		00D8D	2259	CLI	PZ,0	ALL PARAMETERS SPECIFIED ?
00143A	4780 8442		01442	2260	BE	NOPROCBY	YES
00143E	45C0 57CE		007CE	2261	BAL	R12,ERROR10	NO, GENERATE E10
001442	58C0 DCD8		00CD8	2262	L	R12,SP	
001446	41C0 C001		00001	2263	LA	R12,1(,R12)	INCR STACK POINTER
00144A	9218 C000		00000	2264	MVI	0(R12),XFFOR	PUT FOR INTO STACK
00144E	50C0 DCD8		00CD8	2265	ST	R12,SP	
001452	48C0 DD4C		00D4C	2266	LH	R12,IGC	
001456	1ACC			2267	AR	R12,R12	
001458	4AC0 DD4C		00D4C	2268	AH	R12,IGC	
00145C	5AC0 DD50		00D50	2269	A	R12,AGT	
001460	58F0 DD6C		00D6C	2270	L	R15,LIGP	
001464	D201 C000	F008 00000	00008	2271	MVC	0(2,R12),8(R15)	ENTRY INTO GROUP TABLE
00146A	422C 0002		00002	2272	STC	R2,2(R12)	
00146E	947F C000		00000	2273	NI	0(R12),X'7F'	CLEAR POSSIBLE PHI IND
001472	58F0 DD68		00D68	2274	L	R15,AITL	
001476	D203 F000	DD6C 00000	00D6C	2275	MVC	0(4,R15),LIGP	CONSTRUCT FOR HEAD ENTRY IN ITAB
00147C	922B F005		00005	2276	MVI	5(R15),X'2B'	
001480	D201 F008	DD4C 00008	00D4C	2277	MVC	8(2,R15),IGC	
001486	50F0 DD6C		00D6C	2278	ST	R15,LIGP	UPDATE LIGP
00148A	45C0 595A		0095A	2279	BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITAB ENTRY
00148E	4110 1001		00001	2280	LA	R1,1(,R1)	
001492	47F0 5174		00174	2281	B	TESTLOOP	
				2282 *			
				2283 *	TYPE		
				2284 *			
				2285 *	ENTRED FOR INTEGER, REAL AND BOOLEAN.		
				2286 *	TESTS FOR NEWBLOCK, BEGBIT, AND IF IDENTIFIER IS		
				2287 *	SPECIFIED, PROBIT.		
				2288 *	MOVES INTERNAL NAME CHARACTERISTICS AND PBN TO ITAB.		
				2289 *	CHECKS THE IDENTIFIER FOR VALIDITY AND MOVES UP TO 6		
				2290 *	CHARACTERS TO ITAB EXTERNAL NAME.		
				2291 *	IF THE FIRST CHARACTER FOUND IS AN APOSTROPHE THE CHECK		
				2292 *	IS VIA APOSTROF, DELIMITER AND TYPESPEC FOR ARRAY OR		
				2293 *	PROCEDURE (FBYTE=F0)		
				2294 *			
001496	9140 DD8E		00D8E	2295	TYPE	TM BITS1,X'40'	PROBIT = 1 ?
00149A	4710 86A4		016A4	2296	BO	SPECENT	YES
00149E	9180 DD8E		00D8E	2297	TM	BITS1,X'80'	BEGBIT = 1 ?
0014A2	4780 84B2		014B2	2298	BZ	TYPEAA	
0014A6	5090 BDC8		02DC8	2299	ST	R9,SAVE1	IF YES GOTO BEGI PGM
0014AA	4590 5DCC		00DCC	2300	BAL	R9,BEG1	
0014AE	5890 BDC8		02DC8	2301	L	R9,SAVE1	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0014B2	58F0 DD68		00D68	2302	TYPEAA	L R15,AITL	MOVE CHARACTERISTICS TO ITAB 02255001
0014B6	92C0 F006	00006		2303		MVI 6(R15),X'C0'	TO THE 7TH AND 8TH 02256001
0014BA	9230 F007	00007		2304		MVI 7(R15),X'30'	BYTE OF THE ENTRY 02257001
0014BE	416E 9002		00002	2305		LA R6,2(R14,R9)	MODIFY THE LAST 4 BITS WITH 02258001
0014C2	D100 F007	6000 00007	00000	2306		MVN 7(1,R15),0(R6)	INFORMATION FROM THE KEYTAB 02259001
0014C8	5860 DD70		00D70	2307		L R6,LPBP	02260001
0014CC	D200 F008	600A 00008	0000A	2308		MVC 8(1,R15),10(R6)	MOVE IN PROGRAM BLOCK NUMBER 02261001
0014D2	4110 1001		00001	2309	TYPEDAFI	LA R1,1(,R1)	GET NEXT CHARACTER 02262001
0014D6	9540 1000	00000		2310		CLI 0(R1),XFA	CHAR A LETTER ? 02263001
0014DA	47B0 850E		0150E	2311		BNL TYPENAME	YES 02264001
0014DE	952B 1000	00000		2312		CLI 0(R1),XFBANK	BLANK ? 02265001
0014E2	4780 84D2		014D2	2313		BE TYPEDAFI	02266001
0014E6	952F 1000	00000		2314		CLI 0(R1),XFZETA	ZETA ? 02267001
0014EA	4770 84F6		014F6	2315		BNE TYPEBB	02268001
0014EE	4190 84D6		014D6	2316		LA R9,TYPEDAFI+4	CHANGE INPUT 02269001
0014F2	47F0 5A28		00A28	2317		B CIB	BUFFER 02270001
				2318	*		02271001
0014F6	952E 1000	00000		2319	TYPEBB	CLI 0(R1),XFQUOTE	QUOTE ? 02272001
0014FA	4780 8506		01506	2320		BE TYPECC	02273001
0014FE	41F0 84D2		014D2	2321		LA R15,TYPEDAFI	STORE RETURN ADDR 02274001
001502	47F0 8588		01588	2322		B IERSPEC	GOTO ERROR ROUTINE 02275001
				2323	*		02276001
001506	92F0 DD81	00D81		2324	TYPECC	MVI FBYTE,X'F0'	MOVE F0 TO FBYTE 02277001
00150A	47F0 5304		00304	2325		B ENTRAPR	CHECK FOR TYPE ARRAY OR PROC 02278001
				2326	*		02279001
00150E	5870 DD68		00D68	2327	TYPENAME	L R7,AITL	GET ITAB POINTER 02280001
001512	D200 7000	1000 00000	00000	2328		MVC 0(1,R7),0(R1)	MOVE FIRST CHAR TO ITAB 02281001
001518	4170 7001		00001	2329		LA R7,1(,R7)	INCREASE POINTER 02282001
00151C	4120 0001		00001	2330		LA R2,1	INITIALIZE COUNTER 02283001
001520	4190 8528		01528	2331		LA R9,TYPENM03	RTN IF CHANGE OF I/P BUF NEEDED 02284001
001524	4110 1001		00001	2332	TYPENM02	LA R1,1(,R1)	GET NEXT CHAR 02285001
001528	952F 1000	00000		2333	TYPENM03	CLI 0(R1),XFZETA	LETTER, ZETA OR SOMETHING ELSE ? 02286001
00152C	4780 5A28		00A28	2334		BE CIB	CHANGE I/P BUFFER 02287001
001530	4740 854E		0154E	2335		BL TLISTSE	CHECK FURTHER 02288001
001534	5920 BD24		02D24	2336		C R2,KF6	6 CHAR ALREADY MOVED IN ? 02289001
001538	4780 8524		01524	2337		BE TYPENM02	YES 02290001
00153C	D200 7000	1000 00000	00000	2338		MVC 0(1,R7),0(R1)	NO, MOVE IN NEXT CHAR 02291001
001542	4170 7001		00001	2339		LA R7,1(,R7)	INCREASE 02292001
001546	4120 2001		00001	2340		LA R2,1(,R2)	POINTERS 02293001
00154A	47F0 8524		01524	2341		B TYPENM02	TAKE NEXT CHAR 02294001
				2342	*		02295001
00154E	952B 1000	00000		2343	TLISTSE	CLI 0(R1),XFBANK	BLANK ? 02296001
001552	4780 8524		01524	2344		BE TYPENM02	02297001
001556	9525 1000	00000		2345		CLI 0(R1),XFCOMMA	COMMA ? 02298001
00155A	4780 8576		01576	2346		BE TYPECOMA	02299001
00155E	41F0 84D2		014D2	2347		LA R15,TYPEDAFI	RETURN ADDR FOR IER 02300001
001562	4160 8592		01592	2348		LA R6,IER	RETURN ADDR IF NO SEMICOLON 02301001
001566	45C0 5912		00912	2349		BAL R12,FINDSEMC	LOOK FOR SEMICOLON 02302001
				2350	*		02303001
				2351	*	TYPESEMC	02304001
				2352	*		02305001
				2353	*	SEMICOLON FOUND	02306001
				2354	*	END OF THIS DECLARATION	02307001
				2355	*	DELTABIT IS TURNED ON AND THE RETURN TO TEST IS VIA	02308001
				2356	*	SEMCO	02309001
				2357	*		02310001
00156A	45C0 595A		0095A	2358	TYPESEMC	BAL R12,ITABCLEA	CLEAR NEXT ITAB ENTRY 02311001
00156E	9620 DD8E	00D8E		2359		OI BITS1,X'20'	SET DELTABIT TO ONE 02312001
001572	47F0 55D4		005D4	2360		B SEMCO	GO TO SEMICOLON PROGRAM 02313001
				2361	*		02314001
				2362	*	TYPECOMA	02315001
				2363	*		02316001
				2364	*	AN COMMA ENDED THE IDENTIFIER	02317001
				2365	*	THE INTERNAL NAME IS COPIED AND TYPE PROGRAM UTILIZED	02318001
				2366	*	AGAIN	02319001
				2367	*		02320001
001576	5890 DD68		00D68	2368	TYPECOMA	L R9,AITL	02321001
00157A	45C0 595A		0095A	2369		BAL R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY 02322001
00157E	D202 F006	9006 00006	00006	2370		MVC 6(3,R15),6(R9)	COPY ID AND PBN FIELDS 02323001
001584	47F0 84D2		014D2	2371		B TYPEDAFI	RETURN TO CHECK NEXT IDENTIFIER 02324001
				2372	*		02325001
				2373	*	IER	02326001
				2374	*		02327001
				2375	*	IDENTIFIER ERROR ROUTINE	02328001
				2376	*		02329001
				2377	*	HAS 2 ENTRIES -	02330001
				2378	*	1. IERSPEC IF FIRST CHARACTER IS IN ERROR, E5	02331001
				2379	*	2. IER ANY OTHER CHARACTER, E16	02332001
				2380	*	RETURN -	02333001
				2381	*	1. VIA R15 IF AN COMMA IS FOUND AFTER	02334001
				2382	*	THE IDENTIFIER IN ERROR.	02335001
				2383	*	2. TO TEST VIA SEMCO IF AN SEMICOLON IS FOUND.	02336001
				2384	*	3. TO PROCFIN IF AN RIGHT PARENTHESIS IS FOUND AND THE	02337001
				2385	*	FMBIT IS ON WHICH INDICATES THAT THE FORMAL PARAMETER	02338001
				2386	*	LIST OF A PROCEDURE IS UNDER PROCESS	02339001
				2387	*		02340001
				2388	*	R15 MIGHT LEAD TO TYPEDAFI, IDCHECK, PROCID	02341001
				2389	*		02342001
001588	4560 578A		0078A	2390	IERSPEC	BAL R6,ERR7	02343001
				2391	*		02344001
00158C	0405			2392		DC X'0405'	E5 02345001
				2393	*		02346001
00158E	47F0 8598		01598	2394		B IERSPECA	02347001
				2395	*		02348001
001592	4560 56CC		006CC	2396	IER	BAL R6,ERR2	02349001
				2397	*		02350001



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001596	0010			2398	DC	X'0010'	E16 02351001
				2399	*		02352001
001598	5870 DD68		00D68	2400	IERSPECA	L R7,AITL	RESET R7 TO START 02353001
00159C	9200 7000	00000		2401	MVI	0(R7),0	CLEAR EXTERNAL NAME PART 02354001
0015A0	D204 7001 7000	00001	00000	2402	MVC	1(5,R7),0(R7)	02355001
0015A6	4110 1001		00001	2403	IERCOMMA	LA R1,1(,R1)	02356001
0015AA	4160 85D4		015D4	2404	LA	R6,IERSELC	RETURN IF NO SEMICOLON FOUND 02357001
0015AE	45C0 5912		00912	2405	BAL	R12,FINDSEMC	LOOK FOR SEMICOLON 02358001
0015B2	58F0 DD68		00D68	2406	IERSEMC0	L R15,AITL	SEMICOLON FOUND - END OF DCL. 02359001
0015B6	45C0 5962		00962	2407	BAL	R12,ITABCLEC	CLEAR ITAB ENTRY 02360001
0015BA	9140 DD90	00D90		2408	TM	BITS3,FMBIT	FORMAL PARAMETER LIST PROCESSED? 02361001
0015BE	4710 B1DE		021DE	2409	BO	SCYES3-8	YES, RETURN TO PROCEDURE END 02362001
0015C2	9620 DD8E	00D8E		2410	OI	BITS1,X'20'	DELTABIT = 1 02363001
0015C6	94EF DD8F	00D8F		2411	NI	BITS2,X'EF'	VALBIT=0 02364001
0015CA	D201 DCB8 BD0C	00C88	02D0C	2412	MVC	KB(2),KF0	CKB = 00 02365001
0015D0	47F0 55D4		005D4	2413	B	SEMC0	RETURN TO TEST VIA SEMCO 02366001
				2414	*		02367001
0015D4	9525 1000	00000		2415	IERSELSE	CLI 0(R1),XFCOMMA	COMMA ? 02368001
0015D8	078F			2416	BER	R15	RETURN IF COMMA FOUND 02369001
0015DA	9140 DD90	00D90		2417	TM	BITS3,FMBIT	FORMAL PARAMETER LIST PROCESSED? 02370001
0015DE	4780 85A6		015A6	2418	BZ	IERCOMMA	NO 02371001
0015E2	9526 1000	00000		2419	CLI	0(R1),XFRBRAC	RIGHT BRACKET ? 02372001
0015E6	4780 B1D2		021D2	2420	BE	PROCFIN	YES, GOTO PROCEDURE END HANDLING 02373001
0015EA	47F0 85A6		015A6	2421	B	IERCOMMA	CONTINUE CHECKING NEXT CHAR 02374001
				2422	*		02375001
				2423	*	CODE	02376001
				2424	*		02377001
				2425	*	SETS THE PROBIT TO ZERO	02378001
				2426	*	CHECKS THAT CODE IS IN THE CORRECT PLACE AND IS	02379001
				2427	*	FOLLOWED BY A SEMICOLON	02380001
				2428	*	CORRECTS THE INTERNAL NAME OF THE PROCEDURE	02381001
				2429	*	TRANSFER THE NAME IN EXTERNAL FORM TO OUTPUT	02382001
				2430	*	RETURNS VIA PROGRAM BLOCK END TO TEST	02383001
				2431	*		02384001
0015EE	94BF DD8E	00D8E		2432	CODE	NI BITS1,X'BF'	PROBIT=0 02385001
0015F2	9500 DD8D	00D8D		2433	CLI	PZ,0	ALL PARAMETERS SPECIFIED ? 02386001
0015F6	4780 85FE		015FE	2434	BZ	CODEAA	YES 02387001
0015FA	45C0 57CE		007CE	2435	BAL	R12,ERROR10	NO, GENERATE E10 02388001
0015FE	58F0 DCD8		00CD8	2436	CODEAA	L R15,SP	02389001
001602	950C F000	00000		2437	CLI	0(R15),X'0C'	PROC IN STACK ? 02390001
001606	4770 8688		01688	2438	BNE	CODERR	IF NO BRANCH TO ERROR 02391001
00160A	18E3			2439	LR	R14,R3	02392001
00160C	58E0 BD18		02D18	2440	S	R14,KF3	02393001
001610	9529 E000	00000		2441	CLI	0(R14),XFDELTA	DELTA IN O/P ? 02394001
001614	4770 8688		01688	2442	BNE	CODERR	IF NO BRANCH TO ERROR 02395001
001618	58F0 DD70		00D70	2443	L	R15,LPBP	02396001
00161C	58F0 BD38		02D38	2444	S	R15,KF11	GET PROCEDURE NAME 02397001
001620	9780 F007	00007		2445	XI	7(R15),X'80'	INTERNAL NAME IS CORRECTED 02398001
001624	9180 F013	00013		2446	TM	19(R15),X'80'	TYPE PROCEDURE ? 02399001
001628	4780 8630		01630	2447	BZ	CODEBB	02400001
00162C	9780 F01D	0001D		2448	XI	29(R15),X'80'	YES, CORRECT SECOND NAME ENTRY 02401001
001630	4100 3009		00009	2449	CODEBB	LA R0,9(,R3)	02402001
001634	45C0 5982		00982	2450	BAL	R12,COBSPEC	CHECK IF ENOUGH SPACE IN O/P 02403001
001638	923C 3000	00000		2451	MVI	0(R3),X'3C'	TRANSFER GAMMA 02404001
00163C	D205 3001 F000	00001	00000	2452	MVC	1(6,R3),0(R15)	TRANSFER NAME AND 02405001
001642	DC05 3001 B92E	00001	0292E	2453	TR	1(6,R3),TRINTEXT	CONVERT TO EXTERNAL CODE 02406001
001648	9240 3007	00007		2454	MVI	7(R3),C' '	MOVE IN EXTERNAL BLANK 02407001
00164C	9240 3008	00008		2455	MVI	8(R3),C' '	MOVE IN EXTERNAL BLANK 02408001
001650	4130 3009		00009	2456	LA	R3,9(,R3)	02409001
001654	9620 DD8E	00D8E		2457	OI	BITS1,X'20'	DELTABIT = 1 02410001
001658	4160 866C		0166C	2458	SEARCH	LA R6,NOSEMC	RETURN IF NO SEMICOLON FOUND 02411001
00165C	4140 55D4		005D4	2459	LA	R4,SEMC0	RETURN ADDR FOR PBLCKEND 02412001
001660	4110 1001		00001	2460	LA	R1,1(,R1)	02413001
001664	45C0 5912		00912	2461	BAL	R12,FINDSEMC	SEMICOLON FOLLOWS ? 02414001
001668	47F0 5FB8		00FB8	2462	B	PBLCKEND	SEMICOLON FOUND, GOTO PBLCKEND 02415001
				2463	*		02416001
00166C	4560 578A		0078A	2464	NOSEMC	BAL R6,ERR7	02417001
				2465	*		02418001
001670	040F			2466	DC	X'040F'	E15 02419001
				2467	*		02420001
001672	4160 5912		00912	2468	LA	R6,FINDSEMC	PERIOD FOUND ? 02421001
001676	1969			2469	CR	R6,R9	02422001
001678	4780 5FB8		00FB8	2470	BE	PBLCKEND	NO 02423001
00167C	0610			2471	BCTR	R1,0	YES 02424001
00167E	922D 1000	00000		2472	MVI	0(R1),XFPERIOD	MOVE IN A PERIOD 02425001
001682	0610			2473	BCTR	R1,0	DECREASE R1, WILL BE INCREASED 02426001
001684	47F0 5FB8		00FB8	2474	B	PBLCKEND	BY SEMCO. RETURN VIA PBLCKEND 02427001
				2475	*		02428001
001688	4560 578A		0078A	2476	CODERR	BAL R6,ERR7	02429001
				2477	*		02430001
00168C	0418			2478	DC	X'0418'	E24 02431001
				2479	*		02432001
00168E	47F0 8324		01324	2480	B	COMERR	SKIP TO NEXT SEMICOLON 02433001
				2481	*		02434001
				2482	*	SPEC	02435001
				2483	*		02436001
				2484	*	ENTERED FOR LABEL AND STRING	02437001
				2485	*	CHECKS THAT THEY ARE IN PROCEDURE HEAD	02438001
				2486	*		02439001
001692	9140 DD8E	00D8E		2487	SPEC	TM BITS1,X'40'	PROBIT ON ? 02440001
001696	4710 86A4		016A4	2488	BO	SPECENT	YES, PROCESS SPECIFIED 02441001
				2489	*		LABEL OR STRING 02442001
00169A	4560 578A		0078A	2490	BAL	R6,ERR7	02443001
				2491	*		02444001
00169E	0419			2492	DC	X'0419'	E25 02445001
				2493	*		02446001

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0016A0	47F0 8324		01324	2494	B	COMERR	SKIP TO NEXT SEMICOLON 02447001
				2495 *			02448001
				2496 *		SPECENT	02449001
				2497 *			02450001
				2498 *		ENTERED FOR SPECIFICATIONS FROM -	02451001
				2499 *		TYPE	02452001
				2500 *		SPEC	02453001
				2501 *		ARRAY	02454001
				2502 *		SWITCH	02455001
				2503 *		PROCEDURE	02456001
				2504 *		SAVES IN KB THE CHARACTERISTICS TAKEN FROM THE	02457001
				2505 *		DELIMITER TABLE	02458001
				2506 *			02459001
0016A4	41FE 9001		00001	2507	SPECENT	LA R15,1(R14,R9)	MOVE IN IDFIELD 02460001
0016A8	D201 DC88 F000 00CB8 00000		00000	2508	MVC	KB(2),0(R15)	02461001
				2509 *			02462001
				2510 *		IDCHECK	02463001
				2511 *			02464001
				2512 *		ENTERED FROM -	02465001
				2513 *		VALUE	02466001
				2514 *		TYPEARRAY	02467001
				2515 *		TYPEPROCEDURE	02468001
				2516 *		SPECENT	02469001
				2517 *		CHECKS THE NAME FOR FORMAL PARAMETERS	02470001
				2518 *		FINDS THE ENTRY IN ITAB AND INSERTS THERE THE	02471001
				2519 *		CHARACTERISTICS AND PROGRAM BLOCK NUMBER.	02472001
				2520 *		DECREASES THE PARAMETER COUNT PZ BY ONE FOR EACH	02473001
				2521 *		CORRECT PARAMETER FOUND .	02474001
				2522 *		IF A COMMA ENDS THE IDENTIFIER IDCHECK WILL BE	02475001
				2523 *		ACTIVATED AGAIN.	02476001
				2524 *		IF A SEMICOLON ENDS THE DELIMITER THE RETURN IS TO TEST	02477001
				2525 *		VIA SEMICOLON PROGRAM	02478001
				2526 *			02479001
0016AE	4110 1001		00001	2527	IDCHECK	LA R1,1(R1)	GET NEXT CHAR 02480001
0016B2	9539 1000		00000	2528	CLI	0(R1),XF9	LETTER ? 02481001
0016B6	47D0 8700		01700	2529	BNH	IDNOLETR	NO 02482001
0016BA	D205 873E BD0C 0173E 02D0C		02D0C	2530	MVC	IDBUCKET(6),KF0	CLEAR BUCKET WITH ZEROS 02483001
0016C0	4170 873E		0173E	2531	LA	R7,IDBUCKET	02484001
0016C4	41E0 0001		00001	2532	LA	R14,1	02485001
0016C8	D200 7000 1000 00000		00000	2533	MVC	0(1,R7),0(R1)	MOVE FIRST CHAR TO BUCKET 02486001
0016CE	4170 7001		00001	2534	LA	R7,1(R7)	02487001
0016D2	4190 86DA		016DA	2535	LA	R9,IDLOOPAA	RETURN IF CIB NEEDED 02488001
0016D6	4110 1001		00001	2536	LA	R1,1(R1)	GET NEXT CHAR 02489001
0016DA	952F 1000		00000	2537	IDLOOPAA	CLI 0(R1),XFZETA	ZETA ? 02490001
0016DE	4780 5A28		00A28	2538	BE	CIB	YES 02491001
0016E2	4740 8744		01744	2539	BL	IDSEARCH	SOMETHING ELSE 02492001
0016E6	59E0 BD24		02D24	2540	C	R14,KF6	LETTER OR DIGIT 02493001
0016EA	4780 86D6		016D6	2541	BE	IDLOOP	6 CHAR MOVED ALREADY YES ? 02494001
0016EE	D200 7000 1000 00000		00000	2542	MVC	0(1,R7),0(R1)	NO, MOVE CHAR 02495001
0016F4	4170 7001		00001	2543	LA	R7,1(R7)	INCREASE POINTERS 02496001
0016F8	41E0 E001		00001	2544	LA	R14,1(R14)	02497001
0016FC	47F0 86D6		016D6	2545	B	IDLOOP	TAKE NEXT CHAR 02498001
				2546 *			FIRST CHAR WAS NOT LETTER 02499001
001700	952B 1000		00000	2547	IDNOLETR	CLI 0(R1),XFBANK	BLANK ? 02500001
001704	4780 86AE		016AE	2548	BE	IDCHECK	YES, GET NEXT CHAR 02501001
001708	952F 1000		00000	2549	CLI	0(R1),XFZETA	ZETA ? 02502001
00170C	4770 8718		01718	2550	BNE	IDNOLETA	NO 02503001
001710	4190 86B2		016B2	2551	LA	R9,IDCHECK+4	YES, CHANGE I/P-BUFFER 02504001
001714	47F0 5A28		00A28	2552	B	CIB	BUFFER 02505001
				2553 *			02506001
001718	952E 1000		00000	2554	IDNOLETA	CLI 0(R1),XFQUOTE	QUOTE ? 02507001
00171C	4780 8728		01728	2555	BE	IDNOLETB	YES 02508001
001720	41F0 86AE		016AE	2556	LA	R15,IDCHECK	NO, SET RETURN ADD AND GOTO 02509001
001724	47F0 8588		01588	2557	B	IERSPEC	IDENTIFIER ERROR ROUTINE 02510001
				2558 *			02511001
001728	92F0 DD81		00D81	2559	IDNOLETB	MVI FBYTE,X'F0'	SET FBYTE, LOOK FOR TYPE 02512001
00172C	47F0 5304		00304	2560	B	ENTRAPR	ARRAY OR TYPE PROC 02513001
				2561 *			02514001
001730	4560 56EE		006EE	2562	IDSELSE	BAL R6,ERR2E	02515001
				2563 *			02516001
001734	0010			2564	DC	X'0010'	E16 02517001
				2565 *			02518001
001736	41F0 86AE		016AE	2566	LA	R15,IDCHECK	RETURN ADDR FOR IER 02519001
00173A	47F0 85A6		015A6	2567	B	IERCOMMA	GOTO IDENTIFIER ERROR ROUTINE 02520001
				2568 *			02521001
00173E	00000000000000			2569	IDBUCKET	DC 6X'00'	02522001
				2570 *			02523001
001744	952B 1000		00000	2571	IDSEARCH	CLI 0(R1),XFBANK	BLANK ? 02524001
001748	4780 86D6		016D6	2572	BE	IDLOOP	YES, BRANCH 02525001
00174C	9525 1000		00000	2573	CLI	0(R1),XFCOMMA	COMMA ? 02526001
001750	4780 8760		01760	2574	BE	IDCOMMA	YES, BRANCH 02527001
001754	4160 8730		01730	2575	LA	R6,IDSELSE	IF NOT SEMICOLON FOUND 02528001
001758	45C0 5912		00912	2576	BAL	R12,FINDSEMC	LOOK FOR SEMICOLON 02529001
00175C	9620 DD8E		00D8E	2577	OI	BITS1,X'20'	SEMICOLON FOUND SET DELTABIT 02530001
001760	D503 DD60 BD0C 00D60 02D0C		02D0C	2578	IDCOMMA	CLC PRIMPAR(4),KF0	ARE THERE ANY PARAMETERS ? 02531001
001766	4780 8784		01784	2579	BE	NOTFOUND	NO 02532001
00176A	58C0 DD60		00D60	2580	L	R12,PRIMPAR	GET FIRST PARAMETER 02533001
				2581 *			02534001
				2582 *		COMPID	02535001
				2583 *			02536001
				2584 *		A LOOP TO FIND THE PARAMETER IN ITAB	02537001
				2585 *			02538001
00176E	D505 873E C000 0173E 00000		00000	2586	COMPID	CLC IDBUCKET(6),0(R12)	CHECK IF IDENTIFIER FOUND 02539001
001774	4780 878E		0178E	2587	BE	IDVALCHK	FOUND 02540001
001778	41C0 C00B		0000B	2588	LA	R12,11(R12)	NOT FOUND. TRY NEXT PARAMETER 02541001
00177C	59C0 DD68		00D68	2589	C	R12,AITL	IF THERE ARE ANY LEFT 02542001

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001780	4770 876E		0176E	2590	BNE	COMPID	YES 02543001
001784	4560 56EE		006EE	2591	NOTFOUND BAL	R6,ERR2E	02544001
				2592	*		02545001
001788	001B			2593	DC	X'001B'	E27 02546001
				2594	*		02547001
00178A	47F0 87CE		017CE	2595	B	IDENDER	02548001
				2596	*		02549001
00178E	9110 DD8F	00D8F		2597	IDVALCHK TM	BITS2,X'10'	VALUE CALL ? 02550001
001792	4710 87FE		017FE	2598	BO	VALDLB2	YES, GOTO VAL ROUTINE 02551001
001796	9106 C006	00006		2599	TM	6(R12),X'06'	SPECIAL USE BITS ON ? 02552001
00179A	4780 87A8		017A8	2600	BZ	IDCHKEND	NO 02553001
00179E	4560 56EE		006EE	2601	BAL	R6,ERR2E	YES, CREATE 02554001
				2602	*		02555001
0017A2	001A			2603			02556001
				2604	DC	X'001A'	E26 02557001
				2605	B	IDENDER	GET NEXT IDENTIFIER 02558001
0017A4	47F0 87CE		017CE	2606	*		02559001
				2607	*	IDCHKEND	02560001
				2608	*		02561001
				2609	*	INSERTS CHARACTERISTICS AND PBN, DECREASES PZ.	02562001
				2610	*	IF BOTH VALUE AND NAME BIT ON BYTE 7 EQUALS 30 A VALUE	02563001
				2611	*	SPECIFICATION HAS BEEN MADE EARLIER SO IT IS CORRECTED	02564001
				2612	*	TO BE A CALL BY VALUE.	02565001
				2613	*		02566001
0017A8	5860 DD70		00D70	2614	IDCHKEND L	R6,LPBP	02567001
0017AC	D200 C008	600A 00008	0000A	2615	MVC	8(1,R12),10(R6)	INSERT PBN 02568001
0017B2	D601 C006	DCB8 00006	00CB8	2616	OC	6(2,R12),KB	02569001
0017B8	4360 DD8D		00D8D	2617	IC	R6,PZ	CORRECT IDFIELD IS CREATED 02570001
0017BC	0660			2618	BCTR	R6,0	PZ = PZ-1 02571001
0017BE	4260 DD8D		00D8D	2619	STC	R6,PZ	02572001
0017C2	9130 C007	00007		2620	TM	7(R12),X'30'	VALUE BIT ON ? 02573001
0017C6	4740 87CE		017CE	2621	BM	IDENDER	02574001
0017CA	94EF C007	00007		2622	VALCALL NI	7(R12),X'EF'	YES, ZERO NAME BIT 02575001
0017CE	9120 DD8E		00D8E	2623	IDENDER TM	BITS1,X'20'	DELTABIT ON ? 02576001
0017D2	4780 86AE		016AE	2624	BZ	IDCHECK	NO, GET NEXT IDENT 02577001
0017D6	D201 DCB8	BD0C 00CB8	02D0C	2625	MVC	KB(2),KF0	YES, CLEAR IDFIELD 02578001
0017DC	94EF DD8F		00D8F	2626	NI	BITS2,X'EF'	SET VALBIT TO ZERO 02579001
0017E0	47F0 55D4		005D4	2627	B	SEMC0	GOTO SEMICOLON PROGRAM 02580001
				2628	*		02581001
				2629	*	VALUE	02582001
				2630	*		02583001
				2631	*	CHECKS THAT SPECIFICATION IS IN A PROCEDURE HEAD	02584001
				2632	*	EXITS FIRST TO IDCHECK TO FIND THE PARAMETER WILL THEN	02585001
				2633	*	RETURN TO VALDLB2 FOR FUTHER CHECKS AND TO INSERT THE	02586001
				2634	*	VALUE BIT IN THE INTERNAL NAME	02587001
				2635	*		02588001
0017E4	9140 DD8E		00D8E	2636	VALUE TM	BITS1,X'40'	PROCEDURE ? 02589001
0017E8	4780 87FA		017FA	2637	BZ	VALUERR	NO, ERROR 02590001
0017EC	9610 DD8F		00D8F	2638	OI	BITS2,X'10'	YES, SET VALUE BIT TO ONE 02591001
0017F0	47F0 86AE		016AE	2639	B	IDCHECK	AND GO TO IDCHEK 02592001
				2640	*		02593001
0017F4	4560 578A		0078A	2641	VALUERR BAL	R6,ERR7	E28 VALVE 02594001
				2642	*		02595001
0017F8	041C			2643	DC	X'041C'	OUTSIDE PROC 02596001
				2644	*		02597001
0017FA	47F0 8324		01324	2645	B	COMERR	SKIP TO NEXT SEMICOLON 02598001
				2646	*		02599001
0017FE	9120 C007	00007		2647	VALDLB2 TM	7(R12),X'20'	VALUE BIT ON IN IDENTIFIER ? 02600001
001802	4780 8810		01810	2648	BZ	VALDLB3	NO 02601001
001806	4560 56EE		006EE	2649	BAL	R6,ERR2E	02602001
				2650	*		02603001
00180A	001E			2651	DC	X'001E'	E30 02604001
				2652	*		02605001
00180C	47F0 87CE		017CE	2653	B	IDENDER	GET NEXT IDENTIFIER 02606001
				2654	*		02607001
001810	9106 C006	00006		2655	VALDLB3 TM	6(R12),X'06'	SPECIAL USE BIT ENTERED ? 02608001
001814	4780 8826		01826	2656	BZ	VALDLB4	NO 02609001
001818	4560 578A		0078A	2657	BAL	R6,ERR7	02610001
				2658	*		02611001
00181C	041D			2659	DC	X'041D'	E29 02612001
				2660	*		02613001
00181E	9730 C007	00007		2661	XI	7(R12),X'30'	MOVE IN IDFIELD 02614001
001822	47F0 87CE		017CE	2662	B	IDENDER	GET NEXT IDENTIFIER 02615001
				2663	*		02616001
001826	9230 C007	00007		2664	VALDLB4 MVI	7(R12),X'30'	CORRECT - MOVE IN IDFIELD 02617001
00182A	47F0 87CE		017CE	2665	B	IDENDER	GET NEXT IDENTIFIER 02618001
				2666	*		02619001
				2667	*	TYPEARRAY	02620001
				2668	*		02621001
				2669	*	ENTERED FROM TYPESPEC	02622001
				2670	*	TEST FOR PROBIT, BEGBIT	02623001
				2671	*	INSERTS CHARACTERISTICS IN INTERNAL NAME WITHOUT	02624001
				2672	*	DESTROYING THE TYPE SPECIFICATIONS ENTERED BY THE TYPE	02625001
				2673	*	PROGRAM	02626001
				2674	*	JOINS ARRAY PROGRAM FOR A SPECIFIED TYPEARRAY THE EXIT	02627001
				2675	*	IS TO IDCHECK	02628001
				2676	*		02629001
00182E	9140 DD8E	00D8E		2677	TYPEARRY TM	BITS1,X'40'	PROBIT ON ? 02630001
001832	4710 885A		0185A	2678	BO	TARYDHB3	YES, SPECIFICATION 02631001
001836	9180 DD8E		00D8E	2679	TM	BITS1,X'80'	BEGBIT ON ? 02632001
00183A	4780 884A		0184A	2680	BZ	TYPEARAA	02633001
00183E	5090 BDC8		02DC8	2681	ST	R9,SAVE1	YES 02634001
001842	4590 5DCC		00DCC	2682	BAL	R9,BEG1	GO AND PROCESS PROGRAMBLOCK HEAD 02635001
001846	5890 BDC8		02DC8	2683	L	R9,SAVE1	02636001
00184A	5870 DD68		00D68	2684	TYPEARAA L	R7,AITL	02637001
00184E	92C8 7006	00006		2685	MVI	6(R7),X'C8'	MOVE IN 02638001

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001852	9734 7007	00007		2686	XI	7(R7),X'34'	ID FIELD 02639001
001856	47F0 888E		0188E	2687	B	ARRYDME1	GOTO ARRAY PROCCEING 02640001
				2688	*		02641001
00185A	92CA DCB8	00CB8		2689	TARYDHB3	MVI KB,X'CA'	MOVE IN 02642001
00185E	9604 DCB9	00CB9		2690	OI	KB+1,X'04'	TYPE ARRAY SPECIFICATION ID 02643001
001862	47F0 86AE		016AE	2691	B	IDCHECK	02644001
				2692	*		02645001
				2693	*	ARRAY	02646001
				2694	*		02647001
				2695	*	TESTS FOR PRO AND BEGBIT	02648001
				2696	*	ENTERS CHARACTERISTICS IN INTERNAL NAME	02649001
				2697	*	TYPEARRAY JOINS HERE	02650001
				2698	*	PBN IS ENTERED IN INTERNAL NAME	02651001
				2699	*	09 FOR ARRAY IS MOVED TO OUTPUT	02652001
				2700	*	THE NAME IS CHECKED AND MOVED TO OUTPUT AND ITAB SHOULD	02653001
				2701	*	BE FOLLOWED BY A COMMA OR LEFT PARENTHESIS	02654001
				2702	*	SETS N (NUMBER OF ARRAYS WITH SAME DIMENSIONS) TO ONE	02655001
				2703	*		02656001
001866	9140 DD8E	00D8E		2704	ARRAY	TM BITS1,X'40'	PROBIT ON ? 02657001
00186A	4710 86A4		016A4	2705	BO	SPECENT	YES 02658001
00186E	9180 DD8E	00D8E		2706	TM	BITS1,X'80'	BEGBIT ON ? 02659001
001872	4780 8882		01882	2707	BZ	ARRAYAA	02660001
001876	5090 BDC8		02DC8	2708	ST	R9,SAVE1	YES, PROCESS PROGRAM BLOCK HEAD 02661001
00187A	4590 5DCC		00DCC	2709	BAL	R9,BEG1	02662001
00187E	5890 BDC8		02DC8	2710	L	R9,SAVE1	02663001
001882	5870 DD68		00D68	2711	ARRAYAA	L R7,AITL	02664001
001886	92C8 7006	00006		2712	MVI	6(R7),X'C8'	MOVE IN 02665001
00188A	9206 7007	00007		2713	MVI	7(R7),X'06'	IO FIELD 02666001
00188E	5860 DD70		00D70	2714	ARRYDME1	L R6,LPBP	02667001
001892	D200 7008	600A 00008	0000A	2715	MVC	8(1,R7),10(R6)	MOVE IN PROGRAM BLOCK NUMBER 02668001
001898	4160 7009		00009	2716	LA	R6,9(,R7)	MOVE ADDR OF AITL+9 02669001
00189C	5060 DD5C		00D5C	2717	ST	R6,DIM	TO DIM 02670001
0018A0	45C0 598C		0098C	2718	BAL	R12,COB	02671001
0018A4	9209 3000	00000		2719	MVI	0(R3),X'09'	MOVE ARRAY ID TO O/P 02672001
0018A8	4130 3001		00001	2720	LA	R3,1(,R3)	02673001
0018AC	4110 1001		00001	2721	ARRAYNAME	LA R1,1(,R1)	GET FIRST CHAR 02674001
0018B0	9539 1000	00000		2722	CLI	0(R1),XF9	LETTER ? 02675001
0018B4	47D0 8910		01910	2723	BNH	ARNAMESE	NO 02676001
0018B8	9104 DD8E	00D8E		2724	TM	BITS1,X'04'	LISTBIT ON ? 02677001
0018BC	4710 89B0		019B0	2725	BO	ARRYMULT	YES 02678001
0018C0	D200 DD86	BD13 00D86	02D13	2726	MVC	N(1),KF1+3	SET N=1 02679001
0018C6	4560 58B4		008B4	2727	ARRYID	BAL R6,IDCHECK1	CHECK, MOVE IDENT TO ITAB 02680001
0018CA	952B 1000	00000		2728	ARRYSE	CLI 0(R1),XFBLANK	O/P BLANK ? 02681001
0018CE	4780 58D8		008D8	2729	BE	IDCHECK2	02682001
0018D2	9506 1000	00000		2730	CLI	0(R1),XFLBRAC	LEFT BRACKET ? 02683001
0018D6	4780 8932		01932	2731	BE	ARRYLPAR	YES, BRANCH 02684001
0018DA	9508 1000	00000		2732	CLI	0(R1),XFSLQBR	LEFT SQUARE BRACKET ? 02685001
0018DE	4780 8932		01932	2733	BE	ARRYLPAR	YES, BRANCH 02686001
0018E2	9525 1000	00000		2734	CLI	0(R1),XFCOMMA	COMMA ? 02687001
0018E6	4780 898E		0198E	2735	BE	ARCOMMA	02688001
0018EA	4560 56CC		006CC	2736	ARRAYERR	BAL R6,ERR2	SOMETHING ELSE FOUND 02689001
				2737	*		02690001
0018EE	0010			2738	DC	X'0010'	E16 02691001
				2739	*		02692001
0018F0	45C0 598C		0098C	2740	BAL	R12,COB	02693001
0018F4	923D 3000	00000		2741	MVI	0(R3),X'3D'	MOVE IN RHA 02694001
0018F8	4130 3001		00001	2742	LA	R3,1(,R3)	02695001
0018FC	58F0 DD68		00D68	2743	ARYEXIT	L R15,AITL	02696001
001900	45C0 5962		00962	2744	BAL	R12,ITABCLEA+8	CLEAR ITAB-ENTRY 02697001
001904	94F7 DD8E	00D8E		2745	ARYEXITA	NI BITS1,X'F7'	TURN OFF ARBIT 02698001
001908	41A0 5174		00174	2746	LA	R10,TESTLOOP	RESET RETURN REG TO MAINLOOP 02699001
00190C	47F0 8324		01324	2747	B	COMERR	SKIP TO NEXT SEMICOLON 02700001
				2748	*		02701001
001910	952B 1000	00000		2749	ARNAMESE	CLI 0(R1),XFBLANK	NAME STARTS WITH BLANK ? 02702001
001914	4780 88AC		018AC	2750	BE	ARRAYNAME	YES, BRANCH 02703001
001918	952F 1000	00000		2751	CLI	0(R1),XFZETA	ZETA ? 02704001
00191C	4770 8928		01928	2752	BNE	ARNAMEAA	02705001
001920	4190 88B0		018B0	2753	LA	R9,ARRAYNAME+4	02706001
001924	47F0 5A28		00A28	2754	B	CIB	02707001
				2755	*		02708001
001928	4560 578A	0078A		2756	ARNAMEAA	BAL R6,ERR7	FIRST CHAR OF NAME IN ERROR 02709001
				2757	*		02710001
00192C	0405			2758	DC	X'0405'	02711001
				2759	*		02712001
00192E	47F0 88FC		018FC	2760	B	ARYEXIT	DELETE DECLARATION 02713001
				2761	*		02714001
				2762	*	ARRAYPAR	02715001
				2763	*		02716001
				2764	*	ENTERED WHEN A LEFT BRACKET OR LEFT SQUARE BRACKET IS	02717001
				2765	*	FOUND AFTER THE NAME	02718001
				2766	*	INITIALIZES D DIMENSION COUNTER=0	02719001
				2767	*	SETS THE ARBIT C PARENTHESIS COUNT=1	02720001
				2768	*	SEARCHES FOR A SLASH	02721001
				2769	*	MOVES OUT SUBSCRIPT BRACKETS TO OUTPUT	02722001
				2770	*	EXITS TO ARRAYLIST	02723001
				2771	*		02724001
001932	9608 DD8E	00D8E		2772	ARRYLPAR	OI BITS1,X'08'	ARBIT = 1 02725001
001936	41C0 0001		00001	2773	LA	R12,1	02726001
00193A	40C0 DCB6	00CB6		2774	STH	R12,C	C=1 02727001
00193E	41C0 0000	00000		2775	LA	R12,0	02728001
001942	42C0 DCD5		00CD5	2776	STC	R12,D	D=0 02729001
001946	9508 1000	00000		2777	CLI	0(R1),XFSLQBR	LEFT SQUARE BRACKET ON ENTRY ? 02730001
00194A	4780 897A		0197A	2778	BE	ARRYLSQB	YES, BRANCH 02731001
00194E	4110 1001		00001	2779	LA	R1,1(,R1)	GET NEXT CHAR 02732001
001952	9503 1000	00000		2780	ARRYSLSH	CLI 0(R1),XFSLASH	SLASH ? 02733001
001956	4780 897A		0197A	2781	BE	ARRYLSQB	YES, MOVE IN LEFT SQUARE BRACKET 02734001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00195A	952B 1000	00000		2782	CLI	0(R1),XFBANK	BLANK ? 02735001
00195E	4780 894E		0194E	2783	BE	ARRYSLSH-4	YES, GET NEXT CHAR 02736001
001962	952F 1000	00000		2784	CLI	0(R1),XFZETA	ZETA ? 02737001
001966	4770 8972		01972	2785	BNE	ARRYSLAA	NO, GOTO ERROR ROUTINE 02738001
00196A	4190 8952		01952	2786	LA	R9,ARRYSLSH	YES, CHANGE 02739001
00196E	47F0 5A28		00A28	2787	B	CIB	INPUT BUFFER 02740001
				2788	*		02741001
001972	4560 56CC		006CC	2789	ARRYSLAA BAL	R6,ERR2	02742001
				2790	*		02743001
001976	001F			2791	DC	X'001F'	E31 02744001
				2792	*		02745001
001978	0610			2793	BCTR	R1,0	02746001
00197A	45C0 598C		0098C	2794	ARRYLSQB	R12,C0B	CHECK IF O/P AREA FILLED 02747001
00197E	9208 3000	00000		2795	MVI	0(R3),XFLSQBR	MOVE IN LEFT SQUARE BRACKET 02748001
001982	4130 3001		00001	2796	LA	R3,1(R3)	INCR 02749001
001986	4110 1001		00001	2797	LA	R1,1(R1)	POINTERS 02750001
00198A	47F0 89C4		019C4	2798	B	LIST	GOTO PROCESS ARRAY LIST 02751001
				2799	*		02752001
				2800	*	ARCOMMA	02753001
				2801	*		02754001
				2802	*		02755001
				2803	*	COPIES INTERNAL PART OF ITAB ENTRY SETS THE LISBIT	02756001
				2804	*	EXITS TO ARRAYNAME TO CHECK FIRST CHARACTER OF NEXT NAME	02757001
				2805	*	THE LIST BIT WILL THEN CAUSE ARRAYMULT TO BE	02758001
				2806	*	EXECUTED BEFORE THE REST OF THE NAME IS CHECKED	02759001
				2807	*	INCREASES N, NUMBER OF ARRAYS WITH THE SAME DIMENSIONS,	02760001
				2808	*	BY ONE	02761001
00198E	5890 DD68		00D68	2809	ARCOMMA L	R9,AITL	SAVE AITL 02762001
001992	45C0 595A		0095A	2810	BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY 02763001
001996	D202 F006	9006 00006	00006	2811	MVC	6(3,R15),6(R9)	COPY ID AND PBN FIELDS 02764001
00199C	4360 DD86		00D86	2812	IC	R6,N	INCREASE 02765001
0019A0	4160 6001		00001	2813	LA	R6,1(R6)	N 02766001
0019A4	4260 DD86		00D86	2814	STC	R6,N	BY ONE 02767001
0019A8	9604 DD8E		00D8E	2815	OI	BITS1,X'04'	SET LISTBIT TO ONE 02768001
0019AC	47F0 88AC		018AC	2816	B	ARRAYNAME	GET NEXT EXTERNAL NAME 02769001
				2817	*		02770001
				2818	*	ARRAYMULT	02771001
				2819	*		02772001
				2820	*	MOVES OUT THE COMMA PREVIOUSLY FOUND	02773001
				2821	*	SETS THE LISTBIT TO ZERO	02774001
				2822	*	RETURNS TO ARRAYID (AVOIDS RESETTING N TO ONE)	02775001
				2823	*		02776001
0019B0	45C0 598C		0098C	2824	ARRAYMULT BAL	R12,C0B	02777001
0019B4	9225 3000	00000		2825	MVI	0(R3),XFCOMMA	MOVE OUT THE COMMA 02778001
0019B8	4130 3001		00001	2826	LA	R3,1(R3)	02779001
0019BC	94FB DD8E		00D8E	2827	NI	BITS1,X'FB'	SET LISTBIT TO ZERO 02780001
0019C0	47F0 88C6		018C6	2828	B	ARRAYID	02781001
				2829	*		02782001
				2830	*	LIST	02783001
				2831	*		02784001
				2832	*	USED FOR ARRAY AND SWITCH LIST PROCESSING	02785001
				2833	*	MAKES THE TRT AGAINST ARTABLE AND UTILIZES MAINLOOP TO	02786001
				2834	*	MOVE SCANNED BYTES AND BRANCH TO THE APPROPRIATE	02787001
				2835	*	PROGRAM, EITHER A LIST PROGRAM OR ONE OF THE COMMON	02788001
				2836	*	PROGRAMS. THE RETURN WILL BE TO LIST VIA R10	02789001
				2837	*	R10 WILL POINT TO LIST UNTIL CHANGED BY ENDLIST TO	02790001
				2838	*	POINT TO TESTLOOP AGAIN	02791001
				2839	*		02792001
0019C4	05A0			2840	LIST BALR	R10,0	SET RETURN REGISTER 02793001
0019C6	1841			2841	LR	R4,R1	START CHAR IN SCAN 02794001
0019C8	189A			2842	LR	R9,R10	RETURN FROM CIB 02795001
0019CA	1B22			2843	SR	R2,R2	02796001
0019CC	DD48 1000	B8D0 00000	028D0	2844	TRT	0(73,R1),ARTABLE	SCAN AGAINST AR TABLE 02797001
0019D2	47F0 518A		0018A	2845	B	CONT	UTILIZE TESTLOOP 02798001
				2846	*		02799001
				2847	*	PONTLST	02800001
				2848	*		02801001
				2849	*	USES THE SAME POINTABEL AS MAINLOOP BUT ADDS 56 TO THE	02802001
				2850	*	DISPLACEMENTS	02803001
				2851	*		02804001
0019D6	4110 1001		00001	2852	PONTLST LA	R1,1(R1)	GET NEXT CHAR 02805001
0019DA	1B22			2853	SR	R2,R2	02806001
0019DC	DD48 1000	B758 00000	02758	2854	TRT	0(73,R1),PTTABLE	SCAN TO NEXT DELIMITER 02807001
0019E2	4160 B6C4		026C4	2855	LA	R6,BPRTAB	IN PTTABLE 02808001
0019E6	5866 2038		00038	2856	L	R6,56(R6,R2)	02809001
0019EA	07F6			2857	BR	R6	BRANCH ACCORDING TO 56+ 02810001
				2858	*	DISP+ BPRTAB	02811001
0019EC	4190 89DA		019DA	2859	PZETA LA	R9,PONTLST+4	ZETA IN POINTLIST 02812001
0019F0	47F0 5A28		00A28	2860	B	CIB	02813001
				2861	*		02814001
				2862	*	RIGTPARL	02815001
				2863	*		02816001
				2864	*	MOVES OUT THE RIGHT PARENTHESIS	02817001
				2865	*	DECREASES THE PARENTHESIS COUNT AND RETURNS TO LIST	02818001
				2866	*		02819001
0019F4	45C0 598C		0098C	2867	RIGTPARL BAL	R12,C0B	CHECK IF O/P AREA FILLED 02820001
0019F8	9226 3000	00000		2868	MVI	0(R3),XFRBRAC	MOVE IN RIGHT BRACKET 02821001
0019FC	4130 3001		00001	2869	LA	R3,1(R3)	02822001
001A00	4110 1001		00001	2870	LA	R1,1(R1)	GET NEXT CHAR 02823001
001A04	4860 DCB6		00CB6	2871	LH	R6,C	02824001
001A08	0660			2872	BCTR	R6,0	DECREASE PARENTHESIS COUNT 02825001
001A0A	4060 DCB6		00CB6	2873	STH	R6,C	02826001
001A0E	07FA			2874	BR	R10	02827001
				2875	*		02828001
				2876	*	LEFTPARL	02829001
				2877	*		02830001

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				2878 *		INCREASES THE PARENTHESIS COUNT	02831001
				2879 *		CHECKS IF NEXT CHARACTER IS A SLASH, IF IT IS MOVES A	02832001
				2880 *		SUBSCRIPT BRACKET OUTPUT, IF NOT MOVES A SIMPLE	02833001
				2881 *		PARENTHESIS	02834001
				2882 *			02835001
001A10	4860 DCB6		00CB6	2883	LEFTPARL LH	R6,C INCREASE PARENTHESIS COUNT	02836001
001A14	4160 6001		00001	2884	LA	R6,1(,R6)	02837001
001A18	4060 DCB6		00CB6	2885	STH	R6,C	02838001
001A1C	9508 1000	00000		2886	CLI	0(R1),XFLSQBR	02839001
001A20	4780 8A30		01A30	2887	BE	LPARDQAA	02840001
001A24	4110 1001		00001	2888	LPARDQC3 LA	R1,1(,R1)	02841001
001A28	9503 1000	00000		2889	CLI	0(R1),XFSLASH	02842001
001A2C	4770 8A42		01A42	2890	BNE	SIMPLPAR	02843001
001A30	45C0 598C		0098C	2891	LPARDQAA BAL	R12,C0B	02844001
001A34	9208 3000	00000		2892	MVI	0(R3),XFLSQBR	02845001
001A38	4110 1001		00001	2893	LPARDQ63 LA	R1,1(,R1)	02846001
001A3C	4130 3001		00001	2894	LA	R3,1(,R3)	02847001
001A40	07FA			2895	BR	R10	02848001
				2896 *		RETURN	02849001
001A42	952B 1000	00000		2897	SIMPLPAR CLI	0(R1),XFLBLANK	02850001
001A46	4780 8A24		01A24	2898	BE	LPARDQC3	02851001
001A4A	952F 1000	00000		2899	CLI	0(R1),XFZETA	02852001
001A4E	4770 8A5A		01A5A	2900	BNE	SIMPLPAA	02853001
001A52	4190 8A28		01A28	2901	LA	R9,LPARDQC3+4	02854001
001A56	47F0 5A28		00A28	2902	B	CIB	02855001
				2903 *			02856001
001A5A	45C0 598C		0098C	2904	SIMPLPAA BAL	R12,C0B	02857001
001A5E	9206 3000	00000		2905	MVI	0(R3),XFLBRAC	02858001
001A62	47F0 8A3C		01A3C	2906	B	LPARDQ63+4	02859001
				2907 *			02860001
				2908 *		COMMALST	02861001
				2909 *			02862001
				2910 *		INCREASES THE DIEMSION COUNTER D IF C THE PARENTHESIS	02863001
				2911 *		COUNTER IS 1 FOR ARRAY OR 0 FOR SWITCH LIST	02864001
				2912 *			02865001
001A66	9108 DD8E	00D8E		2913	COMMALST TM	BITS1,X'08'	02866001
001A6A	4780 8A96		01A96	2914	BZ	COMMAG3	02867001
001A6E	D501 DCB6	BD12 00CB6	02D12	2915	CLC	C(2),KF1+2	02868001
001A74	4770 8A84		01A84	2916	BNE	COMMAJ2	02869001
001A78	4320 DCD5		00CD5	2917	IC	R2,D	02870001
001A7C	4120 2001	00001		2918	LA	R2,1(,R2)	02871001
001A80	4220 DCD5		00CD5	2919	STC	R2,D	02872001
001A84	45C0 598C		0098C	2920	COMMAJ2 BAL	R12,C0B	02873001
001A88	9225 3000	00000		2921	MVI	0(R3),XFCOMMA	02874001
001A8C	4130 3001		00001	2922	LA	R3,1(,R3)	02875001
001A90	4110 1001		00001	2923	LA	R1,1(,R1)	02876001
001A94	07FA			2924	BR	R10	02877001
				2925 *			02878001
001A96	D501 DCB6	BD0C 00CB6	02D0C	2926	COMMAG3 CLC	C(2),KF0	02879001
001A9C	4780 8A78		01A78	2927	BE	COMMAH2	02880001
001AA0	47F0 8A84		01A84	2928	B	COMMAJ2	02881001
				2929 *			02882001
				2930 *		COLONLST	02883001
				2931 *			02884001
				2932 *		CORRECT ONLY FOR AN ARRAY LIST	02885001
				2933 *			02886001
001AA4	9108 DD8E	00D8E		2934	COLONLST TM	BITS1,X'08'	02887001
001AA8	4780 570A		0070A	2935	BZ	ERROR3	02888001
001AAC	45C0 598C		0098C	2936	BAL	R12,C0B	02889001
001AB0	9207 3000	00000		2937	MVI	0(R3),XFCOLON	02890001
001AB4	4130 3001		00001	2938	LA	R3,1(,R3)	02891001
001AB8	4110 1001		00001	2939	LA	R1,1(,R1)	02892001
001ABC	07FA			2940	BR	R10	02893001
				2941 *			02894001
				2942 *		SEMCLST	02895001
				2943 *			02896001
				2944 *		IS ONLY VALID FOR AN SWITCH IN WHICH CASE INDICATES	02897001
				2945 *		THE END OF THE SWITCH LIST	02898001
				2946 *		THE NUMBER OF COMPONENTS IS INSERTED IN THE INTERNAL	02899001
				2947 *		NAME	02900001
				2948 *		EXIT IS TO ENDLIST	02901001
				2949 *			02902001
001ABE	9108 DD8E	00D8E		2950	SEMCLST TM	BITS1,X'08'	02903001
001AC2	4710 8AF4		01AF4	2951	BO	SEMCLER	02904001
				2952 *			02905001
				2953 *		END OF SWITCH HANDLING	02906001
				2954 *			02907001
001AC6	9510 DCD5	00CD5		2955	CLI	D,16	02908001
001ACA	4740 8AD8		01AD8	2956	BL	SEMCLAA	02909001
001ACE	4560 56CC		006CC	2957	BAL	R6,ERR2	02910001
				2958 *			02911001
001AD2	0021			2959	DC	X'0021'	02912001
				2960 *			02913001
001AD4	47F0 5728		00728	2961	B	COMPFIN	02914001
				2962 *			02915001
001AD8	5870 DD68	00D68		2963	SEMCLAA L	R7,AITL	02916001
001ADC	1B66			2964	SR	R6,R6	02917001
001ADE	4360 DCD5		00CD5	2965	IC	R6,D	02918001
001AE2	8B60 0004		00004	2966	SLA	R6,4	02919001
001AE6	4260 DCD5		00CD5	2967	STC	R6,D	02920001
001AEA	D300 7009	DCD5 00009	00CD5	2968	MVZ	9(1,R7),D	02921001
001AF0	47F0 8C06		01C06	2969	B	ENDLIST	02922001
				2970 *			02923001
				2971 *		SEMCLER	02924001
				2972 *			02925001
				2973 *		ENTERED IF A SEMICOLON IS FOUND IN AN ARRAY LIST	02926001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
				2974 *		GIVES E32, CLEAR THE ITAB ENTRY SETS THE ARBIT OFF,			02927001
				2975 *		DELTABIT ON AND RETURNS TO TEST VIA SEMCO			02928001
				2976 *					02929001
001AF4	4560 56CC		006CC	2977 SEMCLER	BAL	R6,ERR2			02930001
				2978 *					02931001
001AF8	0020			2979	DC	X'0020'	E32		02932001
				2980 *					02933001
001AFA	58F0 DD68		00D68	2981	L	R15,AITL			02934001
001AFE	45C0 5962		00962	2982	BAL	R12,ITABCLEC	CLEAR THE ENTRY		02935001
001B02	9620 DD8E	00D8E		2983	OI	BITS1,X'20'	DELTABIT ON		02936001
001B06	94F7 DD8E	00D8E		2984	NI	BITS1,X'F7'	ARRAYBIT OFF		02937001
001B0A	47F0 55D4		005D4	2985	B	SEMCO	RETURN TO SEMCO, WILL RESET R10		02938001
				2986 *					02939001
				2987 *		SLASHLST			02940001
				2988 *					02941001
				2989 *		CHECKS IF NEXT CHARACTER IS A RIGHT PARENTHESIS			02942001
				2990 *		IT IS NOT MOVES OUT A SLASH			02943001
				2991 *		IF IT IS MOVES OUT A RIGHT SQUARE BRACKET			02944001
				2992 *		DECREASES THE PARENTHESIS COUNT			02945001
				2993 *		RETURNS TO LIST IF EITHER AN SWITCH LIST IS PROCESSED			02946001
				2994 *		OR THE PARENTHESIS COUNT NOT IS 0			02947001
				2995 *					02948001
001B0E	9528 1000	00000		2996 SLASHLST	CLI	0(R1),XFRSQBR	RIGHT SQUARE BRACKET ON ENTRY ?		02949001
001B12	4780 8B22		01B22	2997	BE	SLASHRSB	YES, BRANCH		02950001
001B16	4110 1001		00001	2998	LA	R1,1(,R1)	GET NEXT CHAR		02951001
001B1A	9526 1000	00000		2999	CLI	0(R1),XFRBRAC	RIGHT BRACKET ?		02952001
001B1E	4770 8B96		01B96	3000	BNE	SLASHSE	NO SOMETHING ELSE		02953001
001B22	45C0 598C		0098C	3001 SLASHRSB	BAL	R12,COB	CHECK IF O/P AREA FILLED		02954001
001B26	9228 3000	00000		3002	MVI	0(R3),XFRSQBR	TRANSFER A RIGHT SQUARE BRACKET		02955001
001B2A	4130 3001		00001	3003	LA	R3,1(,R3)			02956001
001B2E	4110 1001		00001	3004	LA	R1,1(,R1)			02957001
001B32	4860 DCB6		00CB6	3005	LH	R6,C	DECREASE PARENTHESIS COUNT		02958001
001B36	0660			3006	BCTR	R6,0			02959001
001B38	4060 DCB6		00CB6	3007	STH	R6,C			02960001
001B3C	9108 DD8E	00D8E		3008	TM	BITS1,X'08'	ARBIT = 1 ?		02961001
001B40	4780 A000		00000	3009	BZ	0(,R10)	NO, RETURN		02962001
001B44	D501 DCB6	BD0C 00CB6	02D0C	3010	CLC	C(2),KF0	C=0 ?		02963001
001B4A	4770 A000		00000	3011	BNE	0(,R10)	NO, RETURN		02964001
				3012 *					02965001
				3013 *		ARRAY END HANDLING			02966001
				3014 *					02967001
				3015 *		INSERT THE DIMENSION COUNTERS IN THE INTERNAL NAME OR			02968001
				3016 *		NAMES IF MORE THAN ONE ARRAY WITH THE SAME DIMENSIONS			02969001
				3017 *					02970001
				3018 *		IF A COMMA FOLLOWS THE CHARACTERISTICS AND THE PBN IS			02971001
				3019 *		COPIED AND THE NEXT ARRAY NAME IS HANDLED			02972001
				3020 *		IF A SEMICOLON FOLLOWS ENDLIST IS ACTIVATED			02973001
				3021 *					02974001
001B4E	4320 DCD5		00CD5	3022	IC	R2,D			02975001
001B52	9510 DCD5	00CD5		3023	CLI	D,16	MORE THAN 16 DIMENSIONS ?		02976001
001B56	4740 8B64		01B64	3024	BL	SLASHLAA			02977001
001B5A	4560 56CC		006CC	3025	BAL	R6,ERR2			02978001
				3026 *					02979001
001B5E	0021			3027	DC	X'0021'	E00		02980001
				3028 *					02981001
001B60	47F0 5728		00728	3029	B	COMPFIN			02982001
				3030 *					02983001
001B64	8B20 0004		00004	3031 SLASHLAA	SLA	R2,4	SHIFT DIMENSION COUNTER		02984001
001B68	4220 DCD5		00CD5	3032	STC	R2,D			02985001
001B6C	5860 DD5C		00D5C	3033 SLASHREP	L	R6,DIM			02986001
001B70	D300 6000	DCD5 00000	00CD5	3034	MVZ	0(1,R6),D	INSERT DIMENSION COUNTER		02987001
001B76	4160 600B		0000B	3035	LA	R6,11(,R6)	INCREASE DIM POINTER		02988001
001B7A	5060 DD5C		00D5C	3036	ST	R6,DIM			02989001
001B7E	43C0 DD86		00D86	3037	IC	R12,N	DECREASE		02990001
001B82	06C0			3038	BCTR	R12,0	REP DECLARATION COUNTER		02991001
001B84	42C0 DD86		00D86	3039	STC	R12,N			02992001
001B88	D500 DD86	BD0C 00D86	02D0C	3040	CLC	N(1),KF0	ZERO ?		02993001
001B8E	4770 8B6C		01B6C	3041	BNE	SLASHREP	NO, INSERT DIM IN NEXT		02994001
001B92	47F0 8BC0		01BC0	3042	B	SLASHEND+4	ITAB ENTRY		02995001
				3043 *					02996001
001B96	952B 1000	00000		3044 SLASHSE	CLI	0(R1),XFBANK	BLANK ?		02997001
001B9A	4780 8B0E		01B0E	3045	BE	SLASHLST			02998001
001B9E	952F 1000	00000		3046	CLI	0(R1),XFZETA	ZETA ?		02999001
001BA2	4770 8BAE		01BAE	3047	BNE	SLASHLBB			03000001
001BA6	4190 8B12		01B12	3048	LA	R9,SLASHLST+4			03001001
001BAA	47F0 5A28		00A28	3049	B	CIB			03002001
				3050 *					03003001
001BAE	45C0 598C		0098C	3051 SLASHLBB	BAL	R12,COB	CHECK IF O/P AREA FILLED		03004001
001BB2	9203 3000	00000		3052	MVI	0(R3),XFSLASH	MOVE IN A SLASH		03005001
001BB6	4130 3001		00001	3053	LA	R3,1(,R3)			03006001
001BBA	07FA			3054	BR	R10			03007001
				3055 *					03008001
001BBC	4110 1001		00001	3056 SLASHEND	LA	R1,1(,R1)	GET NEXT CHAR		03009001
001BC0	9525 1000	00000		3057	CLI	0(R1),XFCCOMMA	COMMA ?		03010001
001BC4	4770 8BE6		01BE6	3058	BNE	SLSHENSE	NO SOMETHING ELSE		03011001
001BC8	45C0 598C		0098C	3059	BAL	R12,COB	CHECK IF O/P AREA FILLED		03012001
001BCC	9225 3000	00000		3060	MVI	0(R3),XFCCOMMA	MOVE IN A COMMA		03013001
001BD0	4130 3001		00001	3061	LA	R3,1(,R3)			03014001
001BD4	5890 DD68		00D68	3062	L	R9,AITL	SAVE AITL		03015001
001BD8	45C0 595A		0095A	3063	BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY		03016001
001BDC	D202 F006	9006 00006	00006	3064	MVC	6(3,R15),6(R9)	COPY ID AND PBN FIELDS		03017001
001BE2	47F0 88AC		018AC	3065	B	ARRYNAME	GET NEXT NAME		03018001
				3066 *					03019001
001BE6	952B 1000	00000		3067 SLSENSE	CLI	0(R1),XFBANK	BLANK ?		03020001
001BEA	4780 8BBC		01BBC	3068	BE	SLASHEND			03021001
001BEE	952F 1000	00000		3069	CLI	0(R1),XFZETA	ZETA ?		03022001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
001BF2	4770 8BFE		01BFE	3070	BNE	SLASHLCC	03023001
001BF6	4190 8BC0		01BC0	3071	LA	R9,SLASHEND+4	03024001
001BFA	47F0 5A28		00A28	3072	B	CIB	03025001
				3073	*		03026001
001BFE	4160 8C1A		01C1A	3074	SLASHLCC LA	R6,SLASHERR	03027001
001C02	45C0 5912		00912	3075	BAL	R12,FINDSEMC	03028001
				3076	*		03029001
				3077	*	ENDLIST	03030001
				3078	*		03031001
				3079	*	SETS DELTABIT TO ONE, ARBIT TO ZERO, CLEARS NEXT ITABENTRY	03032001
				3080	*		03033001
				3081	*	RESETS THE RETUN REGISTER TO TEST	03034001
				3082	*	RETURNS TO TESTLOOP VIA SEMCO	03035001
				3083	*		03036001
001C06	9620 DD8E	00D8E		3084	ENDLIST OI	BITS1,X'20'	03037001
001C0A	94F7 DD8E	00D8E		3085	NI	BITS1,X'F7'	03038001
001C0E	45C0 595A		0095A	3086	BAL	R12,ITABCLEA	03039001
001C12	41A0 5174		00174	3087	LA	R10,TESTLOOP	03040001
001C16	47F0 55D4		005D4	3088	B	SEMCO	03041001
				3089	*		03042001
001C1A	4560 56CC		006CC	3090	SLASHERR BAL	R6,ERR2	03043001
				3091	*		03044001
001C1E	0022			3092	DC	X'0022'	03045001
				3093	*		03046001
001C20	45C0 595A		0095A	3094	BAL	R12,ITABCLEA	03047001
001C24	47F0 8904		01904	3095	B	ARYEXITA	03048001
				3096	*		03049001
				3097	*	SWITCH	03050001
				3098	*		03051001
				3099	*	TESTS ON PROBIT (SPECIFICATION) AND BEGBIT (PROGRAM	03052001
				3100	*	BLOCK HEAD)	03053001
				3101	*	INSERTS CHARACTERISTICS AND PBN IN INTERNAL NAME	03054001
				3102	*	INCREASES AND INSERTS LABELNUMBER LN	03055001
				3103	*	MOVES 0A SWITCH TO OUTPUT	03056001
				3104	*	SETS ARBIT TO ZERO	03057001
				3105	*	CHECKS THE NAME FOR VALIDITY AND MOVES FIRST 6	03058001
				3106	*	CHARACTERS TO OUTPUT AND ITAB VIA IDCHECK	03059001
				3107	*	SEARCHES FOR ASSIGN TO FOLLOW THE SWITCHNAME	03060001
				3108	*	INITIALIZES C PARENTHESIS COUNT AND D DIMENSION COUNT	03061001
				3109	*	WITH ZERO AND N WITH ONE	03062001
				3110	*	EXITS TO LIST	03063001
				3111	*		03064001
001C28	9140 DD8E	00D8E		3112	SWITCH	TM BITS1,X'40'	03065001
001C2C	4710 86A4		016A4	3113	BO	SPECENT	03066001
001C30	9180 DD8E	00D8E		3114	TM	BITS1,X'80'	03067001
001C34	4780 8C44		01C44	3115	BZ	SWITCHAA	03068001
001C38	5090 BDC8		02DC8	3116	ST	R9,SAVE1	03069001
001C3C	4590 5DCC		00DCC	3117	BAL	R9,BEG1	03070001
001C40	5890 BDC8		02DC8	3118	L	R9,SAVE1	03071001
001C44	58F0 DD68		00D68	3119	SWITCHAA L	R15,AITL	03072001
001C48	92CC F006	00006		3120	MVI	6(R15),X'CC'	03073001
001C4C	920C F007	00007		3121	MVI	7(R15),X'0C'	03074001
001C50	58C0 DD70		00D70	3122	L	R12,LPBP	03075001
001C54	D200 F008	C00A 00008	0000A	3123	MVC	8(1,R15),10(R12)	03076001
001C5A	48C0 D0A2		000A2	3124	LH	R12,LN	03077001
001C5E	41C0 C004		00004	3125	LA	R12,4(,R12)	03078001
001C62	D501 D0A2	BD58 000A2	02D58	3126	CLC	LN(2),KH4096	03079001
001C68	4740 8C76		01C76	3127	BL	SWITCHBB	03080001
001C6C	4560 578A		0078A	3128	BAL	R6,ERR7	03081001
				3129	*		03082001
001C70	04D8			3130	DC	X'04D8'	03083001
				3131	*		03084001
001C72	41C0 006C		0006C	3132	LA	R12,LATBEG	03085001
001C76	40C0 D0A2		000A2	3133	SWITCHBB STH	R12,LN	03086001
001C7A	D201 F009	D0A2 00009	000A2	3134	MVC	9(2,R15),LN	03087001
001C80	45C0 598C		0098C	3135	BAL	R12,COB	03088001
001C84	920A 3000		00000	3136	MVI	0(R3),X'0A'	03089001
001C88	4130 3001		00001	3137	LA	R3,1(R3)	03090001
001C8C	94F7 DD8E		00D8E	3138	NI	BITS1,X'F7'	03091001
001C90	4110 1001		00001	3139	SWITCHB3 LA	R1,1(,R1)	03092001
001C94	9539 1000		00000	3140	CLI	0(R1),XF9	03093001
001C98	4740 8D2A		01D2A	3141	BL	SWTCHNSE	03094001
001C9C	4560 58B4		008B4	3142	BAL	R6,IDCHECK1	03095001
001CA0	952B 1000		00000	3143	SWITCHSE CLI	0(R1),XFBANK	03096001
001CA4	4780 58D8		008D8	3144	BE	IDCHECK2	03097001
001CA8	9507 1000		00000	3145	CLI	0(R1),XFCOLON	03098001
001CAC	4780 8CE4		01CE4	3146	BE	SWCOLON	03099001
001CB0	952D 1000		00000	3147	CLI	0(R1),XFPERIOD	03100001
001CB4	4770 8D4C		01D4C	3148	BNE	SWITCHER	03101001
001CB8	4110 1001		00001	3149	SWPOINT LA	R1,1(,R1)	03102001
001CBC	952D 1000		00000	3150	CLI	0(R1),XFPERIOD	03103001
001CC0	4780 8CE4		01CE4	3151	BE	SWCOLON	03104001
001CC4	9510 1000		00000	3152	CLI	0(R1),XFEQUAL	03105001
001CC8	4780 8D08		01D08	3153	BE	EQUALOK	03106001
001CCC	952B 1000		00000	3154	CLI	0(R1),XFBANK	03107001
001CD0	4780 8CB8		01CB8	3155	BE	SWPOINT	03108001
001CD4	952F 1000		00000	3156	CLI	0(R1),XFZETA	03109001
001CD8	4770 8D4C		01D4C	3157	BNE	SWITCHER	03110001
001CDC	4190 8CBC		01CBC	3158	LA	R9,SWPOINT+4	03111001
001CE0	47F0 5A28		00A28	3159	B	CIB	03112001
				3160	*		03113001
001CE4	4110 1001		00001	3161	SWCOLON LA	R1,1(,R1)	03114001
001CE8	9510 1000		00000	3162	CLI	0(R1),XFEQUAL	03115001
001CEC	4780 8D08		01D08	3163	BE	EQUALOK	03116001
001CF0	952B 1000		00000	3164	CLI	0(R1),XFBANK	03117001
001CF4	4780 8CE4		01CE4	3165	BE	SWCOLON	03118001



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001CF8	952F 1000	00000		3166	CLI	0(R1),XFZETA	ZETA ? 03119001
001CFC	4770 8D4C		01D4C	3167	BNE	SWITCHER	03120001
001D00	4190 8CE8		01CE8	3168	LA	R9,SWCOLON+4	03121001
001D04	47F0 5A28		00A28	3169	B	CIB	03122001
				3170	*		03123001
001D08	45C0 598C		0098C	3171	EQUALOK	R12,C0B	CHECK IF O/P AREA FILLED 03124001
001D0C	9216 3000	00000		3172	MVI	0(R3),XFASSIGN	MOVE IN ASSIGNMENT 03125001
001D10	4130 3001		00001	3173	LA	R3,1(,R3)	INCREASE O/P POINTER 03126001
001D14	1B66			3174	SR	R6,R6	03127001
001D16	4060 DCB6		00CB6	3175	STH	R6,C	C=0 03128001
001D1A	9201 DD86		00D86	3176	MVI	N,X'01'	N=1 03129001
001D1E	4260 DCD5		00CD5	3177	STC	R6,D	D=0 03130001
001D22	4110 1001		00001	3178	LA	R1,1(,R1)	GET NEXT CHAR 03131001
001D26	47F0 89C4		019C4	3179	B	LIST	GO TO PROCESS LIST 03132001
				3180	*		03133001
001D2A	952B 1000	00000		3181	SWTCHNSE	CLI 0(R1),XFBANK	BLANK ? 03134001
001D2E	4780 8C90		01C90	3182	BE	SWTCHB3	03135001
001D32	952F 1000	00000		3183	CLI	0(R1),XFZETA	ZETA ? 03136001
001D36	4770 8D42		01D42	3184	BNE	SWTCHNAA	03137001
001D3A	4190 8C94		01C94	3185	LA	R9,SWTCHB3+4	03138001
001D3E	47F0 5A28		00A28	3186	B	CIB	03139001
				3187	*		03140001
001D42	4560 578A		0078A	3188	SWTCHNAA	BAL R6,ERR7	03141001
				3189	*		03142001
001D46	0405			3190	DC	X'0405'	E5 03143001
				3191	*		03144001
001D48	47F0 8D5E		01D5E	3192	B	SWTCHNBB	03145001
				3193	*		03146001
001D4C	4560 56CC		006CC	3194	SWITCHER	BAL R6,ERR2	03147001
				3195	*		03148001
001D50	0010			3196	DC	X'0010'	E16 03149001
				3197	*		03150001
001D52	45C0 598C		0098C	3198	BAL	R12,C0B	03151001
001D56	923D 3000	00000		3199	MVI	0(R3),X'3D'	MOVE IN RHA 03152001
001D5A	4130 3001		00001	3200	LA	R3,1(,R3)	03153001
001D5E	5860 DD68		00D68	3201	SWTCHNBB	L R6,AITL	CLEAR ITAB-ENTRY 03154001
001D62	9200 6000	00000		3202	MVI	0(R6),0	03155001
001D66	D209 6001	6000 00001	00000	3203	MVC	1(10,R6),0(R6)	03156001
001D6C	47F0 8324		01324	3204	B	COMERR	COM-PRGM ERROR-ENTRY 03157001
				3205	*		03158001
				3206	*	STRING	03159001
				3207	*		03160001
				3208	*	MOVES INTERNAL NAME TO OUTPUT	03161001
				3209	*		03162001
				3210	*	START ADDR IS IN PRPT THE STRINGS TWO FIRST BYTES	03163001
				3211	*	SPECIFIES ITS LENGTH THE TRT TESTS ONLY FOR APOSTROPHE	03164001
				3212	*	AND ZETA	03165001
				3213	*		03166001
				3214	*	NOTE -	03167001
				3215	*	THE STRING IS TAKEN FROM THE PRINT AREA (OR DUMMY) AND	03168001
				3216	*	MOVED TO KOPOOL TO CAPTURE THE STRING IN EBCDIC	03169001
				3217	*		03170001
001D70	4100 3006		00006	3218	STRING	LA R0,6(,R3)	PROVIDE 6 BYTES IN O/P 03171001
001D74	45C0 5982		00982	3219	BAL	R12,C0BSPEC	03172001
001D78	D203 3000	8EDC 00000	01EDC	3220	MVC	0(4,R3),SINT	MOVE FIRST 4 BYTES OF INTERNAL 03173001
001D7E	D201 3004	D0A6 00004	000A6	3221	MVC	4(2,R3),PRPT+2	NAME AND LAST TWO BYTES IN O/P 03174001
001D84	4130 3006		00006	3222	LA	R3,6(,R3)	03175001
001D88	58E0 D0A4		000A4	3223	L	R14,PRPT	GET CURRENT DISP WITHIN KOPOOL 03176001
001D8C	41E0 E002		00002	3224	LA	R14,2(,R14)	INCREASE FOR LEN SPECIFICATION 03177001
001D90	59E0 BD54		02D54	3225	C	R14,KF4095	STRING POOL OVERFLOW ? 03178001
001D94	47D0 8D9C		01D9C	3226	BNH	STRAAA	03179001
001D98	45C0 8EB2		01EB2	3227	BAL	R12,E23	03180001
001D9C	4110 1001		00001	3228	STRAAA	LA R1,1(,R1)	03181001
001DA0	D203 8ED8	BD10 01ED8	02D10	3229	MVC	SQC,KF1	STRINQUOTE=1 03182001
001DA6	4190 8DA6		01DA6	3230	CDE2	LA R9,*	PROVIDE RETURN ADDR FOR CIB 03183001
001DAA	1841			3231	LR	R4,R1	03184001
001DAC	1B22			3232	SR	R2,R2	03185001
001DAE	DD48 1000	BB90 00000	02B90	3233	TRT	0(73,R1),STRTABLE	SCAN STRING 03186001
001DB4	1871			3234	LR	R7,R1	COMPUTE NUMBER OF SCANNED BYTES 03187001
001DB6	1B74			3235	SR	R7,R4	03188001
001DB8	4780 8DEE		01DEE	3236	BZ	SROUT	03189001
001DBC	4107 E000		00000	3237	LA	R0,0(R7,R14)	STRINGPOOL OVERFLOW ? 03190001
001DC0	5900 BD54		02D54	3238	C	R0,KF4095	03191001
001DC4	47D0 8DCC		01DCC	3239	BNH	STRBBB	03192001
001DC8	45C0 8EB2		01EB2	3240	BAL	R12,E23	03193001
001DCC	0670			3241	STRBBB	BCTR R7,0	MOVE SCANNED BYTES TO KOPOOL 03194001
001DCE	5860 DD54		00D54	3242	L	R6,AKOPOOL	03195001
001DD2	41F6 E000		00000	3243	LA	R15,0(R6,R14)	COMPUTE NEW KOPOOL ADDR 03196001
001DD6	4100 DCF3		00CF3	3244	LA	R0,WA	COMPUTE ADDR 03197001
001DDA	18C4			3245	LR	R12,R4	OF STRING IN 03198001
001DDC	1B00			3246	SR	R12,R0	PRINT BUFFER 03199001
001DDE	5860 DD44		00D44	3247	L	R6,APRNTAR	R6 -> PRINT BUFFER 03200001
001DE2	41C6 C00A		0000A	3248	LA	R12,10(R6,R12)	GET STRING FROM PRINT BUFFER 03201001
001DE6	4470 8ECA		01ECA	3249	EX	R7,MV1	03202001
001DEA	41E7 E001		00001	3250	LA	R14,1(R7,R14)	INCREASE PRPT 03203001
001DEE	58C2 B6C4		026C4	3251	SROUT	L R12,BPRTAB(R2)	BRANCH TO APPROPRIATE 03204001
001DF2	07FC			3252	BR	R12	SUBROUTINE 03205001
				3253	*		03206001
				3254	*	QUOTE	03207001
				3255	*		03208001
				3256	*	CHECKS IF THE APOSTROPHE IS THE START OF A QUOTE SIGN	03209001
				3257	*		03210001
				3258	*	USES REPL TO MOVE THE FOUND CHARACTER(S) TO KOPOOL	03211001
				3259	*	REPL+1 WILL BE A LEFT OR RIGHT PARENTHESIS	03212001
				3260	*	HOW MUCH OF REPL THAT IS TO BE MOVED TO KOPOOL IS KEPT	03213001
				3261	*	TRACK OF IN R7	03214001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
				3262	*	IF A COMPLETE LEFT STRING QUOTE IS FOUND THE STRING		03215001
				3263	*	QUOTE COUNTER IS INCREASED AND THE REPL MOVED TO		03216001
				3264	*	KOPOOL		03217001
				3265	*	IF A COMPLETE RIGHT STRING QUOTE IS FOUND IT IS CHECKED		03218001
				3266	*	IF IT IS THE CLOSING ONE FOR THE STRING (SQC=0) IF IT		03219001
				3267	*	IS ENDSTRING IS ACTIVATED IF NOT REPL IS MOVED TO KOPOOL		03220001
				3268	*	AFTER SQC IS DECREASED		03221001
				3269	*	IF NO COMPLETE QUOTE IS FOUND THE CHARACTER(S) FOUND		03222001
				3270	*	ARE MOVED TO KOPOOL FROM REPL, LENGTH SPECIFIED BY R7		03223001
				3271	*	AND THE SCANNING OF THE STRING IS REASSUMED		03224001
				3272	*			03225001
001DF4	4110 1001		00001	3273	QUOTE	LA R1,1(,R1)		03226001
001DF8	4190 8DFC		01DFC	3274		LA R9,*+4		03227001
001DFC	9526 1000	00000		3275	CLI	0(R1),XFRBRAC	RIGHT BRACKET IN SOURCE ?	03228001
001E00	4770 8E0C		01E0C	3276	BNE	NORIP	NO, BRANCH	03229001
001E04	925D 8EE1	01EE1		3277	MVI	REPL+1,C')'	MAKE REPL A RIGHT STRING QUOTE	03230001
001E08	47F0 8E2C		01E2C	3278	B	TESTAPOS	LOOK FOR APOSTROPHE	03231001
				3279	*			03232001
001E0C	9506 1000	00000		3280	NORIP	CLI 0(R1),XFLBRAC	LEFT BRACKET ?	03233001
001E10	4770 8E1C		01E1C	3281	BNE	TESTZETA	NO	03234001
001E14	924D 8EE1	01EE1		3282	MVI	REPL+1,C'('	MAKE REPL A LEFT STRING QUOTE	03235001
001E18	47F0 8E2C		01E2C	3283	B	TESTAPOS	LOOK FOR APOSTROPHE	03236001
				3284	*			03237001
001E1C	952F 1000	00000		3285	TESTZETA	CLI 0(R1),XFZETA	ZETA ?	03238001
001E20	4780 5A28		00A28	3286	BE	CIB	YES	03239001
001E24	4170 0001		00001	3287	LA	R7,1	NO MOVE STRING ONLY FIRST QUOTE	03240001
001E28	47F0 8E74		01E74	3288	B	CID1	MOVE REPL	03241001
				3289	*			03242001
001E2C	4110 1001		00001	3290	TESTAPOS	LA R1,1(,R1)		03243001
001E30	4190 8E34		01E34	3291		LA R9,*+4	NEW RETURN FOR CIB	03244001
001E34	952E 1000	00000		3292	CLI	0(R1),XFQUOTE	SECOND QUOTE ?	03245001
001E38	4780 8E4C		01E4C	3293	BE	CID	YES	03246001
001E3C	952F 1000	00000		3294	CLI	0(R1),XFZETA	ZETA	03247001
001E40	4780 5A28		00A28	3295	BE	CIB	YES	03248001
001E44	4170 0002		00002	3296	LA	R7,2	NO, MOVE TO STRING ONLY FIRST	03249001
001E48	47F0 8E74		01E74	3297	B	CID1	QUOTE AND THE BRACKET	03250001
				3298	*			03251001
001E4C	4110 1001		00001	3299	CID	LA R1,1(,R1)		03252001
001E50	58C0 8ED8		01ED8	3300	L	R12,SQC		03253001
001E54	954D 8EE1	01EE1		3301	CLI	REPL+1,C'('	LEFT STRING QUOTE ?	03254001
001E58	4770 8E64		01E64	3302	BNE	CIDAA	NO	03255001
001E5C	41C0 C001		00001	3303	LA	R12,1(,R12)	YES, INCREASE STRING QUOTE COUNT	03256001
001E60	47F0 8E6C		01E6C	3304	B	CIDBB		03257001
				3305	*			03258001
001E64	58C0 BD10		02D10	3306	CIDAA	S R12,KF1	RIGHT QUOTE DECREASE QUOTE COUNT	03259001
001E68	47D0 8E9A		01E9A	3307	BNP	ENDSTRIN	BRANCH IF LAST QUOTE	03260001
001E6C	50C0 8ED8		01ED8	3308	CIDBB	ST R12,SQC		03261001
001E70	4170 0003		00003	3309		LA R7,3		03262001
001E74	4107 E000		00000	3310	CID1	LA R0,0(R7,R14)		03263001
001E78	5900 BD54		02D54	3311	C	R0,KF4095	STRING POOL OVERFLOW ?	03264001
001E7C	47D0 8E84		01E84	3312	BNH	CIDCC		03265001
001E80	45C0 8EB2		01EB2	3313	BAL	R12,E23		03266001
001E84	5860 DD54		00D54	3314	CIDCC	L R6,AKOPOOL		03267001
001E88	4166 E000		00000	3315		LA R6,0(R6,R14)	COMPUTE NEW KOPOOL ADDR	03268001
001E8C	0670			3316	BCTR	R7,0		03269001
001E8E	4470 8ED0		01ED0	3317	EX	R7,MV2	MOVE CONTENTS OF REPL TO KOPOOL	03270001
001E92	41E7 E001		00001	3318	LA	R14,1(R7,R14)	INCREASE PRPT	03271001
001E96	47F0 8DA6		01DA6	3319	B	CDE2	RESUME SCAN OF STRING	03272001
				3320	*			03273001
				3321	*	ENDSTRIN		03274001
				3322	*			03275001
				3323	*	INCREASES PRPT		03276001
				3324	*	PUTS THE LENGTH OF THE STRING (DIFFERENCE BETWEEN NEW		03277001
				3325	*	AND OLD PRPT) AS TWO FIRST BYTES IN THE STRING		03278001
				3326	*			03279001
001E9A	5890 D0A4		000A4	3327	ENDSTRIN	L R9,PRPT	COMPUTE LENGTH AND PUT IT	03280001
001E9E	40E0 D0A6		000A6	3328	STH	R14,PRPT+2	AS THE FIRST 2 BYTES IN STRING	03281001
001EA2	5860 DD54		00D54	3329	L	R6,AKOPOOL	AND	03282001
001EA6	41C6 9000		00000	3330	LA	R12,0(R6,R9)	STORE NEW DISPLACEMENT	03283001
001EAA	1BE9			3331	SR	R14,R9	IN PRPT	03284001
001EAC	BEE3 C000		00000	3332	STCM	R14,B'0011',0(R12)		03285001
001EB0	07FA			3333	BR	R10	RETURN TO TESTLOOP	03286001
				3334	*			03287001
001EB2	4700 8EBC		01EBC	3335	E23	NOP E23AA	NO BRANCH FIRST TIME	03288001
001EB6	4560 578A		0078A	3336	BAL	R6,ERR7	RECORD ERROR	03289001
				3337	*			03290001
001EBA	0417			3338		DC X'0417'	E23	03291001
				3339	*			03292001
001EBC	96F0 8EB3		01EB3	3340	E23AA	OI E23+1,X'F0'	NO ERROR RECORDING NEXT	03293001
001EC0	41E0 0040		00040	3341		LA R14,64		03294001
001EC4	50E0 D0A4		000A4	3342	ST	R14,PRPT	RESET PRPT TO 64 AGAIN	03295001
001EC8	07FC			3343	BR	R12	RESUME STRING PROCESSING	03296001
				3344	*			03297001
001ECA	D200 F000 C000	00000	00000	3345	MV1	MVC 0(1,R15),0(R12)		03298001
001ED0	D200 6000 8EE0	00000	01EE0	3346	MV2	MVC 0(1,R6),REPL		03299001
				3347	*			03300001
001ED6	0000							
001ED8	00000000			3348	SQC	DC F'0'	STRING QUOTE COUNTER (AFTER MV2	03301001
001EDC	2EC90000			3349	SINT	DC X'2EC90000'	STRING INTERNAL NAME OF	03302001
				3350	*		THE CONSTANT POOL NAMED KOPOOL	03303001
001EE0	7D407D			3351	REPL	DC C''' '''	BUCKET TO BUILD STRING QUOTES	03304001
				3352	*			03305001
				3353	*	TYPPROC		03306001
				3354	*			03307001
				3355	*	TEST PRO AND BEGBIT (FORMAL PARAMETER, BLOCKSTART)		03308001
				3356	*	MOVE PHI TO OUTPUT		03309001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				3357 *		INSERT CHARACTERISTICS IN INTERNAL NAME	03310001
				3358 *		JOIN PROCEDURE PROGRAM	03311001
				3359 *			03312001
001EE3	00						
001EE4	9140 DD8E	00D8E		3360	TYPPROC	TM BITS1,X'40'	PROCEDURE PROCDED ? 03313001
001EE8	4780 8EF8		01EF8	3361	BZ	TYPPROCA	NO 03314001
001EEC	92CA DCB8	00CB8		3362	MVI	KB,X'CA'	YES, MOVE IN IDFIELD 03315001
001EF0	96C0 DCB9	00CB9		3363	OI	KB+1,X'C0'	03316001
001EF4	47F0 86AE		016AE	3364	B	IDCHECK	03317001
				3365 *			03318001
001EF8	9180 DD8E	00D8E		3366	TYPPROCA	TM BITS1,X'80'	BEGBIT ON ? 03319001
001EFC	4780 8F0C		01F0C	3367	BZ	TYPPROC8	NO 03320001
001F00	5090 BDC8		02DC8	3368	ST	R9,SAVE1	03321001
001F04	4590 5DCC		00DCC	3369	BAL	R9,BEG1	GOTO PROCESS PROGRAM BLOCK HEAD 03322001
001F08	5890 BDC8		02DC8	3370	L	R9,SAVE1	03323001
001F0C	4100 3004		00004	3371	TYPPROC8	LA R0,4(R3)	PROVIDE FOUR BYTES IN OUTPUT 03324001
001F10	45C0 5982		00982	3372	BAL	R12,C0BSPEC	CHECK IF ENOUGH SPACE IN O/P 03325001
001F14	920F 3000	00000		3373	MVI	0(R3),X'0F'	MOVE PHI TO O/P 03326001
001F18	58F0 DD68		00D68	3374	L	R15,AITL	03327001
001F1C	97F0 F007	00007		3375	XI	7(R15),X'F0'	MOVE IN THE IDCODE 03328001
001F20	92CA F006	00006		3376	MVI	6(R15),X'CA'	TO ITAB 03329001
001F24	47F0 8F5C		01F5C	3377	B	PROCEAG1	JOIN THE PROCEDURE PROGRAM 03330001
				3378 *			03331001
				3379 *		PROCEDURE	03332001
				3380 *			03333001
				3381 *		TEST PRO AND BEGBIT	03334001
				3382 *		MOVE PI TO OUTPUT	03335001
				3383 *		INSERT CHARACTERISTICS IN INTERNAL NAME	03336001
				3384 *		TYPE PROCEDURE JOINS PROCEDURE PROGRAM AT THIS POINT	03337001
				3385 *		IF ALPHA IN STACK, PRECOMPILED PROCEDURE, THE STARTBIT	03338001
				3386 *		IS TURNED ON.	03339001
				3387 *		PROC IS PUT IN STACK.	03340001
				3388 *		PROGRAM BLOCK AND ITAB GROUP NUMBER ARE INCREASED.	03341001
				3389 *		THE NEW PBN IS INSERTED IN THE INTERNAL NAME.	03342001
				3390 *		LABELNUMBER IS INCREASED AND INSERTED IN THE INTERNAL	03343001
				3391 *		NAME.	03344001
				3392 *		THE SURROUNDING BLOCKNUMBER IS ENTERED IN PBTAB1.	03345001
				3393 *		THE SURROUNDING ITAB GROUP NUMBER IN GROUPTABLE	03346001
				3394 *		SEMCNT IS ENTERED IN SCTAB	03347001
				3395 *		PROBIT AND IDBIT ARE SET TO ONE	03348001
				3396 *		PROBIT WILL STAY AS ONE TILL THE WHOLE PROCEDURE HEAD	03349001
				3397 *		IS PROCESSED. THE IDBIT IS ONLY ONE WHILE THE PROCEDURE	03350001
				3398 *		NAME IS PROCESSED	03351001
				3399 *		THE FM (FORMAL PARAMETER) BIT IS ONE WHEN THE FORMAL	03352001
				3400 *		PARAMETER LIST IS PROCESSED	03353001
				3401 *		THE ITAB GROUP NUMBER IS MOVED TO O/P	03354001
				3402 *			03355001
001F28	9140 DD8E	00D8E		3403	PROCEDUR	TM BITS1,X'40'	PROBIT ON ? 03356001
001F2C	4710 86A4		016A4	3404	BO	SPECENT	YES, GOTO IDCHECK VIA SPECENT 03357001
001F30	9180 DD8E	00D8E		3405	TM	BITS1,X'80'	BEGBIT ON ? 03358001
001F34	4780 8F44		01F44	3406	BZ	PROCEDAA	NO 03359001
001F38	5090 BDC8		02DC8	3407	ST	R9,SAVE1	03360001
001F3C	4590 5DCC		00DCC	3408	BAL	R9,BEG1	GOTO PROCESS PROGRAM BLOCK HEAD 03361001
001F40	5890 BDC8		02DC8	3409	L	R9,SAVE1	03362001
001F44	4100 3004		00004	3410	PROCEDAA	LA R0,4(R3)	PROVIDE FOUR BYTES IN OUTPUT 03363001
001F48	45C0 5982		00982	3411	BAL	R12,C0BSPEC	03364001
001F4C	920E 3000	00000		3412	MVI	0(R3),X'0E'	TRANSFER PI IN OUTPUT BUFFER 03365001
001F50	58F0 DD68		00D68	3413	L	R15,AITL	03366001
001F54	92CA F006	00006		3414	MVI	6(R15),X'CA'	CONSTRUCT FIRST PART 03367001
001F58	92C0 F007	00007		3415	MVI	7(R15),X'C0'	INTERNAL NAME ? 03368001
001F5C	58E0 DCD8		00CD8	3416	PROCEAG1	L R14,SP	03369001
001F60	9500 E000	00000		3417	CLI	0(R14),0	ALPHA IN STACK ? 03370001
001F64	4770 8F70		01F70	3418	BNE	L3	03371001
001F68	9620 DD8F	00D8F		3419	OI	BITS2,X'20'	TURN ON THE STARTBIT 03372001
001F6C	9608 DD90	00D90		3420	OI	BITS3,PROCESD	03373001
001F70	41E0 E001	00001	L3	3421	LA	R14,1(R14)	INCREASE STACK POINTER 03374001
001F74	59E0 DD48		00D48	3422	C	R14,ATOPSTAK	STACK OVERFLOW ? 03375001
001F78	4740 8F82		01F82	3423	BL	L3AA	NO, BYPASS ERROR 03376001
001F7C	4560 5724		00724	3424	BAL	R6,ERR4	03377001
				3425 *			03378001
001F80	0414			3426	DC	X'0414'	E20 03379001
				3427 *			03380001
001F82	920C E000	00000		3428	L3AA	MVI 0(R14),X'0C'	PUT PROC IN STACK 03381001
001F86	50E0 DCD8		00CD8	3429	ST	R14,SP	03382001
001F8A	95FF DD84	00D84		3430	CLI	PBC,X'FF'	PBN OVERFLOW ? 03383001
001F8E	4770 8F98		01F98	3431	BNE	L3BB	NO 03384001
001F92	4560 5724		00724	3432	BAL	R6,ERR4	03385001
				3433 *			03386001
001F96	0416			3434	DC	X'0416'	E22 03387001
				3435 *			03388001
001F98	4320 DD84	00D84	L3BB	3436	IC	R2,PBC	03389001
001F9C	4120 2001	00001		3437	LA	R2,1(R2)	INCR PROGRAM BLOCK NUMBER 03390001
001FA0	4220 F008	00008		3438	STC	R2,8(R15)	INSERT PBN IN INTERVAL NAME 03391001
001FA4	4220 DD84	00D84		3439	STC	R2,PBC	03392001
001FA8	41E2 D478	00478		3440	LA	R14,PBTAB1(R2)	CONSTRUCTION 03393001
001FAC	5860 DD70	00D70		3441	L	R6,LPBP	PBTAB1-ENTRY 03394001
001FB0	D200 E000	600A 00000	0000A	3442	MVC	0(1,R14),10(R6)	03395001
001FB6	1A22			3443	AR	R2,R2	03396001
001FB8	41E2 8126		01126	3444	LA	R14,SCTAB(R2)	03397001
001FBC	D201 E000	D09C 00000	0009C	3445	MVC	0(2,R14),SEMCNT	MAKE ENTRY IN SCTAB 03398001
001FC2	48E0 D0A2	000A2		3446	LH	R14,LN	INCREASE 03399001
001FC6	41E0 E004	00004		3447	LA	R14,4(R14)	LABEL NUMBER BY 4 03400001
001FCA	D501 D0A2	BD58 000A2	02D58	3448	CLC	LN(2),KH4096	LN OVERFLOW ? 03401001
001FD0	4740 8FDE		01FDE	3449	BL	L3CC	03402001
001FD4	4560 578A		0078A	3450	BAL	R6,ERR7	03403001
				3451 *			03404001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.12
001FD8	04D8			3452	DC	X'04D8'	E216		03405001
				3453	*				03406001
001FDA	41E0 006C		0006C	3454	LA	R14,LATBEG	RESET LN		03407001
001FDE	40E0 D0A2		000A2	3455	STH	R14,LN			03408001
001FE2	58F0 DD68		00D68	3456	L	R15,AITL			03409001
001FE6	D201 F009 D0A2 00009		000A2	3457	MVC	9(2,R15),LN	PUT LN IN INTERNAL NAME		03410001
001FEC	48F0 DD4C		00D4C	3458	LH	R15,IGC	INCREASE		03411001
001FF0	41F0 F001		00001	3459	LA	R15,1(,R15)	ITAB GROUP NUMBER		03412001
001FF4	40F0 DD4C		00D4C	3460	STH	R15,IGC			03413001
001FF8	D201 3001 DD4C 00001		00D4C	3461	MVC	1(2,R3),IGC	INSERT IT IN OUTPUT BUFFER		03414001
001FFE	4130 3003		00003	3462	LA	R3,3(,R3)			03415001
002002	1AFF			3463	AR	R15,R15			03416001
002004	4AF0 DD4C		00D4C	3464	AH	R15,IGC			03417001
002008	5AF0 DD50		00D50	3465	A	R15,AGT			03418001
00200C	5870 DD6C		00D6C	3466	L	R7,LIGP			03419001
002010	D201 F000 7008 00000 00008		00008	3467	MVC	0(2,R15),8(R7)	CONSTRUCT ENTRY		03420001
002016	9200 F002		00002	3468	MVI	2(R15),0	IN GROUP TABLE		03421001
00201A	947F F000		00000	3469	NI	0(R15),X'7F'	CLEAR POSSIBLE PHI IND.		03422001
00201E	D203 DD60 BD0C 00D60 02D0C		00D60	3470	MVC	PRIMPAR(4),KF0	CLEAR PRIMPAR WITH ZEROS		03423001
002024	9650 DD8E		00D8E	3471	OI	BITS1,X'50'	PROBIT =1,IDBIT =1		03424001
002028	9200 DD8D		00D8D	3472	MVI	PZ,0	SET PARAMTER COUNT TO ZERO		03425001
				3473	*				03426001
				3474	*	PROCID			03427001
				3475	*				03428001
				3476	*	PROCESSES PROCEDURE NAME (IDBIT=1) AND THE FORMAL			03429001
				3477	*	PARAMETER LIST (IDBIT=0).			03430001
				3478	*	CHECKS THE NAMES FOR VALIDITY AND MOVES THEM TO ITAB			03431001
				3479	*	AND OUTPUT. THIS IS DONE VIA IDCHECK1.			03432001
				3480	*				03433001
00202C	4110 1001		00001	3481	PROCID	LA R1,1(,R1)			03434001
002030	9540 1000		00000	3482	CLI	0(R1),XFA	IDENTIFIER STARTS WITH LETTER ?		03435001
002034	4740 B10C		0210C	3483	BL	NOLETTER			03436001
002038	4560 58B4		008B4	3484	BAL	R6,IDCHECK1	CHECK AND MOVE IDENTIFIER		03437001
				3485	*		TO O/P AND ITAB		03438001
00203C	952B 1000		00000	3486	CLI	0(R1),XFLANK	BLANK ?		03439001
002040	4780 58D8		008D8	3487	BE	IDCHECK2			03440001
002044	9110 DD8E		00D8E	3488	TM	BITS1,X'10'	IDBIT ONE ?		03441001
002048	4780 B186		02186	3489	BZ	EDA1	GOTO PROCESS FORMAL PARAM NAME		03442001
				3490	*				03443001
				3491	*	PROCEDURE NAME			03444001
				3492	*				03445001
				3493	*	CHECKS IF NAME IS FOLLOWED BY A FORMAL PARAMETER LIST			03446001
				3494	*	FOLLOWS OR ; NO PARAMETERS.			03447001
				3495	*	CHECKS IF PROCEDURE IS TO BE PRECOMPILED, IF YES THE			03448001
				3496	*	NAME IN EXTERNAL FORM AND EXPANDED WITH TWO ZEROS IS PUT			03449001
				3497	*	FOR AN ESDCARD IF SYLIN OR DECK HAS BEEN SPECIFIED			03450001
				3498	*	THE NEW BLOCK ENTRY IS DONE IN ITAB			03451001
				3499	*	ADDR OF SURROUNDING BLOCK AND ITAB GROUP, PBN AND IGN			03452001
				3500	*	ARE INSERTED			03453001
				3501	*	IF TYPEPROCEDURE, BIT 0 IN BYTE 8 IS TURNED ON AND A			03454001
				3502	*	SECOND ENTRY OF THE NAME IS DONE AFTER THE HEAD ENTRY			03455001
				3503	*	IDBIT IS SET TO ZERO, FMBIT TO ONE			03456001
				3504	*	IF THE NAME WAS FOLLOWED BY A SEMICOLON THE SEMCO IS			03457001
				3505	*	ACTIVATED			03458001
				3506	*	IF THE NAME WAS FOLLOWED BY A (PROCID IS ACTIVATED TO			03459001
				3507	*	PROCESS THE NAME IN THE LIST			03460001
				3508	*				03461001
00204C	9506 1000		00000	3509	CLI	0(R1),XFLBRAC	IDENTIFIER FOLLOWED BY ) ?		03462001
002050	4780 B060		02060	3510	BE	EBF4			03463001
002054	4160 B130		02130	3511	LA	R6,ERROR16	RETURN IF NOT SEMICOLON		03464001
002058	45C0 5912		00912	3512	BAL	R12,FINDSEMC	SEMICOLON ?		03465001
00205C	9620 DD8E		00D8E	3513	OI	BITS1,X'20'	YES, DELTABIT = 1		03466001
002060	9108 DD90		00D90	3514	TM	BITS3,PROCESD			03467001
002064	4780 B084		02084	3515	BZ	DEL1	NO		03468001
002068	94F7 DD90		00D90	3516	NI	BITS3,PROCOFF			03469001
00206C	9160 D081		00081	3517	TM	COMPLGS+1,NLOAD+NDECK	DECK AND OR LOAD SPECIFIED ?		03470001
002070	4710 B084		02084	3518	BO	DEL1	NO, NO NEED FOR ESD CARD		03471001
002074	58F0 DD68		00D68	3519	L	R15,AITL			03472001
002078	D205 BD84 F000 02D84 00000		00000	3520	MVC	ESDNAME(6),0(R15)	MOVE IN AND		03473001
00207E	DC05 BD84 B92E 02D84 0292E		02D84	3521	TR	ESDNAME(6),TRINTEXT	TRANSLATE EXTERNAL NAME		03474001
002084	9120 DD8E		00D8E	3522	TM	BITS1,X'20'	DELTABIT = 1 ?		03475001
002088	4710 B098		02098	3523	BO	ECA3			03476001
00208C	45C0 598C		0098C	3524	BAL	R12,C0B	CHECK IF O/P AREA FILLED		03477001
002090	9206 3000		00000	3525	MVI	0(R3),XFLBRAC	INSERT )		03478001
002094	4130 3001		00001	3526	LA	R3,1(,R3)			03479001
002098	45C0 595A		0095A	3527	BAL	R12,ITABCLEA			03480001
00209C	D203 F000 DD6C 00000 00D6C		00D6C	3528	MVC	0(4,R15),LIGP	MOVE ADDR HEADING ENTRY OF		03481001
				3529	*		EMBRACING ITAB GROUP		03482001
0020A2	D203 F004 DD70 00004 00D70		00D70	3530	MVC	4(4,R15),LPBP	AND PBLOCK TO ENTRY		03483001
0020A8	D201 F008 DD4C 00008 00D4C		00D4C	3531	MVC	8(2,R15),IGC	INSERT CURRENT IGN		03484001
0020AE	D200 F00A DD84 0000A 00D84		00D84	3532	MVC	10(1,R15),PBC	AND CURRENT PBN		03485001
0020B4	50F0 DD6C		00D6C	3533	ST	R15,LIGP	NEW VALUE OF LIGP		03486001
0020B8	50F0 DD70		00D70	3534	ST	R15,LPBP	AND LPBP		03487001
0020BC	58F0 BD38		00D38	3535	S	R15,KF11	DECREASE R15 BY 11		03488001
0020C0	9103 F007		00007	3536	TM	7(R15),X'03'	TYPE PROCEDURE ?		03489001
0020C4	4770 B0E4		020E4	3537	BNZ	TPROHEAD			03490001
0020C8	41F0 F016		00016	3538	LA	R15,22(,R15)	IF NO INCREASE ITAB POINTER		03491001
0020CC	45C0 5962		00962	3539	BAL	R12,ITABCLEC			03492001
0020D0	9640 DD90		00D90	3540	OI	BITS3,FMBIT	FMBIT		03493001
0020D4	9120 DD8E		00D8E	3541	TM	BITS1,X'20'	DELTABIT = 1 ?		03494001
0020D8	4710 55D4		005D4	3542	BO	SEMCO	YES, BRANCH TO SEMICOLON PROGRAM		03495001
0020DC	94EF DD8E		00D8E	3543	NI	BITS1,X'EF'	IDBIT'= 0		03496001
0020E0	47F0 B02C		0202C	3544	B	PROCID	CHECK NEXT IDENTIFIER		03497001
				3545	*				03498001
				3546	*	CONSTRUCT TYPE PROCEDURE ENTRIES			03499001
				3547	*				03500001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
0020E4	9680 F013		00013	3548	TPROHEAD	OI 19(R15),X'80'	FLAGBIT IN IGN IS SET ON	03501001
0020E8	4100 F016		00016	3549	LA	R0,22(,R15)	ONE MORE ENTRY IN ITAB AVAIL	03502001
0020EC	5900 DCC8		00CC8	3550	C	R0,ELI		03503001
0020F0	4770 B0FA		020FA	3551	BNE	TPROHEAA		03504001
0020F4	4560 5724		00724	3552	BAL	R6,ERR4		03505001
				3553	*			03506001
0020F8	04D5			3554	DC	X'04D5'	E213	03507001
				3555	*			03508001
0020FA	D20A F016	F000	00016	00000	3556	TPROHEAA MVC	22(11,R15),0(R15)	ENTER PROCEDURE NAME ONCE MORE
002100	9708 F01C		0001C	3557	XI	28(R15),X'08'	NO-ASSIGNMENTBIT IS SWITCHED OFF	03510001
002104	41F0 F021		00021	3558	LA	R15,33(,R15)	INCREASE ITAB POINTER	03511001
002108	47F0 B0CC		020CC	3559	B	ECJ3	BRANCH BACK TO MAIN PROGRAM	03512001
				3560	*			03513001
00210C	952B 1000		00000	3561	NOLETTER	CLI 0(R1),XFBLANK	BLANK INSTEAD OF LETTER ?	03514001
002110	4780 B02C		0202C	3562	BE	PROCID		03515001
002114	4190 B030		02030	3563	LA	R9,PROCID+4		03516001
002118	952F 1000		00000	3564	CLI	0(R1),XFZETA	ZETA ?	03517001
00211C	4780 5A28		00A28	3565	BE	CIB	CHANGE INPUT BUFFER	03518001
002120	9110 DD8E		00D8E	3566	TM	BITS1,X'10'		03519001
002124	4710 B14C		0214C	3567	BO	ERROR16A		03520001
002128	41F0 B02C		0202C	3568	LA	R15,PROCID	LOAD RETURN ADDR	03521001
00212C	47F0 8588		01588	3569	B	IERSPEC	BRANCH TO IDENTIFIER ERROR RTN	03522001
				3570	*			03523001
002130	45C0 598C		0098C	3571	ERROR16	BAL R12,COB		03524001
002134	923D 3000		00000	3572	MVI	0(R3),X'3D'	MOVE IN RHA	03525001
002138	4130 3001		00001	3573	LA	R3,1(,R3)		03526001
00213C	9110 DD8E		00D8E	3574	TM	BITS1,X'10'	PROC NAME UNDER PROCESS ?	03527001
002140	4710 B156		02156	3575	BO	PNAMERR	YES	03528001
002144	41F0 B02C		0202C	3576	LA	R15,PROCID	LOAD RETURN ADDR	03529001
002148	47F0 8592		01592	3577	B	IER	GO TO IDENTIFIER ERROR ROUTINE	03530001
				3578	*			03531001
00214C	4560 578A		0078A	3579	ERROR16A	BAL R6,ERR7		03532001
				3580	*			03533001
002150	0405			3581	DC	X'0405'	E5	03534001
				3582	*			03535001
002152	47F0 B15C		0215C	3583	B	PNAMERRA		03536001
				3584	*			03537001
002156	4560 56CC		006CC	3585	PNAMERR	BAL R6,ERR2		03538001
				3586	*			03539001
00215A	0010			3587	DC	X'0010'	E16	03540001
				3588	*			03541001
00215C	5870 DD68		00D68	3589	PNAMERRA	L R7,AITL		03542001
002160	9200 7000		00000	3590	MVI	0(R7),0	CLEAR ERRONEOUS NAME	03543001
002164	D204 7001	7000	00001	00000	3591	MVC	1(5,R7),0(R7)	03544001
00216A	4160 B176		02176	3592	LA	R6,PROCIDSE	THE PROCEDURE HEAD SHOULD	03545001
00216E	45C0 5912		00912	3593	BAL	R12,FINDSEMC		03546001
002172	47F0 B05C		0205C	3594	B	EBF4-4	BE FOLLOWED BY EITHER ( OR ,.	03547001
				3595	*			03548001
002176	9506 1000		00000	3596	PROCIDSE	CLI 0(R1),X'06'	KEEP LOOPING UNTIL :-	03549001
00217A	4780 B060		02060	3597	BE	EBF4	LEFT PARENTHESIS FOUND	03550001
00217E	45C0 590E		0090E	3598	BAL	R12,FINDSEMC-4		03551001
002182	47F0 B05C		0205C	3599	B	EBF4-4	SEMICOLON FOUND	03552001
				3600	*			03553001
				3601	*	FORMAL PARAMETER LIST		03554001
				3602	*			03555001
				3603	*	IF A COMMA TERMINATES THE NAME, THE COMMA IS TRANSFERED		03556001
				3604	*	TO OUTPUT AND THE PARAMETER COUNT (PZ) IS INCREASED BY		03557001
				3605	*	ONE. AND PROCID IS ACTIVATED AGAIN TO TAKE NEXT NAME.		03558001
				3606	*	IF A ) FOLLOWED BY A SEMICOLON TERMINATES THE NAME		03559001
				3607	*	PROCFIN IS ACTIVATED.		03560001
				3608	*	IF A ) BUT NO SEMICOLON TERMINATES THE NAME PROCDEL IS		03561001
				3609	*	ACTIVATED.		03562001
				3610	*	IS SOMETHING ELSE IS FOUND RHA IS MOVED TO OUTPUT, THE		03563001
				3611	*	PARAMETER COUNT IS NOT INCREASED AND IER ACTIVATED		03564001
				3612	*	(NOLETTER, ERROR16).		03565001
				3613	*			03566001
002186	9525 1000		00000	3614	EDA1	CLI 0(R1),XFCCOMMA	COMMA TERMINATES IDENTIFIER ?	03567001
00218A	4770 B1B6		021B6	3615	BNE	PAR		03568001
00218E	4320 DD8D		00D8D	3616	IC	R2,PZ	INCREASE	03569001
002192	4120 2001		00001	3617	LA	R2,1(,R2)	PARAMETER	03570001
002196	4220 DD8D		00D8D	3618	STC	R2,PZ	COUNT BY ONE	03571001
00219A	45C0 595A		0095A	3619	BAL	R12,ITABCLEA	CHECK AND CLEAR NEXT ITABENTRY	03572001
00219E	45C0 598C		0098C	3620	BAL	R12,COB	CHECK IF O/P AREA FILLED	03573001
0021A2	9525 1000		00000	3621	CLI	0(R1),XFCCOMMA	COMMA ?	03574001
0021A6	4770 B1D2		021D2	3622	BNE	PROCFIN		03575001
0021AA	9225 3000		00000	3623	MVI	0(R3),XFCCOMMA	MOVE COMMA TO OUTPUT BUFFER	03576001
0021AE	4130 3001		00001	3624	LA	R3,1(,R3)	INCREASE OUTPUT POINTER	03577001
0021B2	47F0 B02C		0202C	3625	B	PROCID	BRANCH TO CHECK THE	03578001
				3626	*		NEXT IDENTIFIER	03579001
0021B6	9526 1000		00000	3627	PAR	CLI 0(R1),XFRBRAC	) TERMINATES IDENTIFIER ?	03580001
0021BA	4780 B18E		0218E	3628	BE	PROCEND		03581001
0021BE	45C0 598C		0098C	3629	BAL	R12,COB		03582001
0021C2	923D 3000		00000	3630	MVI	0(R3),X'3D'	MOVE IN RHA	03583001
0021C6	4130 3001		00001	3631	LA	R3,1(,R3)		03584001
0021CA	41F0 B02C		0202C	3632	LA	R15,PROCID	NOTE RETURN ADDR	03585001
0021CE	47F0 8592		01592	3633	B	IER	BRANCH TO IER	03586001
				3634	*			03587001
				3635	*	PROCFIN		03588001
				3636	*			03589001
				3637	*	THE PARAMETER LIST HAS BEEN COMPLETELY CHECKED		03590001
				3638	*	THE RIGHT PARENTHESIS IS MOVED TO OUTPUT		03591001
				3639	*	DELTABIT IS SET TO ONE		03592001
				3640	*	THE PARENTHESIS COUNT IS INSERTED IN THE PROCEDURE NAME		03593001
				3641	*	(NAMES IF TYPEPROCEDURE)		03594001
				3642	*	FMBIT IS TURNED OFF		03595001
				3643	*	THE RETURN TO TEST IS VIA SEMCO		03596001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				3644 *		IF SOMETHING ELSE, E5 OR E16 IS GENERATED AND	03597001
				3645 *		EVERYTHING SKIPPED TILL A (OR A; IS FOUND (NOLETTER,	03598001
				3646 *		PNAMERR)	03599001
				3647 *			03600001
0021D2	4110 1001		00001	3648	PROCFIN	LA R1,1(,R1)	03601001
0021D6	4160 B252		02252	3649		LA R6,PROCDEL	03602001
0021DA	45C0 5912		00912	3650		BAL R12,FINDSEMC	03603001
0021DE	45C0 598C		0098C	3651		BAL R12,COB	03604001
0021E2	41E0 55D4		005D4	3652		LA R14,SEMCO	03605001
0021E6	9226 3000	00000		3653	SCYES3	MVI 0(R3),XFRBRAC	03606001
0021EA	4130 3001		00001	3654		LA R3,1(,R3)	03607001
0021EE	9620 DD8E	0008E		3655		OI BITS1,X'20'	03608001
0021F2	9510 DD8D	0008D		3656		CLI PZ,16	03609001
0021F6	4740 B204		02204	3657		BL SCYES3A	03610001
0021FA	4560 56D4		006D4	3658		BAL R6,ERR2B	03611001
				3659 *			03612001
0021FE	0024			3660		DC X'0024'	03613001
				3661 *			03614001
002200	47F0 5728		00728	3662		B COMPFIN	03615001
				3663 *			03616001
002204	58F0 DD70		00D70	3664	SCYES3A	L R15,LPBP	03617001
002208	5BF0 BD38		02D38	3665		S R15,KF11	03618001
00220C	1B66			3666		SR R6,R6	03619001
00220E	4360 DD8D		00D8D	3667		IC R6,PZ	03620001
002212	8B60 0004		00004	3668		SLA R6,4(0)	03621001
002216	4260 DD8D		00D8D	3669		STC R6,PZ	03622001
00221A	D300 F009 DD8D 00009 00D8D		00D8D	3670		MVZ 9(1,R15),PZ	03623001
				3671 *			03624001
002220	8A60 0004		00004	3672		SRA R6,4	03625001
002224	4260 DD8D		00D8D	3673		STC R6,PZ	03626001
002228	948F DD90		00D90	3674		NI BITS3,FMOFF	03627001
00222C	9180 F013		00013	3675		TM 19(R15),X'80'	03628001
002230	4780 B242		02242	3676		BZ TESTPAR	03629001
002234	D300 F01F F009 0001F 00009		00009	3677		MVZ 31(1,R15),9(R15)	03630001
				3678 *			03631001
00223A	41F0 F021		00021	3679		LA R15,33(,R15)	03632001
00223E	47F0 B246		02246	3680		B TESTPARA	03633001
				3681 *			03634001
002242	41F0 F016		00016	3682	TESTPAR	LA R15,22(,R15)	03635001
002246	9500 DD8D		00D8D	3683	TESTPARA	CLI PZ,0	03636001
00224A	078E			3684		BER R14	03637001
00224C	50F0 DD60		00D60	3685		ST R15,PRIMPAR	03638001
002250	07FE			3686		BR R14	03639001
				3687 *			03640001
				3688 *		PROCDEL	03641001
				3689 *			03642001
				3690 *		A RIGHT PARENTHESIS HAS BEEN FOUND IN THE LIST THAT NOT	03643001
				3691 *		WAS FOLLOWED BY A .,	03644001
				3692 *		IF A LETTERSTRING IS FOUND, NOTHING BUT LETTERS AND	03645001
				3693 *		BLANKS FOLLOWED BY ..(A COMMA IS MOVED TO OUTPUT AND	03646001
				3694 *		PROCID ACTIVATED TO TAKE NEXT NAME.	03647001
				3695 *		IF ANYTHING ELSE IS FOUND E37 IS GENERATED AND COMERR	03648001
				3696 *		ACTIVATED TO SKIP TO NEXT SEMICOLON	03649001
				3697 *		ADDR OF COMERR IS PUT IN R14	03650001
				3698 *			03651001
002252	4190 B25A		0225A	3699	PROCDEL	LA R9,DELCHECK+4	03652001
002256	4110 1001		00001	3700	DELCHECK	LA R1,1(,R1)	03653001
00225A	9540 1000	00000		3701		CLI 0(R1),XFA	03654001
00225E	4780 B256		02256	3702		BNL DELCHECK	03655001
002262	952F 1000	00000		3703		CLI 0(R1),XFZETA	03656001
002266	4780 5A28		00A28	3704		BE CIB	03657001
00226A	9507 1000	00000		3705		CLI 0(R1),XFCOLON	03658001
00226E	4780 B2A6		022A6	3706		BE DELCOLON	03659001
002272	952B 1000	00000		3707		CLI 0(R1),XFBLANK	03660001
002276	4780 B256		02256	3708		BE DELCHECK	03661001
00227A	952D 1000	00000		3709		CLI 0(R1),XFPERIOD	03662001
00227E	4770 B2E0		022E0	3710		BNE ERROR37	03663001
002282	4110 1001		00001	3711	DELPOINT	LA R1,1(,R1)	03664001
002286	952D 1000	00000		3712		CLI 0(R1),XFPERIOD	03665001
00228A	4780 B2A6		022A6	3713		BE DELCOLON	03666001
00228E	952B 1000	00000		3714		CLI 0(R1),XFBLANK	03667001
002292	4780 B282		02282	3715		BE DELPOINT	03668001
002296	952F 1000	00000		3716		CLI 0(R1),XFZETA	03669001
00229A	4770 B2E0		022E0	3717		BNE ERROR37	03670001
00229E	4190 B286		02286	3718		LA R9,DELPOINT+4	03671001
0022A2	47F0 5A28		00A28	3719		B CIB	03672001
				3720 *			03673001
0022A6	4110 1001		00001	3721	DELCOLON	LA R1,1(,R1)	03674001
0022AA	9506 1000	00000		3722		CLI 0(R1),XFLBRAC	03675001
0022AE	4780 B2D0		022D0	3723		BE DELPAREN	03676001
0022B2	952B 1000	00000		3724		CLI 0(R1),XFBLANK	03677001
0022B6	4780 B2A6		022A6	3725		BE DELCOLON	03678001
0022BA	952F 1000	00000		3726		CLI 0(R1),XFZETA	03679001
0022BE	4770 B2CA		022CA	3727		BNE DELCOLAA	03680001
0022C2	4190 B2AA		022AA	3728		LA R9,DELCOLON+4	03681001
0022C6	47F0 5A28		00A28	3729		B CIB	03682001
				3730 *			03683001
0022CA	0610			3731	DELCOLAA	BCTR R1,0	03684001
0022CC	47F0 B2E0		022E0	3732		B ERROR37	03685001
				3733 *			03686001
0022D0	45C0 598C		0098C	3734	DELPAREN	BAL R12,COB	03687001
0022D4	9225 3000	00000		3735		MVI 0(R3),XFCOMMA	03688001
0022D8	4130 3001		00001	3736		LA R3,1(,R3)	03689001
0022DC	47F0 B02C		0202C	3737		B PROCID	03690001
				3738 *			03691001
0022E0	4560 56D4		006D4	3739	ERROR37	BAL R6,ERR2B	03692001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0022E4	0025			3740 *			03693001
				3741	DC	X'0025'	03694001
				3742 *			03695001
0022E6	41E0 8324		01324	3743	LA	R14,COMERR	03696001
0022EA	47F0 B1E6		021E6	3744	B	SCYES3	03697001
				3745 *			03698001
				3746 *	ENDMISS		03699001
				3747 *			03700001
				3748 *	ENTERED IF END OF DATA FOUND BEFORE LOGICAL		03701001
				3749 *	PROGRAM END IS FOUND BY SCAN I/II		03702001
				3750 *	CLOSES WHAT REMAINS OPEN IN STACK		03703001
				3751 *	GENERATES PATTERN FOR ERROR MESSAGE 39		03704001
				3752 *			03705001
0022EE	9120 DD8F		00D8F	3753 ENDMISS	TM	BITS2,STARTBIT	FIRST BEGIN FOUND ?
0022F2	4710 B2FC		022FC	3754	BO	ENDMISSA	YES
0022F6	4560 5724		00724	3755	BAL	R6,ERR4	
				3756 *			03708001
0022FA	042C			3757	DC	X'042C'	E44 NOTHING PROCESSED
				3758 *			03711001
0022FC	9601 DD8E		00D8E	3759 ENDMISSA	OI	BITS1,TERBIT	
002300	4140 B300		02300	3760 TERMSEAC	LA	R4,TERMSEAC	RETURN FOR PBLCKEND PROG
002304	58F0 DCD8		00CD8	3761	L	R15,SP	GET STACK POINTER
002308	9504 F000		00000	3762	CLI	0(R15),X'04'	BETA IN STACK ?
00230C	4780 B320		02320	3763	BE	STEPUP	
002310	9508 F000		00000	3764	CLI	0(R15),X'08'	BEGIN ?
002314	4780 B320		02320	3765	BE	STEPUP	
002318	9510 F000		00000	3766	CLI	0(R15),X'10'	PROC* ?
00231C	4770 B32C		0232C	3767	BNE	TERMBRNC	
002320	4860 BD72		02D72	3768 STEPUP	LH	R6,ENDCOUNT	INCREASE END COUNT
002324	4160 6001		00001	3769	LA	R6,1(,R6)	
002328	4060 BD72		02D72	3770	STH	R6,ENDCOUNT	
00232C	4320 F000		00000	3771 TERMBRNC	IC	R2,0(,R15)	
002330	5862 B338		02338	3772	L	R6,TERMTAB(R2)	BRANCH ACORDING TO STACK BYTE
002334	07F6			3773	BR	R6	
				3774 *			03727001
002336	0000						
002338	00002392			3775 TERMTAB	DC	A(ERROR39)	+00
00233C	00000FB8			3776	DC	A(PBLCKEND)	+04 BEGIN
002340	00002354			3777	DC	A(TERMBGN)	+08 BETA
002344	00000FB8			3778	DC	A(PBLCKEND)	+12 PROC
002348	00000FB8			3779	DC	A(PBLCKEND)	+16 PROC*
00234C	00000FB8			3780	DC	A(PBLCKEND)	+20 PROC**
002350	00000F4A			3781	DC	A(FOREND)	+24 FOR
				3782 *			03735001
002354	45C0 598C		0098C	3783 TERMBGN	BAL	R12,COB	
002358	922C 3000		00000	3784	MVI	0(R3),XFEND	MOVE OUT END TO O/P
00235C	4130 3001		00001	3785	LA	R3,1(,R3)	
002360	58F0 DCD8		00CD8	3786	L	R15,SP	
002364	06F0			3787	BCTR	R15,0	RELEASE BEGIN IN STACK
002366	50F0 DCD8		00CD8	3788	ST	R15,SP	
00236A	47F0 B300		02300	3789	B	TERMSEAC	
				3790 *			03742001
				3791 *			03743001
				3792 *	SLUT2		03744001
				3793 *			03745001
				3794 *	ENTERED FROM IEX00 IF INTERRUPT OCCURS BEFORE GETMAIN		03746001
00236E	9620 DD90		00D90	3795 SLUT2	OI	BITS3,NOFREE	INTERUPT OCCURED PRIOR
002372	47F0 B464		02464	3796	B	SCANEND	GOTO PROCESS TERMINATING PART
				3797 *			03749001
				3798 *	READROUT		03750001
				3799 *			03751001
				3800 *	ENTERED AFTER FINAL END COMMENT HAS BEEN CHECKED SHOULD		03752001
				3801 *	EXIT TO EODADIN VIA OS EOD ROUTINE		03753001
				3802 *			03754001
002376	4110 1001		00001	3803 READROUT	LA	R1,1(,R1)	
00237A	4190 B37E		0237E	3804	LA	R9,*+4	
00237E	DD48 1000	B814 00000	02814	3805	TRT	0(73,R1),BTABLE	ONLY VALID CHARACTER AFTER
002384	952F 1000		00000	3806	CLI	0(R1),XFZETA	FINAL END COMMENT IS ZETA ?
002388	4780 5A28		00A28	3807	BE	CIB	
00238C	47F0 57C4		007C4	3808	B	ERR9	ANYTHING ELSE FOUND
				3809 *			03761001
002390	0727			3810 E39PAR	DC	X'0727'	E39
				3811 *			03762001
002392	4160 B390		02390	3812 ERROR39	LA	R6,E39PAR	
002396	45C0 584A		0084A	3813	BAL	R12,ERROR1	CREATE E39 PATTERN
00239A	4860 BD72		02D72	3814	LH	R6,ENDCOUNT	
00239E	4E60 BD60		02D60	3815	CVD	R6,DOUBLE	
0023A2	F332 BDC8	BD65 02DC8	02D65	3816	UNPK	SAVE1(4),DOUBLE+5(3)	
0023A8	96F0 BDCB		02DCB	3817	OI	SAVE1+3,X'F0'	INSERT NUMBER OF ENDS MISSING
0023AC	D202 F004	BDC9 00004	02DC9	3818	MVC	4(3,R15),SAVE1+1	IN ERROR PATTERN
				3819 *			03771001
				3820 *			03772001
				3821 *	EODADIN		03773001
				3822 *			03774001
				3823 *	FALL THROUGH TO TERMINATION SECTION		03775001
				3824 *			03776001
				3825 *	TERMINATION		03777001
				3826 *			03778001
				3827 *	WRITES PB0 ITAB BLOCK FOR A PRECOMPILED PROCEDURE		03779001
				3828 *	WRITES LAST O/P REC IF MORE THAN ONE O/P RECORD		03780001
				3829 *	CORRECTS PRPT AND MOVES THE CONSTANTS 0 TROUGH 15 TO		03781001
				3830 *	THE CONSTANT POOL		03782001
				3831 *	IF NO TERMINATION ERROR AND EITHER DECK OR LOAD IS		03783001
				3832 *	SPECIFIED ESD CARD AND TXT CARDS ARE GENERATED WITH		03784001
				3833 *	GENERATE		03785001
				3834 *	CHECKS LAST ITAB RECORD WRITTEN, IF ANY		03786001
					CLOSES SYSIN, SYSUT1, SYSUT3		03787001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				3835 *		MAKES A FREEMAIN	03788001
				3836 *		EXITS -	03789001
				3837 *		IEX20 IF NO TERMINATING ERROR	03790001
				3838 *		IEX21 IF TERMINATING ERROR	03791001
				3839 *			03792001
0023B2	9108 D080	00080		3840	EODADIN	TM COMPFLGS,TERR	03793001
0023B6	4710 B3F6		023F6	3841	BO	KOPOOLRL	03794001
0023BA	5810 D064		00D64	3842	L	R1,AITAB	03795001
0023BE	4110 100B		0000B	3843	LA	R1,11(,R1)	03796001
0023C2	5910 D068		00D68	3844	C	R1,AITL	03797001
0023C6	4780 B3D6		023D6	3845	BE	NOPBN0	03798001
0023CA	58F0 D068		00D68	3846	L	R15,AITL	03799001
0023CE	9608 D08F		00D8F	3847	OI	BITS2,X'08'	03800001
0023D2	4540 5FCC		00FCC	3848	BAL	R4,WRITAB	03801001
0023D6	45C0 598C		0098C	3849	NOPBN0	BAL R12,COB	03802001
0023DA	922D 3000		00000	3850	MVI	0(R3),X'2D'	03803001
0023DE	4130 3001		00001	3851	LA	R3,1(,R3)	03804001
0023E2	9500 D085		00D85	3852	CLI	ONC,0	03805001
0023E6	4780 B3F2		023F2	3853	BE	NOPBN0A	03806001
0023EA	45C0 5992		00992	3854	BAL	R12,COBSPEB	03807001
0023EE	47F0 B3F6		023F6	3855	B	KOPOOLRL	03808001
				3856 *			03809001
0023F2	9640 D082		00082	3857	NOPBN0A	OI COMPFLGS+2,SPIC	03810001
0023F6	5870 DCC0		00CC0	3858	KOPOOLRL	L R7,POOLLOC	03811001
0023FA	D23F 7000	BD0C	00000	3859	MVC	0(64,R7),KFCONST	03812001
002400	5860 D0A4		000A4	3860	L	R6,PRPT	03813001
002404	5A60 BD28		02D28	3861	A	R6,KF7	03814001
002408	5060 D0A4		000A4	3862	ST	R6,PRPT	03815001
00240C	94F8 D0A7		000A7	3863	NI	PRPT+3,X'F8'	03816001
002410	D200 D09F	DD84	0009F	3864	MVC	PBN+1(1),PBC	03817001
002416	4310 D082		00D82	3865	IC	R1,FSN	03818001
00241A	0610			3866	BCTR	R1,0	03819001
00241C	4210 D083		00D83	3867	STC	R1,ZFSNMAX	03820001
002420	D503 D07C	BD4C	00D7C	3868	CLC	MGESITL,KF25000	03821001
002426	4740 B430		02430	3869	BL	KOPOOLAA	03822001
00242A	4560 578A		0078A	3870	BAL	R6,ERR7	03823001
				3871 *			03824001
00242E	0413			3872	DC	X'0413'	03825001
				3873 *			03826001
002430	9160 D081		00081	3874	KOPOOLAA	TM COMPFLGS+1,NDECK+NLOAD	03827001
002434	4710 B464		02464	3875	BO	SCANEND	03828001
002438	1B66			3876	SR	R6,R6	03829001
00243A	D207 B444	BD84	02444	3877	MVC	ESDPARM,ESDNAME	03830001
002440	4520 B56E		0256E	3878	KOPOOLBB	BAL R2,GENESD	03831001
				3879 *			03832001
002444	4040404040404040			3880	ESDPARM	DC CL8'	03833001
00244C	0000			3881	DC	X'0000'	03834001
				3882 *			03835001
00244E	D202 101D	BD0C	0001D	3883	MVC	29(3,R1),KF0	03836001
002454	5820 DD54		00D54	3884	L	R2,AKOPOOL	03837001
002458	D201 B462	D0A6	02462	3885	MVC	GENTLEN,PRPT+2	03838001
00245E	45E0 B580		02580	3886	BAL	R14,GENTXTS	03839001
				3887 *			03840001
002462	0000			3888	GENTLEN	DC H'0'	03841001
				3889 *			03842001
002464	9110 DD90		00D90	3890	SCANEND	TM BITS3,FRSITB	03843001
002468	4780 B47A		0247A	3891	BZ	CLSUSUT3	03844001
				3892 *			03845001
				3893	CHECK	ITABC	03846001
00246C	4110 8084		01084	3894+	LA	1,ITABC	02-IHBN
002470	58E0 1008		00008	3895+	L	14,8(0,1)	PICK UP DCB ADDR
002474	58F0 E034		00034	3896+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
002478	05EF			3897+	BALR	14,15	LINK TO CHECK ROUTINE
				3898 *			03847001
00247A	5860 D06C		0006C	3899	CLSUSUT3	L R6,AUT3DCB	03848001
				3900 *			03849001
				3901	CLOSE	((R6),REREAD),TYPE=T	03850001
00247E	0700			3902+	CNOP	0,4	ALIGN LIST TO FULLWORD
002480	4510 B488		02488	3903+	BAL	1,*+8	LOAD REG1 W/LIST ADDR
002484	00000000			3904+	DC	A(0)	OPTION AND DCB ADDRESS
002488	5061 0000		00000	3905+	ST	R6,0(1,0)	STORE DCB ADDRESS
00248C	9290 1000		00000	3906+	MVI	0(1),144	MOVE IN OPTION BYTE
002490	0A17			3907+	SVC	23	ISSUE TCLOSE SVC
				3908 *			03851001
002492	5860 D058		00058	3909	L	R6,ASYSDCB	03852001
				3910 *			03853001
				3911	CLOSE	((R6))	03854001
002496	0700			3912+	CNOP	0,4	ALIGN LIST TO FULLWORD
002498	4510 B4A0		024A0	3913+	BAL	1,*+8	LOAD REG1 W/LIST ADDR
00249C	00000000			3914+	DC	A(0)	OPTION AND DCB ADDRESS
0024A0	5061 0000		00000	3915+	ST	R6,0(1,0)	STORE DCB ADDRESS
0024A4	9280 1000		00000	3916+	MVI	0(1),128	MOVE IN OPTION BYTE
0024A8	0A14			3917+	SVC	20	ISSUE CLOSE SVC
				3918 *			03855001
				3919	FREPOOL	(R6)	03856001
0024AA	1816			3920+	LR	1,R6	LOAD PARAMETER REG 1
0024AC	58F0 1014		00014	3921+	L	15,20(0,1)	LOAD BUFCB ADDRESS
0024B0	9601 1017		00017	3922+	OI	23(1),1	INDICATE NO BUFCB ADDR
0024B4	1BEF			3923+	SR	14,14	CLEAR REGISTER
0024B6	1B11			3924+	SR	1,1	CLEAR REGISTER
0024B8	BF13 F006		00006	3925+	ICM	1,3,6(15)	LOAD LENGTH OF BUFFERS
0024BC	43E0 F005		00005	3926+	IC	14,5(0,15)	NUMBER OF BUFFERS
0024C0	1C0E			3927+	MR	0,14	AREA TO BE FREED
0024C2	4110 1008		00008	3928+	LA	1,8(0,1)	ACCOUNT FOR BCB
0024C6	9140 F004		00004	3929+	TM	4(15),X'40'	IS BUFCB 16 BYTES
0024CA	47E0 B4D2		024D2	3930+	BNO	*+8	BRANCH IF BUFCB = 8 BYTES



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0024CE	4110 1008		00008	3931+	LA	1,8(0,1)	ADJUST SIZE PLUS 8 @ZA87508 01-FREEP
0024D2	1801			3932+	LR	0,1	LOAD LENGTH TO BE FREED @ZA86199 01-FREEP
0024D4	4110 F000		00000	3933+	LA	1,0(0,15)	LOAD AREA ADDRESS 01-FREEP
0024D8	0A0A			3934+	SVC	10	ISSUE FREEMAIN SVC 01-FREEP
				3935 *			03857001
0024DA	5860 D064		00064	3936	L	R6,AUT1DCB	03858001
0024DE	9108 D080	00080		3937	TM	COMPFLGS,TERR	TERMINATING ERROR ? 03859001
0024E2	4710 B500		02500	3938	BO	CLSPERM	YES, CLOSE SYSUT1 FOR GOOD 03860001
				3939 *			03861001
				3940	CLOSE	((R6),REREAD),TYPE=T	RESET SYSUT1 03862001
0024E6	0700			3941+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-CLOSE
0024E8	4510 B4F0		024F0	3942+	BAL	1,*+8	LOAD REG1 W/LIST ADDR 01-CLOSE
0024EC	00000000			3943+	DC	A(0)	OPTION AND DCB ADDRESS 01-CLOSE
0024F0	5061 0000		00000	3944+	ST	R6,0(1,0)	STORE DCB ADDRESS 01-CLOSE
0024F4	9290 1000	00000		3945+	MVI	0(1),144	MOVE IN OPTION BYTE 01-CLOSE
0024F8	0A17			3946+	SVC	23	ISSUE TCLOSE SVC 01-CLOSE
				3947 *			03863001
0024FA	47F0 B512		02512	3948	B	FREE	03864001
				3949 *			03865001
				3950	CLSPERM	CLOSE ((R6),REREAD)	CLOSE SYSUT1 03866001
0024FE	0700			3951+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-CLOSE
002500	4510 B508		02508	3952+CLSPERM	BAL	1,*+8	LOAD REG1 W/LIST ADDR 01-CLOSE
002504	00000000			3953+	DC	A(0)	OPTION AND DCB ADDRESS 01-CLOSE
002508	5061 0000		00000	3954+	ST	R6,0(1,0)	STORE DCB ADDRESS 01-CLOSE
00250C	9290 1000	00000		3955+	MVI	0(1),144	MOVE IN OPTION BYTE 01-CLOSE
002510	0A14			3956+	SVC	20	ISSUE CLOSE SVC 01-CLOSE
				3957 *			03867001
002512	9120 DD90	00D90		3958	FREE	TM	BITS3,NOFREE
002516	4710 B556		02556	3959	BO	GETERRPH	INTERUPT BEFORE GETMAIN ? 03868001
00251A	5800 DCBC		00CBC	3960	L	R0,POOLLEN	YES, DO NOT MAKE FREEMAIN 03869001
00251E	5810 DCC0		00CC0	3961	L	R1,POOLLOC	03870001
				3962 *			03871001
				3963	FREEMAIN	R, LV=(0),A=(1)	03872001
				3964+*	OS/V52	RELEASE 3 VERSION -- 10/25/74	03873001
002522	4110 1000		00000	3965+	LA	1,0(0,1)	01-FREEM
002526	0A0A			3966+	SVC	10	CLEAR HI ORDER BYTE 01-FREEM
				3967 *			ISSUE FREEMAIN SVC 01-FREEM
				3968	OI	COMPFLGS+2,NOSC	03874001
002528	9608 D082	00082		3969	TM	COMPFLGS,TERR	SET SWITCH FOR ERROR MESSAGES 03875001
00252C	9108 D080	00080		3970	BO	GETERRPH	TERMINATING ERROR ? 03876001
002530	4710 B556		02556	3971	ICM	R6,B'1111',BRACKET	YES, CALL IEX21 03877001
002534	B6F6 BDB4		02DB4	3972	BZ	NEXTMOD	BRACKET COUNTER ZERO ? 03878001
002538	4780 B540		02540	3973	OI	COMPFLGS,COMPmode+SERR	YES, BRANCH 03879001
00253C	9690 D080	00080		3974 *			NO, SET SYNTAX MODE 03880001
				3975	NEXTMOD	EP=IEX20000	03881001
002540				3976+NEXTMOD	DS	0H	GOTO ITAB MANIPULATION 03882001
002540				3977+	CNOP	0,4	01-XCTL
002540	45F0 B554		02554	3978+	BAL	15,*+20	BRANCH AROUND CONSTANTS 02-IHBIN
002544	0000254C			3979+	DC	A(*+8)	ADDR. OF PARM. LIST 02-IHBIN
002548	00000000			3980+	DC	A(0)	DCB ADDRESS PARAMETER 02-IHBIN
00254C	C9C5E7F2F0F0F0F0			3981+	DC	CL8'IEX20000'	EP PARAMETER 02-IHBIN
002554	0A07			3982+	SVC	7	ISSUE XCTL SVC 01-XCTL
				3983 *			03883001
002556				3984	GETERRPH	XCTL EP=IEX21000	GOTO ERROR MESSAGE HANDLING 03884001
002556	0700			3985+GETERRPH	DS	0H	01-XCTL
002558	45F0 B56C		0256C	3986+	CNOP	0,4	02-IHBIN
00255C	00002564			3987+	BAL	15,*+20	BRANCH AROUND CONSTANTS 02-IHBIN
002560	00000000			3988+	DC	A(*+8)	ADDR. OF PARM. LIST 02-IHBIN
002564	C9C5E7F2F1F0F0F0			3989+	DC	A(0)	DCB ADDRESS PARAMETER 02-IHBIN
00256C	0A07			3990+	DC	CL8'IEX21000'	EP PARAMETER 02-IHBIN
				3991+	SVC	7	ISSUE XCTL SVC 01-XCTL
				3992 *			03885001
				3993 *	GENERATE		03886001
				3994 *			03887001
				3995 *	REGISTER DEFINITIONS		03888001
				3996 *			03889001
				3997 *	R1		OUTPUT RECORD POINTER 03890001
				3998 *	R2		ADDR OF INFORMATION 03891001
				3999 *	R3		TYPE OF RECORD TO BE GENERATED 03892001
				4000 *	R4		RETURN REG 03893001
				4001 *	R14		L'INFORMATION FROM CALL 03894001
				4002 *	R15		L'WITHIN RECORD 03895001
				4003 *			03896001
				4004 *	BIT PATTERNS		03897001
				4005 *			03898001
		00000		4006	SDENTRY	EQU X'00'	SD ENTRY IDENTIFICATION 03899001
		00001		4007	LDENTRY	EQU X'01'	LD ENTRY IDENTIFICATION 03900001
		0000D		4008	RLDFLAG	EQU B'00001101'	FLAG USED IN RLD ENTRY 03901001
				4009 *			03902001
				4010 *	ADDR DISPLACEMENTS		03903001
				4011 *			03904001
00256E	41E0 0010		00010	4012	GENESD	LA R14,16	R14 ALWAYS 16 03905001
002572	4130 B678		02678	4013	LA	R3,ESDT	INDICATE ESD CALL 03906001
002576	D203 D0B0	2000 000B0		4014	MVC	PIDENT,0(R2)	NAME TO IDENT PART 03907001
00257C	47F0 B5CE		025CE	4015	B	GEN3	CALL FOR FIRST OUT REC 03908001
				4016 *			03909001
002580	4140 E002		00002	4017	GENTXTS	LA R4,2(,R14)	COMPUTE RETURN ADDR 03910001
002584	48E0 E000		00000	4018	LH	R14,0(,R14)	LOAD R14 GIVEN IN CALL 03911001
002588	4130 B69E		0269E	4019	GEN2	LA R3,TXTT	INDICATE TXT CALL 03912001
				4020 *			03913001
00258C	5810 D0A8		000A8	4021	GEN1	L R1,SAVOUTA	LOAD ADDR OF OUT RECORD 03914001
002590	D502 1001	3001 00001		4022	CLC	1(3,R1),1(R3)	RECORD RIGHT TYPE ? 03915001
002596	4770 B5CE		025CE	4023	BNE	GEN3	NO, CALL IOR NEW 03916001
00259A	D501 100A	300C 0000A	0000C	4024	CLC	10(2,R1),12(R3)	RECORD FILLED ? 03917001
0025A0	47B0 B5CE		025CE	4025	BNL	GEN3	YES, CALL FOR NEW 03918001
0025A4	41F0 0038		00038	4026	GEN6	LA R15,56	03919001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
0025A8	4800 100A		0000A	4027	LH	R0,10(,R1)	R0 = L'INFORMATION IN REC 03920001
0025AC	1BF0			4028	SR	R15,R0	R15 = EMPTY POS LEFT IN RECORD 03921001
0025AE	19FE			4029	CR	R15,R14	ENOUGH SPACE LEFT ? 03922001
0025B0	4740 B5B6		025B6	4030	BL	GEN6A	NO 03923001
0025B4	18FE			4031	LR	R15,R14	YES R15=R14 FROM CALL 03924001
0025B6	1AF0			4032	GEN6A	AR	R15,R0 03925001
0025B8	40F0 100A		0000A	4033	STH	R15,10(,R1)	INSERT NEW LENGTH INTO RECORD 03926001
				4034	*		03927001
0025BC	1BF0			4035	SR	R15,R0	03928001
0025BE	1A10			4036	AR	R1,R0	START ADDR WITHIN RECORD 03929001
0025C0	1BEF			4037	SR	R14,R15	REMAINING LENGTH 03930001
0025C2	47F0 300E		0000E	4038	B	14(,R3)	TO DIFFERENT MOVE ROUTINES 03931001
				4039	*		03932001
0025C6	12EE		025CE	4040	GEN4	LTR	R14,R14 MORE INFORMATION MUST BE MOVED ? 03933001
0025C8	4720 B5CE			4041	BH	GEN3	YES 03934001
0025CC	07F4			4042	BR	R4	03935001
				4043	*		03936001
			025CE	4044	GEN3	EQU *	CALL FOR NEW OUTPUT RECORD 03937001
0025CE	50E0 BD74		02D74	4045	PUNCH	ST	14,ERRSAVE 03938001
0025D2	9160 D081		00081	4046	TM	COMPFLGS+1,NLOAD+NDECK	BOTH DECK AND LOAD SPECIFIED ? 03939001
0025D6	4780 B5FE		025FE	4047	BZ	BOTH	YES 03940001
0025DA	5810 D060		00060	4048	L	R1,APCHDCB	R1- > SYSPUNCH DCB 03941001
0025DE	9120 D081		00081	4049	TM	COMPFLGS+1,NDECK	DECK ? 03942001
0025E2	4780 B5EA		025EA	4050	BZ	PUT1	YES 03943001
0025E6	5810 D048		00048	4051	PUT1A	L	R1,ALINDCB R1 -> SYSLIN DCB 03944001
				4052	*		03945001
				4053	PUT1	PUT (R1)	PUT FOR SYSLIN AND SYSPUNCH IF 03946001
0025EA	1811			4054	PUT1	LR 1,R1	LOAD PARAMETER REG 1 02-IHBN
0025EC	58F0 1030		00030	4055	+	L 15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
0025F0	05EF			4056	+	BALR 14,15	LINK TO PUT ROUTINE 01-PUT
				4057	*		03947001
0025F2	5010 D0A8		000A8	4058	ST	R1,SAVOUTA	ONLY SYSPUNCH SPECIFIED 03948001
0025F6	58E0 BD74		02D74	4059	L	14,ERRSAVE	03949001
0025FA	47F0 B630		02630	4060	B	PUNCHOUT	03950001
				4061	*		03951001
0025FE	9102 DD8F		00D8F	4062	BOTH	TM	BITS2,X'02' FIRST PUT ? 03952001
002602	4780 B628		02628	4063	BZ	FIRSTPUT	YES 03953001
002606	58E0 D0AC		000AC	4064	L	R14,OUTAREA2	COPY SYSLIN BUFFER TO SYSPUNCH 03954001
00260A	5810 D0A8		000A8	4065	L	R1,SAVOUTA	03955001
00260E	D24F E000	1000 00000	00000	4066	MVC	0(80,R14),0(R1)	BUFFER 03956001
002614	5810 D060		00060	4067	PUT2	L	R1,APCHDCB R1- > SYSPUNCH DCB 03957001
				4068	*		03958001
				4069		PUT (R1)	PUT FOR SYSPUNCH WHEN BOTH HAS 03959001
002618	1811			4070	+	LR 1,R1	LOAD PARAMETER REG 1 02-IHBN
00261A	58F0 1030		00030	4071	+	L 15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
00261E	05EF			4072	+	BALR 14,15	LINK TO PUT ROUTINE 01-PUT
				4073	*		03960001
002620	5010 D0AC		000AC	4074	ST	R1,OUTAREA2	BEEEN SPECIFIED 03961001
002624	47F0 B5E6		025E6	4075	B	PUT1A	GOTO PUT SYSLIN 03962001
				4076	*		03963001
002628	9602 DD8F		00D8F	4077	FIRSTPUT	OI	BITS2,X'02' 03964001
00262C	47F0 B614		02614	4078	B	PUT2	03965001
				4079	*		03966001
002630	D203 1000 3000 00000	00000	00000	4080	PUNCHOUT	MVC	0(4,R1),0(R3) INSERT FIRST 4 BYTES 03967001
002636	9240 1004		00004	4081	MVI	4(R1),C' '	INSERT ONE BLANK 03968001
00263A	D242 1005 1004 00005	00004	00004	4082	MVC	5(67,R1),4(R1)	BLANK OUTPUT RECORD 03969001
002640	D203 1048 D0B0 00048	000B0	000B0	4083	MVC	72(4,R1),PIDENT	INSERT PROGRAM IDENT 03970001
002646	FA30 D0B4 BD8C 000B4	02D8C	000B4	4084	AP	CARDCNT,KP1	INCR CARD COUNT 03971001
00264C	F333 104C D0B4 0004C	000B4	000B4	4085	UNPK	76(4,R1),CARDCNT	UNPACK INTO RECORD 03972001
002652	96F0 104F 0004F			4086	OI	79(R1),X'F0'	MAKE PRINTABLE 03973001
002656	D201 100A 3004 0000A	00004	00004	4087	MVC	10(2,R1),4(R3)	INSERT INITIAL LENGTH 03974001
00265C	D205 100E 3006 0000E	0000E	0000E	4088	MVC	14(6,R1),6(R3)	INSERT ESID+R AND P 03975001
002662	D502 B69F 3001 0269F	00001	0269F	4089	CLC	TXTT+1(3),1(R3)	TXR RECORD PROCESSED ? 03976001
002668	4770 B5A4		025A4	4090	BNE	GEN6	NO 03977001
00266C	5061 0004		00004	4091	ST	R6,4(R1)	YES, INSERT R6 03978001
002670	9240 1004		00004	4092	MVI	4(R1),C' '	03979001
002674	47F0 B5A4		025A4	4093	B	GEN6	03980001
				4094	*		03981001
				4095	*		03982001
				4096	*		03983001
				4097	*		03984001
				4098	*		03985001
002678	02			4099	ESDT	DC	X'02' RECORD CODE 03986001
002679	C5E2C4			4100		DC	C'ESD' IDENTIFICATION 03987001
00267C	0000			4101		DC	H'0' INITIAL LENGTH 0 03988001
00267E	404040404040			4102		DC	C' ' 03989001
002684	0030			4103		DC	H'48' MAXIMUM LENTH IN RECORD 03990001
				4104	*		03991001
				4105	*		03992001
				4106	*		03993001
002686	D208 1010 2000 00010	00000	00000	4107	GEN7	MVC	16(9,R1),0(R2) MOVE ESD NAME AND ESD TYPE SD TO 03994001
				4108	*		ESD OUTPUT RECORD 03995001
00268C	D206 1019 BDB8 00019	02DB8	00019	4109	MVC	25(L'ESDCON,R1),ESDCON	CHANGE LAST PART OF ENTRY 03996001
002692	4130 0001		00001	4110	LA	R3,1	SET ESID NUMBER TO 1 03997001
002696	4031 000E		0000E	4111	STH	R3,14(R1)	INSERT ESID NUMBER 03998001
00269A	47F0 200A		0000A	4112	B	10(,R2)	RETURN TO CALLING ROUTINE 03999001
				4113	*		04000001
				4114	*		04001001
				4115	*		04002001
00269E	02			4116	TXTT	DC	X'02' RECORD CODE 04003001
00269F	E3E7E3			4117		DC	C'TXT' IDENTIFICATION 04004001
0026A2	0000			4118		DC	H'0' INITIAL LENGTH 0 04005001
0026A4	0001			4119		DC	H'1' ESID 04006001
0026A6	40404040			4120		DC	C' ' 04007001
0026AA	0038			4121		DC	H'56' MAXIMUM LENGTH 04008001
				4122	*		04009001

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				4123 *		MOVE TXT INFORMATION TO OUTPUT	04010001
				4124 *			04011001
0026AC	06F0			4125 GEN8	BCTR	R15,0	04012001
0026AE	42F0 B6B3		026B3	4126	STC	R15,*+5	04013001
0026B2	D200 1010 2000 00010	00000	00000	4127	MVC	16(0,R1),0(R2)	04014001
0026B8	416F 6001		00001	4128	LA	R6,1(R15,R6)	04015001
0026BC	412F 2001		00001	4129	LA	R2,1(R15,R2)	04016001
0026C0	47F0 B5C6		025C6	4130	B	GEN4	04017001
				4131 *			04018001
				4132 *	BPRTAB		04019001
				4133 *			04020001
				4134 *		CONTAINS ADDR CONSTANTS OF PROGRAMS UTILIZED BY -	04021001
				4135 *	TEST		04022001
				4136 *	LIST		04023001
				4137 *	POINT		04024001
				4138 *	APOSTROF		04025001
				4139 *	POINTLST		04026001
				4140 *			04027001
				4141 *		THE ADDRESSES ARE PICKED UP WITH DISPLACEMENTS FROM -	04028001
				4142 *	TESTTABL		04029001
				4143 *	ARTABLE		04030001
				4144 *	PTTABLE		04031001
				4145 *	ATABLE		04032001
				4146 *		PTTABLE FOR POINTLST 56 IS ADDED TO DISP GIVEN	04033001
				4147 *			04034001
0026C4	00000000			4148 BPRTAB	DC	A(0) + 00	04035001
0026C8	00000210			4149	DC	A(TRANSOP) + 04	04036001
0026CC	00000210			4150	DC	A(TRANSOP) + 08	04037001
0026D0	00000210			4151	DC	A(TRANSOP) + 12	04038001
0026D4	00000210			4152	DC	A(TRANSOP) + 16	04039001
0026D8	00000210			4153	DC	A(TRANSOP) + 20	04040001
0026DC	00000210			4154	DC	A(TRANSOP) + 24	04041001
0026E0	000003D2			4155	DC	A(COLON) + 28 COLON	04042001
0026E4	000005D4			4156	DC	A(SEMCO) + 32 SEMICOLON	04043001
0026E8	00000280			4157	DC	A(RIGHTPAR) + 36	04044001
0026EC	000001F8			4158	DC	A(BLANK) + 40	04045001
0026F0	000006C0			4159	DC	A(ERR1) + 44	04046001
0026F4	000002A6			4160	DC	A(POINT) + 48	04047001
0026F8	00000300			4161	DC	A(APOSTROF) + 52	04048001
0026FC	00000A28			4162	DC	A(CIB) + 56	04049001
002700	000002CA			4163	DC	A(ASSIGN) + 60	04050001
002704	000002BC			4164	DC	A(DECPOINT) + 64	04051001
002708	00000738			4165	DC	A(ERR5) + 68 ERROR AFTER POINT	04052001
00270C	00000348			4166	DC	A(BLKAPOS) + 72 BLANK AFTER APOSTROPHE	04053001
002710	000003AE			4167	DC	A(NPAFTAPO) + 76 NOT PERMITTED AFTER APOSTR	04054001
002714	0000031A			4168	DC	A(SCALE) + 80 DIGIT OR SIGN AFTER APOSTROPHE	04055001
002718	00001AA4			4169	DC	A(COLONLST) + 84 COLON IN LIST	04056001
00271C	00001ABE			4170	DC	A(SEMCLST) + 88 SEMICOLON IN LIST	04057001
002720	00000B0C			4171	DC	A(DELIMIT) + 92 DELIMITER PROGRAM	04058001
002724	0000038A			4172	DC	A(ZETAAPPO) + 96 ZETA AFTER APOSTROPHE	04059001
002728	00000B7C			4173	DC	A(EROUT) +100 ERROR (FROM W1,W2OR W3 TAB)	04060001
00272C	00001A10			4174	DC	A(LEFTPARL) +104 LEFT PARENTHESIS IN LIST	04061001
002730	000019F4			4175	DC	A(RIGTPARL) +108 RIGHT PARENTHESIS IN LIST	04062001
002734	000019EC			4176	DC	A(PZETA) +112 ZETA AFTER POINT IN LIST	04063001
002738	000002CA			4177	DC	A(ASSIGN) +116 ASSIGNMENT POINT IN LIST	04064001
00273C	000002BC			4178	DC	A(DECPOINT) +120 DECPOINT IN LIST	04065001
002740	00000730			4179	DC	A(ERR5A) +124 POINT ERROR IN LIST	04066001
002744	00001A66			4180	DC	A(COMMALST) +128 COMMA IN LIST	04067001
002748	000019D6			4181	DC	A(PONTLST) +132 POINT IN LIST	04068001
00274C	00001B0E			4182	DC	A(SLASHLST) +136 SLASH IN LIST	04069001
002750	00001DF4			4183	DC	A(QUOTE) +140 QUOTE	04070001
002754	000005D0			4184	DC	A(SEMCO) +144	04071001
				4185 *			04072001
				4186 *	PTTABLE		04073001
				4187 *			04074001
				4188 *	USED BY -		04075001
				4189 *	POINT		04076001
				4190 *	PONTLST		04077001
				4191 *		GIVES DISPLACEMENTS TO BPRTAB	04078001
				4192 *		WHEN USED BY PONTLST 56 IS ADDED TO ORIGINAL DISP	04079001
				4193 *			04080001
002758	44			4194 PTTABLE	DC	AL1(68) +00 XFPLUS	04081001
002759	44			4195	DC	AL1(68) +01 XFMINUS	04082001
00275A	44			4196	DC	AL1(68) +02 XFASTER	04083001
00275B	44			4197	DC	AL1(68) +03 XFSLASH	04084001
00275C	00			4198	DC	AL1(0) +04	04085001
00275D	00			4199	DC	AL1(0) +05	04086001
00275E	44			4200	DC	AL1(68) +06 XFBRAC	04087001
00275F	44			4201	DC	AL1(68) +07 XFCOLON	04088001
002760	00			4202	DC	AL1(0) +08 XFSLQBR	04089001
002761	00			4203	DC	AL1(0) +09	04090001
002762	00			4204	DC	AL1(0) +0A	04091001
002763	44			4205	DC	AL1(68) +0B XFSCOLON	04092001
002764	00			4206	DC	AL1(0) +0C	04093001
002765	00			4207	DC	AL1(0) +0D	04094001
002766	00			4208	DC	AL1(0) +0E	04095001
002767	00			4209	DC	AL1(0) +0F	04096001
002768	3C			4210	DC	AL1(60) +10 XFEQUAL	04097001
002769	44			4211	DC	AL1(68) +11 XFLT	04098001
00276A	44			4212	DC	AL1(68) +12 XFGT	04099001
00276B	00			4213	DC	AL1(0) +13	04100001
00276C	00			4214	DC	AL1(0) +14	04101001
00276D	00			4215	DC	AL1(0) +15	04102001
00276E	00			4216	DC	AL1(0) +16	04103001
00276F	00			4217	DC	AL1(0) +17	04104001
002770	00			4218	DC	AL1(0) +18	04105001

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002771	00			4219	DC	AL1(0)	+19	04106001
002772	00			4220	DC	AL1(0)	+1A	04107001
002773	00			4221	DC	AL1(0)	+1B	04108001
002774	00			4222	DC	AL1(0)	+1C	04109001
002775	00			4223	DC	AL1(0)	+1D	04110001
002776	00			4224	DC	AL1(0)	+1E	04111001
002777	00			4225	DC	AL1(0)	+1F	04112001
002778	44			4226	DC	AL1(68)	+20 XFNOT	04113001
002779	00			4227	DC	AL1(0)	+21	04114001
00277A	44			4228	DC	AL1(68)	+22 XFOR	04115001
00277B	44			4229	DC	AL1(68)	+23 XFAMPER	04116001
00277C	00			4230	DC	AL1(0)	+24	04117001
00277D	20			4231	DC	AL1(32)	+25 XFCOMMA	04118001
00277E	44			4232	DC	AL1(68)	+26 XFRBRAC	04119001
00277F	00			4233	DC	AL1(0)	+27	04120001
002780	00			4234	DC	AL1(0)	+28 XFRSQBR	04121001
002781	00			4235	DC	AL1(0)	+29	04122001
002782	00			4236	DC	AL1(0)	+2A	04123001
002783	00			4237	DC	AL1(0)	+2B XFBLANK	04124001
002784	44			4238	DC	AL1(68)	+2C	04125001
002785	1C			4239	DC	AL1(28)	+2D XFPERIOD	04126001
002786	44			4240	DC	AL1(68)	+2E XFQUOTE	04127001
002787	38			4241	DC	AL1(56)	+2F	04128001
002788	40			4242	DC	AL1(64)	+30 XF0	04129001
002789	40			4243	DC	AL1(64)	+31 XF1	04130001
00278A	40			4244	DC	AL1(64)	+32 XF2	04131001
00278B	40			4245	DC	AL1(64)	+33 XF3	04132001
00278C	40			4246	DC	AL1(64)	+34 XF4	04133001
00278D	40			4247	DC	AL1(64)	+35 XF5	04134001
00278E	40			4248	DC	AL1(64)	+36 XF6	04135001
00278F	40			4249	DC	AL1(64)	+37 XF7	04136001
002790	40			4250	DC	AL1(64)	+38 XF8	04137001
002791	40			4251	DC	AL1(64)	+39 XF9	04138001
002792	00			4252	DC	AL1(0)	+3A	04139001
002793	00			4253	DC	AL1(0)	+3B	04140001
002794	00			4254	DC	AL1(0)	+3C	04141001
002795	00			4255	DC	AL1(0)	+3D	04142001
002796	00			4256	DC	AL1(0)	+3E	04143001
002797	00			4257	DC	AL1(0)	+3F	04144001
002798	44			4258	DC	AL1(68)	+40 XFA	04145001
002799	44			4259	DC	AL1(68)	+41 XFB	04146001
00279A	44			4260	DC	AL1(68)	+42 XFC	04147001
00279B	44			4261	DC	AL1(68)	+43 XFD	04148001
00279C	44			4262	DC	AL1(68)	+44 XFE	04149001
00279D	44			4263	DC	AL1(68)	+45 XFF	04150001
00279E	44			4264	DC	AL1(68)	+46 XFG	04151001
00279F	44			4265	DC	AL1(68)	+47 XFH	04152001
0027A0	44			4266	DC	AL1(68)	+48 XFI	04153001
0027A1	44			4267	DC	AL1(68)	+49 XFJ	04154001
0027A2	44			4268	DC	AL1(68)	+4A XFK	04155001
0027A3	44			4269	DC	AL1(68)	+4B XFL	04156001
0027A4	44			4270	DC	AL1(68)	+4C XFM	04157001
0027A5	44			4271	DC	AL1(68)	+4D XFN	04158001
0027A6	44			4272	DC	AL1(68)	+4E XFO	04159001
0027A7	44			4273	DC	AL1(68)	+4F XFP	04160001
0027A8	44			4274	DC	AL1(68)	+50 XFQ	04161001
0027A9	44			4275	DC	AL1(68)	+51 XFR	04162001
0027AA	44			4276	DC	AL1(68)	+52 XFS	04163001
0027AB	44			4277	DC	AL1(68)	+53 XFT	04164001
0027AC	44			4278	DC	AL1(68)	+54 XFU	04165001
0027AD	44			4279	DC	AL1(68)	+55 XFV	04166001
0027AE	44			4280	DC	AL1(68)	+56 XFW	04167001
0027AF	44			4281	DC	AL1(68)	+57 XFX	04168001
0027B0	44			4282	DC	AL1(68)	+58 XFY	04169001
0027B1	44			4283	DC	AL1(68)	+59 XFZ	04170001
0027B2	44			4284	DC	AL1(68)	+59 XFDOLLAR	04171001
0027B3	44			4285	DC	AL1(68)	+59 XFUNDER	04172001
0027B4	44			4286	DC	AL1(68)	+59 XFHASH	04173001
0027B5	44			4287	DC	AL1(68)	+59 XFAT	04174001
				4288 *				04175001
				4289 *	ATABLE			04176001
				4290 *				04177001
				4291 *	USED BY THE APOSTROPHE PROGRAM			04178001
				4292 *	GIVES DISPLACEMENTS TO BPRTAB			04179001
				4293 *				04180001
0027B6	50			4294 ATABLE	DC	AL1(80)	+00 XFPLUS	04181001
0027B7	50			4295	DC	AL1(80)	+01 XFMINUS	04182001
0027B8	64			4296	DC	AL1(100)	+02 XFASTER	04183001
0027B9	00			4297	DC	AL1(0)	+03 XFSLASH	04184001
0027BA	00			4298	DC	AL1(0)	+04	04185001
0027BB	00			4299	DC	AL1(0)	+05	04186001
0027BC	00			4300	DC	AL1(0)	+06 XFLBRAC	04187001
0027BD	64			4301	DC	AL1(100)	+07 XFCOLON	04188001
0027BE	00			4302	DC	AL1(0)	+08 XFLSQBR	04189001
0027BF	00			4303	DC	AL1(0)	+09	04190001
0027C0	00			4304	DC	AL1(0)	+0A	04191001
0027C1	64			4305	DC	AL1(100)	+0B XFSCOLON	04192001
0027C2	00			4306	DC	AL1(0)	+0C	04193001
0027C3	00			4307	DC	AL1(0)	+0D	04194001
0027C4	00			4308	DC	AL1(0)	+0E	04195001
0027C5	00			4309	DC	AL1(0)	+0F	04196001
0027C6	64			4310	DC	AL1(100)	+10 XFEQUAL	04197001
0027C7	64			4311	DC	AL1(100)	+11 XFLT	04198001
0027C8	64			4312	DC	AL1(100)	+12 XFGT	04199001
0027C9	00			4313	DC	AL1(0)	+13	04200001
0027CA	00			4314	DC	AL1(0)	+14	04201001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement		X390 3.1.04 2012/08/17 13.12
0027CB	00			4315	DC	AL1(0)	+15	04202001
0027CC	00			4316	DC	AL1(0)	+16	04203001
0027CD	00			4317	DC	AL1(0)	+17	04204001
0027CE	00			4318	DC	AL1(0)	+18	04205001
0027CF	00			4319	DC	AL1(0)	+19	04206001
0027D0	00			4320	DC	AL1(0)	+1A	04207001
0027D1	00			4321	DC	AL1(0)	+1B	04208001
0027D2	00			4322	DC	AL1(0)	+1C	04209001
0027D3	00			4323	DC	AL1(0)	+1D	04210001
0027D4	00			4324	DC	AL1(0)	+1E	04211001
0027D5	00			4325	DC	AL1(0)	+1F	04212001
0027D6	64			4326	DC	AL1(100)	+20 XFNOT	04213001
0027D7	00			4327	DC	AL1(0)	+21	04214001
0027D8	64			4328	DC	AL1(100)	+22 XFOR	04215001
0027D9	64			4329	DC	AL1(100)	+23 XFAMPER	04216001
0027DA	00			4330	DC	AL1(0)	+24	04217001
0027DB	64			4331	DC	AL1(100)	+25 XFCOMMA	04218001
0027DC	64			4332	DC	AL1(100)	+26 XFRBRAC	04219001
0027DD	00			4333	DC	AL1(0)	+27	04220001
0027DE	00			4334	DC	AL1(0)	+28 XFRSQBR	04221001
0027DF	00			4335	DC	AL1(0)	+29	04222001
0027E0	00			4336	DC	AL1(0)	+2A	04223001
0027E1	48			4337	DC	AL1(72)	+2B XFBLANK	04224001
0027E2	4C			4338	DC	AL1(76)	+2C	04225001
0027E3	64			4339	DC	AL1(100)	+2D XFPERIOD	04226001
0027E4	5C			4340	DC	AL1(92)	+2E XFQUOTE	04227001
0027E5	60			4341	DC	AL1(96)	+2F	04228001
0027E6	50			4342	DC	AL1(80)	+30 XF0	04229001
0027E7	50			4343	DC	AL1(80)	+31 XF1	04230001
0027E8	50			4344	DC	AL1(80)	+32 XF2	04231001
0027E9	50			4345	DC	AL1(80)	+33 XF3	04232001
0027EA	50			4346	DC	AL1(80)	+34 XF4	04233001
0027EB	50			4347	DC	AL1(80)	+35 XF5	04234001
0027EC	50			4348	DC	AL1(80)	+36 XF6	04235001
0027ED	50			4349	DC	AL1(80)	+37 XF7	04236001
0027EE	50			4350	DC	AL1(80)	+38 XF8	04237001
0027EF	50			4351	DC	AL1(80)	+39 XF9	04238001
0027F0	00			4352	DC	AL1(0)	+3A	04239001
0027F1	00			4353	DC	AL1(0)	+3B	04240001
0027F2	00			4354	DC	AL1(0)	+3C	04241001
0027F3	00			4355	DC	AL1(0)	+3D	04242001
0027F4	00			4356	DC	AL1(0)	+3E	04243001
0027F5	00			4357	DC	AL1(0)	+3F	04244001
0027F6	00			4358	DC	AL1(0)	+40 XFA	04245001
0027F7	00			4359	DC	AL1(0)	+41 XFB	04246001
0027F8	00			4360	DC	AL1(0)	+42 XFC	04247001
0027F9	00			4361	DC	AL1(0)	+43 XFD	04248001
0027FA	00			4362	DC	AL1(0)	+44 XFE	04249001
0027FB	00			4363	DC	AL1(0)	+45 XFF	04250001
0027FC	00			4364	DC	AL1(0)	+46 XFG	04251001
0027FD	00			4365	DC	AL1(0)	+47 XFH	04252001
0027FE	00			4366	DC	AL1(0)	+48 XFI	04253001
0027FF	00			4367	DC	AL1(0)	+49 XFJ	04254001
002800	00			4368	DC	AL1(0)	+4A XFK	04255001
002801	00			4369	DC	AL1(0)	+4B XFL	04256001
002802	00			4370	DC	AL1(0)	+4C XFM	04257001
002803	00			4371	DC	AL1(0)	+4D XFN	04258001
002804	00			4372	DC	AL1(0)	+4E XFO	04259001
002805	00			4373	DC	AL1(0)	+4F XFP	04260001
002806	00			4374	DC	AL1(0)	+50 XFQ	04261001
002807	00			4375	DC	AL1(0)	+51 XFR	04262001
002808	00			4376	DC	AL1(0)	+52 XFS	04263001
002809	00			4377	DC	AL1(0)	+53 XFT	04264001
00280A	00			4378	DC	AL1(0)	+54 XFU	04265001
00280B	00			4379	DC	AL1(0)	+55 XFV	04266001
00280C	00			4380	DC	AL1(0)	+56 XFW	04267001
00280D	00			4381	DC	AL1(0)	+57 XFX	04268001
00280E	00			4382	DC	AL1(0)	+58 XFY	04269001
00280F	00			4383	DC	AL1(0)	+59 XFZ	04270001
002810	00			4384	DC	AL1(0)	+5A XFDOLLAR	04271001
002811	00			4385	DC	AL1(0)	+5B XFUNDER	04272001
002812	00			4386	DC	AL1(0)	+5C XFHASH	04273001
002813	00			4387	DC	AL1(0)	+5D XFAT	04274001
				4388 *				04275001
				4389 *	BTABLE			04276001
				4390 *				04277001
				4391 *	BLANK TABLES - SCANS FOR FIRST NONBLANK CHARACTER			04278001
				4392 *	USED BY -			04279001
				4393 *	BLANK			04280001
				4394 *	BLKAPOS BLANK AFTER APOSTROPHE			04281001
				4395 *	READROUT IN TERMINATION			04282001
				4396 *				04283001
002814	FF			4397 BTABLE	DC	X'FF'	+00 XFPLUS	04284001
002815	FF			4398	DC	X'FF'	+01 XFMINUS	04285001
002816	FF			4399	DC	X'FF'	+02 XFASTER	04286001
002817	FF			4400	DC	X'FF'	+03 XFSLASH	04287001
002818	00			4401	DC	X'00'	+04	04288001
002819	00			4402	DC	X'00'	+05	04289001
00281A	FF			4403	DC	X'FF'	+06 XFLBRAC	04290001
00281B	FF			4404	DC	X'FF'	+07 XFCOLON	04291001
00281C	FF			4405	DC	X'FF'	+08 XFLSQBR	04292001
00281D	00			4406	DC	X'00'	+09	04293001
00281E	00			4407	DC	X'00'	+0A	04294001
00281F	FF			4408	DC	X'FF'	+0B XFSCOLON	04295001
002820	00			4409	DC	X'00'	+0C	04296001
002821	00			4410	DC	X'00'	+0D	04297001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
002822	00			4411	DC	X'00'	+0E		04298001
002823	00			4412	DC	X'00'	+0F		04299001
002824	FF			4413	DC	X'FF'	+10	XFEQUAL	04300001
002825	FF			4414	DC	X'FF'	+11	XFLT	04301001
002826	FF			4415	DC	X'FF'	+12	XFGT	04302001
002827	00			4416	DC	X'00'	+13		04303001
002828	00			4417	DC	X'00'	+14		04304001
002829	00			4418	DC	X'00'	+15		04305001
00282A	00			4419	DC	X'00'	+16		04306001
00282B	00			4420	DC	X'00'	+17		04307001
00282C	00			4421	DC	X'00'	+18		04308001
00282D	00			4422	DC	X'00'	+19		04309001
00282E	00			4423	DC	X'00'	+1A		04310001
00282F	00			4424	DC	X'00'	+1B		04311001
002830	00			4425	DC	X'00'	+1C		04312001
002831	00			4426	DC	X'00'	+1D		04313001
002832	00			4427	DC	X'00'	+1E		04314001
002833	00			4428	DC	X'00'	+1F		04315001
002834	FF			4429	DC	X'FF'	+20	XFNOT	04316001
002835	00			4430	DC	X'00'	+21		04317001
002836	FF			4431	DC	X'FF'	+22	XFOR	04318001
002837	FF			4432	DC	X'FF'	+23	XFAMPER	04319001
002838	00			4433	DC	X'00'	+24		04320001
002839	FF			4434	DC	X'FF'	+25	XFCOMMA	04321001
00283A	FF			4435	DC	X'FF'	+26	XFRBRAC	04322001
00283B	00			4436	DC	X'00'	+27		04323001
00283C	FF			4437	DC	X'FF'	+28	XFRSQBR	04324001
00283D	00			4438	DC	X'00'	+29		04325001
00283E	00			4439	DC	X'00'	+2A		04326001
00283F	00			4440	DC	X'00'	+2B	XFBLANK	04327001
002840	FF			4441	DC	X'FF'	+2C		04328001
002841	FF			4442	DC	X'FF'	+2D	XFPERIOD	04329001
002842	FF			4443	DC	X'FF'	+2E	XFQUOTE	04330001
002843	FF			4444	DC	X'FF'	+2F		04331001
002844	FF			4445	DC	X'FF'	+30	XF0	04332001
002845	FF			4446	DC	X'FF'	+31	XF1	04333001
002846	FF			4447	DC	X'FF'	+32	XF2	04334001
002847	FF			4448	DC	X'FF'	+33	XF3	04335001
002848	FF			4449	DC	X'FF'	+34	XF4	04336001
002849	FF			4450	DC	X'FF'	+35	XF5	04337001
00284A	FF			4451	DC	X'FF'	+36	XF6	04338001
00284B	FF			4452	DC	X'FF'	+37	XF7	04339001
00284C	FF			4453	DC	X'FF'	+38	XF8	04340001
00284D	FF			4454	DC	X'FF'	+39	XF9	04341001
00284E	00			4455	DC	X'00'	+3A		04342001
00284F	00			4456	DC	X'00'	+3B		04343001
002850	00			4457	DC	X'00'	+3C		04344001
002851	00			4458	DC	X'00'	+3D		04345001
002852	00			4459	DC	X'00'	+3E		04346001
002853	00			4460	DC	X'00'	+3F		04347001
002854	FF			4461	DC	X'FF'	+40	XFA	04348001
002855	FF			4462	DC	X'FF'	+41	XFB	04349001
002856	FF			4463	DC	X'FF'	+42	XFC	04350001
002857	FF			4464	DC	X'FF'	+43	XFD	04351001
002858	FF			4465	DC	X'FF'	+44	XFE	04352001
002859	FF			4466	DC	X'FF'	+45	XFF	04353001
00285A	FF			4467	DC	X'FF'	+46	XFG	04354001
00285B	FF			4468	DC	X'FF'	+47	XFH	04355001
00285C	FF			4469	DC	X'FF'	+48	XFI	04356001
00285D	FF			4470	DC	X'FF'	+49	XFJ	04357001
00285E	FF			4471	DC	X'FF'	+4A	XFK	04358001
00285F	FF			4472	DC	X'FF'	+4B	XFL	04359001
002860	FF			4473	DC	X'FF'	+4C	XFM	04360001
002861	FF			4474	DC	X'FF'	+4D	XFN	04361001
002862	FF			4475	DC	X'FF'	+4E	XFO	04362001
002863	FF			4476	DC	X'FF'	+4F	XFP	04363001
002864	FF			4477	DC	X'FF'	+50	XFQ	04364001
002865	FF			4478	DC	X'FF'	+51	XFR	04365001
002866	FF			4479	DC	X'FF'	+52	XFS	04366001
002867	FF			4480	DC	X'FF'	+53	XFT	04367001
002868	FF			4481	DC	X'FF'	+54	XFU	04368001
002869	FF			4482	DC	X'FF'	+55	XFV	04369001
00286A	FF			4483	DC	X'FF'	+56	XFW	04370001
00286B	FF			4484	DC	X'FF'	+57	XFY	04371001
00286C	FF			4485	DC	X'FF'	+58	XFZ	04372001
00286D	FF			4486	DC	X'FF'	+59	XFZ	04373001
00286E	FF			4487	DC	X'FF'	+5A	XFDOLLAR	04374001
00286F	FF			4488	DC	X'FF'	+5B	XFUNDER	04375001
002870	FF			4489	DC	X'FF'	+5C	XFHASH	04376001
002871	FF			4490	DC	X'FF'	+5D	XFAT	04377001
				4491	*				04378001
				4492	*	TESTTABL			04379001
				4493	*				04380001
				4494	*	USED BY MAIN LOOP SCANNING - GIVES DISPLACEMENTS TO BPRTAB			04381001
				4495	*				04382001
002872	00			4496	TESTTABL	DC AL1(0)	+00	XFPLUS	04383001
002873	00			4497		DC AL1(0)	+01	XFMINUS	04384001
002874	04			4498		DC AL1(4)	+02	XFASTER	04385001
002875	08			4499		DC AL1(8)	+03	XFSLASH	04386001
002876	00			4500		DC AL1(0)	+04		04387001
002877	00			4501		DC AL1(0)	+05		04388001
002878	0C			4502		DC AL1(12)	+06	XFLBRAC	04389001
002879	1C			4503		DC AL1(28)	+07	XFCOLON	04390001
00287A	00			4504		DC AL1(0)	+08	XFLSQBR	04391001
00287B	00			4505		DC AL1(0)	+09		04392001
00287C	00			4506		DC AL1(0)	+0A		04393001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
00287D	90			4507	DC	AL1(144)	+0B	XFSCOLON	04394001
00287E	00			4508	DC	AL1(0)	+0C		04395001
00287F	00			4509	DC	AL1(0)	+0D		04396001
002880	00			4510	DC	AL1(0)	+0E		04397001
002881	00			4511	DC	AL1(0)	+0F		04398001
002882	00			4512	DC	AL1(0)	+10	XFEQUAL	04399001
002883	10			4513	DC	AL1(16)	+11	XFLT	04400001
002884	14			4514	DC	AL1(20)	+12	XFGT	04401001
002885	00			4515	DC	AL1(0)	+13		04402001
002886	00			4516	DC	AL1(0)	+14		04403001
002887	00			4517	DC	AL1(0)	+15		04404001
002888	00			4518	DC	AL1(0)	+16		04405001
002889	00			4519	DC	AL1(0)	+17		04406001
00288A	00			4520	DC	AL1(0)	+18		04407001
00288B	00			4521	DC	AL1(0)	+19		04408001
00288C	00			4522	DC	AL1(0)	+1A		04409001
00288D	00			4523	DC	AL1(0)	+1B		04410001
00288E	00			4524	DC	AL1(0)	+1C		04411001
00288F	00			4525	DC	AL1(0)	+1D		04412001
002890	00			4526	DC	AL1(0)	+1E		04413001
002891	00			4527	DC	AL1(0)	+1F		04414001
002892	18			4528	DC	AL1(24)	+20	XFNOT	04415001
002893	00			4529	DC	AL1(0)	+21		04416001
002894	00			4530	DC	AL1(0)	+22	XFOR	04417001
002895	00			4531	DC	AL1(0)	+23	XFAMPER	04418001
002896	00			4532	DC	AL1(0)	+24		04419001
002897	00			4533	DC	AL1(0)	+25	XFCOMMA	04420001
002898	24			4534	DC	AL1(36)	+26	XFRBRAC	04421001
002899	00			4535	DC	AL1(0)	+27		04422001
00289A	00			4536	DC	AL1(0)	+28	XFRSQBR	04423001
00289B	00			4537	DC	AL1(0)	+29		04424001
00289C	00			4538	DC	AL1(0)	+2A		04425001
00289D	28			4539	DC	AL1(40)	+2B	XFBLANK	04426001
00289E	2C			4540	DC	AL1(44)	+2C		04427001
00289F	30			4541	DC	AL1(48)	+2D	XFPERIOD	04428001
0028A0	34			4542	DC	AL1(52)	+2E	XFQUOTE	04429001
0028A1	38			4543	DC	AL1(56)	+2F		04430001
0028A2	00			4544	DC	AL1(0)	+30	XF0	04431001
0028A3	00			4545	DC	AL1(0)	+31	XF1	04432001
0028A4	00			4546	DC	AL1(0)	+32	XF2	04433001
0028A5	00			4547	DC	AL1(0)	+33	XF3	04434001
0028A6	00			4548	DC	AL1(0)	+34	XF4	04435001
0028A7	00			4549	DC	AL1(0)	+35	XF5	04436001
0028A8	00			4550	DC	AL1(0)	+36	XF6	04437001
0028A9	00			4551	DC	AL1(0)	+37	XF7	04438001
0028AA	00			4552	DC	AL1(0)	+38	XF8	04439001
0028AB	00			4553	DC	AL1(0)	+39	XF9	04440001
0028AC	00			4554	DC	AL1(0)	+3A		04441001
0028AD	00			4555	DC	AL1(0)	+3B		04442001
0028AE	00			4556	DC	AL1(0)	+3C		04443001
0028AF	00			4557	DC	AL1(0)	+3D		04444001
0028B0	00			4558	DC	AL1(0)	+3E		04445001
0028B1	00			4559	DC	AL1(0)	+3F		04446001
0028B2	00			4560	DC	AL1(0)	+40	XFA	04447001
0028B3	00			4561	DC	AL1(0)	+41	XFB	04448001
0028B4	00			4562	DC	AL1(0)	+42	XFC	04449001
0028B5	00			4563	DC	AL1(0)	+43	XFD	04450001
0028B6	00			4564	DC	AL1(0)	+44	XFE	04451001
0028B7	00			4565	DC	AL1(0)	+45	XFF	04452001
0028B8	00			4566	DC	AL1(0)	+46	XFG	04453001
0028B9	00			4567	DC	AL1(0)	+47	XFH	04454001
0028BA	00			4568	DC	AL1(0)	+48	XFI	04455001
0028BB	00			4569	DC	AL1(0)	+49	XFJ	04456001
0028BC	00			4570	DC	AL1(0)	+4A	XFK	04457001
0028BD	00			4571	DC	AL1(0)	+4B	XFL	04458001
0028BE	00			4572	DC	AL1(0)	+4C	XFM	04459001
0028BF	00			4573	DC	AL1(0)	+4D	XFN	04460001
0028C0	00			4574	DC	AL1(0)	+4E	XFO	04461001
0028C1	00			4575	DC	AL1(0)	+4F	XFP	04462001
0028C2	00			4576	DC	AL1(0)	+50	XFQ	04463001
0028C3	00			4577	DC	AL1(0)	+51	XFR	04464001
0028C4	00			4578	DC	AL1(0)	+52	XFS	04465001
0028C5	00			4579	DC	AL1(0)	+53	XFT	04466001
0028C6	00			4580	DC	AL1(0)	+54	XFU	04467001
0028C7	00			4581	DC	AL1(0)	+55	XFV	04468001
0028C8	00			4582	DC	AL1(0)	+56	XFW	04469001
0028C9	00			4583	DC	AL1(0)	+57	XFX	04470001
0028CA	00			4584	DC	AL1(0)	+58	XFY	04471001
0028CB	00			4585	DC	AL1(0)	+59	XFZ	04472001
0028CC	00			4586	DC	AL1(0)	+5A	XFDOLLAR	04473001
0028CD	00			4587	DC	AL1(0)	+5B	XFUNDER	04474001
0028CE	00			4588	DC	AL1(0)	+5C	XFHASH	04475001
0028CF	00			4589	DC	AL1(0)	+5D	XFAT	04476001
				4590	*				04477001
				4591	*	ARTABLE			04478001
				4592	*				04479001
				4593	*	USED BY LIST EQUIVALENT TO THE USE OF TESTTABLE BY TESTLOOP			04480001
				4594	*	GIVES DISPLACEMENT TO BPRTAB			04481001
				4595	*				04482001
0028D0	00			4596	ARTABLE DC	AL1(0)	+00	XFPLUS	04483001
0028D1	00			4597	DC	AL1(0)	+01	XFMINUS	04484001
0028D2	04			4598	DC	AL1(4)	+02	XFASTER	04485001
0028D3	88			4599	DC	AL1(136)	+03	XFSLASH <-----	04486001
0028D4	00			4600	DC	AL1(0)	+04		04487001
0028D5	00			4601	DC	AL1(0)	+05		04488001
0028D6	68			4602	DC	AL1(104)	+06	XFLBRAC <--	04489001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.12
0028D7	54			4603	DC	AL1(84)	+07 XFCOLON	04490001
0028D8	68			4604	DC	AL1(104)	+08 XFLSQBR <--	04491001
0028D9	00			4605	DC	AL1(0)	+09	04492001
0028DA	00			4606	DC	AL1(0)	+0A	04493001
0028DB	58			4607	DC	AL1(88)	+0B XFSCOLON	04494001
0028DC	00			4608	DC	AL1(0)	+0C	04495001
0028DD	00			4609	DC	AL1(0)	+0D	04496001
0028DE	00			4610	DC	AL1(0)	+0E	04497001
0028DF	00			4611	DC	AL1(0)	+0F	04498001
0028E0	00			4612	DC	AL1(0)	+10 XFEQUAL	04499001
0028E1	10			4613	DC	AL1(16)	+11 XFLT	04500001
0028E2	14			4614	DC	AL1(20)	+12 XFGT	04501001
0028E3	00			4615	DC	AL1(0)	+13	04502001
0028E4	00			4616	DC	AL1(0)	+14	04503001
0028E5	00			4617	DC	AL1(0)	+15	04504001
0028E6	00			4618	DC	AL1(0)	+16	04505001
0028E7	00			4619	DC	AL1(0)	+17	04506001
0028E8	00			4620	DC	AL1(0)	+18	04507001
0028E9	00			4621	DC	AL1(0)	+19	04508001
0028EA	00			4622	DC	AL1(0)	+1A	04509001
0028EB	00			4623	DC	AL1(0)	+1B	04510001
0028EC	00			4624	DC	AL1(0)	+1C	04511001
0028ED	00			4625	DC	AL1(0)	+1D	04512001
0028EE	00			4626	DC	AL1(0)	+1E	04513001
0028EF	00			4627	DC	AL1(0)	+1F	04514001
0028F0	18			4628	DC	AL1(24)	+20 XFNOT	04515001
0028F1	00			4629	DC	AL1(0)	+21	04516001
0028F2	00			4630	DC	AL1(0)	+22 XFOR	04517001
0028F3	00			4631	DC	AL1(0)	+23 XFAMPER	04518001
0028F4	00			4632	DC	AL1(0)	+24	04519001
0028F5	80			4633	DC	AL1(128)	+25 XFCOMMA	04520001
0028F6	88			4634	DC	AL1(136)	+26 XFRBRAC	04521001
0028F7	00			4635	DC	AL1(0)	+27	04522001
0028F8	88			4636	DC	AL1(136)	+28 XFRSQBR <-----	04523001
0028F9	00			4637	DC	AL1(0)	+29	04524001
0028FA	00			4638	DC	AL1(0)	+2A	04525001
0028FB	28			4639	DC	AL1(40)	+2B XFBLANK	04526001
0028FC	2C			4640	DC	AL1(44)	+2C	04527001
0028FD	84			4641	DC	AL1(132)	+2D XFPERIOD	04528001
0028FE	34			4642	DC	AL1(52)	+2E XFQUOTE	04529001
0028FF	38			4643	DC	AL1(56)	+2F	04530001
002900	00			4644	DC	AL1(0)	+30 XF0	04531001
002901	00			4645	DC	AL1(0)	+31 XF1	04532001
002902	00			4646	DC	AL1(0)	+32 XF2	04533001
002903	00			4647	DC	AL1(0)	+33 XF3	04534001
002904	00			4648	DC	AL1(0)	+34 XF4	04535001
002905	00			4649	DC	AL1(0)	+35 XF5	04536001
002906	00			4650	DC	AL1(0)	+36 XF6	04537001
002907	00			4651	DC	AL1(0)	+37 XF7	04538001
002908	00			4652	DC	AL1(0)	+38 XF8	04539001
002909	00			4653	DC	AL1(0)	+39 XF9	04540001
00290A	00			4654	DC	AL1(0)	+3A	04541001
00290B	00			4655	DC	AL1(0)	+3B	04542001
00290C	00			4656	DC	AL1(0)	+3C	04543001
00290D	00			4657	DC	AL1(0)	+3D	04544001
00290E	00			4658	DC	AL1(0)	+3E	04545001
00290F	00			4659	DC	AL1(0)	+3F	04546001
002910	00			4660	DC	AL1(0)	+40 XFA	04547001
002911	00			4661	DC	AL1(0)	+41 XFB	04548001
002912	00			4662	DC	AL1(0)	+42 XFC	04549001
002913	00			4663	DC	AL1(0)	+43 XFD	04550001
002914	00			4664	DC	AL1(0)	+44 XFE	04551001
002915	00			4665	DC	AL1(0)	+45 XFF	04552001
002916	00			4666	DC	AL1(0)	+46 XFG	04553001
002917	00			4667	DC	AL1(0)	+47 XFH	04554001
002918	00			4668	DC	AL1(0)	+48 XFI	04555001
002919	00			4669	DC	AL1(0)	+49 XFJ	04556001
00291A	00			4670	DC	AL1(0)	+4A XFK	04557001
00291B	00			4671	DC	AL1(0)	+4B XFL	04558001
00291C	00			4672	DC	AL1(0)	+4C XFM	04559001
00291D	00			4673	DC	AL1(0)	+4D XFN	04560001
00291E	00			4674	DC	AL1(0)	+4E XFO	04561001
00291F	00			4675	DC	AL1(0)	+4F XFP	04562001
002920	00			4676	DC	AL1(0)	+50 XFQ	04563001
002921	00			4677	DC	AL1(0)	+51 XFR	04564001
002922	00			4678	DC	AL1(0)	+52 XFS	04565001
002923	00			4679	DC	AL1(0)	+53 XFT	04566001
002924	00			4680	DC	AL1(0)	+54 XFU	04567001
002925	00			4681	DC	AL1(0)	+55 XFV	04568001
002926	00			4682	DC	AL1(0)	+56 XFW	04569001
002927	00			4683	DC	AL1(0)	+57 XFX	04570001
002928	00			4684	DC	AL1(0)	+58 XFY	04571001
002929	00			4685	DC	AL1(0)	+59 XFZ	04572001
00292A	00			4686	DC	AL1(0)	+5A XFDOLLAR	04573001
00292B	00			4687	DC	AL1(0)	+5B XFUNDER	04574001
00292C	00			4688	DC	AL1(0)	+5C XFHASH	04575001
00292D	00			4689	DC	AL1(0)	+5D XFAT	04576001
				4690 *				04577001
				4691 *	TRINTEXT			04578001
				4692 *				04579001
				4693 *	CONVERT TABLE FOR INTERNAL CODE TO EBCDIC			04580001
				4694 *				04581001
				4695 *	USED BY CODE TO TRANSLATE PROCEDURE NAME PROCEDURE TO			04582001
				4696 *	TRANSLATE PROCEDURE NAME FOR ESD CARD IF PRECOMPILED			04583001
				4697 *	SPECIFIED			04584001
				4698 *				04585001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
00292E	4040404040404040			4699	TRINTEXT	DC 96C' '	04586001
00298E		0298E	02959	4700	ORG	TRINTEXT+XFBANK	04587001
002959	40			4701	DC	C' '	04588001
00295A		0295A	0295E	4702	ORG	TRINTEXT+XF0	04589001
00295E	F0F1F2F3F4F5F6F7			4703	DC	C'0123456789'	04590001
002968		02968	0296E	4704	ORG	TRINTEXT+XFA	04591001
00296E	C1C2C3C4C5C6C7C8			4705	DC	C'ABCDEFGHJKLMNPOQRSTUVWXYZ'	04592001
002988		02988	02988	4706	ORG	TRINTEXT+XFDOLLAR	04593001
002988	5B6D7B7C			4707	DC	C'\$_#@'	04594001
00298C		0298C	0298E	4708	ORG		04595001
				4709	*		04596001
				4710	*	KWLUTAB	04597001
				4711	*		04598001
				4712	*	USED TO REFERENCE ENTRIES IN KEYWTAB FOR KEYWORDS	04599001
				4713	*		04600001
00298E	0000						
002990	000029B8			4714	KWLUTAB	DC A(KEYWDL01)	04601001
002994	000029C1			4715	DC	A(KEYWDL02)	04602001
002998	000029D1			4716	DC	A(KEYWDL03)	04603001
00299C	000029EA			4717	DC	A(KEYWDL04)	04604001
0029A0	00002A2A			4718	DC	A(KEYWDL05)	04605001
0029A4	00002A7B			4719	DC	A(KEYWDL06)	04606001
0029A8	00002A8E			4720	DC	A(KEYWDL07)	04607001
0029AC	00002AC1			4721	DC	A(KEYWDL08)	04608001
0029B0	00002ACD			4722	DC	A(KEYWDL09)	04609001
0029B4	00002ADA			4723	DC	A(KEYWDL10)	04610001
				4724	*		04611001
				4725	*	KEYWTAB	04612001
				4726	*		04613001
				4727	*	CONTAINS ALL KEYWORDS, EACH FOLLOWED BY 3 BYTES OF	04614001
				4728	*	INFORMATION BEING 2 BYTES OF CHARACTERISTICS AND A	04615001
				4729	*	DISPLACEMENT INTO DELPRGTB	04616001
				4730	*	FOR A SECTION IN THE KEYWTAB. A SECTION CONTAINS	04617001
				4731	*	ALL THE KEYWORDS OF THE SAME LENGTH	04618001
				4732	*	1. THE FIRST BYTE IN EACH SECTION SAYS HOW MANY ENTRIES	04619001
				4733	*	THERE ARE IN THE SECTION. THEREAFTER THE DELIMITER PLUS 3	04620001
				4734	*	BYTES OF INTERNAL CODE MAKES A SUBSECTION	04621001
				4735	*	2. THE FIRST 2 BYTES OF THE INTERNAL CODE IS	04622001
				4736	*	CHARACTERISTICS FOR THE DELIMITER	04623001
				4737	*	3. THE THIRD BYTE IS A DISPLACEMENT TO THE DELPRGTB,	04624001
				4738	*	WHERE THE ADDR IS PICKED UP TO THE PROGRAM TO HANDLE	04625001
				4739	*	THE KEYWORD	04626001
				4740	*		04627001
		029B8		4741	KEYWTAB	EQU *	04628001
0029B8	02			4742	KEYWDL01	DC AL1(2)	04629001
				4743	IEXCGEN	DC, '/'	04630001
0029B9	03			4744+	DC	X'03'	01-IEXCG
0029BA	040000			4745	DC	XL2'0400',XL1'00'	04631001
				4746	IEXCGEN	DC, '('	04632001
0029BD	06			4747+	DC	X'06'	01-IEXCG
0029BE	000004			4748	DC	XL2'0000',XL1'04'	04633001
				4749	*		04634001
0029C1	03			4750	KEYWDL02	DC AL1(3)	04635001
				4751	IEXCGEN	DC, 'DO'	04636001
0029C2	434E			4752+	DC	X'434E'	01-IEXCG
0029C4	1C0008			4753	DC	XL2'1C00',XL1'08'	04637001
				4754	IEXCGEN	DC, 'IF'	04638001
0029C7	4845			4755+	DC	X'4845'	01-IEXCG
0029C9	1D000C			4756	DC	XL2'1D00',XL1'0C'	04639001
				4757	IEXCGEN	DC, 'OR'	04640001
0029CC	4E51			4758+	DC	X'4E51'	01-IEXCG
0029CE	220000			4759	DC	XL2'2200',XL1'00'	04641001
				4760	*		04642001
0029D1	04			4761	KEYWDL03	DC AL1(4)	04643001
				4762	KWEND	IEXCGEN DC, 'END'	04644001
0029D2	444D43			4763+KWEND	DC	X'444D43'	01-IEXCG
0029D5	000010			4764	DC	XL2'0000',XL1'10'	04645001
				4765	IEXCGEN	DC, 'FOR'	04646001
0029D8	454E51			4766+	DC	X'454E51'	01-IEXCG
0029DB	000014			4767	DC	XL2'0000',XL1'14'	04647001
				4768	IEXCGEN	DC, 'AND'	04648001
0029DE	404D43			4769+	DC	X'404D43'	01-IEXCG
0029E1	230000			4770	DC	XL2'2300',XL1'00'	04649001
				4771	IEXCGEN	DC, 'NOT'	04650001
0029E4	4D4E53			4772+	DC	X'4D4E53'	01-IEXCG
0029E7	200000			4773	DC	XL2'2000',XL1'00'	04651001
				4774	*		04652001
0029EA	09			4775	KEYWDL04	DC AL1(9)	04653001
				4776	IEXCGEN	DC, 'REAL'	04654001
0029EB	5144404B			4777+	DC	X'5144404B'	01-IEXCG
0029EF	C21218			4778	DC	XL2'C212',XL1'18'	04655001
				4779	IEXCGEN	DC, 'STEP'	04656001
0029F2	5253444F			4780+	DC	X'5253444F'	01-IEXCG
0029F6	190000			4781	DC	XL2'1900',XL1'00'	04657001
				4782	IEXCGEN	DC, 'THEN'	04658001
0029F9	5347444D			4783+	DC	X'5347444D'	01-IEXCG
0029FD	1E0008			4784	DC	XL2'1E00',XL1'08'	04659001
				4785	KWELSE	IEXCGEN DC, 'ELSE'	04660001
002A00	444B5244			4786+KWELSE	DC	X'444B5244'	01-IEXCG
002A04	1F0008			4787	DC	XL2'1F00',XL1'08'	04661001
				4788	IEXCGEN	DC, 'GOTO'	04662001
002A07	464E534E			4789+	DC	X'464E534E'	01-IEXCG
002A0B	17000C			4790	DC	XL2'1700',XL1'0C'	04663001
				4791	IEXCGEN	DC, 'TRUE'	04664001
002A0E	53515444			4792+	DC	X'53515444'	01-IEXCG
002A12	07001C			4793	DC	XL2'0700',XL1'1C'	04665001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
				4794	IEXCGEN	DC, 'LESS'	LESS 04666001
002A15	4B445252			4795+	DC	X'4B445252'	01-IEXCG
002A19	110000			4796	DC	XL2'1100',XL1'00'	04667001
				4797	IEXCGEN	DC, 'CODE'	04668001
002A1C	424E4344			4798+	DC	X'424E4344'	01-IEXCG
002A20	000020			4799	DC	XL2'0000',XL1'20'	04669001
				4800	IEXCGEN	DC, 'IMPL'	04670001
002A23	484C4F4B			4801+	DC	X'484C4F4B'	01-IEXCG
002A27	210000			4802	DC	XL2'2100',XL1'00'	04671001
				4803 *			04672001
002A2A	0A			4804 KEYWDL05	DC	AL1(10)	NUMBER OF ENTRIES 04673001
				4805	IEXCGEN	DC, 'BEGIN'	BEGIN 04674001
002A2B	414446484D			4806+	DC	X'414446484D'	01-IEXCG
002A30	000024			4807	DC	XL2'0000',XL1'24'	04675001
				4808	IEXCGEN	DC, 'UNTIL'	UNTIL 04676001
002A33	544D53484B			4809+	DC	X'544D53484B'	01-IEXCG
002A38	1A0000			4810	DC	XL2'1A00',XL1'00'	04677001
				4811 KWARRAY	IEXCGEN	DC, 'ARRAY'	ARRAY 04678001
002A3B	4051514058			4812+KWARRAY	DC	X'4051514058'	01-IEXCG
002A40	CA1628			4813	DC	XL2'CA16',XL1'28'	04679001
				4814	IEXCGEN	DC, 'VALUE'	VALUE 04680001
002A43	55404B5444			4815+	DC	X'55404B5444'	01-IEXCG
002A48	00002C			4816	DC	XL2'0000',XL1'2C'	04681001
				4817	IEXCGEN	DC, 'LABEL'	LABEL 04682001
002A4B	4B4041444B			4818+	DC	X'4B4041444B'	01-IEXCG
002A50	CA1830			4819	DC	XL2'CA18',XL1'30'	04683001
				4820	IEXCGEN	DC, 'WHILE'	WHILE 04684001
002A53	5647484B44			4821+	DC	X'5647484B44'	01-IEXCG
002A58	1B0000			4822	DC	XL2'1B00',XL1'00'	04685001
				4823	IEXCGEN	DC, 'FALSE'	FLASE 04686001
002A5B	45404B5244			4824+	DC	X'45404B5244'	01-IEXCG
002A60	00001C			4825	DC	XL2'0000',XL1'1C'	04687001
				4826	IEXCGEN	DC, 'POWER'	POWER 04688001
002A63	4F4E564451			4827+	DC	X'4F4E564451'	01-IEXCG
002A68	050000			4828	DC	XL2'0500',XL1'00'	04689001
				4829	IEXCGEN	DC, 'EQUAL'	EQUAL 04690001
002A6B	445054404B			4830+	DC	X'445054404B'	01-IEXCG
002A70	100000			4831	DC	XL2'1000',XL1'00'	04691001
				4832	IEXCGEN	DC, 'EQUIV'	EQUIV 04692001
002A73	4450544855			4833+	DC	X'4450544855'	01-IEXCG
002A78	240000			4834	DC	XL2'2400',XL1'00'	04693001
				4835 *			04694001
002A7B	02			4836 KEYWDL06	DC	AL1(2)	NUMBER OF ENTRIES 04695001
				4837	IEXCGEN	DC, 'SWITCH'	SWITCH 04696001
002A7C	525648534247			4838+	DC	X'525648534247'	01-IEXCG
002A82	CA1C34			4839	DC	XL2'CA1C',XL1'34'	04697001
				4840	IEXCGEN	DC, 'STRING'	STRING 04698001
002A85	525351484D46			4841+	DC	X'525351484D46'	01-IEXCG
002A8B	CB1030			4842	DC	XL2'CB10',XL1'30'	04699001
				4843 *			04700001
002A8E	05			4844 KEYWDL07	DC	AL1(5)	04701001
				4845	IEXCGEN	DC, 'INTEGER'	INTEGER 04702001
002A8F	484D5344464451			4846+	DC	X'484D5344464451'	01-IEXCG
002A96	C21118			4847	DC	XL2'C211',XL1'18'	04703001
				4848	IEXCGEN	DC, 'BOOLEAN'	BOOLEAN 04704001
002A99	414E4E4B44404D			4849+	DC	X'414E4E4B44404D'	01-IEXCG
002AA0	C21318			4850	DC	XL2'C213',XL1'18'	04705001
				4851	IEXCGEN	DC, 'COMMENT'	COMMENT 04706001
002AA3	424E4C4C444D53			4852+	DC	X'424E4C4C444D53'	01-IEXCG
002AAA	000038			4853	DC	XL2'0000',XL1'38'	04707001
				4854	IEXCGEN	DC, 'NOTLESS'	NOTLESS 04708001
002AAD	4D4E534B445252			4855+	DC	X'4D4E534B445252'	01-IEXCG
002AB4	150000			4856	DC	XL2'1500',XL1'00'	04709001
				4857	IEXCGEN	DC, 'GREATER'	GREATER 04710001
002AB7	46514440534451			4858+	DC	X'46514440534451'	01-IEXCG
002ABE	120000			4859	DC	XL2'1200',XL1'00'	04711001
				4860 *			04712001
002AC1	01			4861 KEYWDL08	DC	AL1(1)	NUMBER OF ENTRIES 04713001
				4862	IEXCGEN	DC, 'NOTEQUAL'	NOTEQUAL 04714001
002AC2	4D4E53445054404B			4863+	DC	X'4D4E53445054404B'	01-IEXCG
002ACA	130000			4864	DC	XL2'1300',XL1'00'	04715001
				4865 *			04716001
002ACD	01			4866 KEYWDL09	DC	AL1(1)	NUMBER OF ENTRIES 04717001
				4867 KWPROC	IEXCGEN	DC, 'PROCEDURE'	PROCEDURE 04718001
002ACE	4F514E4244435451			4868+KWPROC	DC	X'4F514E424443545144'	01-IEXCG
002AD7	CAD03C			4869	DC	XL2'CAD0',XL1'3C'	04719001
				4870 *			04720001
002ADA	01			4871 KEYWDL10	DC	AL1(1)	NUMBER OF ENTRIES 04721001
				4872	IEXCGEN	DC, 'NOTGREATER'	NOTGREATER 04722001
002ADB	4D4E534651444053			4873+	DC	X'4D4E5346514440534451'	01-IEXCG
002AE5	140000			4874	DC	XL2'1400',XL1'00'	04723001
				4875 *			04724001
				4876 *	DELPRGTB		04725001
				4877 *			04726001
				4878 *	BRANCH ADDR TABLE USED AFTER A KEYWORD HAS BEEN FOUND		04727001
				4879 *			04728001
002AE8	00000CAE			4880 DELPRGTB	DC	A(NORMAL)	+00 04729001
002AEC	00001D70			4881	DC	A(STRING)	+04 04730001
002AF0	00000D02			4882	DC	A(TED)	+08 04731001
002AF4	00000CE8			4883	DC	A(GIF)	+12 04732001
002AF8	00000E82			4884	DC	A(END)	+16 04733001
002AFC	000013C4			4885	DC	A(FOR)	+20 04734001
002B00	00001496			4886	DC	A(TYPE)	+24 04735001
002B04	00000CC6			4887	DC	A(BOLCON)	+28 04736001
002B08	000015EE			4888	DC	A(CODE)	+32 04737001
002B0C	00000D3A			4889	DC	A(BEGIN)	+36 04738001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
002B10	00001866			4890	DC	A(ARRAY)	+40		04739001
002B14	000017E4			4891	DC	A(VALUE)	+44		04740001
002B18	00001692			4892	DC	A(SPEC)	+48		04741001
002B1C	00001C28			4893	DC	A(SWITCH)	+52		04742001
002B20	00001338			4894	DC	A(COM)	+56		04743001
002B24	00001F28			4895	DC	A(PROCEDUR)	+60		04744001
002B28	0000182E			4896	DC	A(TYPEARRY)	+64		04745001
002B2C	00001EE4			4897	DC	A(TYPPROC)	+68		04746001
				4898	*				04747001
				4899	*	COMTABLE			04748001
				4900	*				04749001
				4901	*	USED BY COMMENT PROGRAM			04750001
				4902	*	TESTS FOR SEMICOLON, PERIOD, QUOTE AND ZETA			04751001
				4903	*	GIVES DISPLACEMENT TO PROGRAMS FROM COMCEE2+2			04752001
				4904	*				04753001
002B30	0000000000000000			4905	COMTABLE	DC XL96'00'			04754001
002B90		02B90	02B3B	4906	ORG	COMTABLE+XFSCOLON			04755001
002B3B	2A			4907	DC	AL1(42)	COMCEE2+2+42		04756001
002B3C		02B3C	02B5D	4908	ORG	COMTABLE+XFPERIOD			04757001
002B5D	22			4909	DC	AL1(34)	COMCEE2+2+34		04758001
002B5E		02B5E	02B5E	4910	ORG	COMTABLE+XFQUOTE			04759001
002B5E	0E			4911	DC	AL1(14)	COMCEE2+2+14		04760001
002B5F		02B5F	02B5F	4912	ORG	COMTABLE+XFZETA			04761001
002B5F	1E			4913	DC	AL1(30)	COMCEE2+2+30		04762001
002B60		02B60	02B90	4914	ORG	,			04763001
				4915	*				04764001
				4916	*	STRTABLE			04765001
				4917	*				04766001
				4918	*	USED BY STRING PROGRAM			04767001
				4919	*	SCANS FOR QUOTE OR ZETA			04768001
				4920	*	PROVIDES DISPLACEMENTS TO BPRTAB			04769001
				4921	*				04770001
002B90	0000000000000000			4922	STRTABLE	DC XL96'00'			04771001
002BF0		02BF0	02BBE	4923	ORG	STRTABLE+XFQUOTE			04772001
002BBE	8C			4924	DC	AL1(140)			04773001
002BBF		02BBF	02BBF	4925	ORG	STRTABLE+XFZETA			04774001
002BBF	38			4926	DC	AL1(56)			04775001
002BC0		02BC0	02BF0	4927	ORG	,			04776001
				4928	*				04777001
				4929	*	KEYTAB			04778001
				4930	*				04779001
				4931	*	USED BY TRANSP			04780001
				4932	*	BYTE 3 IS EXPECTED BYTE, IF THAT ONE MATCHES CHAR IN			04781001
				4933	*	INPUT BYTE 1 IS PUT OUT OTHERWISE BYTE 2			04782001
				4934	*	THE DISPLACEMENT FROM TESTTABL OR ATABLE IS USED TO GET			04783001
				4935	*	THE APPROPRIATE ENTRY IN KEYTAB			04784001
				4936	*	USED WHEN -			04785001
				4937	*	FOUND	EXPECTED		04786001
				4938	*	*	*		04787001
				4939	*	/	)		04788001
				4940	*	(	/		04789001
				4941	*	<	=		04790001
				4942	*	>	=		04791001
				4943	*	=	=		04792001
				4944	*				04793001
002BF0	00000000			4945	KEYTAB	DC X'00000000'	+00		04794001
002BF4	00050202			4946	DC	X'00',AL1(XFPOWER),AL1(XFASTER),AL1(XFASTER)	+04 XFAS		04795001
002BF8	00280326			4947	DC	X'00',AL1(XFRSQBR),AL1(XFSLASH),AL1(XFRBRAC)	+08 XFSLASH		04796001
002BFC	00080603			4948	DC	X'00',AL1(XFLSQBR),AL1(XFLBRAC),AL1(XFSLASH)	+12 XF		04797001
002C00	00141110			4949	DC	X'00',AL1(20),AL1(XFLT),AL1(XFEQUAL)	+16 XFLT		04798001
002C04	00151210			4950	DC	X'00',AL1(21),AL1(XFGT),AL1(XFEQUAL)	+20 XFGT		04799001
002C08	00132010			4951	DC	X'00',AL1(19),AL1(XFNOT),AL1(XFEQUAL)	+24 XFNOT		04800001
				4952	*				04801001
				4953	*	TREXTINT			04802001
				4954	*				04803001
				4955	*	USED IN CIB TO TRANSLATE FROM EBCDIC TO INTERNAL CODE			04804001
				4956	*				04805001
002C0C	2C2C2C2C2C2C2C2C			4957	TREXTINT	DC 256AL1(XFEND)			04806001
002D0C		02D0C	02C4C	4958	ORG	TREXTINT+C' '			04807001
002C4C	2B			4959	DC	AL1(XFBLANK)			04808001
002C4D		02C4D	02C57	4960	ORG	TREXTINT+C' '			04809001
002C57	2D110600			4961	DC	AL1(XFPERIOD),AL1(XFLT),AL1(XFLBRAC),AL1(XFPLUS)			04810001
002C5B	2223			4962	DC	AL1(XFOR),AL1(XFAMPER)			04811001
002C5D		02C5D	02C67	4963	ORG	TREXTINT+C' '\$'			04812001
002C67	5A			4964	DC	AL1(XFDOLLAR)			04813001
002C68		02C68	02C68	4965	ORG	TREXTINT+C' '*'			04814001
002C68	02260B20			4966	DC	AL1(XFASTER),AL1(XFRBRAC),AL1(XFSCOLON),AL1(XFNOT)			04815001
002C6C	0103			4967	DC	AL1(XFMINUS),AL1(XFSLASH)			04816001
002C6E		02C6E	02C77	4968	ORG	TREXTINT+C' ','			04817001
002C77	25			4969	DC	AL1(XFCOMMA)			04818001
002C78		02C78	02C79	4970	ORG	TREXTINT+C' '-'			04819001
002C79	5B			4971	DC	AL1(XFUNDER)			04820001
002C7A		02C7A	02C7A	4972	ORG	TREXTINT+C' '>'			04821001
002C7A	12			4973	DC	AL1(XFGT)			04822001
002C7B		02C7B	02C86	4974	ORG	TREXTINT+C' ':'			04823001
002C86	07			4975	DC	AL1(XFCOLON)			04824001
002C87		02C87	02C87	4976	ORG	TREXTINT+C' '#'			04825001
002C87	5C5D			4977	DC	AL1(XFHASH),AL1(XFAT)			04826001
002C89		02C89	02C89	4978	ORG	TREXTINT+C' ''''			04827001
002C89	2E10			4979	DC	AL1(XFQUOTE),AL1(XFEQUAL)			04828001
002C8B		02C8B	02C8D	4980	ORG	TREXTINT+X' 81'	LOWER CASE A		04829001
002C8D	404142434445			4981	DC	AL1(XFA),AL1(XFB),AL1(XFC),AL1(XFD),AL1(XFE),AL1(XFF)			04830001
002C93	464748			4982	DC	AL1(XFG),AL1(XFH),AL1(XFI)			04831001
002C96		02C96	02C9D	4983	ORG	TREXTINT+X' 91'	LOWER CASE J		04832001
002C9D	494A4B4C4D4E			4984	DC	AL1(XFJ),AL1(XFK),AL1(XFL),AL1(XFM),AL1(XFN),AL1(XFO)			04833001
002CA3	4F5051			4985	DC	AL1(XFP),AL1(XFQ),AL1(XFR)			04834001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
002CA6		02CA6	02CAE	4986	ORG	TREXTINT+X'A2'	LOWER CASE S 04835001
002CAE	525354555657			4987	DC	AL1(XFS),AL1(XFT),AL1(XFU),AL1(XFV),AL1(XFW),AL1(XFX)	04836001
002CB4	5859			4988	DC	AL1(XFY),AL1(XFZ)	04837001
002CB6		02CB6	02CB9	4989	ORG	TREXTINT+C'['	04838001
002CB9	08			4990	DC	AL1(XFLSQBR)	04839001
002CBA		02CBA	02CC9	4991	ORG	TREXTINT+C']'	04840001
002CC9	28			4992	DC	AL1(XFRSQBR)	04841001
002CCA		02CCA	02CCD	4993	ORG	TREXTINT+C'A'	04842001
002CCD	404142434445			4994	DC	AL1(XFA),AL1(XFB),AL1(XFC),AL1(XFD),AL1(XFE),AL1(XFF)	04843001
002CD3	464748			4995	DC	AL1(XFG),AL1(XFH),AL1(XFI)	04844001
002CD6		02CD6	02CDD	4996	ORG	TREXTINT+C']'	04845001
002CDD	494A4B4C4D4E			4997	DC	AL1(XFJ),AL1(XFK),AL1(XFL),AL1(XFM),AL1(XFN),AL1(XFO)	04846001
002CE3	4F5051			4998	DC	AL1(XFP),AL1(XFQ),AL1(XFR)	04847001
002CE6		02CE6	02CEE	4999	ORG	TREXTINT+C'S'	04848001
002CEE	525354555657			5000	DC	AL1(XFS),AL1(XFT),AL1(XFU),AL1(XFV),AL1(XFW),AL1(XFX)	04849001
002CF4	5859			5001	DC	AL1(XFY),AL1(XFZ)	04850001
002CF6		02CF6	02CFC	5002	ORG	TREXTINT+C'0'	04851001
002CFC	303132333435			5003	DC	AL1(XF0),AL1(XF1),AL1(XF2),AL1(XF3),AL1(XF4),AL1(XF5)	04852001
002D02	36373839			5004	DC	AL1(XF6),AL1(XF7),AL1(XF8),AL1(XF9)	04853001
002D06		02D06	02D0C	5005	ORG	, RESTORE LOCATION COUNTER	04854001
				5006 *			04855001
				5007 *	KFCONST		04856001
				5008 *			04857001
				5009 *	KEEPS THE CONSTANTS 0 THROUGH 15		04858001
				5010 *	THE CONSTANTS ARE USED WITHIN SCAN 1/2 FOR CALCULATION		04859001
				5011 *	AND ARE THEN INSERTED AS THE FIRST 64 BYTES OF THE		04860001
				5012 *	CONSTANT POOL		04861001
				5013 *			04862001
002D0C				5014	KFCONST DC	0F'0'	04863001
002D0C	00000000			5015	KF0 DC	F'0'	+00 04864001
002D10	00000001			5016	KF1 DC	F'1'	+04 04865001
002D14	00000002			5017	KF2 DC	F'2'	+08 04866001
002D18	00000003			5018	KF3 DC	F'3'	+12 04867001
002D1C	00000004			5019	KF4 DC	F'4'	+16 04868001
002D20	00000005			5020	KF5 DC	F'5'	+20 04869001
002D24	00000006			5021	KF6 DC	F'6'	+24 04870001
002D28	00000007			5022	KF7 DC	F'7'	+28 04871001
002D2C	00000008			5023	KF8 DC	F'8'	+32 04872001
002D30	00000009			5024	KF9 DC	F'9'	+36 04873001
002D34	0000000A			5025	KF10 DC	F'10'	+40 04874001
002D38	0000000B			5026	KF11 DC	F'11'	+44 04875001
002D3C	0000000C			5027	KF12 DC	F'12'	+48 04876001
002D40	0000000D			5028	KF13 DC	F'13'	+52 04877001
002D44	0000000E			5029	KF14 DC	F'14'	+56 04878001
002D48	0000000F			5030	KF15 DC	F'15'	+60 04879001
				5031 *			04880001
				5032 *	VARIABLES AND CONSTANTS		04881001
				5033 *			04882001
002D4C	000061A8			5034	KF25000 DC	F'25000'	04883001
002D50	000007D0			5035	KF2000 DC	F'2000'	04884001
002D54	00000FFF			5036	KF4095 DC	F'4095'	04885001
002D58	1000			5037	KH4096 DC	H'4096'	04886001
002D5A	000000000000						
002D60	0000000000000000			5038	DOUBLE DC	D'0'	04887001
002D68	00000100			5039	KF256 DC	F'256'	04888001
002D6C	2EC8030000			5040	INT DC	X'2EC8030000'	COMMON PART OF THE INTERNAL NAMES OF BOOLEAN CONSTANTS 04889001
				5041 *			04890001
002D71	00						
002D72	0000			5042	ENDCOUNT DC	H'0'	04891001
002D74	0000000000000000			5043	ERRSAVE DC	4F'0'	04892001
				5044 *			04893001
002D84	D7D9D6C7D9C1D440			5045	ESDNAME DC	CL8'PROGRAM'	04894001
002D8C	1C			5046	KP1 DC	PL1'1'	CARD COUNT INCREMENT 04895001
				5047 *			04896001
002D8D	E2D6E4D9C3C540D7			5048	HEAD1 DC	C'SOURCE PROGRAM'	04897001
002D9B	E2C34040404040E2			5049	HEAD2 DC	C'SC SOURCE STATEMENT'	04898001
				5050 *			04899001
002DB2	F0			5051	OPINCHAR DC	C'0'	04900001
002DB3	00						
002DB4	00000000			5052	BRACKET DC	F'0'	BRACKET COUNTER 04901001
002DB8	0000004040404040			5053	ESDCON DC	X'0000004040404040'	ESD CONSTANT 7 BYTES 04902001
002DBF	402020202020			5054	SCPATTN DC	XL6'402020202020'	SEMICOLON EDIT PATTERN 04903001
				5055 *			04904001
002DC5	000000						
002DC8	0000000000000000			5056	SAVE1 DC	7F'0'	04905001
002DE4	4040404040404040			5057	SAVEPRNT DC	CL88' '	04906001
002E3C	0000FFFF			5058	SCOVFL DC	F'65535'	(2**16)-1 04907001
				5059 *			04908001
002E40				5060	LTORG		04909001
				5061 *			04910001
000000		00000	00D91	5062	WORKAREA DSECT		04911001
				5063 *			04912001
				5064	COPY WORKAREA	COMMON WORKAREA	04913001
				5065=*			00001001
				5066=*	WORKAREA - MAPPING CSECT IEX00001		00002001
				5067=*			00003001
				5068=*	ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT		00004001
				5069=*			00005001
000000	0000000000000000			5070=SAVEAREA DC	18F'0'		00006001
				5071=*			00007001
				5072=*	DCB ADDRS		00008001
				5073=*			00009001
000048				5074=DCBTABLE DC	0F'0'		00010001
000048	00000000			5075=ALINDCB DC	A(0)		00011001
00004C	00000000			5076=	DC	A(0)	00012001
000050	00000000			5077=	DC	A(0)	00013001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
000054	00000000			5078=	DC	A(0)			00014001
000058	00000000			5079=ASYSDCB	DC	A(0)			00015001
00005C	00000000			5080=APRTDCB	DC	A(0)			00016001
000060	00000000			5081=APCHDCB	DC	A(0)			00017001
000064	00000000			5082=AUT1DCB	DC	A(0)			00018001
000068	00000000			5083=AUT2DCB	DC	A(0)			00019001
00006C	00000000			5084=AUT3DCB	DC	A(0)			00020001
				5085=*					00021001
				5086=*		END OF DATA EXIT ADDRS			00022001
				5087=*					00023001
000070	00000000			5088=EODUT1	DC	A(0)	SYSUT1		00024001
000074	00000000			5089=EODUT2	DC	A(0)	SYSUT2		00025001
000078	00000000			5090=EODUT3	DC	A(0)	SYSUT3		00026001
00007C	00000000			5091=EODIN	DC	A(0)	SYSIN		00027001
				5092=*					00028001
				5093=*		OPTION SWITCHES IN COMPFLGS			00029001
				5094=*					00030001
				5095=*		ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -			00031001
				5096=*					00032001
				5097=*		PURPOSE	POSITION		00033001
				5098=*			BYTE 1	BYTE 2	00034001
				5099=*			01234567	01234567	00035001
				5100=*				01234567	00036001
				5101=*		COMPmode (SYNTAX CHECK)	X		00037001
				5102=*		SUBSCRIPT OPTIMIZATION	X		00038001
				5103=*		WARNING ERROR	X		00039001
				5104=*		SERIOUS ERROR	X		00040001
				5105=*		TERMINATING ERROR	X		00041001
				5106=*		PROCEDURE/PROGRAM	X		00042001
				5107=*		LONG/SHORT PRECISION	X		00043001
				5108=*		OPERAND	X		00044001
				5109=*					00045001
				5110=*		NOSOURCE/SOURCE		X	00046001
				5111=*		NLOAD/LOAD		X	00047001
				5112=*		NODECK/DECK		X	00048001
				5113=*		ISO/EBCDIC		X	00049001
				5114=*		PROGRAM INTERRUPT		X	00050001
				5115=*		TERMINATING PHASE ENTERED		X	00051001
				5116=*		NO BUFFERS ASSIGNED		X	00052001
				5117=*		NO COMPILATION POSSIBLE		X	00053001
				5118=*					00054001
				5119=*		SYSPRINT DOWN		X	00055001
				5120=*		WHOLE SOURCE PROG IN CORE		X	00056001
				5121=*		NO OPTAB		X	00057001
				5122=*		SYSPRINT NOT OPENED		X	00058001
				5123=*		ERROR UNRELATED TO SEMICOLON NR		X	00059001
				5124=*		NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)		X	00060001
				5125=*		60 CHARACTER SET		X	00061001
				5126=*		(RESERVED)		X	00062001
				5127=*					00063001
000080	00220000			5128=COMPFLGS	DC	X'00220000'	PARAMETERS AND SWITCHES		00064001
				5129=*					00065001
				5130=*		OPTION SWITCHES IN COMPFLGS			00066001
				5131=*					00067001
000080				5132=COMPmode	EQU	X'80'	SYNTAX CHECK MODE		00068001
000040				5133=SUBSCOPT	EQU	X'40'	SUBSCRIPT OPTIMIZATION		00069001
0000FB				5134=PGR	EQU	X'FB'			00070001
00004				5135=PROC	EQU	X'04'	PRECOMPILED PROCEDURE		00071001
				5136=*					00072001
000FD				5137=SHRT	EQU	X'FD'			00073001
00002				5138=LNG	EQU	X'02'			00074001
00001				5139=OPERAND	EQU	X'01'			00075001
				5140=*					00076001
				5141=*		ERROR SEVERITY INDICATORS IN COMPFLGS			00077001
				5142=*					00078001
00020				5143=WERR	EQU	X'20'	WARNING ERROR		00079001
00010				5144=SERR	EQU	X'10'	SERIOUS ERROR		00080001
00008				5145=TERR	EQU	X'08'	TERMINATING ERROR		00081001
				5146=*					00082001
				5147=*		OPTION SWITCHES IN COMPFLGS+1			00083001
				5148=*					00084001
0007F				5149=SRCE	EQU	X'7F'			00085001
00080				5150=NSRCE	EQU	X'80'			00086001
				5151=*					00087001
000BF				5152=LOAD	EQU	X'BF'			00088001
00040				5153=NLOAD	EQU	X'40'			00089001
				5154=*					00090001
000DF				5155=DECK	EQU	X'DF'			00091001
00020				5156=NDECK	EQU	X'20'			00092001
				5157=*					00093001
000EF				5158=EBCDIC	EQU	X'EF'			00094001
00010				5159=ISO	EQU	X'10'			00095001
				5160=*					00096001
				5161=*		TERMINATION SWITCHES IN COMPFLGS+1			00097001
				5162=*					00098001
00008				5163=ERR	EQU	X'08'	PROGRAM INTERRUPT HAS		00099001
				5164=*			OCCURED IN COMPILER		00100001
00004				5165=TERM	EQU	X'04'	LAST PHASE HAS BEEN ENTERED		00101001
00002				5166=NOBUF	EQU	X'02'	ERROR POOL IS IN WORKAREA		00102001
				5167=*			NO SCE PROG BUFF 1		00103001
00001				5168=NOGO	EQU	X'01'	COMPILATION NOT POSSIBLE		00104001
				5169=*			DO NOT START SCAN 1		00105001
00003				5170=NOBUNOGO	EQU	X'03'	NOBUF AND NOGO		00106001
				5171=*					00107001
				5172=*		SWITCHES IN COMPFLGS+2			00108001
				5173=*					00109001

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.12
		00080		5174=PRT	EQU	X'80'	SYSPRINT NOT AVAILABLE		00110001
		00040		5175=SPIC	EQU	X'40'	SOURCE PROGRAM IN STORAGE		00111001
		00020		5176=NOPT	EQU	X'20'	NO SUBSCRIPT OPTIMIZATION		00112001
		00010		5177=PRTNO	EQU	X'10'	SYSPRINT NOT OPENED		00113001
		00008		5178=NOSC	EQU	X'08'	SEMICOLON COUNTER NOT VALID		00114001
				5179=*					00115001
		00004		5180=NOTEST	EQU	X'04'			00116001
		000FB		5181=TEST	EQU	X'FB'	EMBED SC COUNT IN CODE (DEFAULT)		00117001
				5182=*					00118001
		00002		5183=SET60	EQU	X'02'	60 CHARACTER SET IS TO BE USED		00119001
				5184=*					00120001
				5185=*		MISCELLANEOUS CONTROL INFORMATION			00121001
				5186=*					00122001
000084	0000B000			5187=SIZE	DC	F'45056'	AVAILABLE MAIN STORAGE - NOT USED		00123001
000088	00000000			5188=PICADD	DC	A(0)	ADDR OF PICA OF THE INVOKER		00124001
00008C	00000000			5189=HDING	DC	F'0'	ADDR OF HEADING INFO OF THE INVOKER		00125001
000090	00000000			5190=ERET	DC	F'0'	RETURN ADDR FOR PROGRAM		00126001
				5191=*			AND I/O ERRORS		00127001
000094	0000000C			5192=PAGCNT	DC	PL4'0'	PAGE COUNT		00128001
000098	0000			5193=LINCNT	DC	H'0'	COUNTER OF LINES PER PAGE		00129001
00009A	0038			5194=MAXLINES	DC	H'56'	MAX NUMBER OF PRINT LINES PER PAGE		00130001
00009C	0000			5195=SEMCNT	DC	H'0'	SEMICOLON COUNTER		00131001
00009E	0032			5196=PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER		00132001
0000A0	0000			5197=KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER		00133001
		0001C		5198=LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS		00134001
		0006C		5199=LATBEG	EQU	4*(LATNR-1)			00135001
0000A2	006C			5200=LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT		00136001
0000A4	00000000			5201=PRPT	DC	F'0'	PROGRAM POINTER		00137001
0000A8	00000000			5202=SAVOUTA	DC	F'0'			00138001
0000AC				5203=OUTAREA2	DS	F	SYSPUNCH SAVE AREA		00139001
0000B0	40404040			5204=PIDENT	DC	CL4' '	PROGRAM IDENTIFICATION		00140001
0000B4	0000000C			5205=CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER		00141001
0000B8	00000000			5206=PRTRTADD	DC	A(0)	ADDR OF PRINT ROUTINE		00142001
				5207=*					00143001
				5208=*		ADDRES OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE			00144001
				5209=*					00145001
0000BC	00000278			5210=ERRPOOL	DC	A(PRELPOOL)	FIRST BYTE OF PRELIMINARY ERROR POOL		00146001
0000C0	00000278			5211=NEXTERR	DC	A(PRELPOOL)	NEXT FREE PLACE IN ERROR POOL		00147001
0000C4				5212=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23		00148001
0000C8				5213=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1		00149001
0000CC				5214=SRCE1END	DS	F	ADDR OF LAST BYTE+1		00150001
0000D0				5215=SULTSTRT	DS	F	ID OF LAST ITAB RECORD		00151001
				5216=*					00152001
				5217=*					00153001
				5218=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS			00154001
				5219=*					00155001
0000D4				5220=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED		00156001
0000D6				5221=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED		00157001
0000D8				5222=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED		00158001
0000DA				5223=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED		00159001
0000DC				5224=POOLS	DS	F	SIZE OF ERROR POOL		00160001
0000E0				5225=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2		00161001
		000E0		5226=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4		00162001
0000E4				5227=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10		00163001
0000E8				5228=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20		00164001
0000EC				5229=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30		00165001
0000F0				5230=CRIDTABS	DS	F	SIZE OF CRIDTAB FOR PHASE 30		00166001
0000F4				5231=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30		00167001
0000F8				5232=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30		00168001
0000FC				5233=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2		00169001
000100				5234=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40		00170001
000104				5235=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40		00171001
000108				5236=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK		00172001
				5237=*					00173001
				5238=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF			00174001
				5239=*		EACH NEW PAGE			00175001
				5240=*					00176001
		0010C		5241=PAGEHEAD	EQU	*			00177001
00010C	4040404040404040			5242=PAGEHD1	DC	CL121' '	FIRST HEADLINE		00178001
000185		00185	0010C	5243=	ORG	PAGEHD1			00179001
00010C	F1			5244=PAGEHD1C	DC	C'1'	ASA CNTL		00180001
00010D	4040404040404040			5245=	DC	CL10' '	SPACER		00181001
000117	4040404040404040			5246=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING		00182001
00017B		0017B	0017D	5247=	ORG	PAGEHD1+113			00183001
00017D	D7C1C7C5			5248=PAGEHD1P	DC	CL4'PAGE'	PAGE		00184001
000181	40404040			5249=PAGENUMB	DC	CL4' '	PAGE COUNTER		00185001
000185		00185	00185	5250=	ORG				00186001
				5251=*					00187001
000185	4040404040404040			5252=PAGEHD2	DC	CL121' '	SECOND HEADLINE		00188001
0001FE		001FE	00185	5253=	ORG	PAGEHD2			00189001
000185	40			5254=PAGEHD2C	DC	C' '	ASA CNTL		00190001
000186	4040404040404040			5255=	DC	CL10' '	SPACER		00191001
000190	4040404040404040			5256=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING		00192001
0001F4		001F4	001FE	5257=	ORG				00193001
				5258=*					00194001
0001FE	4040404040404040			5259=PAGEHD3	DC	CL121' '	THIRD HEADLINE		00195001
000277		00277	001FE	5260=	ORG	PAGEHD3			00196001
0001FE	40			5261=PAGEHD3C	DC	C' '	ASA CNTL		00197001
0001FF	4040404040404040			5262=	DC	CL10' '	SPACER		00198001
000209	4040404040404040			5263=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING		00199001
00026D		0026D	00277	5264=	ORG				00200001
				5265=*					00201001
				5266=*					00202001
				5267=*		END OF STANDARD COMMON AREA			00203001
				5268=*					00204001
		00277		5269=STANDX	EQU	*			00205001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
				5270=*					00206001
				5271=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL			00207001
				5272=*		PHASES AND PARTLY OVERLAY EACH OTHER			00208001
				5273=*					00209001
				5274=*		NAME OR PURPOSE	NEEDED BY PHASES		00210001
				5275=*					00211001
000277	00								
000278				5276=	DC	0F'0'			00212001
000278	4040404040404040			5277=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL	IEX10	00213001
000378		00378	00416	5278=	ORG	PRELPOOL+414			00214001
				5279=*		DCB FOR SYSIN	11		00215001
				5280=SYSIN	DCB	DDNAME=SYSIN,			X00216001
				=		DSORG=PS,			X00217001
				=		MACRF=(GM),			X00218001
				=		RECFM=FB,			X00219001
				=		LRECL=80,			X00220001
				=		BFTEK=S			00221001
				5282+*		DATA CONTROL BLOCK			01-DCB
				5283+*					01-DCB
000416	0000								
000418				5284+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				5286+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000418	0000000000000000			5288+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000428	00000000			5289+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB
				5291+*		COMMON ACCESS METHOD INTERFACE			01-DCB
00042C	00			5293+	DC	AL1(0)	BUFNO		01-DCB
00042D	000001			5294+	DC	AL3(1)	BUFCB		01-DCB
000430	0000			5295+	DC	AL2(0)	BUFL		01-DCB
000432	4000			5296+	DC	BL2'0100000000000000'	DSORG		01-DCB
000434	00000001			5297+	DC	A(1)	IOBAD		01-DCB
				5299+*		FOUNDATION EXTENSION			01-DCB
000438	40			5301+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY		01-DCB
000439	000001			5302+	DC	AL3(1)	EODAD		01-DCB
00043C	90			5303+	DC	BL1'10010000'	RECFM		01-DCB
00043D	000000			5304+	DC	AL3(0)	EXLST		01-DCB
				5306+*		FOUNDATION BLOCK			01-DCB
000440	E2E8E2C9D5404040			5308+	DC	CL8'SYSIN'	DDNAME		01-DCB
000448	02			5309+	DC	BL1'00000010'	OFLGS		01-DCB
000449	00			5310+	DC	BL1'00000000'	IFLG		01-DCB
00044A	5000			5311+	DC	BL2'0101000000000000'	MACR		01-DCB
				5313+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
00044C	00			5315+	DC	BL1'00000000'		RER1	01-DCB
00044D	000001			5316+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
000450	00000001			5317+	DC	A(1)	SYNAD		01-DCB
000454	0000			5318+	DC	H'0'	CIND1, CIND2		01-DCB
000456	0000			5319+	DC	AL2(0)	BLKSIZE		01-DCB
000458	00000000			5320+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
00045C	00000001			5321+	DC	A(1)	IOBA		01-DCB
000460	00			5322+	DC	AL1(0)	NCP		01-DCB
000461	000001			5323+	DC	AL3(1)	EOBR, EOBD		01-DCB
				5325+*		QSAM INTERFACE			01-DCB
000464	00000001			5327+	DC	A(1)	RECAD		01-DCB
000468	0000			5328+	DC	H'0'	QSW		01-DCB
00046A	0050			5329+	DC	AL2(80)	LRECL		01-DCB
00046C	00			5330+	DC	BL1'00000000'	EROPT		01-DCB
00046D	000001			5331+	DC	AL3(1)	CNTRL		01-DCB
000470	00000000			5332+	DC	F'0'	PRECL		01-DCB
000474	00000001			5333+	DC	A(1)	EOB		01-DCB
				5334=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)			00222001
				5335=*		EODAD=EODADIN (INSERTED BY IEX11)			00223001
000478		00478	00278	5336=	ORG	PRELPOOL			00224001
000278				5337=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50	00225001
000478				5338=	DS	0F			00226001
000478				5339=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20	00227001
000577		00577	00478	5340=	ORG	PB TAB1			00228001
000478				5341=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40	00229001
				5342=*		DCB FOR SYSUT1	11-30		00230001
				5343=SYSUT1	DCB	DDNAME=SYSUT1,			X00231001
				=		DSORG=PS,			X00232001
				=		MACRF=(R,W),			X00233001
				=		RECFM=F			00234001
				5345+*		DATA CONTROL BLOCK			01-DCB
				5346+*					01-DCB
000577	00								
000578				5347+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				5349+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000578	0000000000000000			5351+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000588	00000000			5352+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.12
				5354+*		COMMON ACCESS METHOD INTERFACE			01-DCB
00058C 00				5356+	DC	AL1(0) BUFNO			01-DCB
00058D 000001				5357+	DC	AL3(1) BUFCB			01-DCB
000590 0000				5358+	DC	AL2(0) BUFL			01-DCB
000592 4000				5359+	DC	BL2'0100000000000000' DSORG			01-DCB
000594 00000001				5360+	DC	A(1) IOBAD			01-DCB
				5362+*		FOUNDATION EXTENSION			01-DCB
000598 00				5364+	DC	BL1'0000000' BFTEK,BFLN,HIARCHY			01-DCB
000599 000001				5365+	DC	AL3(1) EODAD			01-DCB
00059C 80				5366+	DC	BL1'10000000' RECFM			01-DCB
00059D 000000				5367+	DC	AL3(0) EXLST			01-DCB
				5369+*		FOUNDATION BLOCK			01-DCB
0005A0 E2E8E2E4E3F14040				5371+	DC	CL8'SYSUT1' DDNAME			01-DCB
0005A8 02				5372+	DC	BL1'00000010' OFLGS			01-DCB
0005A9 00				5373+	DC	BL1'0000000' IFLG			01-DCB
0005AA 2020				5374+	DC	BL2'0010000000100000' MACR			01-DCB
				5376+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
0005AC 00				5378+	DC	BL1'00000000' RER1			01-DCB
0005AD 000001				5379+	DC	AL3(1) CHECK, GERR, PERR			01-DCB
0005B0 00000001				5380+	DC	A(1) SYNAD			01-DCB
0005B4 0000				5381+	DC	H'0' CIND1, CIND2			01-DCB
0005B6 0000				5382+	DC	AL2(0) BLKSIZE			01-DCB
0005B8 00000000				5383+	DC	F'0' WCPO, WCPL, OFFSR, OFFSW			01-DCB
0005BC 00000001				5384+	DC	A(1) IOBA			01-DCB
0005C0 00				5385+	DC	AL1(0) NCP			01-DCB
0005C1 000001				5386+	DC	AL3(1) EOBR, EOBA			01-DCB
				5388+*		BSAM-BPAM INTERFACE			01-DCB
0005C4 00000001				5390+	DC	A(1) EOBW			01-DCB
0005C8 0000				5391+	DC	H'0' DIRCT			01-DCB
0005CA 0000				5392+	DC	AL2(0) LRECL			01-DCB
0005CC 00000001				5393+	DC	A(1) CNTRL, NOTE, POINT			01-DCB
				5394=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)			00235001
				5395=*		EODAD=EODAD1			00236001
				5396=*					00237001
0005D0				5397=	DS	0F			00238001
0005D0				5398=SPTAB	DS	CL255 SCOPE TABLE	11-30		00239001
0006D0				5399=	DS	0F			00240001
	006CD			5400=GPTAB	EQU	*-3 GROUP TABLE	11-30		00241001
0006D0				5401=	DS	CL1510			00242001
				5402=*					00243001
				5403=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				5404=*					00245001
				5405 *					04914001
000CB6				5406 C	DS	H PARENTHESIS COUNT			04915001
000CB8				5407 KB	DS	H HOLDS ID FIELD FOR SPECIFICATIONS			04916001
000CBC				5408 POOLLEN	DS	F LENGTH OF AREA GOTTEN FROM GETMAIN			04917001
000CC0				5409 POOLLOC	DS	F START LOC OF AREA FROM GETMAIN			04918001
000CC4				5410 AITABBUF	DS	F ADDR OF ITAB BUFFER			04919001
000CC8				5411 ELI	DS	F ADDR OF ONE LOC BEYOND ITAB AREA			04920001
000CCC				5412 ADDARI	DS	A ADDR OF FIRST O/P BUFFER			04921001
000CD0				5413	DS	A ADDR OF SECOND O/P BUFFER			04922001
000CD4				5414 DISP	DS	C DISPLACEMENT TO ADDARI			04923001
000CD5				5415 D	DS	C DIMENSION COUNTER			04924001
000CD8				5416 SP	DS	F CURRENT STACK POINTER			04925001
000CDC				5417 APE	DS	F LAST AVAILABLE BYTE IN CURRENT O/P			04926001
000CE0				5418 WASAVE	DS	CL12			04927001
000CEC				5419 WABEFOR	DS	CL7			04928001
000CF3				5420 WA	DS	CL80 READIN AREA FOR SYSIN SOURCE RECORDS			04929001
000D44				5421 APRNTAR	DS	A ADDR OF CURRENT PRINT BUFFER			04930001
000D48				5422 ATOPSTAK	DS	A LAST BYTE IN THE STACK			04931001
000D4C				5423 IGC	DS	H ITAB GROUP COUNTER			04932001
000D50				5424 AGT	DS	A ADDR OF GROUPE TAB -3			04933001
000D54				5425 AKOPOOL	DS	A ADDR OF THE CONSTANT POOL (0)			04934001
000D58				5426 LAPIN	DS	A ADDR OF LAST POSSIBLE LABEL START			04935001
000D5C				5427 DIM	DS	A ADDR FOR DIMENSION IN ITAB NAME			04936001
000D60				5428 PRIMPAR	DS	A ADDR OF FIRST SPECIFICATION			04937001
000D64				5429 AITAB	DS	A START ADDR OF ITAB			04938001
000D68				5430 AITL	DS	A CURRENT ITAB ENTRY ADDR			04939001
000D6C				5431 LIGP	DS	A POINTER TO CURRENT IG HEAD ENTRY			04940001
000D70				5432 LPBP	DS	A POINTER TO CURRENT PBHEADING			04941001
000D74				5433 WADDARI	DS	A CURRENT O/P BUFFER ADD			04942001
000D78				5434 ITABLEN	DS	F ITAB LENGTH			04943001
000D7C				5435 MGESITL	DS	F ACCUMULATED ITAB LENGTH			04944001
000D80				5436 BCHAR	DS	C SAVE CHAR			04945001
000D81				5437 FBYTE	DS	CL1 SWITCH BYTE FOR APOSTROPHE			04946001
000D82				5438 FSN	DS	C FOR STATEMENT COUNTER			04947001
000D83				5439 ZFSNMAX	DS	C			04948001
000D84				5440 PBC	DS	C PROGRAM BLOCK COUNTER			04949001
000D85				5441 ONC	DS	C O/P REC COUNTER			04950001
000D86				5442 N	DS	C NUMBER OF ARRAYS WITH SAME DIM			04951001
000D88				5443 OPIN	DS	A POINTS TO LAST LABEL OPERATER			04952001
000D8C				5444	DS	C O/P REC NO WHEN OPIN WAS SET			04953001
000D8D				5445 PZ	DS	C COUNTS NUMBER OF PARAMETERS			04954001
000D8E				5446 BITS1	DS	C INTERNAL SWITCHES			04955001
	00080			5447 BEGBIT	EQU	X'80' BLOCK BEGIN			04956001
	0007F			5448 BEGOFF	EQU	X'7F'			04957001
	00040			5449 PROBIT	EQU	X'40' PROCEDURE HEAD PROCESSING			04958001

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.12
		00020		5450 DELTABIT	EQU	X'20'	SEMICOLON FOUND AFTER DECLARATION 04959001
		00010		5451 IDBIT	EQU	X'10'	PROCEDURE NAME 04960001
		00008		5452 ARBIT	EQU	X'08'	ARRAY PROCESSED 04961001
		00004		5453 LISTBIT	EQU	X'04'	COMMA FOUND AFTER ARRAY NAME 04962001
		00001		5454 TERBIT	EQU	X'01'	RETURN TO TERM AFTER PBLCKEND 04963001
000D8F				5455 BITS2	DS	C	04964001
		00080		5456 ENDBIT	EQU	X'80'	LOGICAL END HAS BEEN FOUND 04965001
		00040		5457 COBIT	EQU	X'40'	COMMENT 04966001
		00020		5458 STARTBIT	EQU	X'20'	ZERO UNTIL FIRST BEGIN FOUND 04967001
		00010		5459 VALBIT	EQU	X'10'	VALUE 04968001
		00008		5460 PB0BIT	EQU	X'08'	WRITE PB0 FOR PRE COMP PROC 04969001
		00002		5461 FRSTPUT	EQU	X'02'	FIRST PUT IN GENERATE 04970001
		00001		5462 ENDELSE	EQU	X'01'	END MAY CLOSE FOR OR PROC** 04971001
000D90				5463 BITS3	DS	C	04972001
		00080		5464 E11BIT	EQU	X'80'	E11 HAS BEEN GENERATED ONCE 04973001
		00040		5465 FMBIT	EQU	X'40'	FORMAL PARAMETER BIT 04974001
		000BF		5466 FMOFF	EQU	X'BF'	04975001
		00020		5467 NOFREE	EQU	X'20'	INTERUPT BEFORE GETMAIN 04976001
		00010		5468 FRSITB	EQU	X'10'	FIRST ITAB REC IS WRITTEN 04977001
		00008		5469 PROCESD	EQU	X'08'	WRITE SED CARD FOR PRE COMP PROC 04978001
		000F7		5470 PROCOFF	EQU	X'F7'	04979001
				5471 *			04980001
				5472 *		CHARACTER EQUATES	04981001
				5473 *			04982001
				5474		IEXCHAR	04983001
				5475+*			01-IEXCH
				5476+*		CHARACTER A - Z	01-IEXCH
				5477+*			01-IEXCH
		00040		5478+XFA	EQU	X'40'	02-IEXCG
		00041		5479+XFB	EQU	X'41'	02-IEXCG
		00042		5480+XFC	EQU	X'42'	02-IEXCG
		00043		5481+XFD	EQU	X'43'	02-IEXCG
		00044		5482+XFE	EQU	X'44'	02-IEXCG
		00045		5483+XFF	EQU	X'45'	02-IEXCG
		00046		5484+XFG	EQU	X'46'	02-IEXCG
		00047		5485+XFH	EQU	X'47'	02-IEXCG
		00048		5486+XFI	EQU	X'48'	02-IEXCG
		00049		5487+XFJ	EQU	X'49'	02-IEXCG
		0004A		5488+XFK	EQU	X'4A'	02-IEXCG
		0004B		5489+XFL	EQU	X'4B'	02-IEXCG
		0004C		5490+XFM	EQU	X'4C'	02-IEXCG
		0004D		5491+XFN	EQU	X'4D'	02-IEXCG
		0004E		5492+XFO	EQU	X'4E'	02-IEXCG
		0004F		5493+XFP	EQU	X'4F'	02-IEXCG
		00050		5494+XFQ	EQU	X'50'	02-IEXCG
		00051		5495+XFR	EQU	X'51'	02-IEXCG
		00052		5496+XFS	EQU	X'52'	02-IEXCG
		00053		5497+XFT	EQU	X'53'	02-IEXCG
		00054		5498+XFU	EQU	X'54'	02-IEXCG
		00055		5499+XFV	EQU	X'55'	02-IEXCG
		00056		5500+XFW	EQU	X'56'	02-IEXCG
		00057		5501+XFX	EQU	X'57'	02-IEXCG
		00058		5502+XFY	EQU	X'58'	02-IEXCG
		00059		5503+XFZ	EQU	X'59'	02-IEXCG
				5504+*			01-IEXCH
				5505+*		NATIONAL CHARACTERS	01-IEXCH
				5506+*			01-IEXCH
		0005A		5507+XFDOLLAR	EQU	X'5A'	02-IEXCG
		0005B		5508+XFUNDER	EQU	X'5B'	02-IEXCG
		0005C		5509+XFHASH	EQU	X'5C'	02-IEXCG
		0005D		5510+XFAT	EQU	X'5D'	02-IEXCG
				5511+*			01-IEXCH
				5512+*		NUMERIC 0 - 9	01-IEXCH
				5513+*			01-IEXCH
		00030		5514+XF0	EQU	X'30'	02-IEXCG
		00031		5515+XF1	EQU	X'31'	02-IEXCG
		00032		5516+XF2	EQU	X'32'	02-IEXCG
		00033		5517+XF3	EQU	X'33'	02-IEXCG
		00034		5518+XF4	EQU	X'34'	02-IEXCG
		00035		5519+XF5	EQU	X'35'	02-IEXCG
		00036		5520+XF6	EQU	X'36'	02-IEXCG
		00037		5521+XF7	EQU	X'37'	02-IEXCG
		00038		5522+XF8	EQU	X'38'	02-IEXCG
		00039		5523+XF9	EQU	X'39'	02-IEXCG
				5524+*			01-IEXCH
				5525+*		SPECIAL CHARS	01-IEXCH
				5526+*			01-IEXCH
		00000		5527+XFPLUS	EQU	X'00'	02-IEXCG
		00001		5528+XFMINUS	EQU	X'01'	02-IEXCG
		00002		5529+XFASTER	EQU	X'02'	02-IEXCG
		00003		5530+XFSLASH	EQU	X'03'	02-IEXCG
		00006		5531+XFLBRAC	EQU	X'06'	02-IEXCG
		00007		5532+XFCOLON	EQU	X'07'	02-IEXCG
		00008		5533+XFLSQBR	EQU	X'08'	02-IEXCG
		0000B		5534+XFSCOLON	EQU	X'0B'	02-IEXCG
		00010		5535+XFEQUAL	EQU	X'10'	02-IEXCG
		00011		5536+XFLT	EQU	X'11'	02-IEXCG
		00012		5537+XFGT	EQU	X'12'	02-IEXCG
		00020		5538+XFNOT	EQU	X'20'	02-IEXCG
		00022		5539+XFOR	EQU	X'22'	02-IEXCG
		00023		5540+XFAMPER	EQU	X'23'	02-IEXCG
		00025		5541+XFCOMMA	EQU	X'25'	02-IEXCG
		00026		5542+XFRBRAC	EQU	X'26'	02-IEXCG
		00028		5543+XFRSQBR	EQU	X'28'	02-IEXCG
		0002B		5544+XFBLANK	EQU	X'2B'	02-IEXCG
		0002D		5545+XFPERIOD	EQU	X'2D'	02-IEXCG

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.12
		0002E		5546+XFQUOTE	EQU	X'2E'	02-IEXCG
				5547+*			01-IEEXCH
		0000C		5548+XFDQUOTE	EQU	X'0C'	02-IEXCG
				5549+*			01-IEEXCH
		0002C		5550+XFEXCLM	EQU	X'2C'	02-IEXCG
		0002C		5551+XFPERCT	EQU	X'2C'	02-IEXCG
				5552+*			01-IEEXCH
				5553+*	INTERNAL CONTROL CODES		01-IEEXCH
				5554+*			01-IEEXCH
		00005		5555+XFPOWER	EQU	X'05'	01-IEEXCH
		00016		5556+XFASSIGN	EQU	X'16'	01-IEEXCH
		00017		5557+XFGOTO	EQU	X'17'	01-IEEXCH
		00018		5558+XFFOR	EQU	X'18'	01-IEEXCH
		0001D		5559+XFIF	EQU	X'1D'	01-IEEXCH
		00027		5560+XFLABEL	EQU	X'27'	01-IEEXCH
		00029		5561+XFDELTA	EQU	X'29'	01-IEEXCH
		0002C		5562+XFEND	EQU	X'2C'	01-IEEXCH
		0002F		5563+XFZETA	EQU	X'2F'	01-IEEXCH
		0003E		5564+XFDECEPT	EQU	X'3E'	01-IEEXCH
				5565 *			04984001
				5566 *	REGISTER EQUATES		04985001
				5567 *			04986001
				5568	IEZREGS		04987001
		00000		5569+R0	EQU	0	01-IEZRE
		00001		5570+R1	EQU	1	01-IEZRE
		00002		5571+R2	EQU	2	01-IEZRE
		00003		5572+R3	EQU	3	01-IEZRE
		00004		5573+R4	EQU	4	01-IEZRE
		00005		5574+R5	EQU	5	01-IEZRE
		00006		5575+R6	EQU	6	01-IEZRE
		00007		5576+R7	EQU	7	01-IEZRE
		00008		5577+R8	EQU	8	01-IEZRE
		00009		5578+R9	EQU	9	01-IEZRE
		0000A		5579+R10	EQU	10	01-IEZRE
		0000B		5580+R11	EQU	11	01-IEZRE
		0000C		5581+R12	EQU	12	01-IEZRE
		0000D		5582+R13	EQU	13	01-IEZRE
		0000E		5583+R14	EQU	14	01-IEZRE
		0000F		5584+R15	EQU	15	01-IEZRE
				5585 *			04988001
000000				5586	END	IEX11000	04989001





Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
CODERR	4	00001688	00000001	I			2476	2438B 2442B				
COLON	2	000003D2	00000001	I			608	4155				
COLONLST	4	00001AA4	00000001	I			2934	4169				
COLON2	4	000003DE	00000001	I			611	617B				
COM	4	00001338	00000001	I			2139	4894				
COMCED2	4	0000136C	00000001	I			2157	590B 2137B 2143B 2147B 2149B 2152B 2176B				
COMCEE2	2	00001370	00000001	I			2158	520B 1512B 2134B 2186				
COMERR	4	00001324	00000001	I			2132	2480B 2494B 2645B 2747B 3204B 3743				
COMMAG3	6	00001A96	00000001	I			2926	2914B				
COMMAH2	4	00001A78	00000001	I			2917	2927B				
COMMAJ2	4	00001A84	00000001	I			2920	2916B 2928B				
COMMALST	4	00001A66	00000001	I			2913	4180				
COMMEND	4	00001330	00000001	I			2136	1858 1900B 1904B 2109B				
COMPARE2	6	00001052	00000001	I			2053	2058B				
COMPDEPEND	4	00000EE0	00000001	I			1891	1844				
COMPENDI	4	00000EF6	00000001	I			1897	1931B				
COMPEND2	4	00000F0E	00000001	I			1906	2203B				
COMPEND3	4	00000F26	00000001	I			1913	1909B 1918B				
COMPEND4	4	00000F32	00000001	I			1917	1910				
COMPFIN	4	00000728	00000001	I			1003	913B 2961B 3029B 3662B				
COMPFLGS	4	00000080	FFFFFFFF	X	X		5128	832M 1003M 1371 1383 1386 1600 1737 3517 3840 3857M				
								3874 3937 3968M 3969 3973M 4046 4049				
COMPID	6	0000176E	00000001	I			2586	2590B				
COMPMODE	1	00000080		U			5132	3973				
COMSPEC	4	00000C24	00000001	I			1577	1477B				
COMSPECN	6	00000C3E	00000001	I			1584	1579B				
COMTABLE	96	00002B30	00000001	X	X		4905	2160 4906 4908 4910 4912				
CONT	2	0000018A	00000001	I			329	2845B				
D	1	00000CD5	FFFFFFFF	C	C		5415	2776M 2917 2919M 2955 2965 2967M 2968 3022 3023 3032M				
								3034 3177M				
DECPPOINT	4	000002BC	00000001	I			457	4164 4178				
DELCHECK	4	00002256	00000001	I			3700	3699 3702B 3708B				
DELCOLAA	2	000022CA	00000001	I			3731	3727B				
DELCOLON	4	000022A6	00000001	I			3721	3706B 3713B 3725B 3728				
DELIMIT	2	0000080C	00000001	I			1463	4171				
DELIM01	4	00000B1E	00000001	I			1472	1467B				
DELIM02	4	00000B64	00000001	I			1491	1488B				
DELPAREN	4	000022D0	00000001	I			3734	3723B				
DELPPOINT	4	00002282	00000001	I			3711	3715B 3718				
DELPRGTB	4	00002AE8	00000001	A	A		4880	1491 1532				
DELTA	4	00000638	00000001	I			862	847B				
DEL1	4	00002084	00000001	I			3522	3515B 3518B				
DIM	4	00000D5C	FFFFFFFF	A	A		5427	2717M 3033 3036M				
DISP	1	00000CD4	FFFFFFFF	C	C		5414	287M 1344M 1345				
DOUBLE	8	00002D60	00000001	D	D		5038	1389M 1391 3815M 3816				
EBF4	4	00002060	00000001	I			3514	3510B 3594B 3597B 3599B				
ECA3	4	00002098	00000001	I			3527	3523B				
ECJ3	4	000020CC	00000001	I			3539	3559B				
EDA1	4	00002186	00000001	I			3614	3489B				
ELI	4	00000CC8	FFFFFFFF	F	F		5411	267M 1273 3550				
EMPTYFAA	4	00000F8E	00000001	I			1967	1964B				
EMPTYFOR	4	00000F8A	00000001	I			1966	1955B				
END	4	00000E82	00000001	I			1832	1587B 4884				
ENDBIT	1	00000080		U			5456	1665 1833 2106 2204				
ENDCOUNT	2	00002D72	00000001	H	H		5042	3768 3770M 3814				
ENDLIST	4	00001C06	00000001	I			3084	2969B				
ENDMISS	4	000022EE	00000001	I			3753	243				
ENDMISSA	4	000022FC	00000001	I			3759	3754B				
ENDPOOL	4	000000C4	FFFFFFFF	F	F		5212	1175				
ENDSTRIN	4	00001E9A	00000001	I			3327	3307B				
ENTRAPR	2	00000304	00000001	I			504	1036B 1048B 1582B 1585B 1588B 2178B 2325B 2560B				
EODADIN	4	000023B2	00000001	I			3840	245 1104B 2107				
EODIN	4	0000007C	FFFFFFFF	A	A		5091	244M 2108M				
EQUAL	4	000003E2	00000001	I			612	620				
EQUALOK	4	00001D08	00000001	I			3171	3153B 3163B				
ERET	4	00000090	FFFFFFFF	F	F		5190	228M 246M				
EROUT	4	00000B7C	00000001	I			1510	528B 550B 573B 1473B 1496B 4173				
EROUT2	4	00000B90	00000001	I			1516	1538B				
EROUT3	4	00000BCC	00000001	I			1535	1523B				
ERRKCAL	4	00000B96	00000001	I			1195	1194M				
ERRKC01	4	000008A2	00000001	I			1198	1196B				
ERRMOD1	4	00000860	00000001	I			1174	1170M				
ERRMOD2	4	00000878	00000001	I			1181	1171M				
ERRMOD3	4	0000087C	00000001	I			1182	1172M				
ERRMOVE	6	000008AC	00000001	I			1203	967X 1140X 1157X				
ERROR1	6	0000084A	00000001	I			1170	966B 979B 995B 1017B 1043B 1063B 1137B 1154B 3813B				
ERROR10	4	000007CE	00000001	I			1114	489B 880B 1726B 1874B 2261B 2435B				
ERROR16	4	00002130	00000001	I			3571	3511				
ERROR16A	4	0000214C	00000001	I			3579	3567B				
ERROR2	4	0000088E	00000001	I			1193	965B				
ERROR2A	4	00000892	00000001	I			1194	1197B				
ERROR21	4	0000081E	00000001	I			1150	1775B				
ERROR3	4	0000070A	00000001	I			977	659B 661B 753B 759B 762B 789B 793B 2935B				
ERROR37	4	000022E0	00000001	I			3739	3710B 3717B 3732B				
ERROR39	4	00002392	00000001	I			3812	3775				
ERROR7	4	000004B4	00000001	I			698	676B				
ERROR7A	4	000004BA	00000001	I			702	696B				
ERRSAVE	4	00002D74	00000001	F	F		5043	964M 968 977M 981 1016M 1018 1042M 1047 1062M 1064				
								1134M 1138 1141 1150M 1156 1159 2041M 2049 4045M 4059				
ERR0	4	000006AC	00000001	I			909	1177B				
ERR1	4	000006C0	00000001	I			924	4159				
ERR13	4	000007FA	00000001	I			1134	1526B				
ERR2	4	000006CC	00000001	I			952	698B 2396B 2736B 2789B 2957B 2977B 3025B 3090B 3194B 3585B				
ERR2B	4	000006D4	00000001	I			955	1114B 3658B 3739B				
ERR2C	6	000006E0	00000001	I			959	1541B				
ERR2D	4	000006F2	00000001	I			964	953B 957B 961B				
ERR2E	4	000006EE	00000001	I			963	2562B 2591B 2601B 2649B				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.12
ERR4	4	00000724	00000001	I			995	653B 780B 1275B 1313B 1705B 1792B 2019B 2236B 2251B 3424B 3432B 3552B 3755B			
ERR5	4	00000738	00000001	I			1015	4165			
ERR5A	4	00000730	00000001	I			1012	4179			
ERR5B	4	0000073C	00000001	I			1016	1013B			
ERR6	4	0000074E	00000001	I			1033	1468B			
ERR6A	2	0000076A	00000001	I			1041	1037B			
ERR7	4	0000078A	00000001	I			1062	593B 692B 721B 836B 924B 1081B 1087B 1100B 1739B 2153B 2390B 2464B 2476B 2490B 2641B 2657B 2756B 3128B 3188B 3336B 3450B 3579B 3870B			
ERR8	4	0000079A	00000001	I			1075	854 1558B 1601B 1607B 1617B 1842			
ERR9	4	000007C4	00000001	I			1100	1666B 1834B 3808B			
ESDCON	7	00002D88	00000001	X	X		5053	4109			
ESDNAME	8	00002D84	00000001	C	C		5045	3520M 3521M 3877			
ESDPARM	8	00002444	00000001	C	C		3880	3877M			
ESDT	1	00002678	00000001	X	X		4099	4013			
EXCLC	6	00000B76	00000001	I			1498	1484X 1522X			
EXMVC	6	0000016E	00000001	I			313	337X 349X			
EXMVC1	4	0000106C	00000001	I			2059	2052B			
E11BIT	1	00000080		U			5464	1075 1080			
E18	4	000007BC	00000001	I			1087	1079B			
E18A	2	000007C2	00000001	I			1091	1085B			
E21PAR	2	00000848	00000001	X	X		1162	1152M 1153			
E23	4	00001EB2	00000001	I			3335	3227B 3240B 3313B 3340M			
E23AA	4	00001EBC	00000001	I			3340	3335B			
E39PAR	2	00002390	00000001	X	X		3810	3812			
FBYTE	1	00000D81	FFFFFFFF	C	C		5437	503M 519 588 1035 1476 1510 2177M 2324M 2559M			
FINDCOMA	4	00000938	00000001	I			1257	1250B			
FINDCOMB	4	0000093C	00000001	I			1258	1262B			
FINDEMTY	4	000007D8	00000001	I			1119	1123B 1125B			
FINDSEMA	4	0000090E	00000001	I			1245	1252B			
FINDSEMC	4	00000912	00000001	I			1246	2187B 2349B 2405B 2461B 2468 2576B 3075B 3512B 3593B 3598B 3650B			
FIRSTBEG	4	00000DA6	00000001	I			1737	1599B			
FIRSTB01	4	00000DBC	00000001	I			1746	1738B			
FIRSTPUT	4	00002628	00000001	I			4077	4063B			
FIRSTSTR	4	000001E0	00000001	I			361	328B			
FMBIT	1	00000040		U			5465	2408 2417 3540			
FMOFF	1	000000BF		U			5466	845 3674			
FOR	4	000013C4	00000001	I			2226	4885			
FORAA	4	000013F4	00000001	I			2240	2235B			
FORBB	4	00001426	00000001	I			2255	2250B			
FOREND	4	00000F4A	00000001	I			1950	860 889B 1848 1911B 1919B 3781			
FORENDAA	4	00000F6C	00000001	I			1958	1956B			
FREE	4	00002512	00000001	I			3958	3948B			
FRSITB	1	00000010		U			5468	2039 2111 3890			
FSN	1	00000D82	FFFFFFFF	C	C		5438	298M 2234 2240 2242M 3865			
GENESD	4	0000256E	00000001	I			4012	3878B			
GENTLEN	2	00002462	00000001	H	H		3888	3885M			
GENTXTS	4	00002580	00000001	I			4017	3886B			
GEN3	1	000025CE	00000001	U			4044	4015B 4023B 4025B 4041B			
GEN4	2	000025C6	00000001	I			4040	4130B			
GEN6	4	000025A4	00000001	I			4026	4090B 4093B			
GEN6A	2	000025B6	00000001	I			4032	4030B			
GETERRPH	2	00002556	00000001	H	H		3985	3959B 3970B			
GETREC	4	00000A48	00000001	I			1376	1372B			
GIF	4	00000CE8	00000001	I			1653	4883			
GPTAB	1	000006CD	FFFFFFFF	U			5400	300M 306			
HEAD1	14	00002D8D	00000001	C	C		5048	280			
HEAD2	23	00002D9B	00000001	C	C		5049	281			
IAPOST	4	00000AE6	00000001	I			1424	1410B			
IDBUCKET	1	0000173E	00000001	X	X		2569	963 2530M 2531 2586			
IDCHECK	4	000016AE	00000001	I			2527	1568 2548B 2551 2556 2566 2624B 2639B 2691B 3364B			
IDCHECK1	4	000008B4	00000001	I			1216	2727B 3142B 3484B			
IDCHECK2	4	000008D8	00000001	I			1224	1229B 1236B 2729B 3144B 3487B			
IDCHECK3	4	000008DC	00000001	I			1225	1223			
IDCHKEND	4	000017A8	00000001	I			2614	2600B			
IDCOMMA	6	00001760	00000001	I			2578	2574B			
IDENDER	4	000017CE	00000001	I			2623	2595B 2605B 2621B 2653B 2662B 2665B			
IDLOOP	4	000016D6	00000001	I			2536	2541B 2545B 2572B			
IDLOOPAA	4	000016DA	00000001	I			2537	2535			
IDNOLETA	4	00001718	00000001	I			2554	2550B			
IDNOLETB	4	00001728	00000001	I			2559	2555B			
IDNOLETR	4	00001700	00000001	I			2547	2529B			
IDSEARCH	4	00001744	00000001	I			2571	2539B			
IDSELSE	4	00001730	00000001	I			2562	2575			
IDVALCHK	4	0000178E	00000001	I			2597	2587B			
IEQUAL	4	00000AE6	00000001	I			1421	1408B			
IER	4	00001592	00000001	I			2396	2348 3577B 3633B			
IERCOMMA	4	000015A6	00000001	I			2403	2418B 2421B 2567B			
IERSELSE	4	000015D4	00000001	I			2415	2404			
IERSPEC	4	00001588	00000001	I			2390	1566B 1569B 2322B 2557B 3569B			
IERSPECa	4	00001598	00000001	I			2400	2394B			
IEX11000	1	00000000	00000001	J			169	219U 5586			
IGC	2	00000D4C	FFFFFFFF	H	H		5423	290M 1780 1782M 1784 1807 1813 2228 2231M 2232 2266 2268 2277 3458 3460M 3461 3464 3531			
ILPAR	4	00000AF6	00000001	I			1427	1412B			
INCR	4	00000214	00000001	I			391	395B			
INCRA	6	00000218	00000001	I			392	398			
INT	5	00002D6C	00000001	X	X		5040	1640			
IRPAR	4	00000ADE	00000001	I			1418	1406B			
ISO	1	00000010		U			5159	1383			
ISOTRANS	4	00000AA2	00000001	I			1402	1384B			
ITABC	4	00001084	00000001	F	F		2068	2044 3894			
ITABCLEA	4	0000095A	00000001	I			1271	740B 1817B 1963B 2279B 2358B 2369B 2744B 2810B 3063B 3086B 3094B 3527B 3619B			
ITABCLEB	2	00000970	00000001	I			1279	1274B			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
ITABCLEC	4	00000962	00000001	I			1273	703B 1966B 2407B 2982B 3539B				
ITABLEN	4	00000D78	FFFFFFFF	F	F		5434	2016M 2027 2063				
ITAB10S	4	000000E4	FFFFFFFF	F	F		5227	232 266				
KB	2	00000CB8	FFFFFFFF	H	H		5407	2412M 2508M 2616 2625M 2689M 2690M 3362M 3363M				
KEYTAB	4	00002BF0	00000001	X	X		4945	390				
KEYWDL01	1	000029B8	00000001	R	A		4742	4714				
KEYWDL02	1	000029C1	00000001	R	A		4750	4715				
KEYWDL03	1	000029D1	00000001	R	A		4761	4716				
KEYWDL04	1	000029EA	00000001	R	A		4775	4717				
KEYWDL05	1	00002A2A	00000001	R	A		4804	4718				
KEYWDL06	1	00002A7B	00000001	R	A		4836	4719				
KEYWDL07	1	00002A8E	00000001	R	A		4844	4720				
KEYWDL08	1	00002AC1	00000001	R	A		4861	4721				
KEYWDL09	1	00002ACD	00000001	R	A		4866	4722				
KEYWDL10	1	00002ADA	00000001	R	A		4871	4723				
KFCNST	4	00002D0C	00000001	F	F		5014	3859				
KF0	4	00002D0C	00000001	F	F		5015	249 3883 840 2412 2530 2578 2625 2926 3010 3040 3470				
KF1	4	00002D10	00000001	F	F		5016	2726 2915 3229 3306				
KF11	4	00002D38	00000001	F	F		5026	549 572 956 1472 1953 2011 2444 3535 3665				
KF2	4	00002D14	00000001	F	F		5017	1586				
KF2000	4	00002D50	00000001	F	F		5035	2017				
KF25000	4	00002D4C	00000001	F	F		5034	3868				
KF256	4	00002D68	00000001	F	F		5039	2051 2056 2057				
KF3	4	00002D18	00000001	F	F		5018	1580 2440				
KF4095	4	00002D54	00000001	F	F		5036	3225 3238 3311				
KF6	4	00002D24	00000001	F	F		5021	609 677 1044 1228 2336 2540				
KF7	4	00002D28	00000001	F	F		5022	3861				
KH4096	2	00002D58	00000001	H	H		5037	229 719 3126 3448				
KH7	2	000008B2	00000001	X	X		1205	1185 1369				
KOPOOLAA	4	00002430	00000001	I			3874	3869B				
KOPOOLRL	4	000023F6	00000001	I			3858	1004B 3841B 3855B				
KP1	1	00002D8C	00000001	P	P		5046	4084				
KWARRAY	5	00002A3B	00000001	X	X		4812	1559				
KWELSE	4	00002A00	00000001	X	X		4786	1577 1578				
KWEND	3	000029D2	00000001	X	X		4763	1584				
KWLUTAB	4	00002990	00000001	A	A		4714	1475 1517				
KWPROC	9	00002ACE	00000001	X	X		4868	1555				
LABCHECK	4	00000464	00000001	I			671	674B				
LABCHK1	4	00000474	00000001	I			676	672B				
LABCRT01	4	000004E8	00000001	I			726	720B				
LABEL	4	0000042E	00000001	I			657	646B 652B				
LABEL01	6	0000040A	00000001	I			645	619B				
LABEND	4	000004C4	00000001	I			715	670B				
LABID	4	0000045A	00000001	I			668	678B 683B				
LABLAHEI	4	000004EC	00000001	I			727	716B				
LABNAME	4	00000440	00000001	I			662	688B 691B				
LABNAMER	4	00000492	00000001	I			685	663B				
LABNAM01	4	000004A2	00000001	I			690	686B				
LAPIN	4	00000D58	FFFFFFFF	A	A		5426	304M 432M 657 739M 872M 1674M 1700M 1809M				
LATBEG	1	0000006C		U			5199	725 3132 3454 5200				
LATNR	1	0000001C		U			5198	5199				
LEFTPARL	4	00001A10	00000001	I			2883	4174				
LETDEL	4	0000052E	00000001	I			752	615B				
LETDELB2	2	00000576	00000001	I			774	755B				
LETDELB3	4	00000594	00000001	I			785	787B				
LETDELE1	4	0000054E	00000001	I			760	765B				
LETDELf4	4	000005AC	00000001	I			792	796B				
LETDEL01	4	00000590	00000001	I			784	779B				
LIGP	4	00000D6C	FFFFFFFF	A	A		5431	258M 1786 1811 1816M 1950 1951M 1958 1970 2025M 2093 2270 2275 2278M 3466 3528 3533M				
LINCNT	2	00000098	FFFFFFFF	H	H		5193	282M				
LIST	2	000019C4	00000001	I			2840	2798B 3179B				
LN	2	000000A2	FFFFFFFF	R	A		5200	717 719 726M 732 3124 3126 3133M 3134 3446 3448 3455M 3457				
LOOP	4	00000AAE	00000001	I			1405	1430B				
LOOPEND	4	00000AFA	00000001	I			1428	1414B 1416B 1419B 1422B 1425B				
LPARDQAA	4	00001A30	00000001	I			2891	2887B				
LPARDQC3	4	00001A24	00000001	I			2888	2898B 2901				
LPARDQ63	4	00001A38	00000001	I			2893	2906B				
LPBP	4	00000D70	FFFFFFFF	A	A		5432	259M 730 955 1118 1799 1812 1815M 2015 2023 2024 2026M 2091 2245 2307 2443 2614 2714 3122 3441 3530 3534M 3664				
L3	4	00001F70	00000001	I			3421	3418B				
L3AA	4	00001F82	00000001	I			3428	3423B				
L3BB	4	00001F98	00000001	I			3436	3431B				
L3CC	4	00001FDE	00000001	I			3455	3449B				
MAPOS	6	00000372	00000001	I			558	553X				
MAPOS2	6	00000378	00000001	I			559	554X				
MGESITL	4	00000D7C	FFFFFFFF	F	F		5435	291M 3868				
MOVBEFWA	6	000003A8	00000001	I			580	577X				
MOVERST	6	000001DA	00000001	I			360	356X				
MOVE4	6	00001120	00000001	I			2114	2059X				
MSBLOOP	4	000001B0	00000001	I			346	335B				
MV1	6	00001ECA	00000001	I			3345	3249X				
MV2	6	00001ED0	00000001	I			3346	3317X				
N	1	00000D86	FFFFFFFF	C	C		5442	2726M 2812 2814M 3037 3039M 3040 3176M				
NDECK	1	00000020		U			5156	3517 3874 4046 4049				
NEXTERR	4	000000C0	FFFFFFFF	A	A		5211	912M 1173 1179 1180M				
NEXTMOD	2	00002540	00000001	H	H		3976	3972B				
NLOAD	1	00000040		U			5153	3517 3874 4046				
NOFREE	1	00000020		U			5467	3795 3958				
NOLETTER	4	0000210C	00000001	I			3561	3483B				
NOMATCH	4	00000B6A	00000001	I			1494	1485B				
NOPBN0	4	000023D6	00000001	I			3849	3845B				
NOPBN0A	4	000023F2	00000001	I			3857	3853B				
NOPRINT	6	00000A88	00000001	I			1395	1387B				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
NOPROCBY	4	00001442	00000001	I			2262	2256B 2260B				
NORIP	4	00001E0C	00000001	I			3280	3276B				
NORMAL	4	00000CAE	00000001	I			1627	4880				
NOSC	1	00000008		U			5178	3968				
NOSEMC	4	0000166C	00000001	I			2464	2458				
NOTFOUND	4	00001784	00000001	I			2591	2579B				
NOUPDAT	4	00000272	00000001	I			417	412B 415B				
NPAFTAPA	2	000003C8	00000001	I			597	592B				
NPAFTAPO	4	000003AE	00000001	I			588	4167				
NSRCE	1	00000080		U			5150	1371 1386				
ODECB	4	000009D0	00000001	F	F		1331	1323				
ONC	1	00000D85	FFFFFFFF	C	C		5441	286M 293M 430 645 650 737 754 777 869 1311				
								1319 1352 1354M 1671 1698 3852				
OPIN	4	00000D88	FFFFFFFF	A	A		5443	303M 305M 428M 430M 645 648 735M 737M 754 756				
								766 775 784 868M 869M 1670M 1671M 1697M 1698M				
OPINCHAR	1	00002DB2	00000001	C	C		5051	429M 660 715 736M 752 867M 1672M 1696M				
OUTAREA2	4	000000AC	FFFFFFFF	F	F		5203	4064 4074M				
PAGEHD1	121	0000010C	FFFFFFFF	C	C		5242	5243 5247				
PAGEHD1D	100	00000117	FFFFFFFF	C	C		5246	280M				
PAGEHD2	121	00000185	FFFFFFFF	C	C		5252	5253				
PAGEHD2D	100	00000190	FFFFFFFF	C	C		5256	281M				
PAGEHD3	121	000001FE	FFFFFFFF	C	C		5259	5260				
PAR	4	000021B6	00000001	I			3627	3615B				
PARAM3	2	00000722	00000001	X	X		984	978				
PBC	1	00000D84	FFFFFFFF	C	C		5440	292M 1790 1796 1798M 1814 3430 3436 3439M 3532 3864				
PBLCKEAA	4	00000FBC	00000001	I			2011	2013B				
PBLCKEND	4	00000FB8	00000001	I			2010	881B 1847 1860B 1873B 1875B 1915B 1930B 2462B 2470B 2474B				
								3776 3778 3779 3780				
PBN	2	0000009E	FFFFFFFF	H	H		5196	3864M				
PBTAB1	255	00000478	FFFFFFFF	C	C		5339	299M 1800 3440 5340				
PGMEND	4	00001108	00000001	I			2106	1898B 2103B				
PIDENT	4	000000B0	FFFFFFFF	C	C		5204	4014M 4083				
PNAMERR	4	00002156	00000001	I			3585	3575B				
PNAMERRA	4	0000215C	00000001	I			3589	3583B				
POINT	4	000002A6	00000001	I			446	4160				
PONTLST	4	000019D6	00000001	I			2852	2859 4181				
PONTPAR	2	0000074C	00000001	X	X		1022	1015				
POOLLEN	4	00000CBC	FFFFFFFF	F	F		5408	234M 3960				
POOLLOC	4	00000CC0	FFFFFFFF	F	F		5409	242M 3858 3961				
PPARLST	2	0000074A	00000001	X	X		1021	1012				
PRELPOOL	1	00000278	FFFFFFFF	C	C		5277	5210 5211 5278 5336				
PREND	4	00000ECC	00000001	I			1871	1845				
PRIMPAR	4	00000D60	FFFFFFFF	A	A		5428	2578 2580 3470M 3685M				
PRNTREC	4	00000A8E	00000001	I			1396	1393B				
PROC	1	00000004		U			5135	1600 1737				
PROCDEL	4	00002252	00000001	I			3699	3649				
PROCEAG1	4	00001F5C	00000001	I			3416	3377B				
PROCEDAA	4	00001F44	00000001	I			3410	3406B				
PROCEDUR	4	00001F28	00000001	I			3403	1604B 4895				
PROCEND	4	0000218E	00000001	I			3616	3628B				
PROCESD	1	00000008		U			5469	3420 3514				
PROCFIN	4	000021D2	00000001	I			3648	2420B 3622B				
PROCID	4	0000202C	00000001	I			3481	3544B 3562B 3563 3568 3576 3625B 3632 3737B				
PROCIDSE	4	00002176	00000001	I			3596	3592				
PROCOFF	1	000000F7		U			5470	3516				
PROG1	4	00000EA4	00000001	A	A		1842	1839				
PROG2	4	0000061C	00000001	A	A		854	851				
PRPT	4	000000A4	FFFFFFFF	F	F		5201	289M 3221 3223 3327 3328M 3342M 3860 3862M 3863M 3885				
PRTRTADD	4	000000B8	FFFFFFFF	A	A		5206	1373				
PTTABLE	1	00002758	00000001	R	A		4194	449 2854				
PUNCHOUT	6	00002630	00000001	I			4080	4060B				
PUT1	2	000025EA	00000001	I			4054	4050B				
PUT1A	4	000025E6	00000001	I			4051	4075B				
PUT2	4	00002614	00000001	I			4067	4078B				
PZ	1	00000D8D	FFFFFFFF	C	C		5445	487 878 1724 1872 2259 2433 2617 2619M 3472M 3616				
								3618M 3656 3667 3669M 3670 3673M 3683				
PZETA	4	000019EC	00000001	I			2859	4176				
QUOTE	4	00001DF4	00000001	I			3273	4183				
READROUT	4	00002376	00000001	I			3803	2205B				
REPL	3	00001EE0	00000001	C	C		3351	3277M 3282M 3301 3346				
RIGHTPAR	4	00000280	00000001	I			426	4157				
RIGTPARL	4	000019F4	00000001	I			2867	4175				
R0	1	00000000		U			5569	235M 333M 334 338 843M 882M 890M 1302 1638M 1693M				
								1967M 2088M 2226M 2449M 3218M 3237M 3238 3244M 3246 3310M				
								3311 3371M 3410M 3549M 3550 3960M 4027M 4028 4032 4035				
								4036				
R1	1	00000001		U			5570	229M 230M 231M 232M 233M 234 235 242 247 248M				
								249 250M 251 252M 253 254M 255 256M 257 258				
								259 260 261 262 263 264 266M 267 324 326				
								329 361 363 365M 374M 375 377M 379 391M 392				
								394 396 419M 433M 446M 449 469M 504 505M 508				
								522 543 544 545 570 597 598M 608 611M 612				
								614 616 618 769M 800M 874M 928M 1038M 1041M 1044M				
								1045 1046M 1076M 1184 1217 1220 1224M 1225 1231 1233				
								1245M 1247 1249 1251 1253 1258M 1259 1261 1263 1369M				
								1370 1375 1376M 1385M 1390 1391 1392 1397M 1399 1464				
								1530M 1545M 1608M 1609 1611M 1614 1616 1631M 1645M 1657M				
								1675M 1711M 1743M 1748M 2157M 2160 2210M 2280M 2309M 2310				
								2312 2314 2319 2328 2332M 2333 2338 2343 2345 2403M				
								2415 2419 2460M 2471M 2472 2473M 2527M 2528 2533 2536M				
								2537 2542 2547 2549 2554 2571 2573 2721M 2722 2728				
								2730 2732 2734 2749 2751 2777 2779M 2780 2782 2784				
								2793M 2797M 2841 2844 2852M 2854 2870M 2886 2888M 2889				
								2893M 2897 2899 2923M 2939M 2996 2998M 2999 3004M 3044				
								3046 3056M 3057 3067 3069 3139M 3140 3143 3145 3147				
								3149M 3150 3152 3154 3156 3161M 3162 3164 3166 3178M				
								3181 3183 3228M 3231 3233 3234 3273M 3275 3280 3285				

Symbol Cross Reference													PAGE 66														
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References					X390	3.1.04	2012/08/17	13.12											
X11								3290M	3292	3294	3299M	3481M	3482	3486	3509	3561	3564										
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								4058	4065M	4066	4067M	4070	4074	4080	4081	4082	4083										
								4085	4086	4087	4088	4091	4092	4107	4109	4111	4127										
								322M	323	376B	380B	404B	420B	460B	484B	488B	490B										
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R10	1	0000000A		U			5579	3011	3054B	3087M	3333B																
R11	1	0000000B		U			5580	219U	223M	224M																	
R12	1	0000000C		U			5581	227M	228	243M	244	245M	246	264M	265	275M	276										
R13								288M	289	306M	307	308M	309M	310	332M	351M	352M										
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								489M	529M	703M	733M	740M	844M	880M	883M	891M	964										
								965M	966M	968M	977	979M	981M	995M	1016	1017M	1018M										
								1042	1043M	1062	1063M	1064M	1121B	1135M	1136	1137M	1154M										
								1186B	1200B	1216M	1230M	1248	1260	1283B	1303B	1307B	1357B										
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								1966M	1968M	2089M	2107M	2108	2187M	2227M	2243M	2244M	2246										
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								2405M	2407M	2435M	2450M	2461M	2576M	2580M	2586	2588M	2589										
								2599	2615	2616	2620	2622	2647	2655	2661	2664	2718M										
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								R14								547M	548M	549	551M	553	554	570M	571M	572	575		
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																680	685	687M	690	730M	731	756M	757	760M	761		
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																1138M	1140	1151	1156M	1157	1174M	1175	1180	1184M	1185M		
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																1465M	1466M	1472	1474M	1479M	1480	1483M	1484	1486	1494		
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728	729	731	732	849M	850	887	909									910	911M										
912	964	968M	977	980	981M	1016	1018M									1042	1045										
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1565M	1568M	1690M	1691	1702M	1703	1709	1710									1722	1777M										
1778	1810M	1811	1812	1813	1814	1815	1816									1837M	1838										
1894M	1895M	1896	1897	1899	1907M	1908	1917									1952M	1953M										
1954	1957M	1959	1960	1961	1962	1974M	1975M									1976	2010M										
2011M	2012	2014M	2015M	2016	2017	2041	2049M									2051	2056M										
2057	2059	2060	2062M	2075	2097M	2098M	2099	2102	2228M																		
2229M	2231	2245M	2246	2270M	2271	2274M	2275	2276	2277																		
2278	2302M	2303	2304	2306	2308	2321M	2347M	2370	2406M																		
2416B	2436M	2437	2443M	2444M	2445	2446	2448	2452	2507M																		
2508	2556M	2566M	2743M	2811	2981M	3064	3119M	3120	3121																		
3123	3134	3243M	3345	3374M	3375	3376	3413M	3414	3415																		
3438	3456M	3457	3458M	3459M	3460	3463M	3464M	3465M	3467																		
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								390	448M	450	507M	510	650M	651	667M	677	682M										
								777M	778	850M	851	967	1193M	1194	1197M	1198	1222M										
								1228	1235M	1309	1345M	1346	1352M	1353M	1354	1356M	1368										
								1396M	1486M	1491	1513M	1531M	1532	1538M	1596	1796M	1797M										
								1798	1801	1803	1804M	1805	1838M	1839	2030M	2031M	2032M										
								2033	2159M	2161	2240M	2241M	2242	2244	2272	2330M	2336										
								2340M	2843M	2853M	2856	2917M	2918M	2919	3022M	3031M	3032										
								3232M	3251	3436M	3437M	3438	3439	3440	3443M	3444	3616M										
R3	1	00000003		U			5572	3617M	3618	3771M	3772	3878M	3884M	4014	4107	4112	4127										
R3							5572	4129M	268M	269M	270M	271	272M	302	303	304	313	333									
								338M	347	350M	357M	360	402	403M	407	409	414										
								418M	427	428	431M	432	458	459M	468	470M	530										
								531M	658	669	734	735	738M	739	758	764	766M										
								767	768M	795	797M	798	799M	843	863	866	868										
								870	871M	872	882	884	890	1158M	1217	1218M	1231										
								1232M	1306	1308	1317M	1339	1346M	1347	1348	1629	1630M										
								1638	1640	1643	1644M	1655	1656M	1669	1670	1673M	1674										
								1693	1695	1697	1699M	1700	1772M	1774	1776	1803	1807										
								1808M	1809	1892	1893M	1967	1969	1971	1972	1973M	2029										
								2060M	2082M	2088	2090	2092	2094	2095	2096M	2140	2226										

X11		Symbol Cross Reference										PAGE 67					
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References									
								2230	2232	2233M	2439	2449	2451	2452	2453	2454	2455
								2456M	2719	2720M	2741	2742M	2795	2796M	2825	2826M	2868
								2869M	2892	2894M	2905	2921	2922M	2937	2938M	3002	3003M
								3052	3053M	3060	3061M	3136	3137M	3172	3173M	3199	3200M
								3218	3220	3221	3222M	3371	3373	3410	3412	3461	3462M
								3525	3526M	3572	3573M	3623	3624M	3630	3631M	3653	3654M
								3735	3736M	3784	3785M	3850	3851M	4013M	4019M	4022	4024
								4038	4080	4087	4088	4089	4110M	4111			
R4	1	00000004		U			5573	313	324M	330	352	390M	392	402	407	504M	548
								552	555M	558	569	571	574M	575M	580	647M	648M
								649M	651	833M	834	841M	842	848M	881M	959	1139
								1466	1498	1530	1545	1555	1559	1578	1584	1836M	1858M
								1910M	1914M	1930M	1977B	2084B	2101B	2104B	2140M	2141M	2142
								2144M	2145M	2146	2148	2150M	2151	2161M	2162B	2459M	2841M
								3231M	3235	3245	3760M	3848M	4017M	4042B			
R5	1	00000005		U			5574	219U	220M	221							
R6	1	00000006		U			5575	339M	340B	346M	347M	348M	349	350	352	353	450M
								451B	510M	511B	522M	525M	526	545M	546M	552	593M
								608M	609M	610	653M	692M	698M	721M	757M	758	763M
								764	774M	775M	776M	778	780M	836M	851M	852B	924M
								969	978M	1012M	1015M	1065	1081M	1087M	1100M	1114M	1118M
								1119M	1120	1122	1124	1136	1142	1151M	1152	1153M	1170
								1171	1172	1199	1226B	1255B	1265B	1275M	1310	1313M	1318M
								1338	1355M	1402	1403M	1404	1405	1407	1409	1411	1413
								1415	1418	1421	1424	1427	1428M	1429	1431M	1468M	1491M
								1492B	1526M	1532M	1533B	1541M	1705M	1739M	1779M	1780M	1781M
								1782	1783M	1784M	1785M	1787	1788	1789	1792M	1800M	1801M
								1802	1805M	1806	1839M	1840B	1950M	1951	1958M	1959	1970M
								1971	2019M	2024M	2025	2026	2027	2028	2031	2034	2037
								2038	2053	2054M	2085M	2086	2087	2091M	2092	2093M	2094
								2114	2153M	2186M	2236M	2251M	2305M	2306	2307M	2308	2348M
								2390M	2396M	2404M	2458M	2464M	2468M	2469	2476M	2490M	2562M
								2575M	2591M	2601M	2614M	2615	2617M	2618M	2619	2641M	2649M
								2657M	2714M	2715	2716M	2717	2727M	2736M	2756M	2789M	2812M
								2813M	2814	2855M	2856M	2857B	2871M	2872M	2873	2883M	2884M
								2885	2957M	2964M	2965M	2966M	2967	2977M	3005M	3006M	3007
								3025M	3033M	3034	3035M	3036	3074M	3090M	3128M	3142M	3174M
								3175	3177	3188M	3194M	3201M	3202	3203	3242M	3243	3247M
								3248	3314M	3315M	3329M	3330	3336M	3346	3424M	3432M	3441M
								3442	3450M	3484M	3511M	3552M	3579M	3585M	3592M	3649M	3658M
								3666M	3667M	3668M	3669	3672M	3673	3739M	3755M	3768M	3769M
								3770	3772M	3773B	3812M	3814M	3815	3860M	3861M	3862	3870M
								3876M	3899M	3905	3909M	3915	3920	3936M	3944	3954	3971M
								4091	4128M								
R7	1	00000007		U			5576	664M	665	666M	680	681M	952M	955M	956M	960M	963M
								1139M	1155M	1195	1203	1219M	1220	1221M	1233	1234M	1279M
								1642M	1643	1654M	1655	1786M	1787	1799M	1802	2033M	2034
								2050M	2053	2055M	2060	2061M	2076	2114	2327M	2328	2329M
								2338	2339M	2400M	2401	2402	2531M	2533	2534M	2542	2543M
								2684M	2685	2686	2711M	2712	2713	2715	2716	2963M	2968
								3234M	3235M	3237	3241M	3249	3250	3287M	3296M	3309M	3310
								3316M	3317	3318	3466M	3467	3589M	3590	3591	3858M	3859
R8	1	00000008		U			5577	219U	221M	222M	223						
R9	1	00000009		U			5578	283M	323M	398M	447M	506M	556B	620M	1160B	1223M	1246M
								1257M	1400B	1475M	1480M	1481	1482M	1486	1494M	1498	1517M
								1518M	1519	1520M	1531	1535M	1577M	1618	1619M	1620M	1628M
								1629	1642	1654	1668M	1669	1672	1747M	1818B	2158M	2161
								2299	2300M	2301M	2305	2316M	2331M	2368M	2370	2469	2507
								2535M	2551M	2681	2682M	2683M	2708	2709M	2710M	2753M	2786M
								2809M	2811	2842M	2859M	2901M	3048M	3062M	3064	3071M	3116
								3117M	3118M	3158M	3168M	3185M	3230M	3274M	3291M	3327M	3330
								3331	3368	3369M	3370M	3407	3408M	3409M	3563M	3699M	3718M
								3728M	3804M								
SAVEPRNT	88	00002DE4	00000001	C	C		5057	275	1395M								
SAVE1	4	00002DC8	00000001	F	F		5056	1155	1309M	1310M	1355	1356	1368M	1396	1402M	1431	1618M
								1620	2029M	2082	2299M	2301	2681M	2683	2708M	2710	3116M
								3118	3368M	3370	3407M	3409	3816M	3817M	3818		
SAVOUTA	4	000000A8	FFFFFFFF	F	F		5202	4021	4058M	4065							
SCALE	4	0000031A	00000001	I			519	4168									
SCANEND	4	00002464	00000001	I			3890	3796B	3875B								
SCOVFL	4	00002E3C	00000001	F	F		5058	834									
SCPATTN	6	00002DBF	00000001	X	X		5054	1390	1391								
SCTAB	256	00001126	00000001	X	X		2116	1805	2033	3444							
SCTTRANS	4	00000644	00000001	I			866	855	856	858	892B						
SCTTRANSA	4	00000648	00000001	I			867	864B	885B								
SCYES3	4	000021E6	00000001	I			3653	2409B	3744B								
SCYES3A	4	00002204	00000001	I			3664	3657B									
SEMCLAA	4	00001AD8	00000001	I			2963	2956B									
SEMCLER	4	00001AF4	00000001	I			2977	2951B									
SEMCLST	4	00001ABE	00000001	I			2950	4170									
SEMCNT	2	0000009C	FFFFFFFF	H	H		5195	297M	833	840M	842M	870	1183	1388	1806	3445	
SEMCO	4	000005D4	00000001	I			833	1914	1920B	2207B	2209B	2360B	2413B	2459	2627B	2985B	3088B
								3542B	3652	4156							
SEMCO01	4	000005EC	00000001	I			841	835B									
SEMC60	4	000005D0	00000001	I			832	4184									
SEMPROC	4	00000670	00000001	I			877	857									
SEMPROC2	4	00000680	00000001	I			881	859	879B	888B							
SERR	1	00000010		U			5144	3973									
SET60	1	00000002		U			5183	832									
SIMPLPAA	4	00001A5A	00000001	I			2904	2900B									
SIMPLPAR	4	00001A42	00000001	I			2897	2890B									
SINT	4	00001EDC	00000001	X	X		3349	3220									
SLASHEND	4	00001B8C	00000001	I			3056	3042B	3068B	3071							
SLASHERR	4	00001C1A	00000001	I			3090	3074									
SLASHLAA	4	00001B64	00000001	I			3031	3024B									

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.12
SLASHLST	4	00001B0E	00000001	I			2996	3045B 3048 4182				
SLASHREP	4	00001B6C	00000001	I			3033	3041B				
SLASHRSB	4	00001B22	00000001	I			3001	2997B				
SLASHSE	4	00001B96	00000001	I			3044	3000B				
SLSENSE	4	00001BE6	00000001	I			3067	3058B				
SLUT2	4	0000236E	00000001	I			3795	227				
SP	4	00000CD8	FFFFFFFF	F	F		5416	251M 482 849 1690 1710M 1777 1837 1894 1896M 1907 1974 1976M 2097 2099M 2248 2262 2265M 2436 3416 3429M 3761 3786 3788M				
SPEC	4	00001692	00000001	I			2487	4892				
SPECENT	4	000016A4	00000001	I			2507	2296B 2488B 2705B 3113B 3404B				
SPIC	1	00000040		U			5175	3857				
SPTAB	255	000005D0	FFFFFFFF	C	C		5398	301M 2243				
SQC	4	00001ED8	00000001	F	F		3348	3229M 3300 3308M				
SRCE1ADD	4	000000C8	FFFFFFFF	F	F		5213	268 272 273				
SRCE1S	4	000000E0	FFFFFFFF	F	F		5225	231 256 269 1349 5226				
SROUT	4	00001DEE	00000001	I			3251	3236B				
STACKTST	4	00000694	00000001	I			887	848				
STAREND	4	00000EC0	00000001	I			1857	1846				
STARTBIT	1	00000020		U			5458	1524 3753				
STARTDEL	4	00000C54	00000001	I			1596	1489B 1525B				
STATE	4	000002DE	00000001	I			481	471B 741B 1658B				
STEPUP	4	00002320	00000001	I			3768	3763B 3765B				
STRAAA	4	00001D9C	00000001	I			3228	3226B				
STRBBB	2	00001DCC	00000001	I			3241	3239B				
STRING	4	00001D70	00000001	I			3218	4881				
STRTABLE	96	00002B90	00000001	X	X		4922	3233 4923 4925				
SUBROUT	4	000001AA	00000001	I			339	331B 358B				
SWCOLON	4	00001CE4	00000001	I			3161	3146B 3151B 3165B 3168				
SWITCH	4	00001C28	00000001	I			3112	4893				
SWITCHAA	4	00001C44	00000001	I			3119	3115B				
SWITCHBB	4	00001C76	00000001	I			3133	3127B				
SWITCHER	4	00001D4C	00000001	I			3194	3148B 3157B 3167B				
SWPOINT	4	00001CB8	00000001	I			3149	3155B 3158				
SWTCHB3	4	00001C90	00000001	I			3139	3182B 3185				
SWTCHNAA	4	00001D42	00000001	I			3188	3184B				
SWTCHNBB	4	00001D5E	00000001	I			3201	3192B				
SWTCHNSE	4	00001D2A	00000001	I			3181	3141B				
SYSUT1	4	00000578	FFFFFFFF	F	F		5347	1318				
TARYDHB3	4	0000185A	00000001	I			2689	2678B				
TED	4	00000D02	00000001	I			1665	1581B 4882				
TERBIT	1	00000001		U			5454	3759				
TERMBGN	4	00002354	00000001	I			3783	3777				
TERMBRNC	4	0000232C	00000001	I			3771	3767B				
TERMSEAC	4	00002300	00000001	I			3760	3760 3789B				
TERMTAB	4	00002338	00000001	A	A		3775	3772				
TERR	1	00000008		U			5145	1003 3840 3937 3969				
TESTAPOS	4	00001E2C	00000001	I			3290	3278B 3283B				
TESTISO	4	00000A56	00000001	I			1383	1432B				
TESTLOOP	2	00000174	00000001	I			322	311B 366B 434B 524B 875B 1034B 1077B 1540B 1712B 1744B 1747 2211B 2281B 2746 3087				
TESTPAR	4	00002242	00000001	I			3682	3676B				
TESTPARA	4	00002246	00000001	I			3683	3680B				
TESTTABL	1	00002872	00000001	R	A		4496	326				
TESTZETA	4	00001E1C	00000001	I			3285	3281B				
TLISTSE	4	0000154E	00000001	I			2343	2335B				
TPROHEAA	6	000020FA	00000001	I			3556	3551B				
TPROHEAD	4	000020E4	00000001	I			3548	3537B				
TPSPECER	4	00000C0C	00000001	I			1563	1039B				
TPSPEC01	4	00000C1C	00000001	I			1568	1564B				
TRANSOP	4	00000210	00000001	I			390	4149 4150 4151 4152 4153 4154				
TREXTINT	1	00002C0C	00000001	R	A		4957	1398 4958 4960 4963 4965 4968 4970 4972 4974 4976 4978 4980 4983 4986 4989 4991 4993 4996 4999 5002				
TRINTEXT	1	0000292E	00000001	C	C		4699	2453 3521 4700 4702 4704 4706				
TROE	4	0000024A	00000001	I			406	393B				
TRONE	4	0000023A	00000001	I			401	397B				
TSTORE	4	00000266	00000001	I			414	410B				
TXTT	1	0000269E	00000001	X	X		4116	4019 4089				
TYPE	4	00001496	00000001	I			2295	1612B 4886				
TYPEAA	4	000014B2	00000001	I			2302	2298B				
TYPEARAA	4	0000184A	00000001	I			2684	2680B				
TYPEARRY	4	0000182E	00000001	I			2677	1560B 4896				
TYPEBB	4	000014F6	00000001	I			2319	2315B				
TYPECC	4	00001506	00000001	I			2324	2320B				
TYPECOMA	4	00001576	00000001	I			2368	2346B				
TYPEDAFI	4	000014D2	00000001	I			2309	1565 2313B 2316 2321 2347 2371B				
TYPENAME	4	0000150E	00000001	I			2327	2311B				
TYPENM02	4	00001524	00000001	I			2332	2337B 2341B 2344B				
TYPENM03	4	00001528	00000001	I			2333	2331				
TYPEPREA	4	00000C80	00000001	I			1609	1621B				
TYPEPREC	4	00000C7C	00000001	I			1608	1615B				
TYPEPR01	4	00000C74	00000001	I			1606	1603B				
TYPEPR02	4	00000C8E	00000001	I			1614	1610B				
TYPESPEC	6	00000BF0	00000001	I			1555	521B 589B 1478B 1511B				
TYPPROC	4	00001EE4	00000001	I			3360	1556B 4897				
TYPPROCA	4	00001EF8	00000001	I			3366	3361B				
TYPPROCB	4	00001F0C	00000001	I			3371	3367B				
VALDLB2	4	000017FE	00000001	I			2647	2598B				
VALDLB3	4	00001810	00000001	I			2655	2648B				
VALDLB4	4	00001826	00000001	I			2664	2656B				
VALUE	4	000017E4	00000001	I			2636	4891				
VALUERR	4	000017F4	00000001	I			2641	2637B				
WA	80	00000CF3	FFFFFFFF	C	C		5420	574 1379 1392 1395 1397 1398M 1403 3244				
WABEFOR	7	00000CEC	FFFFFFFF	C	C		5419	1370M				
WADDARI	4	00000D74	FFFFFFFF	A	A		5433	274M 673 687 790 797 1317 1347M				
WORKAREA	1	00000000	FFFFFFFF	J			5062	226U				
WRITEOB	4	000009CC	00000001	I			1330	1320B				





Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)																X390 3.1.04				2012/08/17 13.12			
0(0)	235M	333M	334	338	843M	882M	890M	1302	1309	1356M	1368	1379M	1396M	1638M	1693M	1967M	2029	2082M						
	2088M	2226M	2449M	3218M	3237M	3238	3244M	3246	3310M	3311	3371M	3410M	3549M	3550	3927M	3932M	3960M	4027M						
	4028	4032	4035	4036																				
1(1)	229M	230M	231M	232M	233M	234	235	239M	242	247	248M	249	250M	251	252M	253	254M	255						
	256M	257	258	259	260	261	262	263	264	266M	267	324	326M	329	361	363	365M	374M						
	375	377M	379M	391M	392	394	396	419M	433M	446M	449M	469M	504	505M	508M	522	543	544M						
	545	570	597	598M	608	611M	612	614	616	618	769M	800M	874M	928M	1038M	1041M	1044M	1045						
	1046M	1076M	1184	1217	1220	1224M	1225	1231	1233	1245M	1247	1249	1251	1253	1258M	1259	1261	1263						
	1309	1323M	1324	1330M	1338M	1339M	1340M	1356M	1368	1369M	1370	1375	1376M	1380	1385M	1390	1391	1392						
	1396M	1397M	1399	1464	1530M	1545M	1608M	1609	1611M	1614	1616	1631M	1645M	1657M	1675M	1711M	1743M	1748M						
	2029	2044M	2045	2067M	2075M	2076M	2077M	2078M	2082M	2157M	2160M	2210M	2280M	2309M	2310	2312	2314	2319						
	2328	2332M	2333	2338	2343	2345	2403M	2415	2419	2460M	2471M	2472	2473M	2527M	2528	2533	2536M	2537						
	2542	2547	2549	2554	2571	2573	2721M	2722	2728	2730	2732	2734	2749	2751	2777	2779M	2780	2782						
	2784	2793M	2797M	2841	2844M	2852M	2854M	2870M	2886	2888M	2889	2893M	2897	2899	2923M	2939M	2996	2998M						
	2999	3004M	3044	3046	3056M	3057	3067	3069	3139M	3140	3143	3145	3147	3149M	3150	3152	3154	3156						
	3161M	3162	3164	3166	3178M	3181	3183	3228M	3231	3233M	3234	3273M	3275	3280	3285	3290M	3292	3294						
	3299M	3481M	3482	3486	3509	3561	3564	3596	3614	3621	3627	3648M	3700M	3701	3703	3705	3707	3709						
	3711M	3712	3714	3716	3721M	3722	3724	3726	3731M	3803M	3805M	3806	3842M	3843M	3844	3865M	3866M	3867						
	3883	3894M	3895	3903M	3905M	3906	3913M	3915M	3916	3920M	3921	3922	3924M	3925M	3927M	3928M	3931M	3932						
	3933M	3942M	3944M	3945	3952M	3954M	3955	3961M	3965M	4021M	4022	4024	4027	4033	4036M	4048M	4051M	4054M						
	4055	4058	4065M	4066	4067M	4070M	4071	4074	4080	4081	4082	4083	4085	4086	4087	4088	4091M	4092						
	4107	4109	4111M	4127																				
	2(2)	285M	286	287	290	291	292	293	294	295	296	297	298	299	300	301	302	305	325M					
		326M	339M	378M	379M	390M	448M	449M	450M	507M	508M	510M	544M	650M	651	667M	677	682M	777M					
778		850M	851M	967	1193M	1194	1197M	1198	1222M	1228	1235M	1309	1345M	1346M	1352M	1353M	1354	1356M						
1368		1396M	1486M	1491M	1513M	1531M	1538M	1596	1796M	1797M	1798	1801	1803	1804M	1805M	1838M	1839M							
2029		2030M	2031M	2032M	2033M	2082M	2159M	2160M	2161M	2240M	2241M	2242	2244	2272	2330M	2336	2340M	2843M						
2844M		2853M	2854M	2856	2917M	2918M	2919	3022M	3031M	3032	3232M	3233M	3251M	3436M	3437M	3438	3439	3440M						
3443M		3444M	3616M	3617M	3618	3771M	3772M	3805M	3878M	3884M	4014	4107	4112M	4127	4129M									
268M		269M	270M	271	272M	302	303	304	313	333	338M	347	350M	357M	360	402	403M	407						
409		414	418M	427	428	431M	432	458	459M	468	470M	530	531M	658	669	734	735	738M						
739		758	764	766M	767	768M	795	797M	798	799M	843	863	866	868	870	871M	872	882						
884		890	1158M	1217	1218M	1231	1232M	1306	1308	1317M	1339	1346M	1347	1348	1629	1630M	1638	1640						
1643	1644M	1655	1656M	1669	1670	1673M	1674	1693	1695	1697	1699M	1700	1772M	1774	1776	1803	1807							
1808M	1809	1892	1893M	1967	1969	1971	1972	1973M	2029	2060M	2082M	2088	2090	2092	2094	2095	2096M							
2140	2226	2230	2232	2233M	2439	2449	2451	2452	2453	2454	2455	2456M	2719	2720M	2741	2742M	2795							
2796M	2825	2826M	2868	2869M	2892	2894M	2905	2921	2922M	2937	2938M	3002	3003M	3052	3053M	3060	3061M							
3136	3137M	3172	3173M	3199	3200M	3218	3220	3221	3222M	3371	3373	3410	3412	3461	3462M	3525	3526M							
3572	3573M	3623	3624M	3630	3631M	3653	3654M	3735	3736M	3784	3785M	3850	3851M	4013M	4019M	4022	4024							
4038B	4080	4087	4088	4089	4110M	4111																		
4(4)	313	324M	330	352	390M	392	402	407	504M	548	552	555M	558	569	571	574M	575M	580						
	647M	648M	649M	651	833M	834	841M	842	848M	881M	959	1139	1466	1498	1530	1545	1555	1559						
	1578	1584	1836M	1858M	1910M	1914M	1930M	1977B	2084B	2101B	2104B	2140M	2141M	2142	2144M	2145M	2146	2148						
2150M	2151	2161M	2162B	2459M	2841M	3231M	3235	3245	3760M	3848M	4017M	4042B												
5(5)	219U	220M	221																					
6(6)	339M	340B	346M	347M	348M	349	350M	352M	353	450M	451B	510M	511B	522M	525M	526	545M	546M						
	552N	593M	608M	609M	610	653M	692M	698M	721M	757M	758	763M	764	774M	775M	776M	778	780M						
	836M	851M	852B	924M	969B	978M	1012M	1015M	1065B	1081M	1087M	1100M	1114M	1118M	1119M	1120	1122	1124						
	1136M	1142B	1151M	1152	1153M	1170	1171	1172	1199	1226B	1255B	1265B	1275M	1310	1313M	1318M	1338	1355M						
	1402	1403M	1404	1405	1407	1409	1411	1413	1415	1418	1421	1424	1427	1428M	1429	1431M	1468M	1491M						
	1492B	1526M	1532M	1533B	1541M	1705M	1739M	1779M	1780M	1781M	1782	1783M	1784M	1785M	1787	1788	1789	1792M						
	1800M	1801M	1802	1805M	1806	1839M	1840B	1950M	1951	1958M	1959	1970M	1971	2019M	2024M	2025	2026	2027						
	2028	2031	2034	2037	2038	2053	2054M	2085M	2086	2087	2091M	2092	2093M	2094	2114	2153M	2186M	2236M						
	2251M	2305M	2306	2307M	2308	2348M	2390M	2396M	2404M	2458M	2464M	2468M	2469	2476M	2490M	2562M	2575M	2591M						
	2601M	2614M	2615	2617M	2618M	2619	2641M	2649M	2657M	2714M	2715	2716M	2717	2727M	2736M	2756M	2789M	2812M						
	2813M	2814	2855M	2856M	2856M	2857B	2871M	2872M	2873	2883M	2884M	2885	2957M	2964M	2965M	2966M	2967	2977M						
	3005M	3006M	3007	3025M	3033M	3034	3035M	3036	3074M	3090M	3128M	3142M	3174M	3175	3177	3188M	3194M	3201M						
	3202	3203	3242M	3243M	3247M	3248M	3314M	3315M	3315M	3329M	3330M	3336M	3346	3424M	3432M	3441M	3442	3450M						
	3484M	3511M	3552M	3579M	3585M	3592M	3649M	3658M	3666M	3667M	3668M	3669	3672M	3673	3739M	3755M	3768M	3769M						
	3770	3772M	3773B	3812M	3814M	3815	3860M	3861M	3862	3870M	3876M	3899M	3905	3909M	3915	3920	3936M	3944						
	3954	3971M	4091	4128M																				
	7(7)	664M	665	666M	680	681M	952M	955M	956M	960M	963M	1139M	1155M	1195	1203	1219M	1220	1221M	1233					
		1234M	1279M	1642M	1643																			

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)																X390 3.1.04	2012/08/17	13.12
15(F)	3444M	3445	3446M	3447M	3454M	3455	3652M	3684B	3686B	3743M	3886M	3895M	3896	3897M	3923M	3926M	3927	4012M	
	4017	4018M	4029	4031	4037M	4040M	4045	4056M	4059M	4064M	4066	4072M							
	215B	220	329M	330M	333N	336M	337	353M	354M	355M	356	357N	482M	483	485	543M	546	547	
	552M	555	559	569M	580	597M	702M	717M	718M	725M	726	727M	728	729	731	732	849M	850	
	887	909	910	911M	912	964	968M	977	980	981M	1016	1018M	1042	1045	1047M	1062	1064M	1134	
	1141M	1150	1159M	1173M	1174	1179M	1181	1182	1183	1198M	1199	1203	1271M	1272M	1273	1279	1280	1281	
	1282	1309	1325M	1326B	1340M	1341M	1342B	1356M	1368	1373M	1374B	1380M	1381B	1388M	1389	1396M	1404M	1429	
	1463M	1481M	1495M	1514M	1519M	1536M	1565M	1568M	1690M	1691	1702M	1703	1709	1710	1722	1777M	1778	1810M	
	1811	1812	1813	1814	1815	1816	1837M	1838	1894M	1895M	1896	1897	1899	1907M	1908	1917	1952M	1953M	
	1954	1957M	1959	1960	1961	1962	1974M	1975M	1976	2010M	2011M	2012	2014M	2015M	2016	2017	2029	2041	
	2046M	2047B	2049M	2051	2056M	2057	2059	2060N	2062M	2075	2078M	2079M	2080B	2082M	2097M	2098M	2099	2102	
	2228M	2229M	2231	2245M	2246	2270M	2271	2274M	2275	2276	2277	2278	2302M	2303	2304	2306	2308	2321M	
	2347M	2370	2406M	2416B	2436M	2437	2443M	2444M	2445	2446	2448	2452	2507M	2508	2556M	2566M	2743M	2811	
	2981M	3064	3119M	3120	3121	3123	3134	3243M	3345	3374M	3375	3376	3413M	3414	3415	3438	3456M	3457	
	3458M	3459M	3460	3463M	3464M	3465M	3467	3468	3469	3519M	3520	3528	3530	3531	3532	3533	3534	3535M	
	3536	3538M	3548	3549	3556	3557	3558M	3568M	3576M	3632M	3664M	3665M	3670	3675	3677	3679M	3682M	3685	
	3761M	3762	3764	3766	3771	3786M	3787M	3788	3818	3846M	3896M	3897B	3921M	3925	3926	3929	3933	3978M	
	3987M	4026M	4028M	4029	4031M	4032M	4033	4035M	4037	4055M	4056B	4071M	4072B	4125M	4126	4128N	4129N		

X11						Dsect Cross Reference			PAGE	72
Dsect	Length	Id	Defn	Con	Member				X390 3.1.04	2012/08/17 13.12
WORKAREA	00000D91	FFFFFFFF	5062		PRIMARY INPUT					

Con Source Members X390 3.1.04 2012/08/17 13.12

```
1 SYS1.MACLIB
    CHECK    CLOSE    DCB      FREEMAIN FREEPOL GET      GETMAIN IEZREGS IHBINNRA IHBINNRB IHBRDWRS
    IHB01    PUT      WRITE    XCTL
2 SYSD.TOOLS.MACLIB
3 SYSD.ALGOLF.ASM
4 SYSD.ALGOLF.MACLIB
    IEXCGEN  IEXCHAR  IEXENTRY WORKAREA
5 SYSD.ALGOLFRT.MACLIB
6 SYS1.AMODGEN
```

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.12
219		USING	Ordinary	00000001	00000000	00003000	5	00FE2	3870	IEX11000,R5,R8,R11			
219		USING	Ordinary	00000001	00001000		8	00FDE	3894				
219		USING	Ordinary	00000001	00002000		11	00E3C	4130				
226		USING	Ordinary	FFFFFFFF	00000000	00001000	13	00D90	4085	WORKAREA,R13			

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1X11 STEPNAME: IEX11 PROCSTEP: X390

Primary input: lines 1 to 4989 of SYSD.ALGOLF.ASM(IEX11)

SYSLIB library records read: 4392

SYSUT1 work file size: 565730 bytes

SYSUT2 work file size: 365038 bytes

SYSUT3 work file size: 399120 bytes

SYSLIN file records written: 244

TXA000I Return code 0, elapsed time 8.68 seconds.



No uninitialized areas found

**IEX20**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX20)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131301.RA000.T1X20.OBJECT
SYSPRINT	JES2.JOB09271.S00102
SYSUT1	SYS12230.T131301.RA000.T1X20.SYSUT1
SYSUT2	SYS12230.T131301.RA000.T1X20.SYSUT2
SYSUT3	SYS12230.T131301.RA000.T1X20.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				2 *			00002001
				3 *		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
				4 *			00004001
				5 *		FUNCTION/OPERATION -	00005001
				6 *		EACH ITAB BLOCK IS SCANNED FOR DUPLICATE IDENTIFIERS	00006001
				7 *		RELATIVE DISPLACEMENTS IN DSA IS ALLOCATED FOR ALL	00007001
				8 *		IDENTIFIERS, EXCEPT PROCEDURES, LABELS AND SWITCHES	00008001
				9 *		THE ITAB BLOCKS ARE WRITTEN IN PROGRAM BLOCK NUMBER	00009001
				10 *		ORDER TO SYSUT3	00010001
				11 *		THE ITAB BLOCKS ARE PRINTED ON SYSPRINT IN PROGRAM	00011001
				12 *		BLOCK NUMBER ORDER AND WITH THE IDENTIFIERS IN	00012001
				13 *		ALPHABETIC FORM WITHIN EACH BLOCK, IF THE OPTION	00013001
				14 *		SOURCE IS SPECIFIED	00014001
				15 *		CREATES PBTAB2	00015001
				16 *			00016001
				17 *		ENTRY POINT -	00017001
				18 *		IEX20000 ITAB MANIPULATION - XCTL EP=IEX20	00018001
				19 *			00019001
				20 *		INPUT - THE ITAB BLOCKS ARE READ IN FROM SYSUT3	00020001
				21 *			00021001
				22 *		OUTPUT -	00022001
				23 *		THE ITAB BLOCKS ARE WRITTEN TO SYSUT3 AND PRINTED ON	00023001
				24 *		SYSPRINT IF THE OPTION SOURCE IS SPECIFIED	00024001
				25 *			00025001
				26 *		EXTERNAL ROUTINES - THE PRINT ROUTINE IN IEX00 IS USED	00026001
				27 *			00027001
				28 *		EXITS - NORMAL -	00028001
				29 *		CONTROL IS GIVEN TO IEX21 XCTL EP=IEX21	00029001
				30 *			00030001
				31 *		EXITS - ERROR - N/A	00031001
				32 *			00032001
				33 *		TABLES/WORKAREA -	00033001
				34 *		ATAB - ADDR IS OF THE ITAB RECORDS IN PROGRAM BLOCK	00034001
				35 *		NUMBER ORDER	00035001
				36 *		TRINTEXT - TRANSLATION OF INTERNAL CHARACTERS TO EBCDIC	00036001
				37 *		CHARACTERS	00037001
				38 *		TAB - PRINTING OF HEXADECIMAL DIGITS	00038001
				39 *		WORK - BUILDING THE PRINT ENTRIES	00039001
				40 *			00040001
				41 *		NOTES -	00041001
				42 *		CHARACTER CODE DEPENDENCE	00042001
				43 *		THE OUTPUT ON SYSPRINT -	00043001
				44 *		THE IDENTIFIER NAME IS TRANSLATED BY MEANS OF TRINTEXT,	00044001
				45 *		WHICH IS A CHARACTER TABLE	00045001
				46 *		THE HEXADECIMAL PART IS TRANSLATED BY MEANS OF TAB	00046001
				47 *		THE REMAINING PARTS DEPEND ON THE INTERNAL	00047001
				48 *		REPRESENTATION OF THE EXTERNAL CHARACTER SET WHICH IS	00048001
				49 *		EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME	00049001
				50 *		THE OPERATION OF THE OTHER PARTS OF THE PHASE DOES NOT	00050001
				51 *		DEPEND UPON A PARTICULAR INTERNAL REPRESENTATION OF THE	00051001
				52 *		EXTERNAL CHARACTER SET	00052001
				53 *			00053001
000000		00000	00898	54	IEX20000	CSECT	00054001
				55 *			00055001
				56 *	R1	PBN	00056001
				57 *	R2	CALCULATIONS	00057001
				58 *	R3	PARAMETER FOR CONVERT ROUTINE	00058001
				59 *	R3	DOUBLE WORD POINTER	00059001
				60 *	R4	WORD POINTER	00060001
				61 *	R5	KEEPS TRACK OF WHEN TO PRINT	00061001
				62 *	R5	HALF WORD POINTER	00062001
				63 *	R6	BYTE POINTER	00063001
				64 *	R7	CURRENT IDENTIFIER	00064001
				65 *	R8	CURRENT BLOCKHEAD	00065001
				66 *	R9	SCANS FOR DUPLICATES	00066001
				67 *	R10	ARRAY STORAGE ALLOCATIONS	00067001
				68 *	R11	BASE REGISTER	00068001
				69 *	R12	RETURN FROM CONVERT, PRINT ROUTINE	00069001
				70 *	R14	PBN DURING PRINTING	00070001
				71 *	R15		00071001
				72 *			00072001
				73 *		INITIALIZATION	00073001
				74 *			00074001
				75 *		GETMAIN FOR ITAB AND ATAB	00075001
				76 *		FIRST ENTRY IN ATAB IS MADE ZERO IF NO PBN 0	00076001
				77 *		PRINTING OF HEADING LINES IS INITIALIZED IF SOURCE SPECIFIED	00077001
				78 *		FPLEN IS MADE 4 IF SHORT SPECIFIED OTHERWISE IT REMAINS 8	00078001
				79 *			00079001
				80		IEXENTRY 'IEX20000 LEVEL 2.1 &SYSDATE &SYSTEMTIME'	00080001
				81+*			01-IEXEN
000000	47F0 F026		00026	82+	B	38(,R15) BRANCH AROUND ID	01-IEXEN
000004	21			83+	DC	AL1(33) LENGTH OF IDENTIFIER	01-IEXEN
000005	C9C5E7F2F0F0F0F0			84+	DC	CL33'IEX20000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
				+		IDENTIFIER	01-IEXEN
				85 *			00081001
		R:B	00000	86	USING	IEX20000,R11	00082001
000026	18BF			87	LR	R11,R15	00083001
		R:D	00000	88	USING	WORKAREA,R13	00084001
000028	41F0 B6EA		006EA	89	LA	R15,SLUT2 INTERRUPT BEFORE GETMAIN	00085001
00002C	50F0 D090		00090	90	ST	R15,ERET	00086001
000030	5810 D0E8		000E8	91	L	R1,ITAB20S ITAB	00087001
000034	4110 1400		00400	92	LA	R1,1024(,R1) ATAB	00088001
000038	1801			93	LR	R0,R1	00089001
				94 *			00090001
				95	GETMAIN	R,LV=(0) GET ITAB ATAB AREAS	00091001
				96+*	OS/VS2	RELEASE 4 VERSION -- 10/21/75	01-GETMA

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00003A	4510 B03E		0003E	97+	BAL	1,*,+4	INDICATE GETMAIN 01-GETMA
00003E	0A0A			98+	SVC	10	ISSUE GETMAIN SVC 01-GETMA
				99 *			00092001
000040	41F0 B6D6		006D6	100	LA	R15,SLUT	00093001
000044	50F0 D090		00090	101	ST	R15,ERET	00094001
000048	5010 DCF0		00CF0	102	ST	R1,AREALOC	00095001
00004C	5010 DCE8		00CE8	103	ST	R1,AITAB	00096001
000050	5A10 D0E8		000E8	104	A	R1,ITAB20S	00097001
000054	5010 DCD4		00CD4	105	ST	R1,ATABAD	00098001
000058	1B22			106	SR	R2,R2	00099001
00005A	5020 DCB8		00CB8	107	ST	R2,KF0	00100001
00005E	5020 DCF4		00CF4	108	ST	R2,SAVEPB	00101001
000062	9104 D080	00080		109	TM	COMPLG5,PROC	00102001
000066	4710 B072		00072	110	BO	INITIAL	00103001
00006A	41F0 0001		00001	111	LA	R15,1	00104001
00006E	50F0 DCF4		00CF4	112	ST	R15,SAVEPB	00105001
000072	5020 1000		00000	113	INITIAL	R2,0,(R1)	00106001
000076	5020 DCBC		00CBC	114	ST	R2,SAVE	00107001
00007A	D20F DCC0	DCBC 00CC0	00CBC	115	MVC	SAVE1(16),SAVE	00108001
000080	4220 DCFA		00CFA	116	STC	R2,BITS1	00109001
000084	41A0 D278		00278	117	LA	R10,PBTAB2	00110001
000088	50A0 DCD0		00CD0	118	ST	R10,APBTAB2	00111001
00008C	9180 D081	00081		119	TM	COMPLG5+1,NSRCE	00112001
000090	4710 B0C4		000C4	120	BO	INITIALA	00113001
000094	92FF D099	00099		121	MVI	LINCNT+1,255	00114001
000098	9240 D10D	0010D		122	MVI	PAGEHD1C+1,C'	00115001
00009C	D26C D10E	D10D 0010E	0010D	123	MVC	PAGEHD1C+2(109),PAGEHD1C+1	00116001
0000A2	D263 D190	D117 00190	00117	124	MVC	PAGEHD2D(L'PAGEHD2D),PAGEHD1D	00117001
0000A8	D263 D209	D117 00209	00117	125	MVC	PAGEHD3D(L'PAGEHD3D),PAGEHD1D	00118001
0000AE	D20F D13E	B702 0013E	00702	126	MVC	PAGEHD1D+39(L'HEAD1),HEAD1	00119001
0000B4	D259 D190	B712 00190	00712	127	MVC	PAGEHD2D(L'HEAD2),HEAD2	00120001
0000BA	D259 D209	B76C 00209	0076C	128	MVC	PAGEHD3D(L'HEAD3),HEAD3	00121001
0000C0	45C0 B622		00622	129	BAL	R12,PRINTITB	00122001
0000C4	1B11			130	INITIALA	R1,R1	00123001
0000C6	9102 D080	00080		131	TM	COMPLG5,LNG	00124001
0000CA	4710 B0D2		000D2	132	BO	READBLK	00125001
0000CE	9204 B825	00825		133	MVI	FPLEN+1,4	00126001
				134 *			00127001
				135 *	SCAN FOR DUPLICATES		00128001
				136 *			00129001
				137 *	READS IN A NEW BLOCK		00130001
				138 *	START ADDR IN R8 END ADDR IN AITAB		00131001
				139 *	COMPARES EACH IDENTIFIER WITH ALL IDENTIFIERS FOLLOWING		00132001
				140 *	IT IN THE BLOCK		00133001
				141 *	IF TWO EQUAL FOUND AND IF NOT FIRST ONE IS A FORMAL		00134001
				142 *	PARAMETER AND SECOND NOT E45 IS GENERATED		00135001
				143 *	WHEN ALL IDENTIFIERS IN THE BLOCK HAVE BEEN CHECK THE		00136001
				144 *	EXIT IS TO ALLOSTUR		00137001
				145 *			00138001
0000D2	58C0 DCE8		00CE8	146	READBLK	L R12,AITAB	00139001
0000D6	5820 D06C		0006C	147	L	R2,AUT3DCB	00140001
				148 *			00141001
				149 *	READ IN NEW BLOCK		00142001
				150 *			00143001
				151	READ	UT3DECB,SF,(R2),(R12),'S'	00144001
0000DA	0700			152+	CNOP	0,4	02-IHBRD
0000DC	4510 B0F4		000F4	153+	BAL	1,*,+24	02-IHBRD
0000E0	00000000			154+	UT3DECB	DC F'0'	02-IHBRD
0000E4	80			155+	DC	X'80'	02-IHBRD
0000E5	80			156+	DC	X'80'	02-IHBRD
0000E6	0000			157+	DC	AL2(0)	02-IHBRD
0000E8	00000000			158+	DC	A(0)	02-IHBRD
0000EC	00000000			159+	DC	A(0)	02-IHBRD
0000F0	00000000			160+	DC	A(0)	02-IHBRD
0000F4	5021 0008	00008		161+	ST	R2,8(1,0)	02-IHBRD
0000F8	50C1 000C	0000C		162+	ST	R12,12(1,0)	02-IHBRD
0000FC	58F1 0008	00008		163+	L	15,8(1,0)	02-IHBRD
000100	58F0 F030	00030		164+	L	15,48(0,15)	02-IHBRD
000104	05EF			165+	BALR	14,15	02-IHBRD
				166 *			00145001
				167	CHECK	UT3DECB	00146001
000106	4110 B0E0	000E0		168+	LA	1,UT3DECB	02-IHBRD
00010A	58E0 1008	00008		169+	L	14,8(0,1)	01-CHECK
00010E	58F0 E034	00034		170+	L	15,52(0,14)	01-CHECK
000112	05EF			171+	BALR	14,15	01-CHECK
				172 *			00147001
000114	1B22			173	SR	R2,R2	00148001
000116	4320 C00A	0000A		174	IC	R2,10(,R12)	00149001
00011A	8B20 0002	00002		175	SLA	R2,2	00150001
00011E	5870 DCD4	00CD4		176	L	R7,ATABAD	00151001
000122	50C2 7000	00000		177	ST	R12,0(R2,R7)	00152001
000126	1B8C			178	LR	R8,R12	00153001
000128	D201 DCF8	C000 00CF8	00000	179	MVC	LENCOUNT,0(R12)	00154001
00012E	4AC0 DCF8	00CF8		180	AH	R12,LENCOUNT	00155001
000132	50C0 DCE8	00CE8		181	ST	R12,AITAB	00156001
000136	1B78			182	LR	R7,R8	00157001
000138	9180 8008	00008		183	TM	8(R8),X'80'	00158001
00013C	4780 B148	00148		184	BZ	SCANNXT	00159001
000140	4170 8016	00016		185	LA	R7,22(,R8)	00160001
000144	47F0 B14C	0014C		186	B	SCANNXTA	00161001
				187 *			00162001
000148	4170 700B	0000B		188	SCANNXT	LA R7,11(,R7)	00163001
00014C	5970 DCE8	00CE8		189	SCANNXTA	C R7,AITAB	00164001
000150	4780 B19C	0019C		190	BE	ALLOSTOR	00165001
000154	952B 7005	00005		191	CLI	5(R7),X'2B'	00166001
000158	4780 B148	00148		192	BE	SCANNXT	00167001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00015C	9500 7000	00000		193	CLI	0(R7),0	INVALID PROCEDURE NAME ? 00168001
000160	4780 B148		00148	194	BE	SCANNXT	YES, SKIP CHECKING 00169001
000164	1897			195	LR	R9,R7	00170001
000166	4190 900B		0000B	196	LA	R9,11(,R9)	00171001
00016A	5990 DCE8		00CE8	197	C	R9,AITAB	ALL IDENT CHECKED AGAINST 00172001
00016E	4780 B148		00148	198	BE	SCANNXT	THE ONE PROCESSED ? 00173001
000172	952B 9005	00005		199	CLI	5(R9),X'2B'	FOR HEAD OR CONT ENTRY ? 00174001
000176	4780 B166		00166	200	BE	CHECKNXT	00175001
00017A	D505 9000 7000	00000	00000	201	CLC	0(6,R9),0(R7)	COMPARE EACH IDENTIFIER AGAINST 00176001
				202 *			ALL FOLLOWING IDENTIFIERS 00177001
				203 *			IN THE BLOCK 00178001
000180	4770 B166		00166	204	BNE	CHECKNXT	00179001
000184	9130 7007	00007		205	TM	7(R7),X'30'	TWO EQUAL FOUND. PROCESSED 00180001
000188	4740 B190		00190	206	BM	CHECKNAA	ONE FORMAL PARAMETER ? 00181001
00018C	47F0 B3DC		003DC	207	B	E43	NO 00182001
				208 *			00183001
000190	9130 9007	00007		209	CHECKNAA	TM 7(R9),X'30'	COMPARED ONE IS FORMAL PARAM 00184001
000194	4740 B3DC		003DC	210	BM	E43	YES 00185001
000198	47F0 B166		00166	211	B	CHECKNXT	NO 00186001
				212 *			00187001
				213 *		ALLOSTOR	00188001
				214 *			00189001
				215 *		ALLOCATES STORAGE FOR THE IDENTIFIERS	00190001
				216 *		FOR A TYPE PROC BLOCK ALLOCATION STARTS AT 32 OTHERWISE	00191001
				217 *		AT 24.	00192001
				218 *		NO BLOCK MAY GET MORE THAN 4K ALLOCATED.	00193001
				219 *		IT IS ALSO CHECKED THAT THERE IS NO PROC, STRING OR	00194001
				220 *		SWITCH CALLED BY VALUE.	00195001
				221 *		WHEN ALL DECLARATIONS IN THE BLOCK ARE PROCESSED R3-FPLEN	00196001
				222 *		WILL BE PUT IN PBTAB2.	00197001
				223 *		IF THERE ARE MORE BLOCKS TO BE PROCESSED THE EXIT IS TO	00198001
				224 *		IDENTIFIER SCAN OTHERWISE TO WRITE ITAB.	00199001
				225 *		FOUR POINTERS ARE USED -	00200001
				226 *		R3 DOUBLE WORD POINTER	00201001
				227 *		R4 WORD	00202001
				228 *		R5 HALF WORD R6 BOOLEAN	00203001
				229 *		R3 IS INCREASED BY FPLEN WHICH IS 8 FOR LONG, 4 FOR SHORT.	00204001
				230 *		FOR LONG PRECISION ALL 4 POINTERS ARE USED	00205001
				231 *		FOR SHORT R4 IS NEVER USED, WILL CONTAIN 0 ALL THE	00206001
				232 *		TIME	00207001
				233 *		REAL WILL BE ALLOCATED TO R3, 4 OR 8 BYTES.	00208001
				234 *		INTEGER WILL GET R3 OR R4. R3 ALWAYS IF SHORT R4 IF	00209001
				235 *		LONG AND R4 NOT ZERO.	00210001
				236 *		OTHERWISE R3, IN WHICH CASE R4 WILL EQUAL R3+4 FOR THE	00211001
				237 *		NEXT INTEGER.	00212001
				238 *		BOOLEAN WILL GET R3, R4, R5 OR R6 IF LONG R3, R5 OR R6	00213001
				239 *		IF SHORT.	00214001
				240 *		FIRST BOOLEAN FOUND WILL GET EITHER R4 OR R3.	00215001
				241 *		R5 IS THEN INITIALIZED TO R4+2 OR R3+2	00216001
				242 *		R6 R4+1 R3+1	00217001
				243 *		SECOND BOOLEND WILL GET THE VALUE OF R6 AND R6 WILL BE 0.	00218001
				244 *		THIRD BOOLEAN WILL GET R5 AND R5 WILL BE 0 R6=R5+1.	00219001
				245 *		FORTH BOOLEAN WILL GET R6 AND R6 WILL BE 0.	00220001
				246 *		THIS WILL THEN BE REPEATED FOR EVERY FOUR BOOLEAN	00221001
				247 *		IDENTIFIERS. ALL FORMAL PARAMETERS WILL GET THE R3 VALUE	00222001
				248 *		AND R3 WILL BE INCREASED BY 8.	00223001
				249 *		ARRAYS WILL GET R3 VALUE AND R3 WILL BE INCREASED BY	00224001
				250 *		4(DIM+6)+X WHERE X IS 4 WHEN LONG PRECISION AND DIM IS	00225001
				251 *		AN UNEVEN NUMBER, OTHERWISE X IS 0.	00226001
				252 *		LABEL, SWITCH, PROCEDURE WILL NOT GET ANYTHING	00227001
				253 *		EX. OF STORAGE ALLOCATION	00228001
				254 *		LONG SHORT	00229001
				255 *		01234567 01234567 FP FORMAL PARAMETER	00230001
				256 *		FP FP R REAL	00231001
				257 *		FP FP INT INTEGER	00232001
				258 *		R R INT B BOOLEAN	00233001
				259 *		INT INT INT INT NU NOT USED SPACE	00234001
				260 *		INT BBB BBB R	00235001
				261 *		R INT R	00236001
				262 *		INT NU	00237001
				263 *		R	00238001
				264 *			00239001
00019C	9180 8008	00008		265	ALLOSTOR	TM 8(R8),X'80'	THE BLOCK A TYPE PROCEDURE ? 00240001
0001A0	4780 B180		00180	266	BZ	ALLOSTAA	NO 00241001
0001A4	4130 0020		00020	267	LA	R3,32	YES, SET DOUBLE WORD POINTER 00242001
0001A8	947F 8008	00008		268	NI	8(R8),X'7F'	CLEAR TYPE PROCEDURE INDICATION 00243001
0001AC	47F0 B1B4		001B4	269	B	STARTALL	00244001
				270 *			00245001
0001B0	4130 0018		00018	271	ALLOSTAA	LA R3,24	SET DOUBLE WORD POINTER 00246001
0001B4	1844			272	STARTALL	SR R4,R4	SET ALL POINTERS TO ZERO 00247001
0001B6	1855			273	SR	R5,R5	00248001
0001B8	1866			274	SR	R6,R6	00249001
0001BA	1878			275	LR	R7,R8	GET FIRST VARIABLE 00250001
0001BC	47F0 B1CC		001CC	276	B	GETNEXT	00251001
				277 *			00252001
0001C0	4A30 B824		00824	278	STORALLO	AH R3,FPLEN	INCREASE ALLOCATION POINTER 00253001
0001C4	5930 B804		00804	279	STORALLA	C R3,KF4095	HAS 4K BEEN ALLOCATED ALREADY ? 00254001
0001C8	4720 B3F4		003F4	280	BH	E44	00255001
0001CC	4170 700B		0000B	281	GETNEXT	LA R7,11(,R7)	GET NEXT VARIABLE 00256001
0001D0	9036 DCD8		00CD8	282	STM	R3,R6,DPC	STORE ALL POINTERS 00257001
0001D4	5970 DCE8		00CE8	283	C	R7,AITAB	ALL VARIABLES TAKEN CARE OF ? 00258001
0001D8	4780 B316		00316	284	BE	LASTREC	YES 00259001
0001DC	952B 7005	00005		285	CLI	5(R7),X'2B'	FOR HEADING OR CONTINUATION ? 00260001
0001E0	4780 B1CC		001CC	286	BE	GETNEXT	00261001
0001E4	9591 7006	00006		287	CLI	6(R7),X'91'	ALL PURPOSE IDENTIFIER ? 00262001
0001E8	4780 B1CC		001CC	288	BE	GETNEXT	00263001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0001EC	9130 7007	00007		289	TM	7(R7),X'30'	FORMPARAM, DEK VAR OR CONST?
0001F0	4740 B2E0		002E0	290	BM	FORMPARM	
0001F4	4780 B29C		0029C	291	BZ	CONST	
0001F8	9103 7007	00007		292	TM	7(R7),X'03'	BOOLEAN VARIABLE ?
0001FC	4710 B23C		0023C	293	BO	BOOLEAN	
000200	9102 D080	00080		294	TM	COMPFLGS,LNG	SHORT PRECISION ?
000204	4780 B210		00210	295	BZ	REAL	YES, ALLOCATE SAME FOR REAL AND
				296	*		INTEGER
000208	9101 7007	00007		297	TM	7(R7),X'01'	INTEGER OR REAL ?
00020C	4710 B21A		0021A	298	BO	INTEGER	
000210	D201 7009	DCDA 00009	00CDA	299	REAL MVC	9(2,R7),DPC+2	MOVE IN DISPLACEMENT
000216	47F0 B1C0		001C0	300	B	STORALLO	
				301	*		
00021A	1244			302	INTEGER LTR	R4,R4	EMPTY HOLE LEFT FOR INTEGER ?
00021C	4780 B22E		0022E	303	BZ	INTEGERA	NO
000220	D201 7009	DCDE 00009	00CDE	304	MVC	9(2,R7),WPC+2	YES, FILL THE HOLE AND MAKE
000226	4140 0000		00000	305	LA	R4,0	WORD POINTER= 0
00022A	47F0 B1CC		001CC	306	B	GETNEXT	
				307	*		
00022E	D201 7009	DCDA 00009	00CDA	308	INTEGERA MVC	9(2,R7),DPC+2	MOVE IN DOUBLEWORD PTR AND MAKE
000234	4140 3004		00004	309	LA	R4,4(,R3)	WORDPTR POINT TD EMPTY HOLE NEXT
000238	47F0 B1C0		001C0	310	B	STORALLO	TO IT
				311	*		
00023C	1266			312	BOOLEAN LTR	R6,R6	SPACE LEFT NEXT TO PREV BOOL ?
00023E	4780 B24E		0024E	313	BZ	BOOLEANA	NO
000242	D201 7009	DCE6 00009	00CE6	314	MVC	9(2,R7),BPC+2	YES, MOVE IN DISPLACEMENT
000248	1B66			315	SR	R6,R6	MAKE BYTE POINTER 0
00024A	47F0 B1CC		001CC	316	B	GETNEXT	
				317	*		
00024E	1255			318	BOOLEANA LTR	R5,R5	SPACE LEFT NEXT TO 2 PREV BOOL ?
000250	4780 B264		00264	319	BZ	TESTWPA	NO
000254	D201 7009	DCE2 00009	00CE2	320	MVC	9(2,R7),HPC+2	YES, MOVE IN DISPLACEMENT
00025A	4160 5001		00001	321	LA	R6,1(,R5)	MAKE BYTE POINTER POINT TO NEXT
00025E	1B55			322	SR	R5,R5	HALFWORD POINTER 0
000260	47F0 B1CC		001CC	323	B	GETNEXT	FREE BYTE
				324	*		
000264	9102 D080	00080		325	TESTWPA TM	COMPFLGS,LNG	SHORT PRECISION ?
000268	4780 B286		00286	326	BZ	TAKEDP	YES, DO NOT USE R4 POINTER
00026C	1244			327	TESTWP LTR	R4,R4	R4 POINTER FREE ?
00026E	4780 B286		00286	328	BZ	TAKEDP	NO, TAKE R3 POINTER INSTEAD
000272	D201 7009	DCDE 00009	00CDE	329	MVC	9(2,R7),WPC+2	YES, USE R4 AS DISPLACEMENT
000278	4160 4001		00001	330	LA	R6,1(,R4)	SET R5 AND R6
00027C	4150 4002		00002	331	LA	R5,2(,R4)	TO FREE BYTES IN WORD
000280	1B44			332	SR	R4,R4	SET R4 TO ZERO
000282	47F0 B1CC		001CC	333	B	GETNEXT	
				334	*		
000286	D201 7009	DCDA 00009	00CDA	335	TAKEDP MVC	9(2,R7),DPC+2	USE R3 AS DISPLACEMENT
00028C	4160 3001		00001	336	LA	R6,1(,R3)	SET R4, R5, R6 TO FREE BYTES
000290	4150 3002		00002	337	LA	R5,2(,R3)	WITHIN THE DOUBLE WORD
000294	4140 3004		00004	338	LA	R4,4(,R3)	
000298	47F0 B1C0		001C0	339	B	STORALLO	
				340	*		
00029C	9104 7007	00007		341	CONST TM	7(R7),X'04'	FOR LABEL, STRING, PROCEDURE
0002A0	4780 B1CC		001CC	342	BZ	GETNEXT	
0002A4	9108 7007	00007		343	TM	7(R7),X'08'	DO NOT ALLOCATE ANY STORAGE
0002A8	4710 B1CC		001CC	344	BO	GETNEXT	
0002AC	1BAA			345	SR	R10,R10	
0002AE	43A7 0009		00009	346	IC	R10,9(R7)	
0002B2	8AA0 0004		00004	347	SRA	R10,4	FOR AN ARRAY
0002B6	41A0 A006		00006	348	LA	R10,6(,R10)	STORAGE NEEDED IS 4(DIM+6)+X
0002BA	8BA0 0002		00002	349	SLA	R10,2	
0002BE	D601 7009	DCDA 00009	00CDA	350	OC	9(2,R7),DPC+2	OR IN THE DISP TO SAVE DIMENSION
0002C4	9102 D080	00080		351	TM	COMPFLGS,LNG	X IS 4 IF LONG PRECISION
0002C8	4780 B2D8		002D8	352	BZ	CONSTAA	
0002CC	9110 7009	00009		353	TM	9(R7),X'10'	DIM IS AN UNEVEN NUMBER
0002D0	4780 B2D8		002D8	354	BZ	CONSTAA	INCREASE IF NEEDED TO GET
0002D4	41A0 A004		00004	355	LA	R10,4(,R10)	ON DOUBLE WORD BOUNDARY
0002D8	413A 3000		00000	356	CONSTAA LA	R3,0(R10,R3)	
0002DC	47F0 B1C4		001C4	357	B	STORALLA	
				358	*		
0002E0	9103 7007	00007		359	FORMPARM TM	7(R7),X'03'	TYPE PARAMETER ?
0002E4	4780 B2F6		002F6	360	BZ	NOTTYPE	NO
0002E8	D201 7009	DCDA 00009	00CDA	361	FORMPALL MVC	9(2,R7),DPC+2	MOVE IN DISPLACEMENT
0002EE	4130 3008		00008	362	LA	R3,8(,R3)	
0002F2	47F0 B1C4		001C4	363	B	STORALLA	
				364	*		
0002F6	9110 7007	00007		365	NOTTYPE TM	7(R7),X'10'	CALL BY NAME ?
0002FA	4710 B2E8		002E8	366	BO	FORMPALL	YES
0002FE	9103 7007	00007		367	TM	7(R7),X'03'	NO, CHECK IF VALUE CALL CORRECT
000302	4780 B30A		0030A	368	BZ	NOTTYPEA	
000306	47F0 B2E8		002E8	369	B	FORMPALL	
				370	*		
00030A	9528 7007	00007		371	NOTTYPEA CLI	7(R7),X'28'	LABEL CALLED BY VALUE ?
00030E	4780 B2E8		002E8	372	BE	FORMPALL	
000312	47F0 B3E8		003E8	373	B	E45	
				374	*		
000316	1B22			375	LASTREC SR	R2,R2	PROC SWITCH OR STRING
000318	4320 800A		0000A	376	IC	R2,10(,R8)	CALLED BY VALUE
00031C	8B20 0001		00001	377	SLA	R2,1	CONSTRUCT ENTRY OF PBTAB2
000320	58E0 DC00		00CD0	378	L	R14,APBTAB2	GET PBN
000324	41E2 E000		00000	379	LA	R14,0(R2,R14)	
000328	4B30 B824		00824	380	SH	R3,FPLEN	GET LAST BYTE USED
00032C	4030 E000		00000	381	STH	R3,0(,R14)	
000330	5810 DCF4		00CF4	382	L	R1,SAVEPB	
000334	4910 D09E		0009E	383	CH	R1,PBN	ALL ITAB REC WRITTEN OUT ?
000338	4110 1001		00001	384	LA	R1,1(,R1)	



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00033C	5010 DCF4		00CF4	385	ST	R1,SAVEPB	00360001
000340	4770 B0D2		000D2	386	BNE	READBLK	00361001
				387 *			00362001
				388 *	WRITITAB		00363001
				389 *			00364001
				390 *	WRITES THE ITAB RECORD TO SYSUT3 IN PROGRAM BLOCK NUMBER		00365001
				391 *	ORDER		00366001
				392 *	THE ADDR TO WHERE THE BLOCK IS GOING TO BE WRITTEN		00367001
				393 *	IS PICKED UP FROM ATAB		00368001
				394 *	IN EACH BLOCK THE LENGTH OF THE NEXT BLOCK IS INSERTED		00369001
				395 *			00370001
000344	58C0 DCD4		00CD4	396	WRITITAB L	R12,ATABAD	00371001
000348	58A0 D06C		0006C	397	L	R10,AUT3DCB	00372001
				398 *			00373001
				399	CLOSE ((R10),REREAD),TYPE=T	GET TO START OF SYSUT3	00374001
00034C				400+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-CLOSE
00034C	4510 B354		00354	401+	BAL	1,*+8	LOAD REG1 W/LIST ADDR 01-CLOSE
000350	00000000			402+	DC	A(0)	OPTION AND DCB ADDRESS 01-CLOSE
000354	50A1 0000		00000	403+	ST	R10,0(1,0)	STORE DCB ADDRESS 01-CLOSE
000358	9290 1000	00000		404+	MVI	0(1),144	MOVE IN OPTION BYTE 01-CLOSE
00035C	0A17			405+	SVC	23	ISSUE TCLOSE SVC 01-CLOSE
				406 *			00375001
00035E	1B22			407	SR	R2,R2	00376001
000360	9104 D080	00080		408	TM	COMPFLGS,PROC	00377001
000364	4780 B3C8		003C8	409	BZ	ITL2P	00378001
000368	58A0 C000		00000	410	ITABLOOP L	R10,0(,R12)	00379001
00036C	5870 D06C		0006C	411	L	R7,AUT3DCB	00380001
000370	5850 C004		00004	412	L	R5,4(,R12)	00381001
000374	4920 D09E		0009E	413	CH	R2,PBN	00382001
000378	4780 B382		00382	414	BE	ITABLOOA	00383001
00037C	D201 A002	5000 00002	00000	415	MVC	2(2,R10),0(R5)	00384001
000382	D201 DCF8	A000 00CF8	00000	416	ITABLOOA MVC	LENCOUNT,0(R10)	00385001
000388	48F0 DCF8		00CF8	417	LH	R15,LENCOUNT	00386001
				418 *			00387001
				419	WRITE PRCH4,SF,(R7),(R10),(R15)		00388001
00038C				420+	CNOP	0,4	02-IHBRD
00038C	4510 B3A4		003A4	421+	BAL	1,*+24	02-IHBRD
000390	00000000			422+PRCH4	DC	F'0'	02-IHBRD
000394	00			423+	DC	X'00'	02-IHBRD
000395	20			424+	DC	X'20'	02-IHBRD
000396	0000			425+	DC	AL2(0)	02-IHBRD
000398	00000000			426+	DC	A(0)	02-IHBRD
00039C	00000000			427+	DC	A(0)	02-IHBRD
0003A0	00000000			428+	DC	A(0)	02-IHBRD
0003A4	5071 0008		00008	429+	ST	R7,8(1,0)	02-IHBRD
0003A8	50A1 000C		0000C	430+	ST	R10,12(1,0)	02-IHBRD
0003AC	40F1 0006		00006	431+	STH	R15,6(1,0)	02-IHBRD
0003B0	58F1 0008		00008	432+	L	15,8(1,0)	02-IHBRD
0003B4	58F0 F030		00030	433+	L	15,48(0,15)	02-IHBRD
0003B8	05EF			434+	BALR	14,15	02-IHBRD
				435 *			00389001
				436	CHECK PRCH4		00390001
0003BA	4110 B390		00390	437+	LA	1,PRCH4	02-IHBRD
0003BE	58E0 1008		00008	438+	L	14,8(0,1)	01-CHECK
0003C2	58F0 E034		00034	439+	L	15,52(0,14)	01-CHECK
0003C6	05EF			440+	BALR	14,15	01-CHECK
				441 *			00391001
0003C8	41C0 C004		00004	442	ITL2P LA	R12,4(,R12)	00392001
0003CC	4920 D09E		0009E	443	CH	R2,PBN	00393001
0003D0	4120 2001		00001	444	LA	R2,1(,R2)	00394001
0003D4	4770 B368		00368	445	BNE	ITABLOOP	00395001
0003D8	47F0 B47A		0047A	446	B	ITABPRNT	00396001
				447 *			00397001
				448 *	E43		00398001
				449 *			00399001
				450 *	GENERATES ERROR MESSAGE 45		00400001
				451 *	RETURNS TO SCANNING FOR DUPLICATES		00401001
				452 *			00402001
0003DC	45F0 B422		00422	453	E43 BAL	R15,ERRNAME	00403001
0003E0	922D A001	00001		454	MVI	1(R10),X'2D'	00404001
0003E4	47F0 B148		00148	455	B	SCANNXT	00405001
				456 *			00406001
				457 *	E45		00407001
				458 *			00408001
				459 *	GENERATER ERROR MESSAGE 47		00409001
				460 *	RETURNS TO FORMPALL AS IF VAR WAS CORRECT		00410001
				461 *			00411001
0003E8	45F0 B422		00422	462	E45 BAL	R15,ERRNAME	00412001
0003EC	922F A001	00001		463	MVI	1(R10),X'2F'	00413001
0003F0	47F0 B2E8		002E8	464	B	FORMPALL	00414001
				465 *			00415001
				466 *	E44		00416001
				467 *			00417001
				468 *	GENERATES ERROR MESSAGE 214		00418001
				469 *	RETURNS TO LASTREC TO TAKE NEXT BLOCK, IF ANY		00419001
				470 *			00420001
0003F4	5830 DCF4		00CF4	471	E44 L	R3,SAVEPB	00421001
0003F8	45C0 B612		00612	472	BAL	R12,CONVERT	00422001
0003FC	58A0 D0C0		000C0	473	L	R10,NEXTERR	00423001
000400	41C0 A007		00007	474	LA	R12,7(,R10)	00424001
000404	59C0 D0C4		000C4	475	C	R12,ENDPOOL	00425001
000408	4720 B460		00460	476	BH	E0	00426001
00040C	50C0 D0C0		000C0	477	ST	R12,NEXTERR	00427001
000410	9287 A000	00000		478	MVI	0(R10),X'87'	00428001
000414	92D6 C001	00001		479	MVI	1(R12),X'D6'	00429001
000418	D202 A004	DCBD 00004	00CBD	480	MVC	4(3,R10),SAVE+1	00430001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00041E	47F0 B316		00316	481	B	LASTREC	00431001
				482	*		00432001
				483	*	ERRNAME	00433001
				484	*		00434001
				485	*	FINDS THE LENGTH OF THE VARIABLE IN ERROR, CHECKS FOR	00435001
				486	*	ERRPOOL OVERFLOW, MOVES IN THE NAME OF THE VAR AND	00436001
				487	*	LENGTH OF MESSAGE	00437001
				488	*	RETURNS TO CALLING PROGRAM, E43 OR E44	00438001
				489	*		00439001
000422	41C0 0005		00005	490	ERRNAME LA	R12,5	00440001
000426	42C0 B42D		0042D	491	ERRNAMEC STC	R12,ERRNAMEA+3	00441001
00042A	9500 7000	00000		492	ERRNAMEA CLI	0(R7),0	00442001
00042E	4770 B436		00436	493	BNE	ERRNAMEB	00443001
000432	46C0 B426		00426	494	BCT	R12,ERRNAMEC	00444001
000436	5890 D0C0		000C0	495	ERRNAMEB L	R9,NEXTERR	00445001
00043A	419C 9005		00005	496	LA	R9,5(R12,R9)	00446001
00043E	5990 D0C4		000C4	497	C	R9,ENDPOOL	00447001
000442	4720 B460		00460	498	BH	E0	00448001
000446	58A0 D0C0		000C0	499	L	R10,NEXTERR	00449001
00044A	5090 D0C0		000C0	500	ST	R9,NEXTERR	00450001
00044E	44C0 B474		00474	501	EX	R12,MOVE	00451001
000452	41C0 C005		00005	502	LA	R12,5(R12)	00452001
000456	42C0 A000		00000	503	STC	R12,0(R10)	00453001
00045A	9680 A000	00000		504	OI	0(R10),X'80'	00454001
00045E	07FF			505	BR	R15	00455001
				506	*		00456001
000460	41C0 D0C0		000C0	507	E0 LA	R12,NEXTERR	00457001
000464	9202 C000	00000		508	MVI	0(R12),X'02'	00458001
000468	92D4 C001	00001		509	MVI	1(R12),X'D4'	00459001
00046C	50C0 D0C0		000C0	510	ST	R12,NEXTERR	00460001
000470	47F0 B6D6		006D6	511	B	SLUT	00461001
				512	*		00462001
000474	D200 A004 7000 00004 00000			513	MOVE MVC	4(1,R10),0(R7)	00463001
				514	*		00464001
				515	*	ITABPRNT	00465001
				516	*		00466001
				517	*	PRINTS ON SYSPRINT, IF SOURCE SPECIFIED, ALL VARIABLES	00467001
				518	*	THE BLOCKS IN PBN NUMBER ORDER AND WITH THE VAR SORTED	00468001
				519	*	WITHIN EACH BLOCK	00469001
				520	*	R5 KEEPS TRACK OF WHEN PRINTING IS NEEDED, THE	00470001
				521	*	INFORMATION ABOUT EACH VAR IS BUILT UP IN WORK AND THEN	00471001
				522	*	TRANSFERRED TO PRINTAREA. WHEN 3 VAR HAVE BEEN PLACED IN	00472001
				523	*	THE PRINTAREA THE LINES IS PRINTED	00473001
				524	*	THE ADDR TO THE BLOCK IS TAKEN FROM ATAB	00474001
				525	*	THE LENGTH IS TAKEN FROM THE FIRST 2 BYTES IN THE BLOCK	00475001
				526	*	THE SURROUNDING PBN FROM PBTAB1	00476001
				527	*	THE STARTING SC COUNTER FOR THE BLOCK FROM BYTE 6 AND 7	00477001
				528	*	IN THE BLOCK	00478001
				529	*	IF THE BLOCK DOES NOT CONTAIN ANY VAR ONLY THE PBN AND	00479001
				530	*	SURROUNDING PBN ARE PRINTED	00480001
				531	*	ALL HEAD ENTRIES, FOR AND CONT LINES ARE SKIPPED	00481001
				532	*	EACH NEW BLOCK IS PRECEDED BY A BLANK LINE	00482001
				533	*	START ADDR OF THE BLOCK IS IN R8	00483001
				534	*	END ADDR OF THE BLOCK IS IN AITAB, THIS ADDR WILL BE	00484001
				535	*	R8+11 WHEN ALL VAR PROCESSED	00485001
				536	*		00486001
00047A	9180 D081	00081		537	ITABPRNT TM	COMPLG+1,NSRCE	00487001
00047E	4710 B6D6		006D6	538	BO	SLUT	00488001
000482	1BEE			539	SR	R14,R14	00489001
000484	9104 D080	00080		540	TM	COMPLG+1,PROC	00490001
000488	4710 B490		00490	541	BO	GETPBA	00491001
00048C	41E0 E001	00001		542	GETPBA LA	R14,1(R14)	00492001
000490	18CE			543	GETPBA LR	R12,R14	00493001
000492	8BC0 0002		00002	544	SLA	R12,2	00494001
000496	5880 DCDA		00CD4	545	L	R8,ATABAD	00495001
00049A	588C 8000		00000	546	L	R8,0(R12,R8)	00496001
00049E	D201 DCF8 8000 00CF8 00000		00000	547	MVC	LENCOUNT,0(R8)	00497001
0004A4	48C0 DCF8		00CF8	548	LH	R12,LENCOUNT	00498001
0004A8	41CC 8000		00000	549	LA	R12,0(R12,R8)	00499001
0004AC	50C0 DCE8		00CE8	550	ST	R12,AITAB	00500001
0004B0	45C0 B622		00622	551	BAL	R12,PRINTITB	00501001
0004B4	183E			552	LR	R3,R14	00502001
0004B6	45C0 B612		00612	553	BAL	R12,CONVERT	00503001
0004BA	D202 1000 DCBD 00000 00CBD		00CBD	554	MVC	0(3,R1),SAVE+1	00504001
0004C0	433E D478		00478	555	IC	R3,PBTAB1(R14)	00505001
0004C4	45C0 B612		00612	556	BAL	R12,CONVERT	00506001
0004C8	D202 100A DCBD 0000A 00CBD		00CBD	557	MVC	10(3,R1),SAVE+1	00507001
0004CE	D201 B7C6 8006 007C6 00006		00006	558	MVC	SCSAVE(2),6(R8)	00508001
0004D4	48C0 B7C6		007C6	559	LH	R12,SCSAVE	00509001
0004D8	4EC0 B7D8		007D8	560	CVD	R12,DOUBLE	00510001
0004DC	F347 1004 B7D8 00004 007D8		007D8	561	UNPK	4(5,R1),DOUBLE	00511001
0004E2	96F0 1008	00008		562	OI	8(R1),X'F0'	00512001
0004E6	D501 DCF8 B896 00CF8 00896		00896	563	CLC	LENCOUNT,KA11	00513001
0004EC	4770 B4F8		004F8	564	BNE	ITABPRNX	00514001
0004F0	45C0 B622		00622	565	BAL	R12,PRINTITB	00515001
0004F4	47F0 B6BE		006BE	566	B	ENDBLOCK	00516001
				567	*		00517001
0004F8	1B55			568	ITABPRNX SR	R5,R5	00518001
				569	*		00519001
				570	*	GETNVAR	00520001
				571	*		00521001
				572	*	LOOPS THROUGH BLOCK TO GET THE CURRENT LOWEST VARIABLE	00522001
				573	*	EXITS TO ENDBLOCK WHEN ALL VAR IN THE BLOCK HAVE BEEN	00523001
				574	*	PROCESSED, OTHERWISE TO TESTVAR	00524001
				575	*		00525001
0004FA	4170 800B		0000B	576	GETNVAR LA	R7,11(R8)	00526001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0004FE	18A7			577	LR	R10,R7	00527001
000500	5970 DCE8		00CE8	578	C	R7,AITAB	00528001
000504	4780 B6BE		006BE	579	BE	ENDBLOCK	00529001
000508	952B 7005	00005		580	CLI	5(R7),X'2B'	00530001
00050C	4780 B67A		0067A	581	BE	ENDVAR2	00531001
000510	41A0 A00B		0000B	582	TESTNXT	LA R10,11(,R10)	00532001
000514	59A0 DCE8		00CE8	583	C	R10,AITAB	00533001
000518	4780 B534		00534	584	BE	TESTVAR	00534001
00051C	952B A005	00005		585	CLI	5(R10),X'2B'	00535001
000520	4780 B510		00510	586	BE	TESTNXT	00536001
000524	D505 7000	A000 00000	00000	587	CLC	0(6,R7),0(R10)	00537001
00052A	4740 B510		00510	588	BL	TESTNXT	00538001
00052E	187A			589	LR	R7,R10	00539001
000530	47F0 B510		00510	590	B	TESTNXT	00540001
				591	*		00541001
				592	*	TESTVAR	00542001
				593	*		00543001
				594	*	CHECKS THE INTERNAL NAME TO FIND TYPE AND MOVES	00544001
				595	*	CHARACTERISTICS TO WORKAREA	00545001
				596	*		00546001
000534	9191 7006	00006		597	TESTVAR	TM 6(R7),X'91'	00547001
000538	4710 B638		00638	598	BO	ENDVAR	00548001
00053C	9103 7007	00007		599	TM	7(R7),X'03'	00549001
000540	4710 B560		00560	600	BO	BOL	00550001
000544	4780 B564		00564	601	BZ	BOLA	00551001
000548	9101 7007	00007		602	TM	7(R7),X'01'	00552001
00054C	4780 B558		00558	603	BZ	TESTVARA	00553001
000550	92C9 B7ED	007ED		604	MVI	WORK+7,C'I'	00554001
000554	47F0 B564		00564	605	B	BOLA	00555001
				606	*		00556001
000558	92D9 B7ED	007ED		607	TESTVARA	MVI WORK+7,C'R'	00557001
00055C	47F0 B564		00564	608	B	BOLA	00558001
				609	*		00559001
000560	92C2 B7ED	007ED		610	BOL	MVI WORK+7,C'B'	00560001
000564	910C 7007	00007		611	BOLA	TM 7(R7),X'0C'	00561001
000568	4780 B57C		0057C	612	BZ	TESTPROC	00562001
00056C	4710 B5CC		005CC	613	BO	SWITCH	00563001
000570	9108 7007	00007		614	TM	7(R7),X'08'	00564001
000574	4780 B5E0		005E0	615	BZ	ARRAY	00565001
000578	92D3 B7EE	007EE		616	MVI	WORK+8,C'L'	00566001
00057C	91C0 7007	00007		617	TESTPROC	TM 7(R7),X'C0'	00567001
000580	4710 B5D4		005D4	618	BO	PROCEDUR	00568001
000584	4780 B598		00598	619	BZ	FORMAL	00569001
000588	9140 7007	00007		620	TM	7(R7),X'40'	00570001
00058C	4780 B598		00598	621	BZ	FORMAL	00571001
000590	92C3 B7F1	007F1		622	MVI	WORK+11,C'C'	00572001
000594	47F0 B5D4		005D4	623	B	PROCEDUR	00573001
				624	*		00574001
000598	9130 7007	00007		625	FORMAL	TM 7(R7),X'30'	00575001
00059C	4710 B638		00638	626	BO	ENDVAR	00576001
0005A0	4780 B638		00638	627	BZ	ENDVAR	00577001
0005A4	94FD DCFA	00CFA		628	FORMALC	NI BITS1,PROCOFF	00578001
0005A8	9101 7006	00006		629	TM	6(R7),X'01'	00579001
0005AC	4780 B5B4		005B4	630	BZ	FORMALA	00580001
0005B0	92E3 B7EE	007EE		631	MVI	WORK+8,C'T'	00581001
0005B4	9110 7007	00007		632	FORMALA	TM 7(R7),X'10'	00582001
0005B8	4780 B5C4		005C4	633	BZ	FORMALB	00583001
0005BC	92D5 B7F0	007F0		634	MVI	WORK+10,C'N'	00584001
0005C0	47F0 B638		00638	635	B	ENDVAR	00585001
				636	*		00586001
0005C4	92E5 B7F0	007F0		637	FORMALB	MVI WORK+10,C'V'	00587001
0005C8	47F0 B638		00638	638	B	ENDVAR	00588001
				639	*		00589001
0005CC	92E2 B7EE	007EE		640	SWITCH	MVI WORK+8,C'S'	00590001
0005D0	47F0 B5E4		005E4	641	B	CONVERT2	00591001
				642	*		00592001
0005D4	92D7 B7EF	007EF		643	PROCEDUR	MVI WORK+9,C'P'	00593001
0005D8	9602 DCFA	00CFA		644	OI	BITS1,PROCBIT	00594001
0005DC	47F0 B5E4		005E4	645	B	CONVERT2	00595001
				646	*		00596001
0005E0	92C1 B7EF	007EF		647	ARRAY	MVI WORK+9,C'A'	00597001
				648	*		00598001
				649	*	CONVERT2	00599001
				650	*		00600001
				651	*	ENTERED FOR PROCEDURE, ARRAY AND SWITCH CONVERTS THE	00601001
				652	*	NUMBER OF PARAMETERS, DIMENSIONS OR COMPONENTS TO	00602001
				653	*	DECIMAL FORM AND PUTS IT IN WORK	00603001
				654	*	FOR ARRAY OR SWITCH THE COUNTER IS FIRST INCREASED BY	00604001
				655	*	ONE TO GET THE REAL VALUE.	00605001
				656	*		00606001
0005E4	9130 7007	00007		657	CONVERT2	TM 7(R7),X'30'	00607001
0005E8	4740 B5A4		005A4	658	BM	FORMALC	00608001
0005EC	4330 7009		00009	659	IC	R3,9(R7)	00609001
0005F0	8A30 0004		00004	660	SRA	R3,4	00610001
0005F4	9102 DCFA	00CFA		661	TM	BITS1,PROCBIT	00611001
0005F8	4710 B600		00600	662	BO	*+8	00612001
0005FC	4130 3001		00001	663	LA	R3,1(,R3)	00613001
000600	94FD DCFA	00CFA		664	NI	BITS1,PROCOFF	00614001
000604	45C0 B612		00612	665	BAL	R12,CONVERT	00615001
000608	D201 B7F3	DCBE 007F3	00CBE	666	MVC	WORK+13(2),SAVE+2	00616001
00060E	47F0 B598		00598	667	B	FORMAL	00617001
				668	*		00618001
				669	*	CONVERT	00619001
				670	*		00620001
				671	*	CONVERTS FROM HEXADECIMAL TO DECIMAL	00621001
				672	*	USED FOR LN, DISP AND PBN TO BE WRITTEN OUT	00622001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000612	4E30 B7D8		007D8	673 *			00623001
000616	F332 DCBC	B7DD 00CBC	007DD	674 CONVERT	CVD	R3,DOUBLE	00624001
00061C	96F0 DCBF	00CBF		675	UNPK	SAVE(4),DOUBLE+5(3)	00625001
000620	07FC			676	OI	SAVE+3,X'F0'	00626001
				677	BR	R12	00627001
				678 *			00628001
				679 *	PRINTITB		00629001
				680 *	PRINTS A LINE, SAVES NEW PRINTAREA ADDR, RESETS R5		00630001
				681 *			00631001
000622	90EF DCC0		00CC0	682 PRINTITB	STM	R14,R15,SAVE1	00632001
000626	58F0 D0B8		000B8	683	L	R15,PRTRTADD	00633001
00062A	05EF			684	BALR	R14,R15	00634001
00062C	5010 DCEC		00CEC	685	ST	R1,APRNTAR	00635001
000630	98EF DCC0		00CC0	686	LM	R14,R15,SAVE1	00636001
000634	1B55			687	SR	R5,R5	00637001
000636	07FC			688	BR	R12	00638001
				689 *			00639001
				690 *	ENDVAR		00640001
				691 *			00641001
				692 *	MOVES EXTERNAL NAME TO WORK, TRANSLATES IT		00642001
				693 *	CONVERTS LN OR DISP AND MOVES THAT TO WORK		00643001
				694 *	MOVES WORK TO CURRENT PRINTAREA WITH AN EXECUTE MVC		00644001
				695 *	INCREASES R5 AND CHECKS IF ONE LINE HAS BEEN FILLED UP		00645001
				696 *	IN THAT CASE - PRINTS THAT LINE		00646001
				697 *	SHIFTS AWAY THE NOW PROCESSED VAR AND STORES THE NEW		00647001
				698 *	ENDING ADDR OF THE BLOCK IN AITAB		00648001
				699 *	RETURNS TO PROCESS NEXT VAR		00649001
				700 *			00650001
000638	D205 B7E6	7000 007E6	00000	701 ENDVAR	MVC	WORK(6),0(R7)	00651001
00063E	DC05 B7E6	B826 007E6	00826	702	TR	WORK(6),TRINTEXT	00652001
000644	D201 B7CC	7009 007CC	00009	703	MVC	SAVE2(2),9(R7)	00653001
00064A	F342 B7CF	B7CC 007CF	007CC	704	UNPK	SAVE3,SAVE2	00654001
000650	DC02 B7D0	B796 007D0	00796	705	TR	SAVE3+1(3),TAB-240	00655001
000656	D202 B7F6	B7D0 007F6	007D0	706	MVC	WORK+16(3),SAVE3+1	00656001
00065C	4405 B808		00808	707	EX	R0,MOVEVAR(R5)	00657001
000660	9240 B7E6		007E6	708	MVI	WORK,C'	00658001
000664	D21C B7E7	B7E6 007E7	007E6	709	MVC	WORK+1(L'WORK-1),WORK	00659001
00066A	4150 5008		00008	710	LA	R5,8(,R5)	00660001
00066E	5950 B820		00820	711	C	R5,KF24	00661001
000672	4770 B67A		0067A	712	BNE	ENDVAR2	00662001
000676	45C0 B622		00622	713	BAL	R12,PRINTITB	00663001
00067A	58A0 DCE8		00CE8	714 ENDVAR2	L	R10,AITAB	00664001
00067E	41C0 700C		0000C	715	LA	R12,12(,R7)	00665001
000682	59C0 DCE8		00CE8	716	C	R12,AITAB	00666001
000686	47D0 B692		00692	717	BNH	ENDVAR3	00667001
00068A	5070 DCE8		00CE8	718	ST	R7,AITAB	00668001
00068E	47F0 B4FA		004FA	719	B	GETNVAR	00669001
				720 *			00670001
000692	1BAC			721 ENDVAR3	SR	R10,R12	00671001
000694	41CA 7001		00001	722	LA	R12,1(R10,R7)	00672001
000698	50C0 DCE8		00CE8	723	ST	R12,AITAB	00673001
00069C	59A0 B7C8		007C8	724 COMPARE	C	R10,KF256	00674001
0006A0	47D0 B6B6		006B6	725	BNH	EX1	00675001
0006A4	D2FF 7000	700B 00000	0000B	726	MVC	0(256,R7),11(R7)	00676001
0006AA	4170 7100		00100	727	LA	R7,256(,R7)	00677001
0006AE	5BA0 B7C8		007C8	728	S	R10,KF256	00678001
0006B2	47F0 B69C		0069C	729	B	COMPARE	00679001
				730 *			00680001
0006B6	44A0 B7E0		007E0	731 EX1	EX	R10,MOVEITAB	00681001
0006BA	47F0 B4FA		004FA	732	B	GETNVAR	00682001
				733 *			00683001
				734 *	ENDBLOCK		00684001
				735 *			00685001
				736 *	PRINTS LAST LINE OF BLOCK, IF NEEDED		00686001
				737 *	EXITS TO GETPB IF ANY BLOCK LEFT TO BE PROCESSED		00687001
				738 *	OTHERWISE A FREEMAIN IS DONE AND LINK TO IEX21		00688001
				739 *			00689001
0006BE	5950 DCB8		00CB8	740 ENDBLOCK	C	R5,KF0	00690001
0006C2	4780 B6CA		006CA	741	BE	*+8	00691001
0006C6	45C0 B622		00622	742	BAL	R12,PRINTITB	00692001
0006CA	41C0 E001		00001	743	LA	R12,1(,R14)	00693001
0006CE	49C0 D09E		0009E	744	CH	R12,PBN	00694001
0006D2	47D0 B48C		0048C	745	BNH	GETPB	00695001
0006D6	5810 D0E8		000E8	746 SLUT	L	R1,ITAB205	00696001
0006DA	4110 1400		00400	747	LA	R1,1024(0,R1)	00697001
0006DE	1801			748	LR	R0,R1	00698001
0006E0	5810 DCF0		00CF0	749	L	R1,AREALOC	00699001
				750 *			00700001
				751	FREEMAIN	R,LV=(0),A=(1)	00701001
0006E4	4110 1000		00000	752+*	OS/VS2 RELEASE 3 VERSION	-- 10/25/74	01-FREEM
0006E8	0A0A			753+	LA	1,0(0,1)	01-FREEM
				754+	SVC	10	01-FREEM
				755 *			00702001
0006EA				756 SLUT2	XCTL	EP=IEX21000	00703001
0006EA	0700			757+SLUT2	DS	0H	01-XCTL
0006EC	45F0 B700		00700	758+	CNOP	0,4	02-IHBN
0006F0	000006F8			759+	BAL	15,*+20	02-IHBN
0006F4	00000000			760+	DC	A(*+8)	02-IHBN
0006F8	C9C5E7F2F1F0F0F0			761+	DC	A(0)	02-IHBN
000700	0A07			762+	DC	CL8'IEX21000'	02-IHBN
				763+	SVC	7	01-XCTL
				764 *		ISSUE XCTL SVC	00704001
				765 *	HEADING LINES		00705001
				766 *			00706001
000702	C9C4C5D5E3C9C6C9			767 HEAD1	DC	C'IDENTIFIER TABLE'	00707001
				768 *			00708001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
000712	D7C2D540E2C34040			769	HEAD2	DC C'PBN SC PBN NAME TYPE DM DSP NAME TYX00709001 PE DM DSP NAME TYPE DM DSP' 00710001			
				770	*				00711001
00076C	4040404040404040			771	HEAD3	DC C' SURR PR LN PR LN ' X00712001 PR LN PR LN ' 00713001			00714001
				772	*				00715001
0007C6	0000			773	SCSAVE	DC H'0' SAVE SEMICOLON COUNTER 00716001			
0007C8	00000100			774	KF256	DC F'256' USED BY MOVE LOOP 00717001			
0007CC	F0F0F0			775	SAVE2	DC C'000' USED FOR CONVERSION 00718001			
0007CF	0000000000			776	SAVE3	DC XL5'00'			
0007D4	00000000								
0007D8	0000000000000000			777	DOUBLE	DC D'0' 00719001			
0007E0	D200 7000 700B 00000 0000B			778	MOVEITAB	MVC 0(1,R7),11(R7) USED BY ENDVAR 00720001			
0007E6	4040404040404040			779	WORK	DC CL30' ' USED TO BUILD PRINT RECORD 00721001			
000804	00000FFF			780	KF4095	DC F'4095' STORAGE ALLOCATION MAXIMUM 00722001			
				781	*				00723001
000808	D21A 1013 B7E6 00013 007E6			782	MOVEVAR	MVC 19(27,R1),WORK USED TO SORT REC TO BE PRINTED 00724001			
00080E	0700			783	CNOP	0,4 00725001			
000810	D21A 102D B7E6 0002D 007E6			784	MVC	45(27,R1),WORK 00726001			
000816	0700			785	CNOP	0,4 00727001			
000818	D212 1047 B7E6 00047 007E6			786	MVC	71(19,R1),WORK 00728001			
				787	*				00729001
00081E	0000								
000820	00000018			788	KF24	DC F'24' USED BY ENDVAR 00730001			
000824	0008			789	FPLEN	DC H'8' 4 = SHORT PREC, 8 = LONG PREC 00731001			
				790	*				00732001
				791	*				00733001
				792	*				00734001
				793	*	TRANSLATE FOR INTERNAL TO EBCDIC CODE 00735001			
				794	*				00736001
000826				795	TRINTEXT	DS 0CL96 00737001			
000826	40			796	DC	C' ' 00738001			
000827	5D5D5D5D5D5D5D5D			797	DC	47C' )' 00739001			
000856	F0F1F2F3F4F5F6F7			798	DC	C'0123456789' 00740001			
000860	5D5D5D5D5D5D			799	DC	6C' )' 00741001			
000866	C1C2C3C4C5C6C7C8			800	DC	C'ABCDEFGHIJKLMNOPQRSTUVWXYZ_#@)' 00742001			
				801	*				00743001
				802	*	FOR PRINTABLE HEXADECIMAL 00744001			
				803	*				00745001
000886	F0F1F2F3F4F5F6F7			804	TAB	DC C'0123456789ABCDEF' 00746001			
000896	000B			805	KA11	DC AL2(11) 00747001			
				806	*				00748001
000898				807		LTORG 00749001			
				808	*				00750001
000000		00000 00CFB		809	WORKAREA	DSECT 00751001			
				810	COPY	WORKAREA 00752001			
				811	=				00001001
				812	=	WORKAREA - MAPPING CSECT IEX00001 00002001			
				813	=				00003001
				814	=	ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT 00004001			
				815	=				00005001
000000	0000000000000000			816	=SAVEAREA	DC 18F'0' 00006001			
				817	=				00007001
				818	=	DCB ADDR5 00008001			
				819	=				00009001
000048				820	=DCBTABLE	DC 0F'0' 00010001			
000048	00000000			821	=ALINDCB	DC A(0) 00011001			
00004C	00000000			822	=	DC A(0) 00012001			
000050	00000000			823	=	DC A(0) 00013001			
000054	00000000			824	=	DC A(0) 00014001			
000058	00000000			825	=ASYSDCB	DC A(0) 00015001			
00005C	00000000			826	=APRTDCB	DC A(0) 00016001			
000060	00000000			827	=APCHDCB	DC A(0) 00017001			
000064	00000000			828	=AUT1DCB	DC A(0) 00018001			
000068	00000000			829	=AUT2DCB	DC A(0) 00019001			
00006C	00000000			830	=AUT3DCB	DC A(0) 00020001			
				831	=				00021001
				832	=	END OF DATA EXIT ADDR5 00022001			
				833	=				00023001
000070	00000000			834	=EODUT1	DC A(0) SYSUT1 00024001			
000074	00000000			835	=EODUT2	DC A(0) SYSUT2 00025001			
000078	00000000			836	=EODUT3	DC A(0) SYSUT3 00026001			
00007C	00000000			837	=EODIN	DC A(0) SYSIN 00027001			
				838	=				00028001
				839	=	OPTION SWITCHES IN COMPFLGS 00029001			
				840	=				00030001
				841	=	ALLOCATION OF THE BIT POSITIONS IN COMPFLGS - 00031001			
				842	=				00032001
				843	=	PURPOSE POSITION 00033001			
				844	=	BYTE 1 BYTE 2 BYTE 3 00034001			
				845	=	01234567 01234567 01234567 00035001			
				846	=				00036001
				847	=	COMPMODE (SYNTAX CHECK) X 00037001			
				848	=	SUBSCRIPT OPTIMIZATION X 00038001			
				849	=	WARNING ERROR X 00039001			
				850	=	SERIOUS ERROR X 00040001			
				851	=	TERMINATING ERROR X 00041001			
				852	=	PROCEDURE/PROGRAM X 00042001			
				853	=	LONG/SHORT PRECISION X 00043001			
				854	=	OPERAND X 00044001			
				855	=				00045001
				856	=	NOSOURCE/SOURCE X 00046001			
				857	=	NOLOAD/LOAD X 00047001			
				858	=	NODECK/DECK X 00048001			
				859	=	ISO/EBCDIC X 00049001			
				860	=	PROGRAM INTERRUPT X 00050001			



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				861=*	TERMINATING PHASE ENTERED	X	00051001
				862=*	NO BUFFERS ASSIGNED	X	00052001
				863=*	NO COMPILATION POSSIBLE	X	00053001
				864=*			00054001
				865=*	SYSPRINT DOWN	X	00055001
				866=*	WHOLE SOURCE PROG IN CORE	X	00056001
				867=*	NO OPTAB	X	00057001
				868=*	SYSPRINT NOT OPENED	X	00058001
				869=*	ERROR UNRELATED TO SEMICOLON NR	X	00059001
				870=*	NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)	X	00060001
				871=*	60 CHARACTER SET	X	00061001
				872=*	(RESERVED)	X	00062001
				873=*			00063001
000080	00220000			874=COMPFLGS	DC X'00220000'	PARAMETERS AND SWITCHES	00064001
				875=*			00065001
				876=*	OPTION SWITCHES IN COMPFLGS		00066001
				877=*			00067001
	00080			878=COMPmode	EQU X'80'	SYNTAX CHECK MODE	00068001
	00040			879=SUBSCOPT	EQU X'40'	SUBSCRIPT OPTIMIZATION	00069001
	000FB			880=PGR	EQU X'FB'		00070001
	00004			881=PROC	EQU X'04'	PRECOMPILED PROCEDURE	00071001
				882=*			00072001
	000FD			883=SHRT	EQU X'FD'		00073001
	00002			884=LNG	EQU X'02'		00074001
	00001			885=OPERAND	EQU X'01'		00075001
				886=*			00076001
				887=*	ERROR SEVERITY INDICATORS IN COMPFLGS		00077001
				888=*			00078001
	00020			889=WERR	EQU X'20'	WARNING ERROR	00079001
	00010			890=SERR	EQU X'10'	SERIOUS ERROR	00080001
	00008			891=TERR	EQU X'08'	TERMINATING ERROR	00081001
				892=*			00082001
				893=*	OPTION SWITCHES IN COMPFLGS+1		00083001
				894=*			00084001
	0007F			895=SRCE	EQU X'7F'		00085001
	00080			896=NSRCE	EQU X'80'		00086001
				897=*			00087001
	000BF			898=LOAD	EQU X'BF'		00088001
	00040			899=NLOAD	EQU X'40'		00089001
				900=*			00090001
	000DF			901=DECK	EQU X'DF'		00091001
	00020			902=NDECK	EQU X'20'		00092001
				903=*			00093001
	000EF			904=EBCDIC	EQU X'EF'		00094001
	00010			905=ISO	EQU X'10'		00095001
				906=*			00096001
				907=*	TERMINATION SWITCHES IN COMPFLGS+1		00097001
				908=*			00098001
	00008			909=ERR	EQU X'08'	PROGRAM INTERRUPT HAS	00099001
				910=*		OCCURED IN COMPILER	00100001
	00004			911=TERM	EQU X'04'	LAST PHASE HAS BEEN ENTERED	00101001
	00002			912=NOBUF	EQU X'02'	ERROR POOL IS IN WORKAREA	00102001
				913=*		NO SCE PROG BUFF 1	00103001
	00001			914=NOGO	EQU X'01'	COMPILATION NOT POSSIBLE	00104001
				915=*		DO NOT START SCAN 1	00105001
	00003			916=NOBUNOGO	EQU X'03'	NOBUF AND NOGO	00106001
				917=*			00107001
				918=*	SWITCHES IN COMPFLGS+2		00108001
				919=*			00109001
	00080			920=PRT	EQU X'80'	SYSPRINT NOT AVAILABLE	00110001
	00040			921=SPIC	EQU X'40'	SOURCE PROGRAM IN STORAGE	00111001
	00020			922=NOPT	EQU X'20'	NO SUBSCRIPT OPTIMIZATION	00112001
	00010			923=PRTNO	EQU X'10'	SYSPRINT NOT OPENED	00113001
	00008			924=NOSC	EQU X'08'	SEMICOLON COUNTER NOT VALID	00114001
				925=*			00115001
	00004			926=NOTEST	EQU X'04'		00116001
	000FB			927=TEST	EQU X'FB'	EMBED SC COUNT IN CODE (DEFAULT)	00117001
				928=*			00118001
	00002			929=SET60	EQU X'02'	60 CHARACTER SET IS TO BE USED	00119001
				930=*			00120001
				931=*	MISCELLANEOUS CONTROL INFORMATION		00121001
				932=*			00122001
000084	0000B000			933=SIZE	DC F'45056'	AVAILABLE MAIN STORAGE - NOT USED	00123001
000088	00000000			934=PICAADD	DC A(0)	ADDR OF PICA OF THE INVOKER	00124001
00008C	00000000			935=HDING	DC F'0'	ADDR OF HEADING INFO OF THE INVOKER	00125001
000090	00000000			936=ERET	DC F'0'	RETURN ADDR FOR PROGRAM	00126001
				937=*		AND I/O ERRORS	00127001
000094	0000000C			938=PAGECNT	DC PL4'0'	PAGE COUNT	00128001
000098	0000			939=LINCNT	DC H'0'	COUNTER OF LINES PER PAGE	00129001
00009A	0038			940=MAXLINES	DC H'56'	MAX NUMBER OF PRINT LINES PER PAGE	00130001
00009C	0000			941=SEMCNT	DC H'0'	SEMICOLON COUNTER	00131001
00009E	0032			942=PBN	DC H'50'	HIGHEST PROGRAM BLOCK NUMBER	00132001
0000A0	0000			943=KBN	DC H'0'	HIGHEST CONSTANT POOL NUMBER	00133001
		0001C		944=LATNR	EQU 28	NR OF LIBRARY STAND FUNCTIONS	00134001
		0006C		945=LATBEG	EQU 4*(LATNR-1)		00135001
0000A2	006C			946=LN	DC AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT	00136001
0000A4	00000000			947=PRPT	DC F'0'	PROGRAM POINTER	00137001
0000A8	00000000			948=SAVOUTA	DC F'0'		00138001
0000AC				949=OUTAREAZ	DS F	SYSPUNCH SAVE AREA	00139001
0000B0	40404040			950=PIDENT	DC CL4' '	PROGRAM IDENTIFICATION	00140001
0000B4	0000000C			951=CARDCNT	DC PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER	00141001
0000B8	00000000			952=PRTRTADD	DC A(0)	ADDR OF PRINT ROUTINE	00142001
				953=*			00143001
				954=*	ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE		00144001
				955=*			00145001
0000BC	00000278			956=ERRPOOL	DC A(PRELPOL)	FIRST BYTE OF PRELIMINARY ERROR POOL	00146001

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0000C0	00000278			957=	NEXTERR	DC A(PRELP00L)	NEXT FREE PLACE IN ERROR POOL	00147001
0000C4				958=	ENDP00L	DS F	LAST BYTE OF ERROR POOL-23	00148001
0000C8				959=	SRCE1ADD	DS F	SOURCE PROGRAM BUFFER 1	00149001
0000CC				960=	SRCE1END	DS F	ADDR OF LAST BYTE+1	00150001
0000D0				961=	SULTSTRT	DS F	ID OF LAST ITAB RECORD	00151001
				962=	*			00152001
				963=	*			00153001
				964=	*	TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS		00154001
				965=	*			00155001
0000D4				966=	INBLKS	DS H	MAX BLKSIZE FOR SYSIN - NOT USED	00156001
0000D6				967=	PRTBLKS	DS H	MAX BLKSIZE SYSPRINT - NOT USED	00157001
0000D8				968=	LINBLKS	DS H	MAX BLKSIZE FOR SYSLIN - NOT USED	00158001
0000DA				969=	PCHBLKS	DS H	MAX BLKSIZE FOR SYSPUNCH - NOT USED	00159001
0000DC				970=	POOLS	DS F	SIZE OF ERROR POOL	00160001
0000E0				971=	SRCE1S	DS F	SIZE OF SOURCE PROG BUFFERS 1 AND 2	00161001
	000E0			972=	SRCE3S	EQU SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4	00162001
0000E4				973=	ITAB10S	DS F	SIZE OF ITAB FOR PHASE 10	00163001
0000E8				974=	ITAB20S	DS F	SIZE OF ITAB FOR PHASE 20	00164001
0000EC				975=	ITAB30S	DS F	SIZE OF ITAB FOR PHASE 30	00165001
0000F0				976=	CRIDTABS	DS F	SIZE OF CRIDTAB FOR PHASE 30	00166001
0000F4				977=	SUTAB30S	DS F	SIZE OF SUTAB BUFFER OF PHASE 30	00167001
0000F8				978=	LVTAB30S	DS F	SIZE OF LVTAB BUFFER FOR PHASE 30	00168001
0000FC				979=	OPTABS	DS F	SIZE OF OPTAB BUFFERS 1 AND 2	00169001
000100				980=	SUTAB40S	DS F	SIZE OF SUTAB IN PHASE 40	00170001
000104				981=	LVTAB40S	DS F	SIZE OF LVTAB IN PHASE 40	00171001
000108				982=	OOSTACKS	DS F	SIZE OF OPERATOR/OPERAND STACK	00172001
				983=	*			00173001
				984=	*	AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF		00174001
				985=	*	EACH NEW PAGE		00175001
				986=	*			00176001
	0010C			987=	PAGEHEAD	EQU *		00177001
00010C	4040404040404040			988=	PAGEHD1	DC CL121' '	FIRST HEADLINE	00178001
000185		00185	0010C	989=		ORG PAGEHD1		00179001
00010C	F1			990=	PAGEHD1C	DC C'1'	ASA CNTL	00180001
00010D	4040404040404040			991=		DC CL10' '	SPACER	00181001
000117	4040404040404040			992=	PAGEHD1D	DC CL100' '	PAGE TEXT HEADING	00182001
00017B		0017B	0017D	993=		ORG PAGEHD1+113		00183001
00017D	D7C1C7C5			994=	PAGEHD1P	DC CL4'PAGE'	PAGE	00184001
000181	40404040			995=	PAGENUMB	DC CL4' '	PAGE COUNTER	00185001
000185		00185	00185	996=		ORG		00186001
				997=	*			00187001
000185	4040404040404040			998=	PAGEHD2	DC CL121' '	SECOND HEADLINE	00188001
0001FE		001FE	00185	999=		ORG PAGEHD2		00189001
000185	40			1000=	PAGEHD2C	DC C' '	ASA CNTL	00190001
000186	4040404040404040			1001=		DC CL10' '	SPACER	00191001
000190	4040404040404040			1002=	PAGEHD2D	DC CL100' '	PAGE TEXT HEADING	00192001
0001F4		001F4	001FE	1003=		ORG		00193001
				1004=	*			00194001
0001FE	4040404040404040			1005=	PAGEHD3	DC CL121' '	THIRD HEADLINE	00195001
000277		00277	001FE	1006=		ORG PAGEHD3		00196001
0001FE	40			1007=	PAGEHD3C	DC C' '	ASA CNTL	00197001
0001FF	4040404040404040			1008=		DC CL10' '	SPACER	00198001
000209	4040404040404040			1009=	PAGEHD3D	DC CL100' '	PAGE TEXT HEADING	00199001
00026D		0026D	00277	1010=		ORG		00200001
				1011=	*			00201001
				1012=	*			00202001
				1013=	*	END OF STANDARD COMMON AREA		00203001
				1014=	*			00204001
	00277			1015=	STANDX	EQU *		00205001
				1016=	*			00206001
				1017=	*	THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL		00207001
				1018=	*	PHASES AND PARTLY OVERLAY EACH OTHER		00208001
				1019=	*			00209001
				1020=	*	NAME OR PURPOSE	NEEDED BY PHASES	00210001
				1021=	*			00211001
000277	00							
000278				1022=		DC 0F'0'		00212001
000278	4040404040404040			1023=	PRELP00L	DC 236C' ',20C'X'	PRELIMINARY ERROR POOL	00213001
000378		00378	00416	1024=		ORG PRELP00L+414	IEX10	00214001
				1025=	*		DCB FOR SYSIN	11
				1026=	SYSIN	DCB DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				1028+*			DATA CONTROL BLOCK	01-DCB
				1029+*				01-DCB
000416	0000							
000418				1030+*	SYSIN	DC 0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1032+*			DIRECT ACCESS DEVICE INTERFACE	01-DCB
000418	0000000000000000			1034+*		DC BL16'0'	FDAD,DVTBL	01-DCB
000428	00000000			1035+*		DC A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1037+*			COMMON ACCESS METHOD INTERFACE	01-DCB
00042C	00			1039+*		DC AL1(0)	BUFNO	01-DCB
00042D	000001			1040+*		DC AL3(1)	BUFCB	01-DCB
000430	0000			1041+*		DC AL2(0)	BUFL	01-DCB
000432	4000			1042+*		DC BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			1043+*		DC A(1)	IOBAD	01-DCB



D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

				1045+*		FOUNDATION EXTENSION		01-DCB
000438	40			1047+	DC	BL1 '01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			1048+	DC	AL3 (1)	EODAD	01-DCB
00043C	90			1049+	DC	BL1 '10010000'	RECFM	01-DCB
00043D	000000			1050+	DC	AL3 (0)	EXLST	01-DCB
				1052+*		FOUNDATION BLOCK		01-DCB
000440	E2E8E2C9D5404040			1054+	DC	CL8 'SYSIN'	DDNAME	01-DCB
000448	02			1055+	DC	BL1 '00000010'	OFLGS	01-DCB
000449	00			1056+	DC	BL1 '00000000'	IFLG	01-DCB
00044A	5000			1057+	DC	BL2 '0101000000000000'	MACR	01-DCB
				1059+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
00044C	00			1061+	DC	BL1 '00000000'	RER1	01-DCB
00044D	000001			1062+	DC	AL3 (1)	CHECK, GERR, PERR	01-DCB
000450	00000001			1063+	DC	A (1)	SYNAD	01-DCB
000454	0000			1064+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			1065+	DC	AL2 (0)	BLKSIZE	01-DCB
000458	00000000			1066+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			1067+	DC	A (1)	IOBA	01-DCB
000460	00			1068+	DC	AL1 (0)	NCP	01-DCB
000461	000001			1069+	DC	AL3 (1)	EOBR, EOBAD	01-DCB
				1071+*		QSAM INTERFACE		01-DCB
000464	00000001			1073+	DC	A (1)	RECAD	01-DCB
000468	0000			1074+	DC	H'0'	QSW	01-DCB
00046A	0050			1075+	DC	AL2 (80)	LRECL	01-DCB
00046C	00			1076+	DC	BL1 '00000000'	EROPT	01-DCB
00046D	000001			1077+	DC	AL3 (1)	CNTRL	01-DCB
000470	00000000			1078+	DC	F'0'	PRECL	01-DCB
000474	00000001			1079+	DC	A (1)	EOB	01-DCB
				1080=*		SYNAD=SYNAD	(ASSEMBLED IN IEX00001)	00222001
				1081=*		EODAD=EODADIN	(INSERTED BY IEX11)	00223001
000478		00478	00278	1082=	ORG	PRELPOOL		00224001
000278				1083=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50
000478				1084=	DS	0F		00226001
000478				1085=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20
000577		00577	00478	1086=	ORG	PB TAB1		00228001
000478				1087=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40
				1088=*			DCB FOR SYSUT1	11-30
				1089=SYSUT1	DCB	DDNAME=SYSUT1,		X00231001
				=		DSORG=PS,		X00232001
				=		MACRF=(R,W),		X00233001
				=		RECFM=F		00234001
				1091+*		DATA CONTROL BLOCK		01-DCB
				1092+*				01-DCB
000577	00							
000578				1093+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1095+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000578	0000000000000000			1097+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000588	00000000			1098+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1100+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00058C	00			1102+	DC	AL1 (0)	BUFNO	01-DCB
00058D	000001			1103+	DC	AL3 (1)	BUFCB	01-DCB
000590	0000			1104+	DC	AL2 (0)	BUFL	01-DCB
000592	4000			1105+	DC	BL2 '0100000000000000'	DSORG	01-DCB
000594	00000001			1106+	DC	A (1)	IOBAD	01-DCB
				1108+*		FOUNDATION EXTENSION		01-DCB
000598	00			1110+	DC	BL1 '00000000'	BFTEK,BFLN,HIARCHY	01-DCB
000599	000001			1111+	DC	AL3 (1)	EODAD	01-DCB
00059C	80			1112+	DC	BL1 '10000000'	RECFM	01-DCB
00059D	000000			1113+	DC	AL3 (0)	EXLST	01-DCB
				1115+*		FOUNDATION BLOCK		01-DCB
0005A0	E2E8E2E4E3F14040			1117+	DC	CL8 'SYSUT1'	DDNAME	01-DCB
0005A8	02			1118+	DC	BL1 '00000010'	OFLGS	01-DCB
0005A9	00			1119+	DC	BL1 '00000000'	IFLG	01-DCB
0005AA	2020			1120+	DC	BL2 '0010000000100000'	MACR	01-DCB
				1122+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
0005AC	00			1124+	DC	BL1 '00000000'	RER1	01-DCB
0005AD	000001			1125+	DC	AL3 (1)	CHECK, GERR, PERR	01-DCB
0005B0	00000001			1126+	DC	A (1)	SYNAD	01-DCB
0005B4	0000			1127+	DC	H'0'	CIND1, CIND2	01-DCB
0005B6	0000			1128+	DC	AL2 (0)	BLKSIZE	01-DCB
0005B8	00000000			1129+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
0005BC	00000001			1130+	DC	A (1)	IOBA	01-DCB
0005C0	00			1131+	DC	AL1 (0)	NCP	01-DCB
0005C1	000001			1132+	DC	AL3 (1)	EOBR, EOBAD	01-DCB
				1134+*		BSAM-BPAM INTERFACE		01-DCB

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
0005C4	00000001			1136+	DC	A(1)	EOBW		01-DCB
0005C8	0000			1137+	DC	H'0'	DIRECT		01-DCB
0005CA	0000			1138+	DC	AL2(0)	LRECL		01-DCB
0005CC	00000001			1139+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				1140=*		SYNAD=SYNAD,	(ASSEMBLED IN IEX00001)		00235001
				1141=*		EODAD=EODAD1			00236001
				1142=*					00237001
0005D0				1143=	DS	0F			00238001
0005D0				1144=SPTAB	DS	CL255	SCOPE TABLE	11-30	00239001
0006D0				1145=	DS	0F			00240001
		006CD		1146=GPTAB	EQU	*-3	GROUP TABLE	11-30	00241001
0006D0				1147=	DS	CL1510			00242001
				1148=*					00243001
				1149=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				1150=*					00245001
000CB8				1151 KF0	DS	F	ZERO CONSTANT		00753001
000CBC				1152 SAVE	DS	F			00754001
000CC0				1153 SAVE1	DS	4F			00755001
000CD0				1154 APBTAB2	DS	A	START ADDR OF PBTAB2		00756001
000CD4				1155 ATABAD	DS	A	START ADDR OF ATAB		00757001
000CD8				1156 DPC	DS	F	SAVE AREAS FOR R3, R4, R5 AND R6		00758001
000CDC				1157 WPC	DS	F			00759001
000CE0				1158 HPC	DS	F			00760001
000CE4				1159 BPC	DS	F			00761001
000CE8				1160 AITAB	DS	F	ITAB ADDR		00762001
000CEC				1161 APRNTAR	DS	A	ADDR OF CURRENT PRINTAREA		00763001
000CF0				1162 AREALOC	DS	A	ADDR OF GETMAIN POOL		00764001
000CF4				1163 SAVEPB	DS	F	COUNTS NO OF BLOCKS READ		00765001
000CF8				1164 LENCOUNT	DS	H	SAVES LENGTH OF BLOCK		00766001
000CFA				1165 BITS1	DS	C			00767001
		00002		1166 PROCBIT	EQU	X'02'	PROCEDURE IS PROCESSED		00768001
		000FD		1167 PROCOFF	EQU	X'FD'			00769001
				1168 *					00770001
				1169 *		REGISTER EQUATES			00771001
				1170 *					00772001
				1171		IEZREGS			00773001
		00000		1172+R0	EQU	0			01-IEZRE
		00001		1173+R1	EQU	1			01-IEZRE
		00002		1174+R2	EQU	2			01-IEZRE
		00003		1175+R3	EQU	3			01-IEZRE
		00004		1176+R4	EQU	4			01-IEZRE
		00005		1177+R5	EQU	5			01-IEZRE
		00006		1178+R6	EQU	6			01-IEZRE
		00007		1179+R7	EQU	7			01-IEZRE
		00008		1180+R8	EQU	8			01-IEZRE
		00009		1181+R9	EQU	9			01-IEZRE
		0000A		1182+R10	EQU	10			01-IEZRE
		0000B		1183+R11	EQU	11			01-IEZRE
		0000C		1184+R12	EQU	12			01-IEZRE
		0000D		1185+R13	EQU	13			01-IEZRE
		0000E		1186+R14	EQU	14			01-IEZRE
		0000F		1187+R15	EQU	15			01-IEZRE
				1188 *					00774001
000000				1189	END	IEX20000			00775001

X20		Symbol Cross Reference										PAGE 15						
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References				X390	3.1.04	2012/08/17	13.13			
AITAB	4	00000CE8	FFFFFFFF	F	F		1160	103M	146	181M	189	197	283	550M	578	583	714	
								716	718M	723M								
ALLOSTAA	4	000001B0	00000001	I			271	266B										
ALLOSTOR	4	0000019C	00000001	I			265	190B										
APBTAB2	4	00000CD0	FFFFFFFF	A	A		1154	118M	378									
APRNTAR	4	00000CEC	FFFFFFFF	A	A		1161	685M										
AREALOC	4	00000CF0	FFFFFFFF	A	A		1162	102M	749									
ARRAY	4	000005E0	00000001	I			647	615B										
ATABAD	4	00000CD4	FFFFFFFF	A	A		1155	105M	176	396	545							
AUT3DCB	4	0000006C	FFFFFFFF	A	A		830	147	397	411								
BITS1	1	00000CFA	FFFFFFFF	C	C		1165	116M	628M	644M	661	664M						
BOL	4	00000560	00000001	I			610	600B										
BOLA	4	00000564	00000001	I			611	601B	605B	608B								
BOOLEAN	2	0000023C	00000001	I			312	293B										
BOOLEANA	2	0000024E	00000001	I			318	313B										
BPC	4	00000CE4	FFFFFFFF	F	F		1159	314										
CHECKNAA	4	00000190	00000001	I			209	206B										
CHECKNXT	4	00000166	00000001	I			196	200B	204B	211B								
COMPARE	4	0000069C	00000001	I			724	729B										
COMPLGS	4	00000080	FFFFFFFF	X	X		874	109	119	131	294	325	351	408	537	540		
CONST	4	0000029C	00000001	I			341	291B										
CONSTAA	4	000002D8	00000001	I			356	352B	354B									
CONVERT	4	00000612	00000001	I			674	472B	553B	665B								
CONVERT2	4	000005E4	00000001	I			657	641B	645B									
DOUBLE	8	000007D8	00000001	D	D		777	560M	561	674M	675							
DPC	4	00000CD8	FFFFFFFF	F	F		1156	282M	299	308	335	350	361					
ENDBLOCK	4	000006BE	00000001	I			740	566B	579B									
ENDPOOL	4	000000C4	FFFFFFFF	F	F		958	475	497									
ENDVAR	6	00000638	00000001	I			701	598B	626B	635B	638B							
ENDVAR2	4	0000067A	00000001	I			714	581B	712B									
ENDVAR3	2	00000692	00000001	I			721	717B										
ERET	4	00000090	FFFFFFFF	F	F		936	90M	101M									
ERRNAME	4	00000422	00000001	I			490	453B	462B									
ERRNAMEA	4	0000042A	00000001	I			492	491M										
ERRNAMEB	4	00000436	00000001	I			495	493B										
ERRNAMEC	4	00000426	00000001	I			491	494B										
EX1	4	000006B6	00000001	I			731	725B										
E0	4	00000460	00000001	I			507	476B	498B									
E43	4	000003DC	00000001	I			453	207B	210B									
E44	4	000003F4	00000001	I			471	280B										
E45	4	000003E8	00000001	I			462	373B										
FORMAL	4	00000598	00000001	I			625	619B	621B	667B								
FORMALA	4	000005B4	00000001	I			632	630B										
FORMALB	4	000005C4	00000001	I			637	633B										
FORMALC	4	000005A4	00000001	I			628	658B										
FORMPALL	6	000002E8	00000001	I			361	366B	369B	372B	464B							
FORMPARM	4	000002E0	00000001	I			359	290B										
FPLEN	2	00000824	00000001	H	H		789	133M	278	380								
GETNEXT	4	000001CC	00000001	I			281	276B	286B	288B	306B	316B	323B	333B	342B	344B		
GETNVAR	4	000004FA	00000001	I			576	719B	732B									
GETPB	4	0000048C	00000001	I			542	745B										
GETPBA	2	00000490	00000001	I			543	541B										
HEAD1	16	00000702	00000001	C	C		767	126										
HEAD2	90	00000712	00000001	C	C		769	127										
HEAD3	90	0000076C	00000001	C	C		771	128										
HPC	4	00000CE0	FFFFFFFF	F	F		1158	320										
IEX20000	1	00000000	00000001	J			54	86U	1189									
INITIAL	4	00000072	00000001	I			113	110B										
INITIALA	2	000000C4	00000001	I			130	120B										
INTEGER	2	0000021A	00000001	I			302	298B										
INTEGERA	6	0000022E	00000001	I			308	303B										
ITABLOOA	6	00000382	00000001	I			416	414B										
ITABLOOP	4	00000368	00000001	I			410	445B										
ITABPRNT	4	0000047A	00000001	I			537	446B										
ITABPRNX	2	000004F8	00000001	I			568	564B										
ITAB205	4	000000E8	FFFFFFFF	F	F		974	91	104	746								
ITLP2	4	000003C8	00000001	I			442	409B										
KA11	2	00000896	00000001	R	A		805	563										
KF0	4	00000CB8	FFFFFFFF	F	F		1151	107M	740									
KF24	4	00000820	00000001	F	F		788	711										
KF256	4	000007C8	00000001	F	F		774	724	728									
KF4095	4	00000804	00000001	F	F		780	279										
LASTREC	2	00000316	00000001	I			375	284B	481B									
LATBEG	1	0000006C		U			945	946										
LATNR	1	0000001C		U			944	945										
LENCOUNT	2	00000CF8	FFFFFFFF	H	H		1164	179M	180	416M	417	547M	548	563				
LINCNT	2	00000098	FFFFFFFF	H	H		939	121M										
LNG	1	00000002		U			884	131	294	325	351							
MOVE	6	00000474	00000001	I			513	501X										
MOVEITAB	6	000007E0	00000001	I			778	731X										
MOVEVAR	6	00000808	00000001	I			782	707X										
NEXTERR	4	000000C0	FFFFFFFF	A	A		957	473	477M	495	499	500M	507	510M				
NOTTYPE	4	000002F6	00000001	I			365	360B										
NOTTYPEA	4	0000030A	00000001	I			371	368B										
NSRCE	1	00000080		U			896	119	537									
PAGEHD1	121	0000010C	FFFFFFFF	C	C		988	989	993									
PAGEHD1C	1	0000010C	FFFFFFFF	C	C		990	122M	123M									
PAGEHD1D	100	00000117	FFFFFFFF	C	C		992	124	125	126M								
PAGEHD2	121	00000185	FFFFFFFF	C	C		998	999										
PAGEHD2D	100	00000190	FFFFFFFF	C	C		1002	124M	127M									
PAGEHD3	121	000001FE	FFFFFFFF	C	C		1005	1006										
PAGEHD3D	100	00000209	FFFFFFFF	C	C		1009	125M	128M									
PBN	2	0000009E	FFFFFFFF	H	H		942	383	413	443	744							
PBTAB1	255	00000478	FFFFFFFF	C	C		1085	555	1086									
PBTAB2	510	00000278	FFFFFFFF	C	C		1083	117										
PRCH4	4	00000390	00000001	F	F		422	437										
PRELPOOL	1	00000278	FFFFFFFF	C	C		1023	956	957	1024	1082							

X20		Symbol Cross Reference										PAGE 16			
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References				X390 3.1.04 2012/08/17 13.13			
PRINTITB	4	00000622	00000001	I			682	129B	551B	565B	713B	742B			
PROC	1	00000004		U			881	109	408	540					
PROCBIT	1	00000002		U			1166	644	661						
PROCEDUR	4	000005D4	00000001	I			643	618B	623B						
PROCOFF	1	000000FD		U			1167	628	664						
PRTRTADD	4	000000B8	FFFFFFF	A	A		952	683							
READBLK	4	000000D2	00000001	I			146	132B	386B						
REAL	6	00000210	00000001	I			299	295B							
R0	1	00000000		U			1172	93M	707	748M					
R1	1	00000001		U			1173	91M	92M	93	102	103	104M	105	113
								383	384M	385	554	557	561	562	685
								748	749M	782	784	786			746M
R10	1	0000000A		U			1182	117M	118	345M	346M	347M	348M	349M	355M
								403	410M	415	416	430	454	463	473M
								480	499M	503	504	513	577M	582M	583
								589	714M	721M	722	724	728M	731	585
R11	1	0000000B		U			1183	86U	87M						
R12	1	0000000C		U			1184	129M	146M	162	174	177	178	179	180M
								410	412	442M	472M	474M	475	477	479
								494M	496	501	502M	503	507M	508	509
								544M	546	548M	549M	550	551M	553M	556M
								565M	665M	677B	688B	713M	715M	716	721
								742M	743M	744					722M
R13	1	0000000D		U			1185	88U							
R14	1	0000000E		U			1186	378M	379M	381	539M	542M	543	552	555
								686M	743						682
R15	1	0000000F		U			1187	82	87	89M	90	100M	101	111M	112
								453M	462M	505B	682	683M	684B	686M	417M
R2	1	00000002		U			1174	106M	107	108	113	114	116	147M	161
								175M	177	375M	376M	377M	379	407M	413
R3	1	00000003		U			1175	267M	271M	278M	279	282	309	336	337
								362M	380M	381	471M	552M	555M	659M	660M
R4	1	00000004		U			1176	272M	302M	305M	309M	327M	330	331	332M
R5	1	00000005		U			1177	273M	318M	321	322M	331M	337M	412M	415
								707	710M	711	740				568M
R6	1	00000006		U			1178	274M	282	312M	315M	321M	330M	336M	
R7	1	00000007		U			1179	176M	177	182M	185M	188M	189	191	193
								205	275M	281M	283	285	287	289	292
								304	308	314	320	329	335	341	343
								353	359	361	365	367	371	411M	429
								576M	577	578	580	587	589M	597	599
								614	617	620	625	629	632	657	659
								715	718	722	726	727M	778		701
R8	1	00000008		U			1180	178M	182	183	185	265	268	275	376
								547	549	558	576				545M
R9	1	00000009		U			1181	195M	196M	197	199	201	209	495M	496M
SAVE	4	00000CBC	FFFFFFF	F	F		1152	114M	115	480	554	557	666	675M	676M
SAVEPB	4	00000CF4	FFFFFFF	F	F		1163	108M	112M	382	385M	471			
SAVE1	4	00000CC0	FFFFFFF	F	F		1153	115M	682M	686					
SAVE2	3	000007CC	00000001	C	C		775	703M	704						
SAVE3	5	000007CF	00000001	X	X		776	704M	705M	706					
SCANNXT	4	00000148	00000001	I			188	184B	192B	194B	198B	455B			
SCANNXTA	4	0000014C	00000001	I			189	186B							
SCSAVE	2	000007C6	00000001	H	H		773	558M	559						
SLUT	4	000006D6	00000001	I			746	100	511B	538B					
SLUT2	2	000006EA	00000001	H	H		757	89							
SRCE1S	4	000000E0	FFFFFFF	F	F		971	972							
STARTALL	2	000001B4	00000001	I			272	269B							
STORALLA	4	000001C4	00000001	I			279	357B	363B						
STORALLO	4	000001C0	00000001	I			278	300B	310B	339B					
SWITCH	4	000005CC	00000001	I			640	613B							
TAB	16	00000886	00000001	C	C		804	705							
TAKEDP	6	00000286	00000001	I			335	326B	328B						
TESTNXT	4	00000510	00000001	I			582	586B	588B	590B					
TESTPROC	4	0000057C	00000001	I			617	612B							
TESTVAR	4	00000534	00000001	I			597	584B							
TESTVARA	4	00000558	00000001	I			607	603B							
TESTWPA	4	00000264	00000001	I			325	319B							
TRINTEXT	96	00000826	00000001	C	C		795	702							
UT3DECB	4	000000E0	00000001	F	F		154	168							
WORK	30	000007E6	00000001	C	C		779	604M	607M	610M	616M	622M	631M	634M	637M
								647M	666M	701M	702M	706M	708M	709M	782
WORKAREA	1	00000000	FFFFFFF	J			809	88U							
WPC	4	00000CDC	FFFFFFF	F	F		1157	304	329						

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)															X390 3.1.04		2012/08/17 13.13		
0(0)	93M	748M																		
1(1)	91M	92M	93	97M	102	103	104M	105	113	130M	153M	161N	162N	163N	168M	169	382M	383		
	384M	385	401M	403N	404	421M	429N	430N	431N	432N	437M	438	554	557	561	562	685	746M		
	747M	748	749M	753M	782	784	786													
2(2)	106M	107	108	113	114	116	147M	161	173M	174M	175M	177N	375M	376M	377M	379N	407M	413		
	443	444M																		
3(3)	267M	271M	278M	279	282	309	336	337	338	356M	362M	380M	381	471M	552M	555M	659M	660M		
	663M	674																		
4(4)	272M	282	302M	305M	309M	327M	330	331	332M	338M										
5(5)	273M	282	318M	321	322M	331M	337M	412M	415	568M	687M	707N	710M	711	740					
6(6)	274M	282	312M	315M	321M	330M	336M													
7(7)	176M	177	182M	185M	188M	189	191	193	195	201	205	275M	281M	283	285	287	289	292		
	297	299	304	308	314	320	329	335	341	343	346N	350	353	359	361	365	367	371		
	411M	429	492	513	576M	577	578	580	587	589M	597	599	602	611	614	620	625			
	629	632	657	659	701	703	715	718	722	726	727M	778								
8(8)	178M	182	183	185	265	268	275	376	545M	546M	547	549	558	576						
9(9)	195M	196M	197	199	201	209	495M	496M	497	500										
10(A)	117M	118	345M	346M	347M	348M	349M	355M	356N	397M	403	410M	415	416	430	454	463	473M		
	474	478	480	499M	503	504	513	577M	582M	583	585	587	589	714M	721M	722N	724	728M		
	731																			
11(B)	86U	87M																		
12(C)	129M	146M	162	174	177	178	179	180M	181	396M	410	412	442M	472M	474M	475	477	479		
	490M	491	494M	496N	501	502M	503	507M	508	509	510	543M	544M	546N	548M	549M	549N	550		
	551M	553M	556M	559M	560	565M	665M	677B	688B	713M	715M	716	721	722M	723	742M	743M	744		
13(D)	88U																			
14(E)	165M	169M	170	171M	378M	379M	381	434M	438M	439	440M	539M	542M	543	552	555N	682	684M		
	686M	743																		
15(F)	82B	87	89M	90	100M	101	111M	112	163M	164M	165B	170M	171B	417M	431	432M	433M	434B		
	439M	440B	453M	462M	505B	682	683M	684B	686M	759M										

X20 Dsect Cross Reference						PAGE 18		
Dsect	Length	Id	Defn	Con	Member	X390 3.1.04	2012/08/17	13.13
WORKAREA	00000CFB	FFFFFFFF	809		PRIMARY INPUT			

Con	Source	Members								X390	3.1.04	2012/08/17	13.13
1	SYS1.MACLIB	CHECK WRITE	CLOSE XCTL	DCB	FREEMAIN	GETMAIN	IEZREGS	IHBINNRA	IHBINNRB	IHBRDWS	IHB01	READ	
2	SYSD.TOOLS.MACLIB												
3	SYSD.ALGOLF.ASM												
4	SYSD.ALGOLF.MACLIB	IEXENTRY	WORKAREA										
5	SYSD.ALGOLFR.T.MACLIB												
6	SYS1.AMODGEN												



Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390	3.1.04	2012/08/17	13.13
86		USING	Ordinary	00000001	00000000	00001000	11	00896	786	IEX20000,R11				
88		USING	Ordinary	FFFFFFFF	00000000	00001000	13	00CFA	749	WORKAREA,R13				

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T1X20      STEPNAME: IEX20      PROCSTEP: X390

Primary input: lines      1 to      775 of SYSD.ALGOLF.ASM(IEX20)

SYSLIB library records read: 3892

SYSUT1 work file size: 118909 bytes

SYSUT2 work file size: 333818 bytes

SYSUT3 work file size: 62000 bytes

SYSLIN file records written: 43

TXA000I Return code 0, elapsed time 1.47 seconds.

No uninitialized areas found

**IEX21**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX21)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131303.RA000.T1X21.OBJECT
SYSPRINT	JES2.JOB09272.S00102
SYSUT1	SYS12230.T131303.RA000.T1X21.SYSUT1
SYSUT2	SYS12230.T131303.RA000.T1X21.SYSUT2
SYSUT3	SYS12230.T131303.RA000.T1X21.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
2	*						00002001
3	*					COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
4	*						00004001
5	*					FUNCTION/OPERATION -	00005001
6	*					THE ERROR PATTERNS GENERATED DURING SCAN/II AND ITAB	00006001
7	*					MANIPULATION ARE HANDLED AND THE CORRESPONDING	00007001
8	*					DIAGNOSTIC MESSAGES ARE GENERATED	00008001
9	*						00009001
10	*					ENTRY POINT -	00010001
11	*					IEX21000 - ERROR MESSAGE EDITING XCTL EP=IEX21	00011001
12	*					THE MODULE IS ENTERED FROM IEX20	00012001
13	*						00013001
14	*					INPUT - N/A	00014001
15	*						00015001
16	*					OUTPUT -	00016001
17	*					THE DIAGNOSTIC MESSAGES ARE PUT OUT ON SYSPRINT	00017001
18	*					IF SYSPRINT IS NOT AVAILABLE A WTO IS ISSUED	00018001
19	*						00019001
20	*					EXTERNAL ROUTINE -	00020001
21	*					THE PRINT ROUTINE IN IEX00 IS USED	00021001
22	*						00022001
23	*					EXIT - NORMAL -	00023001
24	*					IF NO TERMINATING ERROR HAS OCCURRED, CONTROL IS GIVEN	00024001
25	*					TO THE NEXT PHASE BY MEANS OF XCTL EP=IEX30000	00025001
26	*						00026001
27	*					EXIT - ERROR -	00027001
28	*					IF A TERMINATING ERROR HAS OCCURRED (IN THIS MODULE OR	00028001
29	*					ONE OF THE PRECEDING) CONTROL IS GIVEN TO THE	00029001
30	*					TERMINATING MODULE BY MEANS OF XCTL EP=IEX51002	00030001
31	*						00031001
32	*					TABLES/WORKAREAS -	00032001
33	*					THE MESSAGE TEXTS WITH CORRESPONDING ADDR TABLE ARE	00033001
34	*					IN THE LOAD MODULE IEX21M	00034001
35	*					THE ERROR MESSAGE EDITING ROUTINE, CSECT IEX60000, ALSO	00035001
36	*					USES THE FOLLOWING TABLES -	00036001
37	*					WINTBC - TRANSLATION OF INTERNAL CHARACTERS TO EBCDIC	00037001
38	*					WSYMSRC - TRANSLATION OF SOURCE OPERATORS	00038001
39	*					WSYMBSTK - TRANSLATION OF STACK OPERATORS	00039001
40	*					WORDSEBC - TRANSLATION OF COMPOUND SYMBOLS IF SOURCE IN	00040001
41	*					EBCDIC	00041001
42	*					WORDSISO - TRANSLATION OF COMPOUND SYMBOLS IF SOURCE IN	00042001
43	*					ISOCODE	00043001
44	*					WEBCDIC - TRANSLATION EBCDIC EBCDIC	00044001
45	*					A WORKAREA OF 270 BYTES, WAREA, IS USED FOR BUILDING	00045001
46	*					THE MESSAGES	00046001
47	*						00047001
48	*					NOTES -	00048001
49	*					CHARACTER CODE DEPENDENCE - FOR THE BUILDING OF A MESSAGE	00049001
50	*					(CODE PART BETWEEN COT03 AND COT12) THE FOLLOWING	00050001
51	*					APPLIES, IN CASE NO SOURCE INFORMATION IS TO BE INSERTED	00051001
52	*					(COT31), OR IF THE INFORMATION IS EBCDIC CHARACTERS	00052001
53	*					(COT07), THE OPERATION OF CSECT IEX60000 DEPENDS UPON AN	00053001
54	*					INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER SET	00054001
55	*					WHICH IS EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME.	00055001
56	*					IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL	00056001
57	*					CHARACTERS (COT33) THE OPERATION OF CSECT IEX60000	00057001
58	*					DEPENDS UPON A TRANSLATION FROM THE INTERNAL	00058001
59	*					REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF	00059001
60	*					THE TABLE WINTBC.	00060001
61	*					IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL	00061001
62	*					ALGOL SYMBOLS (COT10) THE OPERATION OF CSECT IEX60000	00062001
63	*					DEPENDS UPON A TRANSLATION FROM THE INTERNAL	00063001
64	*					REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF	00064001
65	*					THE TABLES 'WSYMBSTK','WSYMSRC' AND 'WORDSISO'/	00065001
66	*					'WORDSEBC'.	00066001
67	*					FOR THE OUTPUT OF A MESSAGE (CODE PART BETWEEN COT12	00067001
68	*					AND COT21) THE FOLLOWING APPLIES -	00068001
69	*					WHEN A MESSAGE HAS BEEN BUILT IN EBCDIC, AN EBCDIC TO	00069001
70	*					EBCDIC TRANSLATION IS PERFORMED BEFORE OUTPUT BY MEANS	00070001
71	*					OF THE TABLE WEBCDIC. THUS THE OUTPUT MAY BE MODIFIED	00071001
72	*					BY MAKING CHANGES IN THIS TABLE	00072001
73	*						00073001
74	*					THE OPERATION OF CSECT IEX21000 DOES NOT DEPEND UPON A	00074001
75	*					PARTICULAR INTERNAL REPRESENTATION OF THE EXTERNAL	00075001
76	*					CHARACTER SET	00076001
77	*						00077001
78	*					THIS MODULE IS LINKED WITH THE MODULE IEX21M TO FORM	00078001
79	*					MODULE IEX21	00079001
80	*						00080001
81	*					THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN	00081001
82	*					CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER	00082001
83	*					IN PARTICULAR IT REQUIRES THE COMMON WORKAREA.	00083001
84	*						00084001
000000		00000	0005C	85	IEX21000	CSECT	00085001
				86	*		00086001
				87		IEXENTRY 'IEX21000 LEVEL 2.1 &SYSDATE &SYSTIME'	00087001
				88+	*		01-IEXEN
000000	47F0 F026		00026	89+	B	38(,R15) BRANCH AROUND ID	01-IEXEN
000004	21			90+	DC	AL1(33) LENGTH OF IDENTIFIER	01-IEXEN
000005	C9C5E7F2F1F0F0F0			91+	DC	CL33'IEX21000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
				+		IDENTIFIER	01-IEXEN
				92	*		00088001
		R:F	00000	93		USING IEX21000,R15	00089001
				94	*		00090001
000026	5820 F058		00058	95	L	R2,=A(IEX60000) ADDR ERROR MSG EDIT ROUTINE	00091001
00002A	41E0 F034		00034	96	LA	R14,SCAN3 LOAD RETURN ADDR	00092001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00002E	4110 F04C		0004C	97	LA	R1,ERRINFO	ADDR INFO FOR ERROR ED ROUTINE 00093001
000032	07F2			98	BR	R2	GOTO ERROR MESSAGE EDITING 00094001
				99	*		00095001
				100	SCAN3	XCTL EP=IEX30000	00096001
000034				101	+SCAN3	DS 0H	01-XCTL
000034				102	+	CNOP 0,4	02-IHBIN
000034	45F0 F048		00048	103	+	BAL 15,*,+20	02-IHBIN
000038	00000040			104	+	DC A(*+8)	02-IHBIN
00003C	00000000			105	+	DC A(0)	02-IHBIN
000040	C9C5E7F3F0F0F0F0			106	+	DC CL8'IEX30000'	02-IHBIN
000048	0A07			107	+	SVC 7	01-XCTL
				108	*		00097001
00004A	0000						
00004C	00000000			109	ERRINFO	DC V(IEX21M00)	ADDR OF MESSAGE TEXTS 00098001
000050	00000000			110		DC V(IEX21M01)	ADDR OF ADDR TABLE 00099001
000054	0098			111		DC H'152'	MODIFICATION NUMBER 00100001
				112	*		00101001
000058				113		LTORG	00102001
000058	00000060			114		=A(IEX60000)	
				115	*		00103001
				116		COPY IEX60000	00104001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13	
				118=*			00002001	
				119=*	COMPONENT ID - 360S-AL-531 ALGOL F COMPILER		00003001	
				120=*			00004001	
000060		00060	00824	121=IEX60000	CSECT		00005001	
				122=*			00006001	
	R:2	00060		123=	USING IEX60000,R2		00007001	
				124=*			00008001	
				125=*	REGISTER DEFINITIONS		00009001	
				126=*			00010001	
				127=*	R1	POINTS TO PARAMETER LIST	00011001	
				128=*	R1	RETURNS ADDR OF PRINT BUFFER	00012001	
				129=*	R2	BASE REGISTER FOR COTEMER	00013001	
				130=*	R4	BASE REGISTER FOR MESSAGE POOL	00014001	
				131=*	R5	POINTER TO ENTRY IN ERROR POOL	00015001	
				132=*	R6	POINTER TO INSERTION CODE	00016001	
				133=*	R7	POINTER TO ENTRY IN MSG POOL	00017001	
				134=*	R14	PTR TO MESSAGE TEXT WORKAREA	00018001	
				135=*			00019001	
				136=*	INITIALIZATION		00020001	
				137=*			00021001	
	R:D	00000		138=	USING WORKAREA,R13	BASEREG FOR WORKAREA DSECT	00022001	
000060	D209	2518	1000	00578	00000	GET ADDR AND MOD NUMBER	00023001	
000066	4190	233E		0039E	140=COT00	LA R9,WDIRET1	00024001	
00006A	5090	D090		00090	141=	ST R9,ERET	00025001	
00006E	90EF	252C		0058C	142=	STM R14,R15,SVAR1	00026001	
000072	9190	D082		00082	143=	TM COMPLG5+2,PRT+PRTNO	00027001	
000076	4770	2346		003A6	144=	BNZ COT18	00028001	
00007A	5850	D08C		0008C	145=	L R5,ERRPOOL	00029001	
00007E	5550	D0C0		000C0	146=	CL R5,NEXTERR	00030001	
000082	4780	231C		0037C	147=	BE COT28	00031001	
000086	D50A	D133	24DE	00133	0053E	148=	CLC PAGEHEAD+39(L'HEADD1),HEADD1	00032001
00008C	4780	2056		000B6	149=	BE COT01	00033001	
000090	92FF	D099		00099	150=	MVI LINCNT+1,255	00034001	
000094	9240	D10D		0010D	151=	MVI PAGEHD1C+1,C' '	00035001	
000098	D26C	D10E	D10D	0010E	0010D	152=	MVC PAGEHD1C+2(109),PAGEHD1C+1	00036001
00009E	D263	D190	D117	00190	00117	153=	MVC PAGEHD2D(L'PAGEHD2D),PAGEHD1D	00037001
0000A4	D263	D209	D117	00209	00117	154=	MVC PAGEHD3D(L'PAGEHD3D),PAGEHD1D	00038001
0000AA	D20A	D13E	24DE	0013E	0053E	155=	MVC PAGEHD1D+39(L'HEADD1),HEADD1	00039001
0000B0	D21A	D190	24E9	00190	00549	156=	MVC PAGEHD2D(L'HEADD2),HEADD2	00040001
				157=*			00041001	
				158=*	HANDLING OF THE ENTRIES IN ERROR POOL		00042001	
				159=*			00043001	
0000B6	5840	2518		00578	160=COT01	L R4,AWEMPOOL	00044001	
0000BA	1B77				161=	SR R7,R7	00045001	
0000BC	4370	5001		00001	162=	IC R7,1(,R5)	00046001	
0000C0	41A0	00C8		000C8	163=	LA R10,200	00047001	
0000C4	197A				164=	CR R7,R10	00048001	
0000C6	4740	2070		000D0	165=	BL COT36	00049001	
0000CA	48A0	2520		00580	166=	LH R10,MODNUMB	00050001	
0000CE	1B7A				167=	SR R7,R10	00051001	
0000D0	8970	0002		00002	168=COT36	SLL R7,2	00052001	
0000D4	5890	251C		0057C	169=	L R9,AWADDTAB	00053001	
0000D8	1A79				170=	AR R7,R9	00054001	
0000DA	5870	7000		00000	171=	L R7,0(,R7)	00055001	
				172=*			00056001	
				173=*	GET LENGTH OF INSERT CODE PART		00057001	
				174=*			00058001	
0000DE	4160	7002		00002	175=COT02	LA R6,2(,R7)	00059001	
0000E2	1B99				176=	SR R9,R9	00060001	
0000E4	4390	7001		00001	177=	IC R9,1(,R7)	00061001	
0000E8	18A9				178=	LR R10,R9	00062001	
0000EA	18C9				179=	LR R12,R9	00063001	
0000EC	41C0	C001		00001	180=	LA R12,1(,R12)	00064001	
0000F0	8990	0001		00001	181=	SLL R9,1	00065001	
0000F4	1A9A				182=	AR R9,R10	00066001	
				183=*			00067001	
				184=*	HANDLE SEVERITY CODE		00068001	
				185=*			00069001	
0000F6	41A9	7002		00002	186=COT03	LA R10,2(R9,R7)	00070001	
0000FA	D200	23D9	A000	00439	00000	187=	MVC WAREA+9(1),0(R10)	00071001
000100	95E6	A000		00000	188=	CLI 0(R10),C'W'	00072001	
000104	4770	20B0		00110	189=	BNE COT03A	00073001	
000108	9620	D080		00080	190=	OI COMPLG5,WERR	00074001	
00010C	47F0	20C8		00128	191=	B COT04	00075001	
				192=*			00076001	
000110	95E2	A000		00000	193=COT03A	CLI 0(R10),C'S'	00077001	
000114	4770	20C4		00124	194=	BNE COT03B	00078001	
000118	9610	D080		00080	195=	OI COMPLG5,SERR	00079001	
00011C	9680	D080		00080	196=	OI COMPLG5,COMPmode	00080001	
000120	47F0	20C8		00128	197=	B COT04	00081001	
				198=*			00082001	
000124	9608	D080		00080	199=COT03B	OI COMPLG5,TERR	00083001	
				200=*			00084001	
				201=*	INSERTION OF MSG NUMBER AND SEMICOLON COUNTER		00085001	
				202=*			00086001	
000128	1BA A				203=COT04	SR R10,R10	00087001	
00012A	43A5	0001		00001	204=	IC R10,1(R5)	00088001	
00012E	4EA0	23C8		00428	205=	CVD R10,WDEC+8	00089001	
000132	F327	23D3	23C8	00433	00428	206=	UNPK WAREA+3(3),WDEC+8(8)	00090001
000138	96F0	23D5		00435	207=	OI WAREA+5,X'F0'	00091001	
00013C	9180	5000		00000	208=	TM 0(R5),X'80'	00092001	
000140	4780	20F2		00152	209=	BZ COT26	00093001	
000144	D204	23DC	2534	0043C	00594	210=	MVC WAREA+12(5),BLANKS	00094001
00014A	947F	5000		00000	211=	NI 0(R5),X'7F'	00095001	
00014E	47F0	2104		00164	212=	B COT31	00096001	
				213=*			00097001	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000152	48A0 5002		00002	214=COT26	LH	R10,2(,R5)	GET SEMICOLON COUNTER 00098001
000156	4EA0 23C8		00428	215=	CVD	R10,WDEC+8	00099001
00015A	F347 23DC	23C8 0043C	00428	216=	UNPK	WAREA+12(5),WDEC+8(8)	CONVERT TO READABLE DECIMAL 00100001
000160	96F0 23E0		00440	217=	OI	WAREA+16,X'F0'	MAKE CHAR PRINTABLE 00101001
				218=*			00102001
				219=*		INSERTION OF FIXED MESSAGE	00103001
				220=*			00104001
000164	41E0 23E4		00444	221=COT31	LA	R14,WAREA+20	POINT TO FIRST TEXTBYTE IN WAREA 00105001
000168	9500 7001		00001	222=	CLI	1(R7),0	ANY INSERTION CODE ? 00106001
00016C	4770 2126		00186	223=	BNE	COT05	YES 00107001
000170	41A0 7003		00003	224=	LA	R10,3(,R7)	GET ADDR OF MSG TXT 00108001
000174	18BB			225=	SR	R11,R11	00109001
000176	43B0 7000		00000	226=	IC	R11,0(,R7)	GET L'ENTRY 00110001
00017A	1AB7			227=	AR	R11,R7	GET NEXT ENTRY 00111001
00017C	18BA			228=	SR	R11,R10	GET L'MSG TXT 00112001
00017E	44B0 23AC		0040C	229=	EX	R11,WMOVE1	MOVE MSG TXT TO WORKAREA 00113001
000182	41EB E001		00001	230=	LA	R14,1(R11,R14)	UPDATE WAREA POINTER 00114001
000186	46C0 212E		0018E	231=COT05	BCT	R12,COT06	GOTO INS CODE TREATMENT IF ANY 00115001
00018A	47F0 222E		0028E	232=	B	COT12	ALL INS CODES TREATED 00116001
				233=*			00117001
				234=*		INSERTION CODE TREATMENT	00118001
				235=*			00119001
				236=*		TEST ACTION PART OF INSERT CODE	00120001
				237=*			00121001
00018E	4190 000F		0000F	238=COT06	LA	R9,15	LOAD REG TO ZERO HIGHORDER BITS 00122001
000192	1BAA			239=	SR	R10,R10	00123001
000194	18BB			240=	SR	R11,R11	00124001
000196	91F0 6000		00000	241=	TM	0(R6),X'F0'	00125001
00019A	4710 215A		001BA	242=	BO	COT37	GOTO 'INSERT BLANKS' 00126001
00019E	4780 2174		001D4	243=	BZ	COT30	GOTO 'INSERT MESSAGE TEXT' 00127001
0001A2	9180 6000		00000	244=	TM	0(R6),X'80'	00128001
0001A6	4710 2190		001F0	245=	BO	COT07	GOTO 'UNALTERED TEXT' 00129001
0001AA	9140 6000		00000	246=	TM	0(R6),X'40'	00130001
0001AE	4710 21A6		00206	247=	BO	COT10	GOTO 'ALGOL SYMBOL' 00131001
0001B2	9120 6000		00000	248=	TM	0(R6),X'20'	00132001
0001B6	4710 220E		0026E	249=	BO	COT33	GOTO 'INTERNAL CHARACTERS' 00133001
				250=*			00134001
				251=*		INSERTION OF BLANKS AT END OF PRTLIN	00135001
				252=*			00136001
0001BA	4130 242A		0048A	253=COT37	LA	R3,WAREA+90	CALC FREE SPACE ON 1ST PRT LINE 00137001
0001BE	1B3E			254=	SR	R3,R14	00138001
0001C0	47D0 2188		001E8	255=	BNP	COT09	BYPASS BLANKING IF LINE FULL 00139001
0001C4	9240 E000		00000	256=COT38	MVI	0(R14),C' '	INSERT BLANK 00140001
0001C8	41E0 E001		00001	257=	LA	R14,1(,R14)	STEP WAREA POINTER 00141001
0001CC	4630 2164		001C4	258=	BCT	R3,COT38	BRANCH IF 1ST PRT LINE NOT FULL 00142001
0001D0	47F0 2188		001E8	259=	B	COT09	GOTO NEXT INS CODE 00143001
				260=*			00144001
				261=*		INSERTION OF MESSAGE TEXT PART	00145001
				262=*			00146001
0001D4	43A0 6002		00002	263=COT30	IC	R10,2(,R6)	00147001
0001D8	41A0 7000		00000	264=	LA	R10,0(R10,R7)	GET ADDR OF TEXT PART 00148001
0001DC	43B0 6001		00001	265=	IC	R11,1(,R6)	GET L'TEXT PART 00149001
0001E0	44B0 23AC		0040C	266=COT08	EX	R11,WMOVE1	MOVE TO WORKAREA 00150001
0001E4	41EB E001		00001	267=COT35	LA	R14,1(R11,R14)	UPDATE WORKAREA POINTER 00151001
0001E8	4160 6003		00003	268=COT09	LA	R6,3(,R6)	UPDATE INS CODE POINTER 00152001
0001EC	47F0 2126		00186	269=	B	COT05	GOTO NEXT INS CODE 00153001
				270=*			00154001
				271=*		UNALTERED TEXT	00155001
				272=*			00156001
0001F0	43B0 5000		00000	273=COT07	IC	R11,0(,R5)	GET LENGTH OF SOURCE TEXT 00157001
0001F4	41A0 0005		00005	274=	LA	R10,5	00158001
0001F8	18BA			275=	SR	R11,R10	00159001
0001FA	4740 2188		001E8	276=	BM	COT09	NO MOVE IF NO SOURCE TEXT 00160001
0001FE	41A0 5004		00004	277=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00161001
000202	47F0 2180		001E0	278=	B	COT08	MOVE TEXT, GOTO NEXT INS CODE 00162001
				279=*			00163001
				280=*		ALGOL SYMBOL	00164001
				281=*			00165001
000206	9102 D082		00082	282=COT10	TM	COMPLG+2,SET60	60 CHARACTER SET USED ? 00166001
00020A	4710 21B6		00216	283=	BO	COT32	YES, BRANCH 00167001
00020E	41B0 263C		0069C	284=	LA	R11,WORDSISO	USE ISO TABLE 00168001
000212	47F0 21BA		0021A	285=	B	COT32A	00169001
				286=*			00170001
000216	41B0 2554		005B4	287=COT32	LA	R11,WORDSEBC	USE EBCDIC TABLE 00171001
00021A	4130 25F6		00656	288=COT32A	LA	R3,WSYMBSTK	TABLE FOR STACK OPERATOR 00172001
00021E	43A0 6000		00000	289=	IC	R10,0(,R6)	GET ONE BYTE ALGOL SYMBOL 00173001
000222	14A9			290=	NR	R10,R9	00174001
000224	43AA 5000		00000	291=	IC	R10,0(R10,R5)	00175001
000228	42A0 23C0		00420	292=	STC	R10,WDEC	00176001
00022C	9180 23C0		00420	293=	TM	WDEC,X'80'	SOURCE OPERATOR ? 00177001
000230	4780 21E0		00240	294=	BZ	COT32B	NO 00178001
000234	4130 2598		005F8	295=	LA	R3,WSYBMSRC	YES, CHANGE TABLE 00179001
000238	947F 23C0		00420	296=	NI	WDEC,X'7F'	REMOVE TAG 00180001
00023C	43A0 23C0		00420	297=	IC	R10,WDEC	00181001
000240	89A0 0001		00001	298=COT32B	SLL	R10,1	MULTIPLY BY 2 00182001
000244	48AA 3000		00000	299=	LH	R10,0(R10,R3)	CONVERT TO EBCDIC OR DISPLACEMT 00183001
000248	4190 0100		00100	300=	LA	R9,256	TEST KIND OF SYMBOL 00184001
00024C	15A9			301=	CLR	R10,R9	00185001
00024E	4740 2204		00264	302=	BL	COT11	ONE CHARACTER SYMBOL 00186001
000252	41AA B000		00000	303=	LA	R10,0(R10,R11)	ADDR WORDS ENTRY 00187001
000256	18BB			304=	SR	R11,R11	00188001
000258	43B0 A000		00000	305=	IC	R11,0(,R10)	GET LENGTH OF SYMBOL 00189001
00025C	41A0 A001		00001	306=	LA	R10,1(,R10)	GET ADDR OF SYMBOL 00190001
000260	47F0 2180		001E0	307=	B	COT08	MOVE SYMB, GOTO NEXT INS CODE 00191001
				308=*			00192001
000264	18BB			309=COT11	SR	R11,R11	GET LENGTH-1 OF ONE-CHAR SYMBOL 00193001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000266	42A0 E000		00000	310=	STC	R10,0(,R14)	MOVE SYMBOL TO MSG AREA 00194001
00026A	47F0 2184		001E4	311=	B	COT35	GOTO NEXT INS CODE 00195001
				312=*			00196001
				313=*		INTERNAL CHARACTERS	00197001
				314=*			00198001
00026E	4190 0005		00005	315=COT33	LA	R9,5	00199001
000272	43B0 5000		00000	316=	IC	R11,0(,R5)	GET NUMBER OF INT CHARACTERS-1 00200001
000276	18B9			317=	SR	R11,R9	00201001
000278	42B0 2225		00285	318=	STC	R11,COT34+1	STORE IT IN TRANSLATE INSTR 00202001
00027C	41A0 5004		00004	319=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00203001
000280	44B0 23AC		0040C	320=	EX	R11,WMOVE1	00204001
000284	DC00 E000	2539 00000	00599	321=COT34	TR	0(0,R14),TRINTEXT	TRANSLATE 00205001
00028A	47F0 2184		001E4	322=	B	COT35	UPDATE PTR, GOTO NEXT INS CODE 00206001
				323=*			00207001
				324=*		TRANSLATION AND OUTPUT OF MESSAGE	00208001
				325=*			00209001
00028E	9180 2522	00582		326=COT12	TM	SWT0,X'80'	MESSAGE TO CONSOLE ? 00210001
000292	4710 2286		002E6	327=	BO	COT25	YES 00211001
				328=*			00212001
				329=*		MESSAGE TO SYSPRINT	00213001
				330=*			00214001
000296	18BE			331=COT16	LR	R11,R14	00215001
000298	4190 23E4		00444	332=	LA	R9,WAREA+20	GET L'MESSAGE TEXT 00216001
00029C	18B9			333=	SR	R11,R9	00217001
00029E	4190 0046		00046	334=	LA	R9,70	GET L'TEXT ON FIRST LINE 00218001
0002A2	18B9			335=	SR	R11,R9	SUBTRACT IT 00219001
0002A4	4190 0059		00059	336=	LA	R9,89	GET L'PRINTLINE 00220001
0002A8	41A0 23D0		00430	337=	LA	R10,WAREA	GET ADDR OF ERROR MESSAGE 00221001
0002AC	45F0 22E6		00346	338=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00222001
0002B0	12BB			339=	LTR	R11,R11	L'MSG TXT > 70 ? 00223001
0002B2	47B0 2258		002B8	340=	BNL	COT17	YES 00224001
0002B6	1E9B			341=	ALR	R9,R11	OBTAIN PRTLINE LENGTH IF < 90 00225001
0002B8	4490 23B2		00412	342=COT17	EX	R9,WMOVE3	MOVE FIRST PART OF ERROR MSG 00226001
0002BC	41A9 A001		00001	343=COT20	LA	R10,1(R9,R10)	INCREASE ADDR IN WORKAREA 00227001
0002C0	12BB			344=	LTR	R11,R11	MORE TEXT TO BE MOVED ? 00228001
0002C2	47D0 22F6		00356	345=	BNH	COT21	NO 00229001
0002C6	4190 0046		00046	346=	LA	R9,70	YES, GET L'NEXT PRTLINE 00230001
0002CA	18B9			347=	SR	R11,R9	SUBTRACT IT FROM REMAIN TXTLGT 00231001
0002CC	45F0 22E6		00346	348=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00232001
0002D0	12BB			349=	LTR	R11,R11	LENGTH > 70 ? 00233001
0002D2	47B0 2278		002D8	350=	BNL	COT19	YES 00234001
0002D6	1E9B			351=	ALR	R9,R11	OBTAIN LENGTH IF LESS THAN 70 00235001
0002D8	41F0 0001		00001	352=COT19	LA	R15,1	MODIFY LENGTH FOR MOVE INSTR 00236001
0002DC	1B9F			353=	SR	R9,R15	00237001
0002DE	4490 23B8		00418	354=	EX	R9,WMOVE4	MOVE TEXT TO OUTPUT BUFFER 00238001
0002E2	47F0 225C		002B8	355=	B	COT20	PUT OUT NEXT TEXTLINE IF ANY 00239001
				356=*			00240001
				357=*		MESSAGE TO WTP	00241001
				358=*			00242001
0002E6	41B0 B028		00028	359=COT25	LA	R11,40(,R11)	GET LENGTH FOR MOVE INSTRUCTION 00243001
0002EA	44B0 22DC		0033C	360=	EX	R11,EXMVC	00244001
				361=*			00245001
				362=COT24	WTO	'	X00246001
				=		' ,ROUTCDE=11,DESC=7	00247001
0002EE	0700			363+	CNOP	0,4	01-WTO
0002F0	4510 22DA		0033A	364+COT24	BAL	1,IHB0004A	BRANCH AROUND MESSAGE 01-WTO
0002F4	0042			365+	DC	AL2(66)	TEXT LENGTH 01-WTO
0002F6	8000			366+	DC	B'1000000000000000'	MCS FLAGS 01-WTO
0002F8	4040404040404040			367+	DC	C'	+01-WTO
				+		'	01-WTO
000336	0200			368+	DC	B'000001000000000'	DESCRIPTOR CODES 01-WTO
000338	0020			369+	DC	B'000000000100000'	ROUTING CODES 01-WTO
00033A				370+IHB0004A	DS	0H	01-WTO
00033A	0A23			371+	SVC	35	01-WTO
				372=*			00248001
00033C	D200 2298 23D0 002F8	00430		373=EXMVC	MVC	COT24+8(0),WAREA	MOVE MESSAGE 00249001
				374=*			00250001
000342	47F0 2396		003F6	375=	B	WDIRET2	TERMINATE 00251001
				376=*			00252001
				377=*		OBTAIN OUTPUT BUFFER	00253001
				378=*			00254001
000346	90EF 2524		00584	379=COT27	STM	R14,R15,SVAR2	SAVE REGS FOR CALL OF PRINT RTN 00255001
00034A	58F0 D0B8		000B8	380=	L	R15,PRTRTADD	LOAD ADDR OF PRINT ROUTINE 00256001
00034E	05EF			381=	BALR	R14,R15	CALL PRINT ROUTINE 00257001
000350	98EF 2524		00584	382=	LM	R14,R15,SVAR2	RESTORE REGS 00258001
000354	07FF			383=	BR	R15	00259001
				384=*			00260001
				385=*		GOTO NEXT MESSAGE OR TERMINATE	00261001
				386=*			00262001
000356	1899			387=COT21	SR	R9,R9	00263001
000358	4390 5000		00000	388=	IC	R9,0(,R5)	GET L'TREATED ENTRY 00264001
00035C	1A59			389=	AR	R5,R9	POINT TO NEXT ENTRY 00265001
00035E	5890 D0C0		000C0	390=	L	R9,NEXTERR	GET ADDR OF FIRST FREE ENTRY 00266001
000362	1959			391=	CR	R5,R9	NEXT ENTRY = FIRST FREE ? 00267001
000364	4740 2056		000B6	392=	BL	COT01	NO, HANDLE NEXT ENTRY 00268001
000368	41A0 2396		003F6	393=	LA	R10,WDIRET2	LOAD NEW RETURN ADDR 00269001
00036C	50A0 D090		00090	394=	ST	R10,ERET	00270001
000370	58A0 D0BC		000BC	395=	L	R10,ERRPOOL	YES, POOL EXHAUSTED, ZERO PTR 00271001
000374	50A0 D0C0		000C0	396=	ST	R10,NEXTERR	00272001
000378	9108 D080		00080	397=	TM	COMPFLGS,TERR	TERMINATING ERROR ? 00273001
00037C	98EF 252C		0058C	398=COT28	LM	R14,R15,SVAR1	LOAD RETURN ADDR AND BASE 00274001
000380	4710 2326		00386	399=	BO	COT29	YES 00275001
000384	07FE			400=	BR	R14	RETURN 00276001
				401=*			00277001
				402=COT29	XCTL	EP=IEX51002	BRANCH TO TERMINATION 00278001
000386				403+COT29	DS	0H	01-XCTL

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000386	0700			404+	CNOP	0,4	02-IHBIN
000388	45F0 233C		0039C	405+	BAL	15,*+20	02-IHBIN
00038C	00000394			406+	DC	A(*+8)	02-IHBIN
000390	00000000			407+	DC	A(0)	02-IHBIN
000394	C9C5E7F5F1F0F0F2			408+	DC	CL8'IEX51002'	02-IHBIN
00039C	0A07			409+	SVC	7	01-XCTL
				410=*			00279001
				411=*			00280001
				412=*		ACTION TO BE PERFORMED AFTER I/O ERROR OR PROGRAM	00281001
				413=*		INTERRUPTION	00282001
00039E	9180 D082	00082		414=WDIRET1	TM	COMPFLGS+2,PRT	00283001
0003A2	4780 234E		003AE	415=	BZ	COT18A	00284001
0003A6	9680 2522	00582		416=COT18	OI	SWTO,X'80'	00285001
0003AA	47F0 239E		003FE	417=	B	LAST	00286001
				418=*			00287001
0003AE	9108 D081	00081		419=COT18A	TM	COMPFLGS+1,ERR	00288001
0003B2	4780 239E		003FE	420=	BZ	LAST	00289001
0003B6	4170 00D3		000D3	421=	LA	R7,211	00290001
0003BA	48A0 2520		00580	422=	LH	R10,MODNUMB	00291001
0003BE	1B7A			423=	SR	R7,R10	00292001
0003C0	8970 0002		00002	424=	SLL	R7,2	00293001
0003C4	5890 251C		0057C	425=	L	R9,AWADDTAB	00294001
0003C8	1A79			426=	AR	R7,R9	00295001
0003CA	5870 7000		00000	427=	L	R7,0(,R7)	00296001
0003CE	45F0 22E6		00346	428=	BAL	R15,COT27	00297001
0003D2	D213 1000 2504 00000	00564		429=	MVC	0(20,R1),CPI	00298001
0003D8	D232 1014 7000 00014	00000		430=	MVC	20(51,R1),0(R7)	00299001
0003DE	45F0 22E6		00346	431=	BAL	R15,COT27	00300001
0003E2	5890 D0C0		000C0	432=	L	R9,NEXTERR	00301001
0003E6	41A0 0010		00010	433=	LA	R10,16	00302001
0003EA	1B9A			434=	SR	R9,R10	00303001
0003EC	D20F 1014 9000 00014	00000		435=	MVC	20(16,R1),0(R9)	00304001
0003F2	924B 1025		00025	436=	MVI	37(R1),C'.'	00305001
				437=*			00306001
0003F6	9680 D081	00081		438=WDIRET2	OI	COMPFLGS+1,NSRCE	00307001
0003FA	47F0 2326		00386	439=	B	COT29	00308001
				440=*			00309001
				441=*		HANDLE LAST ERROR PATTERN	00310001
				442=*			00311001
0003FE	5850 D0C0		000C0	443=LAST	L	R5,NEXTERR	00312001
000402	41A0 000C		0000C	444=	LA	R10,12	00313001
000406	1B5A			445=	SR	R5,R10	00314001
000408	47F0 2056		000B6	446=	B	COT01	00315001
				447=*			00316001
				448=*		WORKAREAS AND MOVE INSTRUCTIONS	00317001
				449=*			00318001
00040C				450=	CNOP	0,4	00319001
00040C	D200 E000 A000 00000 00000			451=WMOVE1	MVC	0(0,R14),0(R10)	00320001
000412	D200 1000 A000 00000 00000			452=WMOVE3	MVC	0(0,R1),0(R10)	00321001
000418	D200 1014 A000 00014 00000			453=WMOVE4	MVC	20(0,R1),0(R10)	00322001
				454=*			00323001
00041E	0000						
000420	0000000000000000			455=WDEC	DC	2D'0'	00324001
000430	C9C5E7F0F0F0C940			456=WAREA	DC	C'IEX0000I 0 00000 '	00325001
000444	4040404040404040			457=	DC	250C' '	00326001
				458=*			00327001
				459=*		HEADINGS AND MESSAGE 211 (PART OF)	00328001
				460=*			00329001
00053E	C4C9C1C7D5D6E2E3			461=HEADD1	DC	C'DIAGNOSTICS'	00330001
000549	C3D6C4C540404040			462=HEADD2	DC	C'CODE SEV SC MESSAGE'	00331001
				463=*			00332001
000564	C9C5E7F2F1F1C940			464=CPI	DC	C'IEX211I T	00333001
				465=*		' FIRST PART OF MESSAGE 211	00334001
				466=*			00335001
				467=*		ADDRESSES AND CONSTANT	00336001
000578	00000000			468=AWEMPOOL	DC	F'0'	00337001
00057C	00000000			469=AWADDTAB	DC	F'0'	00338001
000580	0000			470=MODNUMB	DC	H'0'	00339001
				471=*		MODIFICATION NUMBER	00340001
				472=*			00341001
				473=*		VARIOUS	00342001
000582	00			474=SWTO	DC	X'00'	00343001
000583	00						
000584	0000000000000000			475=SVAR2	DC	2F'0'	00344001
00058C	0000000000000000			476=SVAR1	DC	2F'0'	00345001
000594	4040404040			477=BLANKS	DC	CL5' '	00346001
				478=*			00347001
				479=*		TABLES FOR CONVERSION AND TRANSLATION	00348001
				480=*			00349001
				481=*		TRANSLATE INTERNAL CHARS TO EBCDIC	00350001
				482=*			00351001
000599	4E605C617B7B4D7A			483=TRINTEXT	DC	C'+-*/##(:'	00352001
0005A1	AD7B7B5E7B7B7B7B			484=	DC	C'[##;####'	00353001
0005A9	7E4C6E7B7B7B7B7B			485=	DC	C'=<>#####'	00354001
0005B1	7B7B7B7B7B7B7B7B			486=	DC	C'#####'	00355001
0005B9	5F7B4F507B6B5D7A			487=	DC	C'~# &#;,):'	00356001
0005C1	BD7B7B407B4B7D7B			488=	DC	C']## #.' '#'	00357001
0005C9	F0F1F2F3F4F5F6F7			489=	DC	C'01234567'	00358001
0005D1	F8F97B7B7B7B4B7D			490=	DC	C'89####.'''	00359001
0005D9	C1C2C3C4C5C6C7C8			491=	DC	C'ABCDEFGH'	00360001
0005E1	C9D1D2D3D4D5D6D7			492=	DC	C'IJKLMNOP'	00361001
0005E9	D8D9E2E3E4E5E6E7			493=	DC	C'QRSTUVWXYZ'	00362001
0005F1	E8E95B6D7B7C			494=	DC	C'YZ\$_#@'	00363001
				495=*			00364001
				496=*			00365001
				497=*		CONVERSION OF SOURCE OPERATORS	00366001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement		X390 3.1.04	2012/08/17	13.13
				498=*					00367001
0005F7	00								
0005F8				499=	DC 0F'0'				00368001
0005F8	00			500=	WSYMBSRC DC X'00'	00	PLUS		00369001
0005F9	4E			501=	DC C'+'				00370001
0005FA	00			502=	DC X'00'	01	MINUS		00371001
0005FB	60			503=	DC C'-'				00372001
0005FC	00			504=	DC X'00'	02	MULTIPLY		00373001
0005FD	5C			505=	DC C'*'				00374001
0005FE	00			506=	DC X'00'	03	DIVIDE		00375001
0005FF	61			507=	DC C'/'				00376001
000600	0100			508=	DC H'256'	04	INTEGER DIVIDE		00377001
000602	0104			509=	DC H'260'	05	'POWER'		00378001
000604	00			510=	DC X'00'	06	LEFT PARENTHESIS		00379001
000605	4D			511=	DC C'('				00380001
000606	010C			512=	DC H'268'	07	COLON		00381001
000608	010F			513=	DC H'271'	08	LEFT BRACKET		00382001
00060A	0112			514=	DC H'274'	09	'ARRAY'		00383001
00060C	011A			515=	DC H'282'	0A	'SWITCH'		00384001
00060E	0123			516=	DC H'291'	0B	SEMICOLON		00385001
000610	0126			517=	DC H'294'	0C	'BEGIN'		00386001
000612	0126			518=	DC H'294'	0D	'BEGIN'		00387001
000614	01D5			519=	DC H'469'	0E	'PROCEDURE'		00388001
000616	01D5			520=	DC H'469'	0F	'PROCEDURE'		00389001
000618	012E			521=	DC H'302'	10	'EQUAL'		00390001
00061A	0136			522=	DC H'310'	11	'LESS'		00391001
00061C	013D			523=	DC H'317'	12	'GREATER'		00392001
00061E	0147			524=	DC H'327'	13	'NOTEQUAL'		00393001
000620	0152			525=	DC H'338'	14	'NOTGREATER'		00394001
000622	015F			526=	DC H'351'	15	'NOTLESS'		00395001
000624	0169			527=	DC H'361'	16	COLON EQUAL		00396001
000626	016C			528=	DC H'364'	17	'GOTO'		00397001
000628	0173			529=	DC H'371'	18	'FOR'		00398001
00062A	0179			530=	DC H'377'	19	'STEP'		00399001
00062C	0180			531=	DC H'384'	1A	'UNTIL'		00400001
00062E	0188			532=	DC H'392'	1B	'WHILE'		00401001
000630	0190			533=	DC H'400'	1C	'DO'		00402001
000632	0195			534=	DC H'405'	1D	'IF'		00403001
000634	019A			535=	DC H'410'	1E	'THEN'		00404001
000636	01A1			536=	DC H'417'	1F	'ELSE'		00405001
000638	01A8			537=	DC H'424'	20	'NOT'		00406001
00063A	01AE			538=	DC H'430'	21	'IMPL'		00407001
00063C	01B5			539=	DC H'437'	22	'OR'		00408001
00063E	01BA			540=	DC H'442'	23	'AND'		00409001
000640	01C0			541=	DC H'448'	24	'EQUIV'		00410001
000642	00			542=	DC X'00'	25	COMMA		00411001
000643	6B			543=	DC C','				00412001
000644	00			544=	DC X'00'	26	RIGHT PARENTHESIS		00413001
000645	5D			545=	DC C')'				00414001
000646	010C			546=	DC H'268'	27	COLON		00415001
000648	01C8			547=	DC H'456'	28	RIGHT SUBSCRIPT BRACK		00416001
00064A	0123			548=	DC H'291'	29	DELTA		00417001
00064C	01CB			549=	DC H'459'	2A	'END'		00418001
00064E	0123			550=	DC H'291'	2B	ETA		00419001
000650	01CB			551=	DC H'459'	2C	'END'		00420001
000652	00			552=	DC X'00'	2D	OMEGA		00421001
000653	40			553=	DC C' '				00422001
000654	01E1			554=	DC H'481'	2E	'CODE'		00423001
				555=*					00424001
				556=*	CONVERSION OF STACK OPERATORS				00425001
				557=*					00426001
000656	00			558=	WSYMBSTK DC X'00'	00	PLUS		00427001
000657	4E			559=	DC C'+'				00428001
000658	00			560=	DC X'00'	01	MINUS		00429001
000659	60			561=	DC C'-'				00430001
00065A	00			562=	DC X'00'	02	MULTIPLY		00431001
00065B	5C			563=	DC C'*'				00432001
00065C	00			564=	DC X'00'	03	DIVIDE		00433001
00065D	61			565=	DC C'/'				00434001
00065E	0100			566=	DC H'256'	04	INTEGER DIVIDE		00435001
000660	0104			567=	DC H'260'	05	'POWER'		00436001
000662	00			568=	DC X'00'	06	LEFT PARENTHESIS		00437001
000663	4D			569=	DC C'('				00438001
000664	010C			570=	DC H'268'	07	COLON		00439001
000666	010F			571=	DC H'271'	08	LEFT BRACKET		00440001
000668	0112			572=	DC H'274'	09	'ARRAY'		00441001
00066A	011A			573=	DC H'282'	0A	'SWITCH'		00442001
00066C	0123			574=	DC H'291'	0B	SEMICOLON		00443001
00066E	0126			575=	DC H'294'	0C	'BEGIN'		00444001
000670	0126			576=	DC H'294'	0D	'BEGIN'		00445001
000672	01D5			577=	DC H'469'	0E	'PROCEDURE'		00446001
000674	01D5			578=	DC H'469'	0F	'PROCEDURE'		00447001
000676	012E			579=	DC H'302'	10	'EQUAL'		00448001
000678	0136			580=	DC H'310'	11	'LESS'		00449001
00067A	013D			581=	DC H'317'	12	'GREATER'		00450001
00067C	0147			582=	DC H'327'	13	'NOTEQUAL'		00451001
00067E	0152			583=	DC H'338'	14	'NOTGREATER'		00452001
000680	015F			584=	DC H'351'	15	'NOTLESS'		00453001
000682	0169			585=	DC H'361'	16	COLON EQUAL		00454001
000684	016C			586=	DC H'364'	17	'GOTO'		00455001
000686	0173			587=	DC H'371'	18	'FOR'		00456001
000688	0179			588=	DC H'377'	19	'STEP'		00457001
00068A	0180			589=	DC H'384'	1A	'UNTIL'		00458001
00068C	0188			590=	DC H'392'	1B	'WHILE'		00459001
00068E	0190			591=	DC H'400'	1C	'DO'		00460001
000690	0195			592=	DC H'405'	1D	'IF'		00461001



Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement		X390 3.1.04	2012/08/17	13.13
000692	019A			593=	DC H'410'	1E	'THEN'		00462001
000694	01A1			594=	DC H'417'	1F	'ELSE'		00463001
000696	01A8			595=	DC H'424'	20	'NOT'		00464001
000698	01AE			596=	DC H'430'	21	'IMPL'		00465001
00069A	01B5			597=	DC H'437'	22	'OR'		00466001
00069C	01BA			598=	DC H'442'	23	'AND'		00467001
00069E	01C0			599=	DC H'448'	24	'EQUIV'		00468001
0006A0	00			600=	DC X'00'	25	ALPHA		00469001
0006A1	40			601=	DC C' '				00470001
0006A2	0195			602=	DC H'405'	26	IFS		00471001
0006A4	019A			603=	DC H'410'	27	THENS		00472001
0006A6	01A1			604=	DC H'417'	28	ELSES		00473001
0006A8	00			605=	DC X'00'	29	LEFT PARENTHESIS		00474001
0006A9	4D			606=	DC C' '('				00475001
0006AA	00			607=	DC X'00'	2A	LEFT PARENTHESIS		00476001
0006AB	4D			608=	DC C' '('				00477001
0006AC	00			609=	DC X'00'	2B	MONADIC MINUS		00478001
0006AD	60			610=	DC C' '-'				00479001
0006AE	010F			611=	DC H'271'	2C	LEFT SUBSCRIPT BRACKET		00480001
0006B0	0169			612=	DC H'361'	2D	COLON EQUAL		00481001
0006B2	0169			613=	DC H'361'	2E	COLON EQUAL		00482001
				614=*					00483001
				615=*	COMPOUND ALGOL SYMBOLS, EBCDIC				00484001
				616=*					00485001
0006B4		005B4		617=	DC 0F'0'				00486001
				618=WORDSECB	EQU *-256				00487001
0006B4	02			619=	DC X'02'	256	INTEGER DIVIDE		00488001
0006B5	7D617D			620=	DC C'''/'				00489001
0006B8	01			621=	DC X'01'	260	POWER		00490001
0006B9	5C5C4040404040			622=	DC C'**				00491001
0006CB	00			623=	DC X'00'	268	COLON		00492001
0006C1	7A40			624=	DC C': '				00493001
0006C3	01			625=	DC X'01'	271	LEFT BRACKET		00494001
0006C4	4D61			626=	DC C'(/'				00495001
0006C6	06			627=	DC X'06'	274	'ARRAY'		00496001
0006C7	7DC1D9D9C1E87D			628=	DC C'''ARRAY''				00497001
0006CE	07			629=	DC X'07'	282	'SWITCH'		00498001
0006CF	7DE2E6C9E3C3C87D			630=	DC C'''SWITCH''				00499001
0006D7	00			631=	DC X'00'	291	SEMICOLON		00500001
0006D8	5E40			632=	DC C'; '				00501001
0006DA	06			633=	DC X'06'	294	'BEGIN'		00502001
0006DB	7DC2C5C7C9D57D			634=	DC C'''BEGIN''				00503001
0006E2	00			635=	DC X'00'	302	EQUAL		00504001
0006E3	7E404040404040			636=	DC C'='				00505001
0006EA	00			637=	DC X'00'	310	LESSTHAN		00506001
0006EB	4C404040404040			638=	DC C'< '				00507001
0006F1	00			639=	DC X'00'	317	GREATER THAN		00508001
0006F2	6E40404040404040			640=	DC C'> '				00509001
0006FB	01			641=	DC X'01'	327	NOT EQUAL		00510001
0006FC	5F7E404040404040			642=	DC C'-'=				00511001
000706	01			643=	DC X'01'	338	LESS THAN OR EQU		00512001
000707	4C7E404040404040			644=	DC C'<= '				00513001
000713	01			645=	DC X'01'	351	GR THAN OR EQU		00514001
000714	6E7E404040404040			646=	DC C'>= '				00515001
00071D	01			647=	DC X'01'	361	COLON EQUAL		00516001
00071E	7A7E			648=	DC C':='				00517001
000720	05			649=	DC X'05'	364	'GOTO'		00518001
000721	7DC7D6E3D67D			650=	DC C'''GOTO''				00519001
000727	04			651=	DC X'04'	371	'FOR'		00520001
000728	7DC6D6D97D			652=	DC C'''FOR''				00521001
00072D	03			653=	DC X'03'	377	'STEP'		00522001
00072E	7DE2E3C5D77D			654=	DC C'''STEP''				00523001
000734	06			655=	DC X'06'	384	'UNTIL'		00524001
000735	7DE4D5E3C9D37D			656=	DC C'''UNTIL''				00525001
00073C	06			657=	DC X'06'	392	'WHILE'		00526001
00073D	7DE6C8C9D3C57D			658=	DC C'''WHILE''				00527001
000744	03			659=	DC X'03'	400	'DO'		00528001
000745	7DC4D67D			660=	DC C'''DO''				00529001
000749	03			661=	DC X'03'	405	'IF'		00530001
00074A	7DC9C67D			662=	DC C'''IF''				00531001
00074E	05			663=	DC X'05'	410	'THEN'		00532001
00074F	7DE3C8C5D57D			664=	DC C'''THEN''				00533001
000755	05			665=	DC X'05'	417	'ELSE'		00534001
000756	7DC5D3E2C57D			666=	DC C'''ELSE''				00535001
00075C	00			667=	DC X'00'	424	NOT		00536001
00075D	5F4040404040			668=	DC C'~				00537001
000762	05			669=	DC X'05'	430	'IMPL'		00538001
000763	7DC9D4D7D37D			670=	DC C'''IMPL''				00539001
000769	00			671=	DC X'00'	437	OR		00540001
00076A	4F40404040			672=	DC C'				00541001
00076E	00			673=	DC X'00'	442	AND		00542001
00076F	504040404040			674=	DC C'&&				00543001
000774	06			675=	DC X'06'	448	'EQUIV'		00544001
000775	7DC5D8E4C9E57D			676=	DC C'''EQUIV''				00545001
00077C	01			677=	DC X'01'	456	RIGHT BRACKET		00546001
00077D	615D			678=	DC C'/'				00547001
00077F	04			679=	DC X'04'	459	'END'		00548001
000780	7DC5D5C47D			680=	DC C'''END''				00549001
000785	02			681=	DC X'02'	465	LEFT STRINGQUOTE		00550001
000786	7D4D7D			682=	DC C'''('				00551001
000789	0A			683=	DC X'0A'	469	'PROCEDURE'		00552001
00078A	7DD7D9D6C3C5C4E4			684=	DC C'''PROCEDURE''				00553001
000795	05			685=	DC X'05'	481	'CODE'		00554001
000796	7DC3D6C4C57D			686=	DC C'''CODE''				00555001
				687=*					00556001
00079C				688=	DS 0F				00557001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		0069C		689=	WORDSISO EQU	*-256	
00079C 02				690=	DC	X'02'	LIST OF COMPOUND ALGOL SYMBOLS, ISO 00558001
00079D 7D617D				691=	DC	C'''/'	256 INTEGER DIVIDE 00559001
0007A0 06				692=	DC	X'06'	260 'POWER' 00560001
0007A1 7DD7D6E6C5D97D				693=	DC	C'''POWER'''	00562001
0007A8 01				694=	DC	X'01'	268 COLON 00563001
0007A9 4B4B				695=	DC	C'..'	00564001
0007AB 01				696=	DC	X'01'	271 LEFT BRACKET 00565001
0007AC 4D61				697=	DC	C'(/'	00566001
0007AE 06				698=	DC	X'06'	274 'ARRAY' 00567001
0007AF 7DC1D9D9C1E87D				699=	DC	C'''ARRAY'''	00568001
0007B6 07				700=	DC	X'07'	282 'SWITCH' 00569001
0007B7 7DE2E6C9E3C3C87D				701=	DC	C'''SWITCH'''	00570001
0007BF 01				702=	DC	X'01'	291 SEMICOLON 00571001
0007C0 4B6B				703=	DC	C'.,'	00572001
0007C2 06				704=	DC	X'06'	294 'BEGIN' 00573001
0007C3 7DC2C5C7C9D57D				705=	DC	C'''BEGIN'''	00574001
0007CA 06				706=	DC	X'06'	302 'EQUAL' 00575001
0007CB 7DC5D8E4C1D37D				707=	DC	C'''EQUAL'''	00576001
0007D2 05				708=	DC	X'05'	310 'LESS' 00577001
0007D3 7DD3C5E2E27D				709=	DC	C'''LESS'''	00578001
0007D9 08				710=	DC	X'08'	317 'GREATER' 00579001
0007DA 7DC7D9C5C1E3C5D9				711=	DC	C'''GREATER'''	00580001
0007E3 09				712=	DC	X'09'	327 'NOTEQUAL' 00581001
0007E4 7DD5D6E3C5D8E4C1				713=	DC	C'''NOTEQUAL'''	00582001
0007EE 0B				714=	DC	X'0B'	338 'NOTGREATER' 00583001
0007EF 7DD5D6E3C7D9C5C1				715=	DC	C'''NOTGREATER'''	00584001
0007FB 08				716=	DC	X'08'	351 'NOTLESS' 00585001
0007FC 7DD5D6E3D3C5E2E2				717=	DC	C'''NOTLESS'''	00586001
000805 01				718=	DC	X'01'	361 COLON EQUAL 00587001
000806 4B7E				719=	DC	C'.='	00588001
000808 05				720=	DC	X'05'	364 'GOTO' 00589001
000809 7DC7D6E3D67D				721=	DC	C'''GOTO'''	00590001
00080F 04				722=	DC	X'04'	371 'FOR' 00591001
000810 7DC6D6D97D				723=	DC	C'''FOR'''	00592001
000815 03				724=	DC	X'03'	377 'STEP' 00593001
000816 7DE2E3C5D77D				725=	DC	C'''STEP'''	00594001
00081C 06				726=	DC	X'06'	384 'UNTIL' 00595001
00081D 7DE4D5E3C9D37D				727=	DC	C'''UNTIL'''	00596001
000824 06				728=	DC	X'06'	392 'WHILE' 00597001
000825 7DE6C8C9D3C57D				729=	DC	C'''WHILE'''	00598001
00082C 03				730=	DC	X'03'	400 'DO' 00599001
00082D 7DC4D67D				731=	DC	C'''DO'''	00600001
000831 03				732=	DC	X'03'	405 'IF' 00601001
000832 7DC9C67D				733=	DC	C'''IF'''	00602001
000836 05				734=	DC	X'05'	410 'THEN' 00603001
000837 7DE3C8C5D57D				735=	DC	C'''THEN'''	00604001
00083D 05				736=	DC	X'05'	417 'ELSE' 00605001
00083E 7DC5D3E2C57D				737=	DC	C'''ELSE'''	00606001
000844 04				738=	DC	X'04'	424 'NOT' 00607001
000845 7DD5D6E37D				739=	DC	C'''NOT'''	00608001
00084A 05				740=	DC	X'05'	430 'IMPL' 00609001
00084B 7DC9D4D7D37D				741=	DC	C'''IMPL'''	00610001
000851 03				742=	DC	X'03'	437 'OR' 00611001
000852 7DD6D97D				743=	DC	C'''OR'''	00612001
000856 04				744=	DC	X'04'	442 'AND' 00613001
000857 7DC1D5C47D				745=	DC	C'''AND'''	00614001
00085C 06				746=	DC	X'06'	448 'EQUIV' 00615001
00085D 7DC5D8E4C9E57D				747=	DC	C'''EQUIV'''	00616001
000864 01				748=	DC	X'01'	456 RIGHT BRACKET 00617001
000865 615D				749=	DC	C'/'	00618001
000867 04				750=	DC	X'04'	459 'END' 00619001
000868 7DC5D5C47D				751=	DC	C'''END'''	00620001
00086D 02				752=	DC	X'02'	465 LEFT STRINGQUOTE 00621001
00086E 7D4D7D				753=	DC	C'''('	00622001
000871 0A				754=	DC	X'0A'	469 'PROCEDURE' 00623001
000872 7DD7D9D6C3C5C4E4				755=	DC	C'''PROCEDURE'''	00624001
00087D 05				756=	DC	X'05'	481 'CODE' 00625001
00087E 7DC3D6C4C57D				757=	DC	C'''CODE'''	00626001
				758=*			00627001
				759=*	END OF IEX60000		00628001
				760=*			00629001
				761 *			00105001
000000	00000 00CB6			762 WORKAREA	DSECT		00106001
				763 *			00107001
				764	COPY WORKAREA		00108001
				765=*			00001001
				766=*	WORKAREA - MAPPING CSECT IEX00001		00002001
				767=*			00003001
				768=*	ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT		00004001
				769=*			00005001
000000	0000000000000000			770=SAVEAREA	DC	18F'0'	00006001
				771=*			00007001
				772=*	DCB ADDRS		00008001
				773=*			00009001
000048				774=DCBTABLE	DC	0F'0'	00010001
000048	00000000			775=ALINDCB	DC	A(0)	00011001
00004C	00000000			776=	DC	A(0)	00012001
000050	00000000			777=	DC	A(0)	00013001
000054	00000000			778=	DC	A(0)	00014001
000058	00000000			779=ASYSDCB	DC	A(0)	00015001
00005C	00000000			780=APRTDCB	DC	A(0)	00016001
000060	00000000			781=APCHDCB	DC	A(0)	00017001
000064	00000000			782=AUT1DCB	DC	A(0)	00018001
000068	00000000			783=AUT2DCB	DC	A(0)	00019001
00006C	00000000			784=AUT3DCB	DC	A(0)	00020001

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

				785=*				00021001
				786=*	END OF DATA EXIT ADDR5			00022001
				787=*				00023001
000070	00000000			788=EODUT1	DC A(0)	SYSUT1		00024001
000074	00000000			789=EODUT2	DC A(0)	SYSUT2		00025001
000078	00000000			790=EODUT3	DC A(0)	SYSUT3		00026001
00007C	00000000			791=EODIN	DC A(0)	SYSIN		00027001
				792=*				00028001
				793=*	OPTION SWITCHES IN COMPFLGS			00029001
				794=*				00030001
				795=*	ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -			00031001
				796=*				00032001
				797=*	PURPOSE	POSITION		00033001
				798=*		BYTE 1	BYTE 2	00034001
				799=*		01234567	01234567	00035001
				800=*				00036001
				801=*	COMPMODE (SYNTAX CHECK)	X		00037001
				802=*	SUBSCRIPT OPTIMIZATION	X		00038001
				803=*	WARNING ERROR	X		00039001
				804=*	SERIOUS ERROR	X		00040001
				805=*	TERMINATING ERROR	X		00041001
				806=*	PROCEDURE/PROGRAM	X		00042001
				807=*	LONG/SHORT PRECISION	X		00043001
				808=*	OPERAND	X		00044001
				809=*				00045001
				810=*	NOSOURCE/SOURCE		X	00046001
				811=*	NLOAD/LOAD		X	00047001
				812=*	NODECK/DECK		X	00048001
				813=*	ISO/EBCDIC		X	00049001
				814=*	PROGRAM INTERRUPT		X	00050001
				815=*	TERMINATING PHASE ENTERED		X	00051001
				816=*	NO BUFFERS ASSIGNED		X	00052001
				817=*	NO COMPILATION POSSIBLE		X	00053001
				818=*				00054001
				819=*	SYSPRINT DOWN		X	00055001
				820=*	WHOLE SOURCE PROG IN CORE		X	00056001
				821=*	NO OPTAB		X	00057001
				822=*	SYSPRINT NOT OPENED		X	00058001
				823=*	ERROR UNRELATED TO SEMICOLON NR		X	00059001
				824=*	NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)		X	00060001
				825=*	60 CHARACTER SET		X	00061001
				826=*	(RESERVED)		X	00062001
				827=*				00063001
000080	00220000			828=COMPFLGS	DC X'00220000'	PARAMETERS AND SWITCHES		00064001
				829=*				00065001
				830=*	OPTION SWITCHES IN COMPFLGS			00066001
				831=*				00067001
000080				832=COMPMODE	EQU X'80'	SYNTAX CHECK MODE		00068001
000040				833=SUBSCOPT	EQU X'40'	SUBSCRIPT OPTIMIZATION		00069001
000FB				834=PGR	EQU X'FB'			00070001
00004				835=PROC	EQU X'04'	PRECOMPILED PROCEDURE		00071001
				836=*				00072001
000FD				837=SHRT	EQU X'FD'			00073001
00002				838=LNG	EQU X'02'			00074001
00001				839=OPERAND	EQU X'01'			00075001
				840=*				00076001
				841=*	ERROR SEVERITY INDICATORS IN COMPFLGS			00077001
				842=*				00078001
00020				843=WERR	EQU X'20'	WARNING ERROR		00079001
00010				844=SERR	EQU X'10'	SERIOUS ERROR		00080001
00008				845=TERR	EQU X'08'	TERMINATING ERROR		00081001
				846=*				00082001
				847=*	OPTION SWITCHES IN COMPFLGS+1			00083001
				848=*				00084001
0007F				849=SRCE	EQU X'7F'			00085001
00080				850=NSRCE	EQU X'80'			00086001
				851=*				00087001
000BF				852=LOAD	EQU X'BF'			00088001
00040				853=NLOAD	EQU X'40'			00089001
				854=*				00090001
000DF				855=DECK	EQU X'DF'			00091001
00020				856=NDECK	EQU X'20'			00092001
				857=*				00093001
000EF				858=EBCDIC	EQU X'EF'			00094001
00010				859=ISO	EQU X'10'			00095001
				860=*				00096001
				861=*	TERMINATION SWITCHES IN COMPFLGS+1			00097001
				862=*				00098001
00008				863=ERR	EQU X'08'	PROGRAM INTERRUPT HAS		00099001
				864=*		OCCURED IN COMPILER		00100001
00004				865=TERM	EQU X'04'	LAST PHASE HAS BEEN ENTERED		00101001
00002				866=NOBUF	EQU X'02'	ERROR POOL IS IN WORKAREA		00102001
				867=*		NO SCE PROG BUFF 1		00103001
00001				868=NOGO	EQU X'01'	COMPILATION NOT POSSIBLE		00104001
				869=*		DO NOT START SCAN 1		00105001
00003				870=NOBUNOGO	EQU X'03'	NOBUF AND NOGO		00106001
				871=*				00107001
				872=*	SWITCHES IN COMPFLGS+2			00108001
				873=*				00109001
00080				874=PRT	EQU X'80'	SYSPRINT NOT AVAILABLE		00110001
00040				875=SPIC	EQU X'40'	SOURCE PROGRAM IN STORAGE		00111001
00020				876=NOPT	EQU X'20'	NO SUBSCRIPT OPTIMIZATION		00112001
00010				877=PRTNO	EQU X'10'	SYSPRINT NOT OPENED		00113001
00008				878=NOSC	EQU X'08'	SEMICOLON COUNTER NOT VALID		00114001
				879=*				00115001
00004				880=NOTEST	EQU X'04'			00116001



D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

		000FB		881=TEST	EQU	X'FB'	EMBED SC COUNT IN CODE (DEFAULT)	00117001
				882=*				00118001
		00002		883=SET60	EQU	X'02'	60 CHARACTER SET IS TO BE USED	00119001
				884=*				00120001
				885=*			MISCELLANEOUS CONTROL INFORMATION	00121001
				886=*				00122001
000084	0000B000			887=SIZE	DC	F'45056'	AVAILABLE MAIN STORAGE - NOT USED	00123001
000088	00000000			888=PICAAADD	DC	A(0)	ADDR OF PICA OF THE INVOKER	00124001
00008C	00000000			889=HDING	DC	F'0'	ADDR OF HEADING INFO OF THE INVOKER	00125001
000090	00000000			890=ERET	DC	F'0'	RETURN ADDR FOR PROGRAM	00126001
				891=*			AND I/O ERRORS	00127001
000094	0000000C			892=PAGECNT	DC	PL4'0'	PAGE COUNT	00128001
000098	0000			893=LINCNT	DC	H'0'	COUNTER OF LINES PER PAGE	00129001
00009A	0038			894=MAXLINES	DC	H'56'	MAX NUMBER OF PRINT LINES PER PAGE	00130001
00009C	0000			895=SEMCNT	DC	H'0'	SEMICOLON COUNTER	00131001
00009E	0032			896=PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER	00132001
0000A0	0000			897=KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER	00133001
		0001C		898=LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS	00134001
		0006C		899=LATBEG	EQU	4*(LATNR-1)		00135001
0000A2	006C			900=LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT	00136001
0000A4	00000000			901=PRPT	DC	F'0'	PROGRAM POINTER	00137001
0000A8	00000000			902=SAVOUTA	DC	F'0'		00138001
0000AC				903=OUTAREA2	DS	F	SYSPUNCH SAVE AREA	00139001
0000B0	40404040			904=PIDENT	DC	CL4' '	PROGRAM IDENTIFICATION	00140001
0000B4	0000000C			905=CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER	00141001
0000B8	00000000			906=PRTRTADD	DC	A(0)	ADDR OF PRINT ROUTINE	00142001
				907=*				00143001
				908=*			ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	00144001
				909=*				00145001
0000BC	00000278			910=ERRPOOL	DC	A(PRELPOL)	FIRST BYTE OF PRELIMINARY ERROR POOL	00146001
0000C0	00000278			911=NEXTERR	DC	A(PRELPOL)	NEXT FREE PLACE IN ERROR POOL	00147001
0000C4				912=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23	00148001
0000C8				913=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1	00149001
0000CC				914=SRCE1END	DS	F	ADDR OF LAST BYTE+1	00150001
0000D0				915=SULTSTRT	DS	F	ID OF LAST ITAB RECORD	00151001
				916=*				00152001
				917=*				00153001
				918=*			TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	00154001
				919=*				00155001
0000D4				920=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED	00156001
0000D6				921=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED	00157001
0000D8				922=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED	00158001
0000DA				923=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED	00159001
0000DC				924=POOLS	DS	F	SIZE OF ERROR POOL	00160001
0000E0				925=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2	00161001
		000E0		926=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4	00162001
0000E4				927=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10	00163001
0000E8				928=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20	00164001
0000EC				929=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30	00165001
0000F0				930=CRIDTABS	DS	F	SIZE OF CRIDTAB FOR PHASE 30	00166001
0000F4				931=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30	00167001
0000F8				932=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30	00168001
0000FC				933=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2	00169001
000100				934=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40	00170001
000104				935=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40	00171001
000108				936=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK	00172001
				937=*				00173001
				938=*			AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	00174001
				939=*			EACH NEW PAGE	00175001
				940=*				00176001
		0010C		941=PAGEHEAD	EQU	*		00177001
00010C	4040404040404040			942=PAGEHD1	DC	CL121' '	FIRST HEADLINE	00178001
000185		00185	0010C	943=	ORG	PAGEHD1		00179001
00010C	F1			944=PAGEHD1C	DC	C'1'	ASA CNTL	00180001
00010D	4040404040404040			945=	DC	CL10' '	SPACER	00181001
000117	4040404040404040			946=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING	00182001
00017B		0017B	0017D	947=	ORG	PAGEHD1+113		00183001
00017D	D7C1C7C5			948=PAGEHD1P	DC	CL4'PAGE'	PAGE	00184001
000181	40404040			949=PAGENUMB	DC	CL4' '	PAGE COUNTER	00185001
000185		00185	00185	950=	ORG			00186001
				951=*				00187001
000185	4040404040404040			952=PAGEHD2	DC	CL121' '	SECOND HEADLINE	00188001
0001FE		001FE	00185	953=	ORG	PAGEHD2		00189001
000185	40			954=PAGEHD2C	DC	C' '	ASA CNTL	00190001
000186	4040404040404040			955=	DC	CL10' '	SPACER	00191001
000190	4040404040404040			956=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING	00192001
0001F4		001F4	001FE	957=	ORG			00193001
				958=*				00194001
0001FE	4040404040404040			959=PAGEHD3	DC	CL121' '	THIRD HEADLINE	00195001
000277		00277	001FE	960=	ORG	PAGEHD3		00196001
0001FE	40			961=PAGEHD3C	DC	C' '	ASA CNTL	00197001
0001FF	4040404040404040			962=	DC	CL10' '	SPACER	00198001
000209	4040404040404040			963=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING	00199001
00026D		0026D	00277	964=	ORG			00200001
				965=*				00201001
				966=*				00202001
				967=*			END OF STANDARD COMMON AREA	00203001
				968=*				00204001
		00277		969=STANDX	EQU	*		00205001
				970=*				00206001
				971=*			THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL	00207001
				972=*			PHASES AND PARTLY OVERLAY EACH OTHER	00208001
				973=*				00209001
				974=*			NAME OR PURPOSE	00210001
				975=*			NEEDED BY PHASES	00211001

000277 00

Active USINGS: WORKAREA,R13 IEX60000,R2 IEX21000,R15

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
000278				976=	DC	0F'0'		00212001
000278	4040404040404040			977=PRELPOOL	DC	236C' ',20C'X' PRELIMINARY ERROR POOL	IEX10	00213001
000378		00378	00416	978=	ORG	PRELPOOL+414		00214001
				979=*		DCB FOR SYSIN	11	00215001
				980=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				982+*		DATA CONTROL BLOCK		01-DCB
				983+*				01-DCB
000416	0000							
000418				984+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				986+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000418	0000000000000000			988+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000428	00000000			989+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				991+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00042C	00			993+	DC	AL1(0)	BUFNO	01-DCB
00042D	000001			994+	DC	AL3(1)	BUFCB	01-DCB
000430	0000			995+	DC	AL2(0)	BUFL	01-DCB
000432	4000			996+	DC	BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			997+	DC	A(1)	IOBAD	01-DCB
				999+*		FOUNDATION EXTENSION		01-DCB
000438	40			1001+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			1002+	DC	AL3(1)	EODAD	01-DCB
00043C	90			1003+	DC	BL1'10010000'	RECFM	01-DCB
00043D	000000			1004+	DC	AL3(0)	EXLST	01-DCB
				1006+*		FOUNDATION BLOCK		01-DCB
000440	E2E8E2C9D5404040			1008+	DC	CL8'SYSIN'	DDNAME	01-DCB
000448	02			1009+	DC	BL1'00000010'	OFLGS	01-DCB
000449	00			1010+	DC	BL1'00000000'	IFLG	01-DCB
00044A	5000			1011+	DC	BL2'0101000000000000'	MACR	01-DCB
				1013+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
00044C	00			1015+	DC	BL1'00000000'		RER1 01-DCB
00044D	000001			1016+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000450	00000001			1017+	DC	A(1)	SYNAD	01-DCB
000454	0000			1018+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			1019+	DC	AL2(0)	BLKSIZE	01-DCB
000458	00000000			1020+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			1021+	DC	A(1)	IOBA	01-DCB
000460	00			1022+	DC	AL1(0)	NCP	01-DCB
000461	000001			1023+	DC	AL3(1)	EOBR, EOBA	01-DCB
				1025+*		QSAM INTERFACE		01-DCB
000464	00000001			1027+	DC	A(1)	RECAD	01-DCB
000468	0000			1028+	DC	H'0'	QSW	01-DCB
00046A	0050			1029+	DC	AL2(80)	LRECL	01-DCB
00046C	00			1030+	DC	BL1'00000000'	EROPT	01-DCB
00046D	000001			1031+	DC	AL3(1)	CNTRL	01-DCB
000470	00000000			1032+	DC	F'0'	PRECL	01-DCB
000474	00000001			1033+	DC	A(1)	EOB	01-DCB
				1034=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)		00222001
				1035=*		EODAD=EODADIN (INSERTED BY IEX11)		00223001
000478		00478	00278	1036=	ORG	PRELPOOL		00224001
000278				1037=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50
000478				1038=	DS	0F		00226001
000478				1039=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20
000577		00577	00478	1040=	ORG	PBTAB1		00228001
000478				1041=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40
				1042=*		DCB FOR SYSUT1		11-30
				1043=SYSUT1	DCB	DDNAME=SYSUT1,		X00231001
				=		DSORG=PS,		X00232001
				=		MACRF=(R,W),		X00233001
				=		RECFM=F		00234001
				1045+*		DATA CONTROL BLOCK		01-DCB
				1046+*				01-DCB
000577	00							
000578				1047+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1049+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000578	0000000000000000			1051+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000588	00000000			1052+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1054+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00058C	00			1056+	DC	AL1(0)	BUFNO	01-DCB
00058D	000001			1057+	DC	AL3(1)	BUFCB	01-DCB
000590	0000			1058+	DC	AL2(0)	BUFL	01-DCB
000592	4000			1059+	DC	BL2'0100000000000000'	DSORG	01-DCB

Active USINGS: WORKAREA,R13 IEX60000,R2 IEX21000,R15

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
000594	00000001			1060+	DC	A(1) IOBAD			01-DCB
				1062+*		FOUNDATION EXTENSION			01-DCB
000598	00			1064+	DC	BL1'0000000'	BFTEK,BFLN,HIARCHY		01-DCB
000599	000001			1065+	DC	AL3(1) EODAD			01-DCB
00059C	80			1066+	DC	BL1'1000000'	RECFM		01-DCB
00059D	000000			1067+	DC	AL3(0) EXLST			01-DCB
				1069+*		FOUNDATION BLOCK			01-DCB
0005A0	E2E8E2E4E3F14040			1071+	DC	CL8'SYSUT1'	DDNAME		01-DCB
0005A8	02			1072+	DC	BL1'00000010'	OFLGS		01-DCB
0005A9	00			1073+	DC	BL1'00000000'	IPLG		01-DCB
0005AA	2020			1074+	DC	BL2'0010000000100000'	MACR		01-DCB
				1076+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
0005AC	00			1078+	DC	BL1'00000000'		RER1	01-DCB
0005AD	000001			1079+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
0005B0	00000001			1080+	DC	A(1)	SYNAD		01-DCB
0005B4	0000			1081+	DC	H'0'	CIND1, CIND2		01-DCB
0005B6	0000			1082+	DC	AL2(0)	BLKSIZE		01-DCB
0005B8	00000000			1083+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
0005BC	00000001			1084+	DC	A(1)	IOBA		01-DCB
0005C0	00			1085+	DC	AL1(0)	NCP		01-DCB
0005C1	000001			1086+	DC	AL3(1)	EOBR, EOBD		01-DCB
				1088+*		BSAM-BPAM INTERFACE			01-DCB
0005C4	00000001			1090+	DC	A(1)	EOBW		01-DCB
0005C8	0000			1091+	DC	H'0'	DIRCT		01-DCB
0005CA	0000			1092+	DC	AL2(0)	LRECL		01-DCB
0005CC	00000001			1093+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				1094=*		SYNAD=SYNAD,	(ASSEMBLED IN IEX00001)		00235001
				1095=*		EODAD=EODAD1			00236001
				1096=*					00237001
0005D0				1097=	DS	0F			00238001
0005D0				1098=SPTAB	DS	CL255	SCOPE TABLE	11-30	00239001
0006D0				1099=	DS	0F			00240001
		006CD		1100=GPTAB	EQU	*-3	GROUP TABLE	11-30	00241001
0006D0				1101=	DS	CL1510			00242001
				1102=*					00243001
				1103=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				1104=*					00245001
				1105 *					00109001
				1106 *		REGISTER EQUATES			00110001
				1107 *					00111001
				1108		IEZREGS			00112001
	00000			1109+R0	EQU	0			01-IEZRE
	00001			1110+R1	EQU	1			01-IEZRE
	00002			1111+R2	EQU	2			01-IEZRE
	00003			1112+R3	EQU	3			01-IEZRE
	00004			1113+R4	EQU	4			01-IEZRE
	00005			1114+R5	EQU	5			01-IEZRE
	00006			1115+R6	EQU	6			01-IEZRE
	00007			1116+R7	EQU	7			01-IEZRE
	00008			1117+R8	EQU	8			01-IEZRE
	00009			1118+R9	EQU	9			01-IEZRE
	0000A			1119+R10	EQU	10			01-IEZRE
	0000B			1120+R11	EQU	11			01-IEZRE
	0000C			1121+R12	EQU	12			01-IEZRE
	0000D			1122+R13	EQU	13			01-IEZRE
	0000E			1123+R14	EQU	14			01-IEZRE
	0000F			1124+R15	EQU	15			01-IEZRE
				1125 *					00113001
				1126		END			00114001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
=A(IX60000)												
	4	00000058	00000001	A	A		114	95				
AWADDTAB	4	0000057C	00000004	F	F		469	169	425			
AWEMPOOL	4	00000578	00000004	F	F		468	139M	160			
BLANKS	5	00000594	00000004	C	C		477	210				
COMPFLGS	4	00000080	FFFFFFF	X	X		828	143	190M	195M	196M	199M
COMPMODE	1	00000080		U			832	196			282	397
COT01	4	00000086	00000004	I			160	149B	392B	446B	414	419
COT03A	4	00000110	00000004	I			193	189B				
COT03B	4	00000124	00000004	I			199	194B				
COT04	2	00000128	00000004	I			203	191B	197B			
COT05	4	00000186	00000004	I			231	223B	269B			
COT06	4	0000018E	00000004	I			238	231B				
COT07	4	000001F0	00000004	I			273	245B				
COT08	4	000001E0	00000004	I			266	278B	307B			
COT09	4	000001E8	00000004	I			268	255B	259B	276B		
COT10	4	00000206	00000004	I			282	247B				
COT11	2	00000264	00000004	I			309	302B				
COT12	4	0000028E	00000004	I			326	232B				
COT17	4	000002B8	00000004	I			342	340B				
COT18	4	000003A6	00000004	I			416	144B				
COT18A	4	000003AE	00000004	I			419	415B				
COT19	4	000002D8	00000004	I			352	350B				
COT20	4	000002BC	00000004	I			343	355B				
COT21	2	00000356	00000004	I			387	345B				
COT24	4	000002F0	00000004	I			364	373M				
COT25	4	000002E6	00000004	I			359	327B				
COT26	4	00000152	00000004	I			214	209B				
COT27	4	00000346	00000004	I			379	338B	348B	428B	431B	
COT28	4	0000037C	00000004	I			398	147B				
COT29	2	00000386	00000004	H	H		403	399B	439B			
COT30	4	000001D4	00000004	I			263	243B				
COT31	4	00000164	00000004	I			221	212B				
COT32	4	00000216	00000004	I			287	283B				
COT32A	4	0000021A	00000004	I			288	285B				
COT32B	4	00000240	00000004	I			298	294B				
COT33	4	0000026E	00000004	I			315	249B				
COT34	6	00000284	00000004	I			321	318M				
COT35	4	000001E4	00000004	I			267	311B	322B			
COT36	4	000000D0	00000004	I			168	165B				
COT37	4	000001BA	00000004	I			253	242B				
COT38	4	000001C4	00000004	I			256	258B				
CPI	20	00000564	00000004	C	C		464	429				
ERET	4	00000090	FFFFFFF	F	F		890	141M	394M			
ERR	1	00000008		U			863	419				
ERRINFO	4	0000004C	00000001	V	V		109	97				
ERRPOOL	4	000000BC	FFFFFFF	A	A		910	145	395			
EXMVC	6	0000033C	00000004	I			373	360X				
HEADD1	11	0000053E	00000004	C	C		461	148	155			
HEADD2	27	00000549	00000004	C	C		462	156				
IXE21M00	1	00000000	00000002	T			109	109				
IXE21M01	1	00000000	00000003	T			110	110				
IXE21000	1	00000000	00000001	J			85	93U				
IXE60000	1	00000060	00000004	J			121	114	123U			
IHB0004A	2	0000033A	00000004	H	H		370	364B				
LAST	4	000003FE	00000004	I			443	417B	420B			
LATBEG	1	0000006C		U			899	900				
LATNR	1	0000001C		U			898	899				
LINCNT	2	00000098	FFFFFFF	H	H		893	150M				
MODNUMB	2	00000580	00000004	H	H		470	166	422			
NEXTERR	4	000000C0	FFFFFFF	A	A		911	146	390	396M	432	443
NSRCE	1	00000080		U			850	438				
PAGEHD1	121	0000010C	FFFFFFF	C	C		942	943	947			
PAGEHD1C	1	0000010C	FFFFFFF	C	C		944	151M	152M			
PAGEHD1D	100	00000117	FFFFFFF	C	C		946	153	154	155M		
PAGEHD2	121	00000185	FFFFFFF	C	C		952	953				
PAGEHD2D	100	00000190	FFFFFFF	C	C		956	153M	156M			
PAGEHD3	121	000001FE	FFFFFFF	C	C		959	960				
PAGEHD3D	100	00000209	FFFFFFF	C	C		963	154M				
PAGEHEAD	1	0000010C	FFFFFFF	U			941	148				
PBTAB1	255	00000478	FFFFFFF	C	C		1039	1040				
PRELPOOL	1	00000278	FFFFFFF	C	C		977	910	911	978	1036	
PRT	1	00000080		U			874	143	414			
PRTNO	1	00000010		U			877	143				
PRTRTADD	4	00000088	FFFFFFF	A	A		906	380				
R1	1	00000001		U			1110	97M	139	429	430	435
R10	1	0000000A		U			1119	163M	164	166M	167	178M
								203M	204M	205	214M	215
								274M	275	277M	289M	290M
								301	303M	305	306M	310
								395M	396	422M	423	433M
								453				
R11	1	0000000B		U			1120	225M	226M	227M	228M	229
								273M	275M	284M	287M	303
								318	320	331M	333M	335M
								351	359M	360		
R12	1	0000000C		U			1121	179M	180M	231M		
R13	1	0000000D		U			1122	138U				
R14	1	0000000E		U			1123	96M	142	221M	230M	254
								331	379	381M	382M	398M
R15	1	0000000F		U			1124	89	93U	142	338M	348M
								382M	383B	398M	428M	431M
R2	1	00000002		U			1111	95M	98B	123U		
R3	1	00000003		U			1112	253M	254M	258M	288M	295M
R4	1	00000004		U			1113	160M				
R5	1	00000005		U			1114	145M	146	162	204	208
								316	319	388	389M	391
											443M	445M
											211	214
											273	277
												291

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
R6	1	00000006		U			1115	175M 241 244 246 248 263 265 268M 289				
R7	1	00000007		U			1116	161M 162M 164 167M 168M 170M 171M 175 177 186				
								222 224 226 227 264 421M 423M 424M 426M 427M				
								430				
R9	1	00000009		U			1118	140M 141 169M 170 176M 177M 178 179 181M 182M				
								186 238M 290 300M 301 315M 317 332M 333 334M				
								335 336M 341M 342 343 346M 347 351M 353M 354				
								387M 388M 389 390M 391 425M 426 432M 434M 435				
SCAN3	2	00000034	00000001	H	H		101	96				
SERR	1	00000010		U			844	195				
SET60	1	00000002		U			883	282				
SRCE15	4	000000E0	FFFFFFFF	F	F		925	926				
SVAR1	4	0000058C	00000004	F	F		476	142M 398				
SVAR2	4	00000584	00000004	F	F		475	379M 382				
SWTO	1	00000582	00000004	X	X		474	326 416M				
TERR	1	00000008		U			845	199 397				
TRINTEXT	8	00000599	00000004	C	C		483	321				
WAREA	20	00000430	00000004	C	C		456	187M 206M 207M 210M 216M 217M 221 253 332 337				
								373				
WDEC	8	00000420	00000004	D	D		455	205M 206 215M 216 292M 293 296M 297				
WDIRET1	4	0000039E	00000004	I			414	140				
WDIRET2	4	000003F6	00000004	I			438	375B 393				
WERR	1	00000020		U			843	190				
WMOVE1	6	0000040C	00000004	I			451	229X 266X 320X				
WMOVE3	6	00000412	00000004	I			452	342X				
WMOVE4	6	00000418	00000004	I			453	354X				
WORDSEBC	1	000005B4	00000004	U			618	287				
WORDSISO	1	0000069C	00000004	U			689	284				
WORKAREA	1	00000000	FFFFFFFF	J			762	138U				
WSYMBSRC	1	000005F8	00000004	X	X		500	295				
WSYMBSTK	1	00000656	00000004	X	X		558	288				

Register References (M=modified, B=branch, U=USING, D=DROP, N=index)

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0(0)	(no references identified)																			
1(1)	97M	139	364M	429	430	435	436	452	453											
2(2)	95M	98B	123U																	
3(3)	253M	254M	258M	288M	295M	299														
4(4)	160M																			
5(5)	145M	146	162	204N	208	211	214	273	277	291	316	319	388	389M	391	443M	445M			
6(6)	175M	241	244	246	248	263	265	268M	289											
7(7)	161M	162M	164	167M	168M	170M	171M	175	177	186	222	224	226	227	264	421M	423M	424M		
	426M	427M	430																	
8(8)	(no references identified)																			
9(9)	140M	141	169M	170	176M	177M	178	179	181M	182M	186N	238M	290	300M	301	315M	317	332M		
	333	334M	335	336M	341M	342	343N	346M	347	351M	353M	354	387M	388M	389	390M	391	425M		
	426	432M	434M	435																
10(A)	163M	164	166M	167	178M	182	186M	187	188	193	203M	204M	205	214M	215	224M	228	239M		
	263M	264M	264N	274M	275	277M	289M	290M	291M	291N	292	297M	298M	299M	299N	301	303M	303N		
	305	306M	310	319M	337M	343M	393M	394	395M	396	422M	423	433M	434	444M	445	451	452		
	453																			
11(B)	225M	226M	227M	228M	229	230N	240M	265M	266	267N	273M	275M	284M	287M	303	304M	305M	309M		
	316M	317M	318	320	331M	333M	335M	339M	341	344M	347M	349M	351	359M	360					
12(C)	179M	180M	231M																	
13(D)	138U																			
14(E)	96M	142	221M	230M	254	256	257M	267M	310	321	331	379	381M	382M	398M	400B	451			
15(F)	89B	93U	103M	142	338M	348M	352M	353	379	380M	381B	382M	383B	398M	405M	428M	431M			

X21						Dsect Cross Reference			PAGE	18
Dsect	Length	Id	Defn	Con	Member				X390 3.1.04	2012/08/17 13.13
WORKAREA	00000CB6	FFFFFFFF	762		PRIMARY INPUT					

Con	Source	Members
-----	--------	---------

X390	3.1.04	2012/08/17	13.13
------	--------	------------	-------

1	SYS1.MACLIB					
	DCB	IEZREGS	IHBINNRB	IHB01	WTO	XCTL
2	SYSD.TOOLS.MACLIB					
3	SYSD.ALGOLF.ASM					
	IEX60000					
4	SYSD.ALGOLF.MACLIB					
	IEXENTRY	WORKAREA				
5	SYSD.ALGOLFRT.MACLIB					
6	SYS1.AMODGEN					



Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390	3.1.04	2012/08/17	13.13
93		USING	Ordinary	00000001	00000000	00001000	15	00058	103	IEX21000, R15				
123		USING	Ordinary	00000004	00000060	00001000	2	0063C	446	IEX60000, R2				
138		USING	Ordinary	FFFFFFFF	00000000	00001000	13	00209	443	WORKAREA, R13				

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T1X21      STEPNAME: IEX21      PROCSTEP: X390

Primary input: lines      1 to      114 of SYSD.ALGOLF.ASM(IEX21)

SYSLIB library records read: 3416

SYSUT1 work file size: 110990 bytes

SYSUT2 work file size: 216680 bytes

SYSUT3 work file size: 9120 bytes

SYSLIN file records written: 44

TXA000I Return code 0, elapsed time 1.22 seconds.

Csect	Rel	Addr(hex)	Length(dec)
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IEX21000		00005C	4
----------	--	--------	---

IEX60000		000884	4
----------	--	--------	---

**IEX21M**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX21M)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131305.RA000.T121M.OBJECT
SYSPRINT	JES2.JOB09273.S00102
SYSUT1	SYS12230.T131305.RA000.T121M.SYSUT1
SYSUT2	SYS12230.T131305.RA000.T121M.SYSUT2
SYSUT3	SYS12230.T131305.RA000.T121M.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				2 *			00002001
				3 *		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
				4 *			00004001
				5 *		FUNCTION/OPERATION -	00005001
				6 *		THIS MODULE CONTAINS MESSAGE TEXTS FOR ALL ERRORS THAT	00006001
				7 *		MAY BE DETECTED BY IEX00, IEX10, IEX11, AND IEX20, AND	00007001
				8 *		THE CORRESPONDING ADDRESS TABLE	00008001
				9 *			00009001
				10 *		ENTRY POINT - N/A	00010001
				11 *			00011001
				12 *		INPUT - N/A	00012001
				13 *			00013001
				14 *		OUTPUT - N/A	00014001
				15 *			00015001
				16 *		EXTERNAL ROUTINES - N/A	00016001
				17 *			00017001
				18 *		EXITS - NORMAL - N/A	00018001
				19 *			00019001
				20 *		EXITS - ERROR - N/A	00020001
				21 *			00021001
				22 *		TABLES/WORKAREAS - N/A	00022001
				23 *			00023001
				24 *		NOTES -	00024001
				25 *		THIS MODULE IS LINKED WITH THE MODULE IEX21 TO FORM THE	00025001
				26 *		MODULE IEX21	00026001
				27 *			00027001
000000		00000	00EBC	28	IEX21M00	CSECT	00028001
				29 *			00029001
				30		ENTRY IEX21M01	00030001
				31 *			00031001
				32 *		ERROR MESSAGE POOL 1	00032001
				33 *			00033001
		00000		34	WEMPOOL1	EQU *	00034001
				35 *			00035001
000000	1C00			36	W001	DC X'1C00'	00036001
000002	E6C9D5E5C1D3C9C4			37		DC CL27'WINVALID CHARACTER DELETED.'	00037001
				38 *			00038001
00001D	2100			39	W002	DC X'2100'	00039001
00001F	E6C9D3D3C5C7C1D3			40		DC CL32'WILLEGAL PERIOD. PERIOD DELETED.'	00040001
				41 *			00041001
00003F	2F0300130C240020			42	W003	DC X'2F0300130C24002000F20'	00042001
00004A	E6C9D5E5C1D3C9C4			43		DC CL37'WINVALID COLON AFTER . COLON DELETED.'	00043001
				44 *			00044001
00006F	1900			45	W004	DC X'1900'	00045001
000071	E3D3C5E3E3C5D940			46		DC CL24'TLETTER STRING TOO LONG.'	00046001
				47 *			00047001
000089	3F00			48	W005	DC X'3F00'	00048001
00008B	E2C9C4C5D5E3C9C6			49		DC CL62'SIDENTIFIER BEGINS WITH INVALID CHARACTER. IDENTIFX	00049001
						ER DELETED.'	00050001
				50 *			00051001
0000C9	2500			51	W006	DC X'2500'	00052001
0000CB	E3D3C1C2C5D340C3			52		DC CL36'TLABEL CONTAINS TOO MANY CHARACTERS.'	00053001
				53 *			00054001
0000EF	5005001412240027			54	W007	DC X'5005001412240027001B27F00000000D43'	00055001
000100	E6D3C1C2C5D340C2			55		DC CL64'WLABEL BEGINNING WITH CONTAINS INVALID CHARACTER.CX	00056001
						OLON DELETED.'	00057001
				56 *			00058001
000140	3500			57	W008	DC X'3500'	00059001
000142	E6D3C1C2C5D340C2			58		DC CL52'WLABEL BEGINS WITH INVALID CHARACTER. COLON DELETEDX	00060001
						.'	00061001
				59 *			00062001
000176	3703001F0C24002C			60	W010	DC X'3703001F0C24002C000B2C'	00063001
000181	E2E2D7C5C3C9C6C9			61		DC CL45'SSPECIFICATION PART OF PROCEDURE INCOMPLETE.'	00064001
				62 *			00065001
0001AE	2800			63	W011	DC X'2800'	00066001
0001B0	E2D7D9D6C7D9C1D4			64		DC CL39'SPROGRAM STARTS WITH ILLEGAL DELIMITER.'	00067001
				65 *			00068001
0001D7	3C0300150C240022			66	W012	DC X'3C0300150C240022001A22'	00069001
0001E2	E6E3E6D640C1D7D6			67		DC CL50'WTWO APOSTROPHES AFTER . FIRST APOSTROPHE DELETED.'	00070001
				68 *			00071001
000214	3E0300310C24003E			69	W013	DC X'3E0300310C24003E00003E'	00072001
00021F	E6C1D7D6E2E3D9D6			70		DC CL52'WAPOSTROPHE ASSUMED AFTER DELIMITER BEGINNING WITH X	00073001
						.'	00074001
				71 *			00075001
000253	470300180C240025			72	W014	DC X'470300180C240025002225'	00076001
00025E	E2C4C5D3C9D4C9E3			73		DC CL61'SDELIMITER BEGINNING WITH INVALID. FIRST APOSTROPHX	00077001
						E DELETED.'	00078001
				74 *			00079001
00029B	3400			75	W015	DC X'3400'	00080001
00029D	E6D4C9E2E2C9D5C7			76		DC CL51'WMISSING SEMICOLON AFTER 'CODE'. SEMICOLON ASSUMEX	00081001
						D.'	00082001
				77 *			00083001
0002D0	5A0500191224002C			78	W016	DC X'5A0500191224002C001B2CF00000001248'	00084001
0002E1	E2C9C4C5D5E3C9C6			79		DC CL74'SIDENTIFIER BEGINNING WITH CONTAINS INVALID CHARACX	00085001
						TER.IDENTIFIER DELETED.'	00086001
				80 *			00087001
00032B	3E00			81	W017	DC X'3E00'	00088001
00032D	E2D4D6D9C540E3C8			82		DC CL61'SMORE THAN 65535 SEMICOLONS. SEMICOLON COUNTER RESEX	00089001
						T TO ZERO.'	00090001
				83 *			00091001
00036A	2A00			84	W018	DC X'2A00'	00092001
00036C	E6C4C5D3C9D4C9E3			85		DC CL41'WDELIMITER 'COMMENT' IN ILLEGAL POSITION.'	00093001
				86 *			00094001
000395	6200			87	W020	DC X'6200'	00095001
000397	E3C2D3D6C3D2E26B			88	C	DC CL97'TBLOCKS, COMPOUND STATEMENTS, FOR STATEMENTS AND PRX	00096001
						OCEDURE DECLARATIONSNESTED TO TOO MANY LEVELS.'	00097001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				89	*		00098001
0003F8	2B03000A0C240017			90	W021	DC X'2B03000A0C240017001417'	00099001
000403	E2C4C5C3D3C1D9C1			91		DC CL33'SDECLARATOR IN ILLEGAL POSITION.'	00100001
				92	*		00101001
000424	1F00			93	W022	DC X'1F00'	00102001
000426	E3D4D6D9C540E3C8			94		DC CL30'TMORE THAN 255 PROGRAM BLOCKS.'	00103001
				95	*		00104001
000444	1700			96	W023	DC X'1700'	00105001
000446	E2E2E3D9C9D5C740			97		DC CL22'SSTRING POOL OVERFLOW.'	00106001
				98	*		00107001
00045C	3700			99	W024	DC X'3700'	00108001
00045E	E2C4C5D3C9D4C9E3			100		DC CL54'SDELIMITER ''CODE'' IN ILLEGAL POSITION. ''CODE'' DELETED.'	DX00109001
				101	*		00110001
000494	530300310CF00000			102	W025	DC X'530300310CF0000000153E'	00111001
00049F	E2E2D7C5C3C9C6C9			103		DC CL73'SSPECIFIER ''STRING'' OR ''LABEL'' IN ILLEGAL POSITION.SPECIFICATION DELETED.'	X00113001
				104	*		00114001
0004E8	430300090C240016			105	W026	DC X'430300090C240016002D16'	00115001
0004F3	E6D7C1D9C1D4C5E3			106		DC CL57'WPARAMETER MULTIPLY SPECIFIED. FIRST SPECIFICATION USED.'	X00117001
				107	*		00118001
00052C	550500091224001C			108	W027	DC X'550500091224001C00231CF00000001540'	00119001
00053D	E2D7C1D9C1D4C5E3			109		DC CL69'SPARAMETER MISSING FROM FORMAL PARAMETER LIST.SPECIFICATION IGNORED.'	X00121001
				110	*		00122001
000582	3E00			111	W028	DC X'3E00'	00123001
000584	E2C4C5D3C9D4C9E3			112		DC CL61'SDELIMITER ''VALUE'' IN ILLEGAL POSITION. ''VALUE'' PART DELETED.'	X00125001
				113	*		00126001
0005C1	2900			114	W029	DC X'2900'	00127001
0005C3	E6E2D7C5C3C9C6C9			115		DC CL40'WSPECIFICATION PART PRECEDES VALUE PART.'	00128001
				116	*		00129001
0005EB	2D0300090C240016			117	W030	DC X'2D0300090C240016001716'	00130001
0005F6	E6D7C1D9C1D4C5E3			118		DC CL35'WPARAMETER REPEATED IN VALUE PART.'	00131001
				119	*		00132001
000619	660500391224004C			120	W031	DC X'660500391224004C00004CF0000000194D'	00133001
00062A	E6D3C5C6E340D7C1			121		DC CL86'WLEFT PARENTHESIS NOT FOLLOWED BY / AFTER ARRAY IDENTIFIER .SUBSCRIPT BRACKET ASSUMED.'	X00135001
				122	*		00136001
000680	5C05003512240048			123	W032	DC X'5C0500351224004800048F00000001349'	00137001
000691	E2D4C9E2E2C9D5C7			124		DC CL76'SMISSING RIGHT PARENTHESIS IN BOUND PAIR LIST OF ARRAY .DECLARATION DELETED.'	X00139001
				125	*		00140001
0006DD	440300370C240044			126	W033	DC X'440300370C240044000044'	00141001
0006E8	E3D4D6D9C540E3C8			127		DC CL58'TMORE THAN 16 DIMENSIONS OR COMPONENTS IN DECLARATION OF .'	X00142001
				128	*		00143001
000722	6805000D12240020			129	W034	DC X'6805000D1224002002320F00000002444'	00144001
000733	E2C1D9D9C1E840E2			130		DC CL88'SARRAY SEGMENT NOT FOLLOWED BY SEMICOLON OR COMMA.CHARACTERS TO NEXT SEMICOLON DELETED.'	X00147001
				131	*		00148001
00078B	3900			132	W035	DC X'3900'	00149001
00078D	E6C9D3D3C5C7C1D3			133		DC CL56'WILLEGAL PERIOD IN ARRAY OR SWITCH LIST. PERIOD DELETED.'	X00151001
				134	*		00152001
0007C5	360300290C240036			135	W036	DC X'360300290C240036000036'	00153001
0007D0	E3D4D6D9C540E3C8			136		DC CL44'TMORE THAN 15 PARAMETERS IN DECLARATION OF .'	00154001
				137	*		00155001
0007FC	6805003012240043			138	W037	DC X'6805003012240043000043F00000002444'	00156001
00080D	E2E2C5D4C9C3D6D3			139		DC CL88'SSEMICOLON MISSING AFTER FORMAL PARAMETER LIST OF .CHARACTERS TO NEXT SEMICOLON DELETED.'	X00157001
				140	*		00158001
000865	2B00			141	W038	DC X'2B00'	00159001
000867	E3E3D6D640D4C1D5			142		DC CL42'TTOO MANY IDENTIFIERS DECLARED IN A BLOCK.'	00160001
				143	*		00161001
000891	79048400F00390F			144	W039	DC X'79048400F00390FF00000003049'	00162001
00089F	E240D4C9E2E2C9D5			145		DC CL108'S MISSING ''END'' BRACKETS. OPEN BLOCKS, COMPOUND STATEMENTS,FOR STATEMENTS AND PROCEDURE DECLARATIONS CLOXED.SED.'	X00163001
				146	*		00164001
00090B	1F00			147	W041	DC X'1F00'	00165001
00090D	E3D4D6D9C540E3C8			148		DC CL30'TMORE THAN 255 FOR STATEMENTS.'	00166001
				149	*		00167001
00092B	3A00			150	W042	DC X'3A00'	00168001
00092D	E67DC2C5C7C9D57D			151		DC CL57'W''BEGIN'' PRECEDES PRECOMPILED PROCEDURE. ''BEGIN'' DELETED.'	X00169001
				152	*		00170001
000966	5E0300300CF00000			153	W043	DC X'5E0300300CF0000000213D'	00171001
000971	E2C5D8E4C1D340D5			154		DC CL84'SEQUAL NUMBER OF ''BEGIN'' AND ''END'' BRACKETS FOLLOWS.ND.REMAINING PART OF PROGRAM IGNORED.'	X00172001
				155	*		00173001
0009C5	1A00			156	W044	DC X'1A00'	00174001
0009C7	E3D5D640E2D6E4D9			157		DC CL25'TNO SOURCE PROGRAM FOUND.'	00175001
				158	*		00176001
0009E0	4003000A0C240017			159	W045	DC X'4003000A0C240017002917'	00177001
0009EB	E2C9C4C5D5E3C9C6			160		DC CL54'SIDENTIFIER MULTIPLY DECLARED. LAST DECLARATION USED.'	X00178001
				161	*		00179001
000A21	300300230C240030			162	W045B	DC X'300300230C240030000030'	00180001
000A2C	E2C9D3D3C5C7C1D3			163		DC CL38'SILLEGAL CALL BY VALUE OF IDENTIFIER .'	00181001
				164	*		00182001
				165	*	DIRECTORY MESSAGES, INITIATION PHASE	00183001
				166	*		00184001
				167	W200	EQU *	00185001
000A52	380300100C84001D			168	W046	DC X'380300100C84001D001B1D'	00186001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000A5D	E6D6D7E3C9D6D540			169	DC	CL46'WOPTION PARAMETER INVALID. PARAMETER IGNORED.'	00194001
				170	*		00195001
		00A8B		171	W201	EQU *	00196001
000A8B	2D03000B0C840018			172	W047	DC X'2D03000B0C840018001518'	00197001
000A96	E3C4C440C3C1D9C4			173	DC	CL35'TDD CARD FOR INCORRECT OR MISSING.'	00198001
				174	*		00199001
		00AB9		175	W202	EQU *	00200001
000AB9	4100			176	W048	DC X'4100'	00201001
000ABB	E6C4C440C3C1D9C4			177	DC	CL64'WDD CARD FOR SYSLIN INCORRECT OR MISSING. OPTION NOX	00202001
						LOAD ASSUMED.'	00203001
				178	*		00204001
		00AFB		179	W203	EQU *	00205001
000AFB	4300			180	W049	DC X'4300'	00206001
000AFD	E6C4C440C3C1D9C4			181	DC	CL66'WDD CARD FOR SYSPUNCH INCORRECT OR MISSING. OPTION X	00207001
						NODECK ASSUMED.'	00208001
				182	*		00209001
		00B3F		183	W204	EQU *	00210001
000B3F	2A00			184	W050	DC X'2A00'	00211001
000B41	E3C2D3D6C3D2E2C9			185	DC	CL41'TBLOCKSIZE SPECIFIED FOR SYSIN INCORRECT.'	00212001
				186	*		00213001
		00B6A		187	W205	EQU *	00214001
000B6A	480300170C840024			188	W051	DC X'480300170C840024002424'	00215001
000B75	E6C2D3D6C3D2E2C9			189	DC	CL62'WBLOCKSIZE SPECIFIED FOR INCORRECT. UNBLOCKED OUTP	00216001
						UT ASSUMED.'	00217001
				190	*		00218001
		00BB3		191	W206	EQU *	00219001
000BB3	4200			192	W052	DC X'4200'	00220001
000BB5	E6E3D6D640D4C1D5			193	DC	CL65'WTOO MANY OPTION PARAMETER ERRORS. SUBSEQUENT PARAM	00221001
						ETERS IGNORED.'	00222001
				194	*		00223001
		00BF6		195	W207	EQU *	00224001
000BF6	2700			196	W053	DC X'2700'	00225001
000BF8	E6D7D6E2E2C9C2D3			197	DC	CL38'WPOSSIBLE ERROR IN DD NAMES PARAMETER.'	00226001
				198	*		00227001
		00C1E		199	W208	EQU *	00228001
000C1E	2D00			200	W054	DC X'2D00'	00229001
000C20	E6E2C9E9C540D7C1			201	DC	CL44'WSIZE PARAMETER INVALID. SIZE 45056 ASSUMED.'	00230001
				202	*		00231001
				203	*	OTHER DIRECTORY MESSAGES	00232001
				204	*		00233001
		00C4C		205	W209	EQU *	00234001
000C4C	460400360FF00000			206	W055	DC X'460400360FF00000840046000046'	00235001
000C5A	E3C3D6D4D7C9D3C1			207	DC	CL57'TCOMPILATION UNSUCCESSFUL DUE TO PROGRAM INTERRUPT. X	00236001
						PSW .'	00237001
				208	*		00238001
		00C93		209	W056	EQU *	00239001
		00C93		210	W210	EQU *	00240001
000C93	300300230C840030			211	DC	X'300300230C840030000030'	00241001
000C9E	E3E4D5D9C5C3D6E5			212	DC	CL38'TUNRECOVERABLE I/O ERROR ON DATA SET .'	00242001
				213	*		00243001
		00CC4		214	W057	EQU *	00244001
		00CC4		215	W211	EQU *	00245001
000CC4	D7D9D6C7D9C1D440			216	DC	CL56'PROGRAM INTERRUPT IN ERROR MESSAGE EDITING ROUTINE. X	00246001
						PSW '	00247001
				217	*		00248001
		00CFC		218	W058	EQU *	00249001
000CFC	1200			219	W212	DC X'1200'	00250001
000CFE	E3E3D6D640D4C1D5			220	DC	CL17'TTOO MANY ERRORS.'	00251001
				221	*		00252001
		00D0F		222	W059	EQU *	00253001
000D0F	2800			223	W213	DC X'2800'	00254001
000D11	E3C9D5E3C5D9D5C1			224	DC	CL39'TINTERNAL OVERFLOW OF IDENTIFIER TABLE.'	00255001
				225	*		00256001
		00D38		226	W060	EQU *	00257001
000D38	3903002D0C84003A			227	W214	DC X'3903002D0C84003A00003A'	00258001
000D43	E2C4C1E3C140E2E3			228	DC	CL48'SDATA STORAGE AREA EXCEEDED, PROGRAM BLOCK NO. .'	00259001
				229	*		00260001
		00D73		230	W215	EQU *	00261001
000D73	1A00			231	W061	DC X'1A00'	00262001
000D75	E3E2D6E4D9C3C540			232	DC	CL25'TSOURCE PROGRAM TOO LONG.'	00263001
				233	*		00264001
000D8E	2600			234	W216	DC X'2600'	00265001
000D90	E2E3D6D640D4C1D5			235	DC	CL37'STOO MANY LABELS. LABEL NUMBER RESET.'	00266001
				236	*		00267001
000DB5	000000						
000DB8				237	DC	0F'0'	00268001
				238	*		00269001
				239	*	ADDRESS TABLE FOR WEMPOOL1	00270001
				240	*		00271001
000DB8	00000000			241	IEX21M01	DC A(0)	00272001
000DBC	00000000			242	DC	A(W001)	00273001
000DC0	0000001D			243	DC	A(W002)	00274001
000DC4	0000003F			244	DC	A(W003)	00275001
000DC8	0000006F			245	DC	A(W004)	00276001
000DCC	00000089			246	DC	A(W005)	00277001
000DD0	000000C9			247	DC	A(W006)	00278001
000DD4	000000EF			248	DC	A(W007)	00279001
000DD8	00000140			249	DC	A(W008)	00280001
000DDC	00000000			250	DC	A(0)	00281001
000DE0	00000176			251	DC	A(W010)	00282001
000DE4	000001AE			252	DC	A(W011)	00283001
000DE8	000001D7			253	DC	A(W012)	00284001
000DEC	00000214			254	DC	A(W013)	00285001
000DF0	00000253			255	DC	A(W014)	00286001
000DF4	0000029B			256	DC	A(W015)	00287001
000DF8	000002D0			257	DC	A(W016)	00288001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	
							X390 3.1.04 2012/08/17 13.13
000DFC	0000032B			258	DC	A(W017)	00289001
000E00	0000036A			259	DC	A(W018)	00290001
000E04	00000000			260	DC	A(0)	00291001
000E08	00000395			261	DC	A(W020)	00292001
000E0C	000003F8			262	DC	A(W021)	00293001
000E10	00000424			263	DC	A(W022)	00294001
000E14	00000444			264	DC	A(W023)	00295001
000E18	0000045C			265	DC	A(W024)	00296001
000E1C	00000494			266	DC	A(W025)	00297001
000E20	000004E8			267	DC	A(W026)	00298001
000E24	0000052C			268	DC	A(W027)	00299001
000E28	00000582			269	DC	A(W028)	00300001
000E2C	000005C1			270	DC	A(W029)	00301001
000E30	000005EB			271	DC	A(W030)	00302001
000E34	00000619			272	DC	A(W031)	00303001
000E38	00000680			273	DC	A(W032)	00304001
000E3C	000006DD			274	DC	A(W033)	00305001
000E40	00000722			275	DC	A(W034)	00306001
000E44	0000078B			276	DC	A(W035)	00307001
000E48	000007C5			277	DC	A(W036)	00308001
000E4C	000007FC			278	DC	A(W037)	00309001
000E50	00000865			279	DC	A(W038)	00310001
000E54	00000891			280	DC	A(W039)	00311001
000E58	00000000			281	DC	A(0)	00312001
000E5C	0000090B			282	DC	A(W041)	00313001
000E60	0000092B			283	DC	A(W042)	00314001
000E64	00000966			284	DC	A(W043)	00315001
000E68	000009C5			285	DC	A(W044)	00316001
000E6C	000009E0			286	DC	A(W045)	00317001
000E70	00000000			287	DC	A(0)	00318001
000E74	00000A21			288	DC	A(W045B)	00319001
000E78	00000A52			289	DC	A(W046)	00320001
000E7C	00000A8B			290	DC	A(W047)	00321001
000E80	00000AB9			291	DC	A(W048)	00322001
000E84	00000AFB			292	DC	A(W049)	00323001
000E88	00000B3F			293	DC	A(W050)	00324001
000E8C	00000B6A			294	DC	A(W051)	00325001
000E90	00000BB3			295	DC	A(W052)	00326001
000E94	00000BF6			296	DC	A(W053)	00327001
000E98	00000C1E			297	DC	A(W054)	00328001
000E9C	00000C4C			298	DC	A(W055)	00329001
000EA0	00000C93			299	DC	A(W056)	00330001
000EA4	00000CC4			300	DC	A(W057)	00331001
000EA8	00000CFC			301	DC	A(W058)	00332001
000EAC	00000D0F			302	DC	A(W059)	00333001
000EB0	00000D38			303	DC	A(W060)	00334001
000EB4	00000D73			304	DC	A(W061)	00335001
000EB8	00000D8E			305	DC	A(W216)	00336001
				306	*		00337001
				307	END		00338001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
IEX21M01	4	00000DB8	00000001	A	A		241	30			
W001	2	00000000	00000001	X	X		36	242			
W002	2	0000001D	00000001	X	X		39	243			
W003	11	0000003F	00000001	X	X		42	244			
W004	2	0000006F	00000001	X	X		45	245			
W005	2	00000089	00000001	X	X		48	246			
W006	2	000000C9	00000001	X	X		51	247			
W007	17	000000EF	00000001	X	X		54	248			
W008	2	00000140	00000001	X	X		57	249			
W010	11	00000176	00000001	X	X		60	251			
W011	2	000001AE	00000001	X	X		63	252			
W012	11	000001D7	00000001	X	X		66	253			
W013	11	00000214	00000001	X	X		69	254			
W014	11	00000253	00000001	X	X		72	255			
W015	2	0000029B	00000001	X	X		75	256			
W016	17	000002D0	00000001	X	X		78	257			
W017	2	0000032B	00000001	X	X		81	258			
W018	2	0000036A	00000001	X	X		84	259			
W020	2	00000395	00000001	X	X		87	261			
W021	11	000003F8	00000001	X	X		90	262			
W022	2	00000424	00000001	X	X		93	263			
W023	2	00000444	00000001	X	X		96	264			
W024	2	0000045C	00000001	X	X		99	265			
W025	11	00000494	00000001	X	X		102	266			
W026	11	000004E8	00000001	X	X		105	267			
W027	17	0000052C	00000001	X	X		108	268			
W028	2	00000582	00000001	X	X		111	269			
W029	2	000005C1	00000001	X	X		114	270			
W030	11	000005EB	00000001	X	X		117	271			
W031	17	00000619	00000001	X	X		120	272			
W032	17	00000680	00000001	X	X		123	273			
W033	11	000006DD	00000001	X	X		126	274			
W034	17	00000722	00000001	X	X		129	275			
W035	2	0000078B	00000001	X	X		132	276			
W036	11	000007C5	00000001	X	X		135	277			
W037	17	000007FC	00000001	X	X		138	278			
W038	2	00000865	00000001	X	X		141	279			
W039	14	00000891	00000001	X	X		144	280			
W041	2	0000090B	00000001	X	X		147	282			
W042	2	0000092B	00000001	X	X		150	283			
W043	11	00000966	00000001	X	X		153	284			
W044	2	000009C5	00000001	X	X		156	285			
W045	11	000009E0	00000001	X	X		159	286			
W045B	11	00000A21	00000001	X	X		162	288			
W046	11	00000A52	00000001	X	X		168	289			
W047	11	00000A8B	00000001	X	X		172	290			
W048	2	00000AB9	00000001	X	X		176	291			
W049	2	00000AFB	00000001	X	X		180	292			
W050	2	00000B3F	00000001	X	X		184	293			
W051	11	00000B6A	00000001	X	X		188	294			
W052	2	00000BB3	00000001	X	X		192	295			
W053	2	00000BF6	00000001	X	X		196	296			
W054	2	00000C1E	00000001	X	X		200	297			
W055	14	00000C4C	00000001	X	X		206	298			
W056	1	00000C93	00000001	U			209	299			
W057	1	00000CC4	00000001	U			214	300			
W058	1	00000CFC	00000001	U			218	301			
W059	1	00000D0F	00000001	U			222	302			
W060	1	00000D38	00000001	U			226	303			
W061	2	00000D73	00000001	X	X		231	304			
W216	2	00000D8E	00000001	X	X		234	305			

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No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T121M STEPNAME: IEX21M PROCSTEP: X390

Primary input: lines 1 to 338 of SYSD.ALGOLF.ASM(IEX21M)

SYSLIB library records read: 0

SYSUT1 work file size: 34408 bytes

SYSUT3 work file size: 27040 bytes

SYSLIN file records written: 75

TXA000I Return code 0, elapsed time 0.16 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX21M00 000EBC 4

**IEX30**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX30)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131305.RA000.T1X30.OBJECT
SYSPRINT	JES2.JOB09274.S00102
SYSUT1	SYS12230.T131305.RA000.T1X30.SYSUT1
SYSUT2	SYS12230.T131305.RA000.T1X30.SYSUT2
SYSUT3	SYS12230.T131305.RA000.T1X30.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				2 *			00002001
				3 *		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
				4 *			00004001
				5 *		FUNCTION/OPERATION -	00005001
				6 *		EXTERNAL NAMES OF IDENTIFIERS ARE REPLACED BY THE	00006001
				7 *		INTERNAL NAMES CONTAINED IN THE ITAB ENTRY OF THE	00007001
				8 *		IDENTIFIER, AND CONSTANTS ARE REPLACED BY INTERNAL NAMES	00008001
				9 *		CONSTRUCTED IN IEX30	00009001
				10 *		OBJECT CODE IS PRODUCED FROM THE CONSTANT POOL IF	00010001
				11 *		PARAMETERS DECK OR LOAD ARE SPECIFIED IN THE	00011001
				12 *		EXEC STATEMENT	00012001
				13 *		FOR STATEMENTS ARE CLASSIFIED FOR FURTHER USE BY IEX50	00013001
				14 *		THE SUBSCRIPT TABLE (SUTAB) AND THE LEFT VARIABLE TABLE	00014001
				15 *		(LVTAB) ARE CONSTRUCTED FOR FURTHER USE BY IEX40	00015001
				16 *		SOURCE PROGRAM ERRORS CAUSES GENERATION OF ERROR	00016001
				17 *		PATTERNS FOR FUTHER USE BY IEX31	00017001
				18 *			00018001
				19 *		ENTRY POINT - IEX30000 FROM IEX21000 VIA XCTL	00019001
				20 *			00020001
				21 *		INPUT -	00021001
				22 *		THE SOURCE PROGRAM MODIFICATION LEVEL 1 IS READ FROM	00022001
				23 *		SYSUT1	00023001
				24 *		THE IDENTIFIER TABLE (ITAB) IS READ FROM SYSUT3	00024001
				25 *			00025001
				26 *		OUTPUT -	00026001
				27 *		THE SOURCE PROGRAM MODIFICATION LEVEL 2 IS WRITTEN OUT	00027001
				28 *		ON SYSUT2	00028001
				29 *		OBJECT TXT RECORDS IS WRITTEN ON SYSLIN OR/AND SYSPUNCH	00029001
				30 *		IF THE PARAMETERS LOAD OR/AND DECK ARE SPECIFIED IN THE	00030001
				31 *		EXEC CARD	00031001
				32 *		THE SUBSCRIPT TABLE (SUTAB) IS WRITTEN OUT ON SYSUT3	00032001
				33 *		A LINEAR SUBSCRIPT EXPRESSION ENCOUNTED IN A FOR	00033001
				34 *		STATEMENT THAT IS OPTIMIZABLE IN REGARD TO SUBSCRIPTS	00034001
				35 *		WILL GENERATE AN ENTRY IN THIS TABLE	00035001
				36 *		THE LEFT VARIABLE TABLE (LVTAB) IS WRITTEN OUT ON	00036001
				37 *		SYSUT3. INTEGER LEFT VARIABLES ENCOUNTED IN FOR	00037001
				38 *		STATEMENT THAT IS OPTIMIZABLE IN REGARD TO SUBSCRIPTS	00038001
				39 *		WILL GENERATE AN ENTRY IN THIS TABLE	00039001
				40 *			00040001
				41 *		EXTERNAL ROUTINES -	00041001
				42 *		THE INTERRUPT ROUTINE OF IEX00 ARE USED FOR ALL	00042001
				43 *		INTERRUPTS EXCEPT FLOATING POINT OVERFLOW	00043001
				44 *			00044001
				45 *		EXITS - NORMAL -	00045001
				46 *		CONTROL IS ALWAYS GIVEN TO IEX31 BY MEANS OF XCTL	00046001
				47 *		EP=IEX31	00047001
				48 *			00048001
				49 *		TABLES/WORKAREAS -	00049001
				50 *		GROUP TABLE (GPTAB) CONSTRUCTED IN IEX11, USED TO	00050001
				51 *		DIAGNOSE BRANCHES INTO FOR STATEMENTS.	00051001
				52 *		SCOPE TABLE (SPTAB) CONSTRUCTED IN IEX11, USED TO CHECK	00052001
				53 *		SUBSCRIPT EXPRESSIONS FOR POSSIBLE OPTIMIZATION	00053001
				54 *		FOR STATEMENT TABLE (FSTAB) CONSTRUCTED IN IEX30	00054001
				55 *		COMPLETED IN IEX40 AND FINALLY USED IN IEX50, CONTAINS	00055001
				56 *		A CLASSIFICATION BYTE FOR EVERY FOR STATEMENT	00056001
				57 *		ERROR POOL CONSTRUCTED IN IEX30 AND USED IN IEX31,	00057001
				58 *		CONTAINS ERROR PATTERNS GENERATED FROM SOURCE PROGRAM	00058001
				59 *		ERRORS	00059001
				60 *		CONSTANT POOL INTERNAL TABLE IN IEX30. THE FIRST	00060001
				61 *		APPEARANCE OF A CONSTANT IN THE SOURCE STREAM GENERATES	00061001
				62 *		AN ENTRY IN THE TABLE. THE RELATIVE ADDRESS OF THE	00062001
				63 *		CONSTANT POOL ENTRY IS USED IN CONSTRUCTING THE	00063001
				64 *		INTERNAL NAME OF A CONSTANT CRITICAL VARIABLE TABLE	00064001
				65 *		(CRIDTAB) INTERNAL TABLE IN IEX30	00065001
				66 *		DURING THE TREATMENT OF A FOR STATEMENT THE TABLE	00066001
				67 *		CONTAINS ENTRIES CORRESPONDING TO THE IDENTIFIERS IN THE	00067001
				68 *		FOR LIST	00068001
				69 *			00069001
				70 *		NOTES -	00070001
				71 *		THE OPERATION OF THIS MODULE DOES NOT DEPEND ON ANY	00071001
				72 *		SPECIAL REPRESENTATION OF THE CHARACTER SET. THIS MODULE	00072001
				73 *		IS ONLY INTENDED TO BE EXECUTED IN CONNECTION WITH THE	00073001
				74 *		OTHER MODULES OF THE ALGOL COMPILER. IN PARTICULAR IT	00074001
				75 *		REQUIRES THE COMMON WORKAREA	00075001
				76 *			00076001
000000		00000	025F0	77	IEX30000	CSECT	00077001
				78 *			00078001
				79 *	R3	INPUT RECORD POINTER REGISTER	00079001
				80 *	R4	OUTPUT RECORD POINTER REGISTER	00080001
				81 *			00081001
				82 *		BIT PATTERNS	00082001
				83 *			00083001
00080				84	SARRAY	EQU X'80'	00084001
00040				85	SSWITCH	EQU X'40'	00085001
000FF				86	FF	EQU X'FF'	00086001
				87 *		SCALE FACTOR MASKS	00087001
00080				88	SFSIGN	EQU X'80'	00088001
00040				89	SFL0	EQU X'40'	00089001
00020				90	SF19	EQU X'20'	00090001
00010				91	SF	EQU X'10'	00091001
00060				92	SFDIGIT	EQU X'60'	00092001
000E0				93	SFLSIGN	EQU X'E0'	00093001
00008				94	PRECERR	EQU X'08'	00094001
				95 *		REAL CONSTANT EXCEEDS PRECISION	00095001
				96 *		CLASSIFICATION MASKS OF I/O STATUS ON SYSUT3	00096001
				97 *			00097001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		00080		98	READM	EQU X'80'	UNCHECKED READ OPERATION 00098001
		00040		99	WRITEM	EQU X'40'	UNCHECKED WRITE OPERATION 00099001
		00020		100	READC	EQU X'20'	CHECKED READ OPERATION 00100001
		00010		101	WRITEC	EQU X'10'	CHECKED WRITE OPERATION 00101001
				102	*		00102001
				103	*		00103001
				104	*	FOR STATEMENT CLASSIFICATION MASKS	00104001
		00080		105	NOCOUNT	EQU X'80'	COUNTING LOOP IMPOSSIBLE 00105001
		00040		106	NOSUOP	EQU X'40'	NO SUBSCRIPT OPTIMIZATION 00106001
		00020		107	OUTOFFOR	EQU X'20'	BRANCH OUT OF FOR STATEMENT 00107001
		000F0		108	NORMAL	EQU X'F0'	NORMAL LOOP 00108001
		00008		109	STEMP	EQU X'08'	STEP IN FORLIST 00109001
		00084		110	WHILEM	EQU X'84'	WHILE IN FOR LIST 00110001
				111	*		00111001
				112		IEXENTRY 'IEX30000 LEVEL 2.1 &SYSDATE &SYSTIME'	00112001
				113+	*		01-IEXEN
000000	47F0 F026		00026		B	38(,R15)	BRANCH AROUND ID 01-IEXEN
000004	21			115+	DC	AL1(33)	LENGTH OF IDENTIFIER 01-IEXEN
000005	C9C5E7F3F0F0F0F0			116+	DC	CL33'IEX30000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
							IDENTIFIER 01-IEXEN
				117	*		00113001
	R:ABC	00000		118		USING IEX30000,R10,R11,R12	00114001
000026	18AF			119	LR	R10,R15	00115001
000028	41B0 F800		00800	120	LA	R11,2048(,R15)	00116001
00002C	41B0 B800		00800	121	LA	R11,2048(,R11)	00117001
000030	41C0 B800		00800	122	LA	R12,2048(,R11)	00118001
000034	41C0 C800		00800	123	LA	R12,2048(,R12)	00119001
				124	*		00120001
	R:D	00000		125		USING WORKAREA,R13	00121001
				126	*		00122001
000038	4150 A5CC		005CC	127	LA	R5,TERM1	ERROR EXIT ADDR 00123001
00003C	5050 D090		00090	128	ST	R5,ERET	00124001
000040	4150 A4E0		004E0	129	LA	R5,L0MEGA6	PROVIDE EOD ADDR 00125001
000044	5050 D070		00070	130	ST	R5,EODUT1	FOR UT1 00126001
000048	D201 D09C BF54 0009C 01F54		01F54	131	MVC	SEMCNT,ZERO	ZERO SEMICOLON COUNTER 00127001
				132	*		00128001
				133		SPIE INTERRUPT,((1,7),9,11,12,15)	00129001
00004E	0700			134+	CNOP	0,4	ALIGN PICA TO FULLWORD BOUNDARY S 01-SPIE
000050	4510 A05A		0005A	135+	BAL	1,*+10	ADDRESS AND BYPASS THE PICA S 01-SPIE
000054	00			136+	DC	BL1'00000000'	PROGRAM MASKS 01-SPIE
000055	001F42			137+	DC	AL3(INTERUPT)	EXIT ROUTINE ADDRESS S 01-SPIE
000058	7F59			138+	DC	BL2'01111110101001'	+01-SPIE
							01-SPIE
00005A	0A0E			139+	SVC	14	THE INTERRUPT MASK BYTES 1 AND 2 01-SPIE
				140	*		00130001
00005C	5010 C160		02160	141	ST	R1,OLDSPIE	SAVE ADDR OF OLD PICA 00131001
				142	*		00132001
				143	*	ALLOCATE STORAGE FOR TABLESD	00133001
				144	*		00134001
000060	4800 BF76		01F76	145	LH	R0,KH4096	CONSTANT POOL SIZE 00135001
000064	5A00 D0EC		000EC	146	A	R0,ITAB30S	ITABSIZE 00136001
000068	5A00 D0E0		000E0	147	A	R0,SRCE1S	INPUT BUFFER SIZE 00137001
00006C	5A00 D0E0		000E0	148	A	R0,SRCE3S	OUTPUT BUFFER SIZE 00138001
000070	5A00 D0E0		000E0	149	A	R0,SRCE3S	OUTPUT BUFFER SIZE 00139001
000074	5A00 D0F0		000F0	150	A	R0,CRIDTABS	CRIDTAB SIZE 00140001
000078	5A00 D0F4		000F4	151	A	R0,SUTAB30S	SUTAB SIZE 00141001
00007C	5A00 D0F8		000F8	152	A	R0,LVTAB30S	LVTAB SIZE 00142001
000080	4A00 BF60		01F60	153	AH	R0,KH8	RECORD KEY LENGTH 00143001
000084	5000 C164		02164	154	ST	R0,TABSIZE	SAVE TABLE AREA LENGTH 00144001
				155	*		00145001
				156		GETMAIN R,LV=(0)	ALLOCATE STORAGE 00146001
				157+	*	OS/VS2 RELEASE 4 VERSION -- 10/21/75	01-GETMA
000088	4510 A08C		0008C	158+	BAL	1,*+4	INDICATE GETMAIN 01-GETMA
00008C	0A0A			159+	SVC	10	ISSUE GETMAIN SVC 01-GETMA
				160	*		00147001
00008E	4150 A530		00530	161	LA	R5,TERM2	ERROR RETURN ADDR 00148001
000092	5050 D090		00090	162	ST	R5,ERET	00149001
000096	5010 C0D4		020D4	163	ST	R1,ZKOP00L	CONSTANT POOL START ADDR 00150001
00009A	4A10 BF76		01F76	164	AH	R1,KH4096	00151001
00009E	5010 BFF4		01FF4	165	ST	R1,ZIBSTAO	ITAB START ADDR 00152001
0000A2	5A10 D0EC		000EC	166	A	R1,ITAB30S	00153001
0000A6	5010 BFCC		01FCC	167	ST	R1,ZIBREAD	SECOND INPUT BUFFER START ADDR 00154001
0000AA	5A10 D0E0		000E0	168	A	R1,SRCE1S	00155001
0000AE	5010 BFD0		01FD0	169	ST	R1,ZOBWORK	OUTPUT BUFFER START ADDR 00156001
0000B2	5A10 D0E0		000E0	170	A	R1,SRCE3S	00157001
0000B6	5010 BFD4		01FD4	171	ST	R1,ZOBWRITE	OUTPUT BUFFER START ADDR 00158001
0000BA	5A10 D0E0		000E0	172	A	R1,SRCE3S	00159001
0000BE	5010 C0D0		020D0	173	ST	R1,ZFOCRI	CRIDTAB START ADDR 00160001
0000C2	5A10 D0F0		000F0	174	A	R1,CRIDTABS	00161001
0000C6	5010 BF9C		01F9C	175	ST	R1,SUSTRT	SUTAB START ADDR 00162001
0000CA	5A10 D0F4		000F4	176	A	R1,SUTAB30S	00163001
0000CE	4110 1004		00004	177	LA	R1,4(,R1)	00164001
0000D2	5010 BFB8		01FB8	178	ST	R1,LVSTRT	LVTAB START ADDR 00165001
				179	*		00166001
				180	*	INITIALIZE INPUT BUFFERS	00167001
				181	*		00168001
0000D6	5830 D0C8		000C8	182	L	R3,SRCE1ADD	ADDR OF FIRST INPUT BUFFER 00169001
0000DA	5030 BFC8		01FC8	183	ST	R3,ZIBRUN	00170001
0000DE	9140 D082		00082	184	TM	COMPLGS+2,SPIC	SOURCE PROG IN STORAGE ? 00171001
0000E2	4710 A0EA		000EA	185	BO	INCORE	YES 00172001
0000E6	45F0 B346		01346	186	BAL	R15,IChAI	READ FIRST RECORD 00173001
				187	*		00174001
				188	*	ITAB POINTERS INITIALIZATION	00175001
				189	*		00176001
0000EA	5810 BFF4		01FF4	190	INCORE	L R1,ZIBSTAO	ITAB START ADDR 00177001
0000EE	D2FF 1000 C4AC 00000 024AC		024AC	191	MVC	0(256,R1),FIXITAB	INSERT ITAB FIXED PART 00178001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0000F4	D23E 1100	C5AC 00100	025AC	192	MVC	256(FIXITABL-256,R1),FIXITAB+256	00179001
0000FA	4150 1134		00134	193	LA	R5, FIXITABL-11(,R1)	00180001
0000FE	5050 BFFC		01FFC	194	ST	R5,ZCURITEN	00181001
000102	4150 500B		0000B	195	LA	R5,11(,R5)	00182001
000106	5050 C000		02000	196	ST	R5,ZITREC	00183001
00010A	5A10 D0EC		000EC	197	A	R1,ITAB30S	00184001
00010E	5010 C004		02004	198	ST	R1,ZITEND	00185001
000112	5810 D06C		0006C	199	L	R1,AUT3DCB	00186001
				200 *			00187001
				201	NOTE (1)	ID OF LAST ITAB BLOCK	00188001
000116	58F0 1054		00054	202+	L	15,84(0,1)	01-NOTE
00011A	05EF			203+	BALR	14,15	LINK TO NOTE ROUTINE
				204 *			00189001
00011C	5010 D0D0		000D0	205	ST	R1,SULTSTRT	00190001
000120	5010 C0B8		020B8	206	ST	R1,NOTEW	00191001
000124	5850 D06C		0006C	207	L	R5,AUT3DCB	00192001
				208 *			00193001
				209	CLOSE ((R5),REREAD),TYPE=T	TEMPORARY CLOSE	00194001
000128				210+	CNOP	0,4	ALIGN LIST TO FULLWORD
000128	4510 A130		00130	211+	BAL	1,*+8	LOAD REGI W/LIST ADDR
00012C	00000000			212+	DC	A(0)	OPTION AND DCB ADDRESS
000130	5051 0000		00000	213+	ST	R5,0(1,0)	STORE DCB ADDRESS
000134	9290 1000	00000		214+	MVI	0(1),144	MOVE IN OPTION BYTE
000138	0A17			215+	SVC	23	ISSUE TCLOSE SVC
				216 *			00195001
00013A	45F0 B4BC		014BC	217	BAL	R15,ITABREAD	00196001
				218 *			00197001
				219 *		INITIALIZE OUTPUT BUFFERS	00198001
				220 *			00199001
00013E	5840 BFD0		01FD0	221	L	R4,ZOBWORK	00200001
000142	5850 D0E0		000E0	222	L	R5,SRCE3S	00201001
000146	4B50 BF68		01F68	223	SH	R5,KH12	00202001
00014A	1A54			224	AR	R5,R4	00203001
00014C	5050 BFEC		01FEC	225	ST	R5,ZFILE9	00204001
000150	4150 5003		00003	226	LA	R5,3(,R5)	00205001
000154	5050 BFE8		01FE8	227	ST	R5,ZFILE6	00206001
000158	4150 5001		00001	228	LA	R5,1(,R5)	00207001
00015C	5050 BFE4		01FE4	229	ST	R5,ZFILE5	00208001
000160	4150 5002		00002	230	LA	R5,2(,R5)	00209001
000164	5050 BFE0		01FE0	231	ST	R5,ZFILE3	00210001
000168	4150 5001		00001	232	LA	R5,1(,R5)	00211001
00016C	5050 BFD0		01FDC	233	ST	R5,ZFILE2	00212001
000170	4150 5001		00001	234	LA	R5,1(,R5)	00213001
000174	5050 BFD8		01FD8	235	ST	R5,ZFILE1	00214001
000178	0640			236	BCTR	R4,0	00215001
				237 *			00216001
				238 *		CRIDTAB AND FSTAB INITIALIZATION	00217001
				239 *			00218001
00017A	5810 C0D0		020D0	240	L	R1,ZFOCRI	00219001
00017E	4B10 BF62		01F62	241	SH	R1,KH9	00220001
000182	5010 C0C4		020C4	242	ST	R1,PFANO	00221001
000186	5010 C0C0		020C0	243	ST	R1,PPA	00222001
00018A	5A10 D0F0		000F0	244	A	R1,CRIDTABS	00223001
00018E	5010 C0C8		020C8	245	ST	R1,PFAMAX	00224001
000192	9200 D478	00478		246	MVI	ZFOSTA,0	00225001
000196	D2FD D479	D478 00479	00478	247	MVC	ZFOSTA+1(254),ZFOSTA	00226001
00019C	4150 D477		00477	248	LA	R5,FSTAB-1	00227001
0001A0	5050 C0CC		020CC	249	ST	R5,ZFSPTR	00228001
				250 *			00229001
				251 *		SUTAB INITIALIZATION	00230001
				252 *			00231001
0001A4	5810 BF9C		01F9C	253	L	R1,SUSTRT	00232001
0001A8	D203 1000	BFA0 00000	01FA0	254	MVC	0(4,R1),SUKEY	00233001
0001AE	4B10 BF64		01F64	255	SH	R1,KH10	00234001
0001B2	5010 BF94		01F94	256	ST	R1,ZSUDAD	00235001
0001B6	5010 BF90		01F90	257	ST	R1,ZSUTAPO	00236001
0001BA	5A10 D0F4		000F4	258	A	R1,SUTAB30S	00237001
0001BE	5010 BF98		01F98	259	ST	R1,ZSUTMAX	00238001
				260 *			00239001
				261 *		LVTAB INITIALIZATION	00240001
				262 *			00241001
0001C2	5810 BFB8		01FB8	263	L	R1,LVSTRT	00242001
0001C6	D203 1000	BFB0 00000	01FBC	264	MVC	0(4,R1),LVKEY	00243001
0001CC	5010 BFAC		01FAC	265	ST	R1,ZLESTA	00244001
0001D0	5010 BFB0		01FB0	266	ST	R1,ZLEVA	00245001
0001D4	5A10 D0F8		000F8	267	A	R1,LVTAB30S	00246001
0001D8	5010 BFB4		01FB4	268	ST	R1,ZLEMAX	00247001
				269 *			00248001
				270 *		LITERAL HANDLING INITIALIZATION	00249001
				271 *			00250001
0001DC	9102 D080	00080		272	TM	COMPLFGS,LNG	00251001
0001E0	4770 A1F4		001F4	273	BNZ	INLIT2	00252001
0001E4	4150 0004		00004	274	LA	R5,4	00253001
0001E8	5050 C128		02128	275	ST	R5,LREAL	00254001
0001EC	4150 0007		00007	276	LA	R5,7	00255001
0001F0	5050 C12C		0212C	277	ST	R5,NREAL	00256001
				278 *			00257001
				279 *		CONSTANT POOL INITIALIZATION	00258001
				280 *			00259001
0001F4	5810 C0D4		020D4	281	L	R1,ZKOPOL	00260001
0001F8	4850 BF76		01F76	282	LH	R5,KH4096	00261001
0001FC	1A51			283	AR	R5,R1	00262001
0001FE	5050 C0D8		020D8	284	ST	R5,ZKOPEND	00263001
000202	5A10 D0A4		000A4	285	A	R1,PRPT	00264001
000206	5010 C118		02118	286	ST	R1,ZWP	00265001
00020A	5010 C11C		0211C	287	ST	R1,ZDWP	00266001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00020E	5010	C0DC	020DC	288	ST	R1,ZLITSTA	START ADDR OF ACTIVE POOL 00267001
000212	4A10	C0E6	020E6	289	AH	R1, TXTPUT	TXN OUTPUT PTR 00268001
000216	5010	C0E0	020E0	290	ST	R1,ZTEXTCO	00269001
00021A	D201	C0E4	D09E 020E4	0009E	MVC	ZKBNMAX(2),PBN	PREPARE CONSTANT POOL EXCHANGE 00270001
000220	D201	D0A0	BF54 000A0	01F54	MVC	KBN(2),ZERO	CURRENT POOL NUMBER 00271001
				293	*		00272001
				294	*	START READ INTO ALTERNATE INPUT BUFFER IF NECESSARY	00273001
				295	*		00274001
000226	9140	D082	00082	296	TM	COMPFLGS+2,SPIC	SOURCE PROG IN STORAGE ? 00275001
00022A	4710	A232	00232	297	BO	INITEND	YES 00276001
00022E	45F0	B2EE	012EE	298	BAL	R15, ICHA	00277001
000232	94F7	D082	00082	299	INITEND	NI COMPFLGS+2,255-NOSC	SET SEMICOLON COUNTER VALID 00278001
000236	9104	D080	00080	300	TM	COMPFLGS,PROC	PRECOMPILED PROCEDURE ? 00279001
00023A	4780	A24A	0024A	301	BZ	GENTEST	NO 00280001
00023E	45F0	B352	01352	302	BAL	R15, ITABMOVE	YES, GET ITAB RECORD 00281001
000242	47F0	A24A	0024A	303	B	GENTEST	00282001
				304	*		00283001
000246	4130	3001	00001	305	GENTEST1	LA R3,1(,R3)	00284001
00024A	1B22			306	GENTEST	SR R2,R2	00285001
00024C	DD4F	3000	C278 00000	02278	TRT	0(80,R3),GENER	00286001
000252	47F2	A252	00252	308	B	*(R2)	00287001
000256	47F0	A7DA	007DA	309	B	LETTER	+ 04 00288001
00025A	47F0	B6B0	016B0	310	B	DIGIT19	+ 08 00289001
00025E	47F0	B754	01754	311	B	DIGIT0	+ 12 00290001
000262	47F0	B7D0	017D0	312	B	DECP0IN	+ 16 00291001
000266	47F0	B86C	0186C	313	B	SCAFAC	+ 20 00292001
00026A	47F0	A2BE	002BE	314	B	QUOTE	+ 24 00293001
00026E	47F0	A314	00314	315	B	BETA	+ 28 00294001
000272	47F0	A350	00350	316	B	PIPHI	+ 32 00295001
000276	47F0	A3B0	003B0	317	B	FOR	+ 36 00296001
00027A	47F0	A3F2	003F2	318	B	EPSILON	+ 40 00297001
00027E	47F0	A418	00418	319	B	ETA	+ 44 00298001
000282	47F0	A42C	0042C	320	B	DO	+ 48 00299001
000286	47F0	A44E	0044E	321	B	WHILE	+ 52 00300001
00028A	47F0	A47A	0047A	322	B	SEMIDEL	+ 56 00301001
00028E	47F0	A656	00656	323	B	OPBRACK	+ 60 00302001
000292	47F0	A6FC	006FC	324	B	COMMA	+ 64 00303001
000296	47F0	A75E	0075E	325	B	CLOBRACK	+ 68 00304001
00029A	47F0	A64E	0064E	326	B	ZETA	+ 72 00305001
00029E	47F0	A628	00628	327	B	GAMMA	+ 76 00306001
0002A2	47F0	A4C0	004C0	328	B	OMEGA	+ 80 00307001
0002A6	47F0	A430	00430	329	B	OTHOP	+ 84 00308001
0002AA	47F0	A842	00842	330	B	RHO	+ 88 00309001
0002AE	47F0	A45A	0045A	331	B	STEP	+ 92 00310001
0002B2	47F0	A4B2	004B2	332	B	ARRAY	+ 96 00311001
0002B6	47F0	A4AA	004AA	333	B	SWITCH	+100 00312001
0002BA	47F0	A466	00466	334	B	DIPOW	+104 00313001
				335	*		00314001
				336	*	STRING OR LOGICAL VALUE	00315001
				337	*		00316001
0002BE	5940	BFE4	01FE4	338	QUOTE	C R4,ZFILE5	OUTPUT BUFFER EXCHANGE ? 00317001
0002C2	4720	A2E0	002E0	339	BH	LQUOT2	YES 00318001
0002C6	D204	4001	3001 00001	00001	340	LQUOT3	MVC 1(5,R4),1(R3) 00319001
0002CC	4130	3006	00006	341	LA	R3,6(,R3)	00320001
0002D0	952E	3000	00000	342	CLI	0(R3),X'2E'	FOLLOWS AN OPERATOR ? 00321001
0002D4	47B0	A2E8	002E8	343	BNL	LQUOT1	PROBABLY NOT, MIGHT BE ZETA 00322001
0002D8	4140	4005	00005	344	LQUOT5	LA R4,5(,R4)	STEP OUTPUT PTR 00323001
0002DC	47F0	A24A	0024A	345	B	GENTEST	BRANCH TO GENTEST 00324001
				346	*		00325001
0002E0	45F0	B1AC	011AC	347	LQUOT2	BAL R15, OUCHA	BRANCH TO SUBROUTINE OUCHA 00326001
0002E4	47F0	A2C6	002C6	348	B	LQUOT3	BRANCH TO LQUOT3 00327001
				349	*		00328001
0002E8	952F	3000	00000	350	LQUOT1	CLI 0(R3),XFZETA	ZETA ? 00329001
0002EC	4770	A2FC	002FC	351	BNE	LQUOT4	NO, GIVE ERROR MESSAGE 00330001
0002F0	45F0	B2EE	012EE	352	BAL	R15, ICHA	CHANGE INPUT BUFFER 00331001
0002F4	952E	3000	00000	353	CLI	0(R3),X'2E'	FOLLOWS OPERATOR ? 00332001
0002F8	4740	A2D8	002D8	354	BL	LQUOT5	YES 00333001
0002FC	D205	C081	C076 02081	02076	355	LQUOT4	MVC ZIDEX(6),ZPOINT 00334001
000302	4180	C087	02087	356	LA	R8, ZIDEX+6	00335001
000306	4100	C08D	0208D	357	LA	R0, ZIDEX+12	00336001
00030A	D201	C014	BF78 02014	01F78	358	MVC	ZERRONU, INVOP 00337001
000310	47F0	B4CE	014CE	359	B	INCOROP	INCORRECT OPERAND ERROR ROUTINE 00338001
				360	*		00339001
				361	*	PROGRAM BLOCK BEGIN	00340001
				362	*		00341001
000314	95F0	A7DB	007DB	363	BETA	CLI LETTER+1,X'F0'	PROCEDURE BLOCK TO READ ? 00342001
000318	4780	A348	00348	364	BE	LBETA4	YES 00343001
00031C	45F0	B352	01352	365	BETA1	BAL R15, ITABMOVE	READ ITAB BLOCK 00344001
000320	5940	BFDC	01FDC	366	LBETA2	C R4,ZFILE2	COMPARE ZOUT WITH ZFILE(2) 00345001
000324	4720	A340	00340	367	BH	LBETA1	BRANCH IF HIGH 00346001
000328	D201	4001	3000 00001	00001	368	LBETA3	MVC 1(2,R4),0(R3) 00347001
00032E	4140	4002	00002	369	LA	R4,2(,R4)	00348001
000332	D201	C074	3002 02074	00002	370	MVC	ZIGN(2),2(R3) 00349001
000338	4130	3004	00004	371	LA	R3,4(,R3)	IGN IS RECOGNIZED AND STORED 00350001
00033C	47F0	A24A	0024A	372	B	GENTEST	BRANCH TO GENTEST 00351001
				373	*		00352001
000340	45F0	B1AC	011AC	374	LBETA1	BAL R15, OUCHA	BRANCH TO SUBROUTINE OUCHA 00353001
000344	47F0	A328	00328	375	B	LBETA3	BRANCH TO LBETA 2 00354001
				376	*		00355001
000348	45F0	B34E	0134E	377	LBETA4	BAL R15, ITABMOP	READ PROCEDURE BLOCK 00356001
00034C	47F0	A31C	0031C	378	B	BETA1	00357001
				379	*		00358001
				380	*	PROCEDURE BLOCK BEGIN	00359001
				381	*		00360001
000350	940F	A8A9	008A9	382	PIPHI	NI IDENT4+1,X'0F'	PROC HEAD SWITCH ON 00361001
000354	95F0	A7DB	007DB	383	CLI	LETTER+1,X'F0'	PROCEDURE BLOCK TO READ ? 00362001

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000358	4780 A3A8		003A8	384	BE	LPIPHI6	00363001
00035C	D201 C074	3001 02074	00001	385	PIPHI1	MVC ZIGN(2),1(R3)	00364001
000362	5940 BFE8		01FE8	386	C	R4,ZFILE6	00365001
000366	4720 A3A0		003A0	387	BH	LPIPHI1	00366001
00036A	D200 4001	3000 00001	00000	388	LPIPHI2	MVC 1(1,R4),0(R3)	00367001
000370	4140 4001		00001	389	LA	R4,1(,R4)	00368001
000374	4130 3003		00003	390	LA	R3,3(,R3)	00369001
000378	9540 3000		00000	391	LPIPHI3	CLI 0(R3),XFA	00370001
00037C	4740 A388		00388	392	BL	LPIPHI4	00371001
000380	96F0 A7DB	007DB		393	OI	LETTER+1,X'F0'	00372001
000384	47F0 A7DA		007DA	394	B	LETTER	00373001
				395	*		00374001
000388	952F 3000		00000	396	LPIPHI4	CLI 0(R3),XFZETA	00375001
00038C	4780 A398		00398	397	BE	LPIPHI5	00376001
000390	45F0 B352		01352	398	BAL	R15,ITABMOVE	00377001
000394	47F0 A24A		0024A	399	B	GENTEST	00378001
				400	*		00379001
000398	45F0 B2EE		012EE	401	LPIPHI5	BAL R15,ICHA	00380001
00039C	47F0 A378		00378	402	B	LPIPHI3	00381001
				403	*		00382001
0003A0	45F0 B1AC		011AC	404	LPIPHI1	BAL R15,OUCHA	00383001
0003A4	47F0 A36A		0036A	405	B	LPIPHI2	00384001
				406	*		00385001
0003A8	45F0 B34E		0134E	407	LPIPHI6	BAL R15,ITABMOP	00386001
0003AC	47F0 A35C		0035C	408	B	PIPHI1	00387001
				409	*		00388001
				410	*	FOR STATEMENT BEGIN	00389001
				411	*		00390001
0003B0	92C0 C0B1		020B1	412	FOR	MVI ZFORTEST,X'C0'	00391001
0003B4	5850 C0CC		020CC	413	L	R5,ZFSPTR	00392001
0003B8	4150 5001		00001	414	LA	R5,1(,R5)	00393001
0003BC	5050 C0CC		020CC	415	ST	R5,ZFSPTR	00394001
0003C0	4160 D478		00478	416	LA	R6,FSTAB	00395001
0003C4	1B56			417	SR	R5,R6	00396001
0003C6	4250 C0B3		020B3	418	STC	R5,ZFSN	00397001
0003CA	D201 C074	3001 02074	00001	419	LFOR3	MVC ZIGN(2),1(R3)	00398001
0003D0	5940 BFD8		01FD8	420	C	R4,ZFILE1	00399001
0003D4	4720 A3EA		003EA	421	BH	LFOR1	00400001
0003D8	D200 4001	3000 00001	00000	422	LFOR4	MVC 1(1,R4),0(R3)	00401001
0003DE	4140 4001		00001	423	LA	R4,1(,R4)	00402001
0003E2	4130 3003		00003	424	LA	R3,3(,R3)	00403001
0003E6	47F0 A24A		0024A	425	B	GENTEST	00404001
				426	*		00405001
0003EA	45F0 B1AC		011AC	427	LFOR1	BAL R15,OUCHA	00406001
0003EE	47F0 A3D8		003D8	428	B	LFOR4	00407001
				429	*		00408001
				430	*	END OF PROGRAM OR PROCEDURE BLOCK	00409001
				431	*		00410001
0003F2	95F0 A7DB		007DB	432	EPSILON	CLI LETTER+1,X'F0'	00411001
0003F6	4780 A410		00410	433	BE	EPSILON2	00412001
0003FA	5860 BFFC		01FFC	434	EPSILON1	L R6,ZCURITEN	00413001
0003FE	4B60 C008		02008	435	SH	R6,ZCURITLE	00414001
000402	5060 BFFC		01FFC	436	ST	R6,ZCURITEN	00415001
000406	D201 C008	6011 02008	00011	437	MVC	ZCURITLE(2),17(R6)	00416001
00040C	47F0 A320		00320	438	B	LBETA2	00417001
				439	*		00418001
000410	45F0 B34E		0134E	440	EPSILON2	BAL R15,ITABMOP	00419001
000414	47F0 A3FA		003FA	441	B	EPSILON1	00420001
				442	*		00421001
				443	*	FOR STATEMENT END	00422001
				444	*		00423001
000418	9200 C0B1		020B1	445	ETA	MVI ZFORTEST,0	00424001
00041C	9180 D080		00080	446	TM	COMPLG5,COMPMODE	00425001
000420	4710 A3CA		003CA	447	BO	LFOR3	00426001
000424	45F0 AD46		00D46	448	BAL	R15,CRIFODEL	00427001
000428	47F0 A3CA		003CA	449	B	LFOR3	00428001
				450	*		00429001
				451	*	FOR LIST END	00430001
				452	*		00431001
00042C	9200 C0B1		020B1	453	DO	MVI ZFORTEST,0	00432001
000430	5940 BFD8		01FD8	454	LD03	C R4,ZFILE1	00433001
			00430	455	OTHOP	EQU LD03	00434001
000434	4720 A446		00446	456	BH	LD01	00435001
000438	D200 4001	3000 00001	00000	457	LD02	MVC 1(1,R4),0(R3)	00436001
00043E	4140 4001		00001	458	LA	R4,1(,R4)	00437001
000442	47F0 A246		00246	459	B	GENTEST1	00438001
				460	*		00439001
000446	45F0 B1AC		011AC	461	LD01	BAL R15,OUCHA	00440001
00044A	47F0 A438		00438	462	B	LD02	00441001
				463	*		00442001
				464	*	WHILE	00443001
				465	*		00444001
00044E	5850 C0CC		020CC	466	WHILE	L R5,ZFSPTR	00445001
000452	9684 5000		00000	467	OI	0(R5),WHILEM	00446001
000456	47F0 A430		00430	468	B	LD03	00447001
				469	*		00448001
				470	*	STEP OPERATOR	00449001
				471	*		00450001
00045A	5850 C0CC		020CC	472	STEP	L R5,ZFSPTR	00451001
00045E	9608 5000		00000	473	OI	0(R5),STEMM	00452001
000462	47F0 A430		00430	474	B	LD03	00453001
				475	*		00454001
				476	*	DIVIDE AND POWER ROUTINE	00455001
				477	*		00456001
000466	9500 C0B1		020B1	478	DIPOW	CLI ZFORTEST,0	00457001
00046A	4780 A430		00430	479	BE	OTHOP	00458001

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00046E	5850 C0CC		020CC	480	L	R5,ZFSPTR	YES, ADDR FSTAB ENTRY
000472	9680 5000	00000		481	OI	0(R5),NOCOUNT	COUNTING LOOP IMPOSSIBLE
000476	47F0 A430		00430	482	B	OTHOP	MOVE TO OUTPUT STREAM
				483	*		
				484	*	SEMICOLON OR DELTA	
				485	*		
00047A	D201 D09C 3001 0009C 00001	0009C	00001	486	SEMIDEL	MVC SEMCNT,1(R3)	SAVE SEMICOLON COUNTER
000480	96F0 A8A9	008A9		487	OI	IDENT4+1,X'F0'	PROC HEAD SWITCH OFF
000484	5940 BFE0		01FE0	488	C	R4,ZFILE3	COMPARE ZOUT WITH ZFILE(3)
000488	4720 A4A2		004A2	489	BH	LSEM1	HIGH, BRANCH
00048C	D202 4001 3000 00001 00000	00001	00000	490	LSEM2	MVC 1(3,R4),0(R3)	OPERATOR,SC ARE MOVED TO 0-BUFF
000492	4140 4003		00003	491	LA	R4,3(,R4)	ZOUT IS INCREASED BY 3
000496	4130 3003		00003	492	LA	R3,3(,R3)	ZIN IS INCREASED BY 3
00049A	9200 C0AE		020AE	493	MVI	STATUS,0	TURN OFF SWITCH OR ARRAY BITS
00049E	47F0 A24A		0024A	494	B	GENTEST	BRANCH TO GENTEST
				495	*		
0004A2	45F0 B1AC		011AC	496	LSEM1	BAL R15,OUCHA	CALL SUBROUTINE OUCHA
0004A6	47F0 A48C		0048C	497	B	LSEM2	BRANCH TO LSEM2
				498	*		
0004AA	9640 C0AE		020AE	499	SWITCH	OI STATUS,SSWITCH	SET ON SWITCH SWITCH
0004AE	47F0 A430		00430	500	B	OTHOP	
				501	*		
0004B2	9680 C0AE		020AE	502	ARRAY	OI STATUS,SARRAY	SET ON ARRAY SWOTCH
0004B6	D201 C0AC BF54 020AC 01F54	020AC	01F54	503	MVC	BRCNT(2),ZERO	ZERO BRACKET COUNTER
0004BC	47F0 A430		00430	504	B	OTHOP	OUTPUT OPERATOR
				505	*		
				506	*	PROGRAM END	
				507	*		
0004C0	D200 4001 3000 00001 00000	00001	00000	508	OMEGA	MVC 1(1,R4),0(R3)	
0004C6	9608 D082		00082	509	OI	COMPLG+2,NOSC	SET SEMICOLON COUNTER NOT VALID
0004CA	9140 D082		00082	510	TM	COMPLG+2,SPIC	SOURCE PROG IN STORAGE ?
0004CE	4710 A4E0		004E0	511	BO	LOMEGA6	YES, BRANCH
				512	*		
				513		CHECK SREAD	
0004D2	4110 B30C		0130C	514+	LA	1,SREAD	LOAD PARAMETER REG 1
0004D6	58E0 1008		00008	515+	L	14,8(0,1)	PICK UP DCB ADDR
0004DA	58F0 E034		00034	516+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
0004DE	05EF			517+	BALR	14,15	LINK TO CHECK ROUTINE
				518	*		
0004E0	5850 D064		00064	519	LOMEGA6	L R5,AUT1DCB	R5 -> SYSUT1 DCB
				520	*		
				521		CLOSE ((R5))	CLOSE SYSUT1 FINALY
0004E4				522+	CNOP	0,4	ALIGN LIST TO FULLWORD
0004E4	4510 A4EC		004EC	523+	BAL	1,*+8	LOAD REG1 W/LIST ADDR
0004E8	00000000			524+	DC	A(0)	OPTION AND DCB ADDRESS
0004EC	5051 0000		00000	525+	ST	R5,0(1,0)	STORE DCB ADDRESS
0004F0	9280 1000		00000	526+	MVI	0(1),128	MOVE IN OPTION BYTE
0004F4	0A14			527+	SVC	20	ISSUE CLOSE SVC
				528	*		
0004F6	D501 BF5A BFF0 01F5A 01FF0	01F5A	01FF0	529	CLC	KH1,ZOUTCOT	ZOUTCOT = 1 ?
0004FC	4780 A5EA		005EA	530	BE	LOMEGA1	YES, BRANCH
000500	4140 4001		00001	531	LA	R4,1(,R4)	SAVE OMEGA FROM OVERLAY
000504	45F0 B1AC		011AC	532	BAL	R15,OUCHA	WRITE LAST RECORD
000508	94BF D082		00082	533	NI	COMPLG+2,255-SPIC	OUTPUT ON SECONDARY STORAGE
				534	*		
				535		CHECK SWRITE	CHECK LAST OUTPUT RECORD
00050C	4110 B238		01238	536+	LA	1,SWRITE	LOAD PARAMETER REG 1
000510	58E0 1008		00008	537+	L	14,8(0,1)	PICK UP DCB ADDR
000514	58F0 E034		00034	538+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
000518	05EF			539+	BALR	14,15	LINK TO CHECK ROUTINE
				540	*		
				541	*	WRITE OUT CONSTANT POOL	
				542	*		
00051A	5890 C11C		0211C	543	LOMEGA3	L R9,ZDWP	ADDR OF FREE BYTE IN CONST POOL
00051E	1B59			544	LR	R5,R9	
000520	4A50 C0E6		020E6	545	AH	R5,TXTPUT	MORE TXT TO WRITE ?
000524	5950 C0E0		020E0	546	C	R5,ZTEXTCO	
000528	4780 A530		00530	547	BE	LOMEGA2	
00052C	45E0 BDD4		01DD4	548	BAL	R14,XTTTRAF	YES, WRITE REST OF CONST POOL
				549	*		
		00530		550	LOMEGA2	EQU *	
		00530		551	TERM2	EQU *	
000530	1B55			552	SR	R5,R5	
000532	4350 C0B3		020B3	553	IC	R5,ZFSN	
000536	4050 D578		00578	554	STH	R5,FSNMAX	
00053A	D201 D57C BFA8 0057C 01FA8	0057C	01FA8	555	MVC	SUCOUNT(2),SUCNT	NUMBER OF SUTAB RECORDS
000540	D201 D57A BFC4 0057A 01FC4	0057A	01FC4	556	MVC	LVCOUNT(2),LVCNT	NUMBER OF LV TAB RECORDS
000546	5810 BFA4		01FA4	557	L	R1,SULENGTH	GET FULL LENGTH OF SUTAB
00054A	5A10 BF90		01F90	558	A	R1,ZSUTAPO	
00054E	5B10 BF94		01F94	559	S	R1,ZSUDAD	
000552	5010 D584		00584	560	ST	R1,ZSUTEN	LENGTH OF SUTAB
000556	4780 A5A2		005A2	561	BZ	LOMEGA4	
00055A	D503 BF90 BF94 01F90 01F94	01F90	01F94	562	CLC	ZSUTAPO(4),ZSUDAD	ANYTHING IN SUTAB BUFFER ?
000560	4780 A574		00574	563	BE	LOMEGA5	NO
000564	4550 B5D6		015D6	564	BAL	R5,CHECK	CHECK LAST I/O OPERATION ON UT3
000568	5850 BF9C		01F9C	565	L	R5,SUSTRT	WRITE START ADDR
00056C	5860 D0F4		000F4	566	L	R6,SUTAB305	LENGTH OF RECORD
000570	45F0 B5F8		015F8	567	BAL	R15,WRITE	WRITE
				568	*		
000574	5810 BFC0		01FC0	569	LOMEGA5	L R1,LVLENGTH	GET FULL LENGTH OF LV TAB
000578	5A10 BFB0		01FB0	570	A	R1,ZLEVA	
00057C	5B10 BFAC		01FAC	571	S	R1,ZLESTA	
000580	5010 D580		00580	572	ST	R1,ZLEVEN	LENGTH OF LV TAB
000584	4780 A5A2		005A2	573	BZ	LOMEGA4	
000588	D503 BFB0 BFAC 01FB0 01FAC	01FB0	01FAC	574	CLC	ZLEVA(4),ZLESTA	ANYTHING IN LV TAB BUFFER ?
00058E	4780 A5A2		005A2	575	BE	LOMEGA4	NO



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000592	4550 B5D6		015D6	576	BAL	R5,CHECK	CHECK LAST I/O OPERATION ON UT3 00541001
000596	5850 BFB8		01FB8	577	L	R5,LVSTRT	LVTAB BUFFER START ADDR 00542001
00059A	5860 D0F8		000F8	578	L	R6,LVTAB305	LENGTH OF LVTAB BUFFER 00543001
00059E	45F0 B5F8		015F8	579	BAL	R15,WRITE	WRITE 00544001
				580	*		00545001
0005A2	4550 B5D6		015D6	581	LOMEGA4	BAL R5,CHECK	CHECK LAST I/O OPERATION ON UT3 00546001
0005A6	5850 D068		00068	582	L	R5,AUT2DCB	R5 -> SYSUT2 00547001
				583	*		00548001
				584		CLOSE ((R5),REREAD),TYPE=T	CLOSE SYSUT2 TEMPORARILY 00549001
0005AA	0700			585+	CNOP	0,4	ALIGN LIST TO FULLWORD 01-CLOSE
0005AC	4510 A5B4		005B4	586+	BAL	1,*+8	LOAD REG1 W/LIST ADDR 01-CLOSE
0005B0	00000000			587+	DC	A(0)	OPTION AND DCB ADDRESS 01-CLOSE
0005B4	5051 0000		00000	588+	ST	R5,0(1,0)	STORE DCB ADDRESS 01-CLOSE
0005B8	9290 1000	00000		589+	MVI	0(1),144	MOVE IN OPTION BYTE 01-CLOSE
0005BC	0A17			590+	SVC	23	ISSUE TCLOSE SVC 01-CLOSE
				591	*		00550001
0005BE	5800 C164		02164	592	L	R0,TABSIZE	RELEASE MAIN STORAGE 00551001
0005C2	5810 C0D4		020D4	593	L	R1,ZKOPOL	00552001
				594	*		00553001
				595		FREEMAIN R, LV=(0),A=(1)	00554001
				596+	*	OS/VS2 RELEASE 3 VERSION -- 10/25/74	01-FREEM
0005C6	4110 1000		00000	597+	LA	1,0(0,1)	CLEAR HI ORDER BYTE 01-FREEM
0005CA	0A0A			598+	SVC	10	ISSUE FREEMAIN SVC 01-FREEM
				599	*		00555001
0005CC	5810 C160		02160	600	TERM1	L R1,OLDSPIE	00556001
				601	*		00557001
				602		SPIE MF=(E,(1))	00558001
0005D0	0A0E			603+	SVC	14	ISSUE THE SPIE SVC 01-SPIE
				604	*		00559001
				605		XCTL EP=IEX31	TRANSFER TO NEXT PHASE 00560001
0005D2	0700			606+	CNOP	0,4	02-IHBN
0005D4	45F0 A5E8		005E8	607+	BAL	15,*+20	BRANCH AROUND CONSTANTS 02-IHBN
0005D8	000005E0			608+	DC	A(*+8)	ADDR. OF PARM. LIST 02-IHBN
0005DC	00000000			609+	DC	A(0)	DCB ADDRESS PARAMETER 02-IHBN
0005E0	C9C5E7F3F1404040			610+	DC	CL8'IEX31'	EP PARAMETER 02-IHBN
0005E8	0A07			611+	SVC	7	ISSUE XCTL SVC 01-XCTL
				612	*		00561001
0005EA	9640 D082	00082		613	LOMEGA1	OI COMPFILGS+2,SPIC	SOURCE PROG IN STORAGE 00562001
0005EE	5810 D0C8		000C8	614	L	R1,SRCE1ADD	ADDR OF RESIDENT BUFFER 00563001
0005F2	5820 BFD0		01FD0	615	L	R2,ZOBWORK	ADDR OF OUTPUT BUFFER 00564001
0005F6	5850 D0E0		000E0	616	L	R5,SRCE15	BUFFER LENGTH 00565001
0005FA	0650			617	BCTR	R5,0	00566001
0005FC	1865			618	LR	R6,R5	00567001
0005FE	8A60 0008		00008	619	SRA	R6,8	GET MULTIPLE OF 256 00568001
000602	1266			620	LTR	R6,R6	MAXIMUM 256 ? 00569001
000604	4780 A61A		0061A	621	BZ	LOMEGA12	YES 00570001
000608	D2FF 1000 2000 00000	00000	00000	622	LOMEGA11	MVC 0(256,R1),0(R2)	MOVE BLOCK OF 256 00571001
00060E	4110 1100		00100	623	LA	R1,256(,R1)	00572001
000612	4120 2100		00100	624	LA	R2,256(,R2)	00573001
000616	4660 A608		00608	625	BCT	R6,LOMEGA11	00574001
00061A	4450 A622		00622	626	LOMEGA12	EX R5,ONERM	MOVE REST OF BUFFER 00575001
00061E	47F0 A51A		0051A	627	B	LOMEGA3	00576001
				628	*		00577001
000622	D200 1000 2000 00000	00000	00000	629	ONERM	MVC 0(0,R1),0(R2)	LENGTH IN R5 00578001
				630	*		00579001
				631	*	CODE PROCEDURE	00580001
				632	*		00581001
000628	5940 BFEC		01FEC	633	GAMMA	C R4,ZFILE9	COMPARE ZOUT WITH ZFILE9 00582001
00062C	4720 A646		00646	634	BH	LGAMMA1	HIGH, BRANCH 00583001
000630	922E 4001	00001		635	LGAMMA2	MVI 1(R4),X'2E'	NEW CODE FOR GAMMA IS SET 00584001
000634	D207 4002 3001 00002	00001	00001	636	MVC	2(8,R4),1(R3)	OPT, EXTERNAL NAME TO O-BUFF 00585001
00063A	4130 3009		00009	637	LA	R3,9(,R3)	INCR ZIN BY 9 00586001
00063E	4140 4009		00009	638	LA	R4,9(,R4)	00587001
000642	47F0 A24A		0024A	639	B	GENTEST	BRANCH TO GENETEST 00588001
				640	*		00589001
000646	45F0 B1AC		011AC	641	LGAMMA1	BAL R15,OUCHA	00590001
00064A	47F0 A630		00630	642	B	LGAMMA2	BRANCH TO LGAMMA2 00591001
				643	*		00592001
				644	*	END OF INPUT BUFFER	00593001
				645	*		00594001
00064E	45F0 B2EE		012EE	646	ZETA	BAL R15,ICHA	BRANCH TO SUBROUTINE ICHA 00595001
000652	47F0 A24A		0024A	647	B	GENTEST	BRANCH TO GENTEST 00596001
				648	*		00597001
				649	*	OPENING BRACKET	00598001
				650	*		00599001
000656	9180 C0AE		020AE	651	OPBRACK	TM STATUS,SARRAY	HANDLING ARRAY DECLARATION ? 00600001
00065A	4710 A6EC		006EC	652	BO	LOPBRA5	YES 00601001
00065E	9180 D080		00080	653	TM	COMPFILGS,COMPmode	SYNTAX CHECK MODE ? 00602001
000662	4710 A430		00430	654	BO	OTHOP	YES 00603001
000666	5870 BFF8		01FF8	655	L	R7,ZITAN	ZITEAN IS LOADED INTO R7 00604001
00066A	9108 7007		00007	656	TM	7(R7),X'08'	AN ARRAY IDENTIFIER ? 00605001
00066E	4710 A430		00430	657	BO	LD03	NO 00606001
000672	9104 7007		00007	658	TM	7(R7),X'04'	00607001
000676	4780 A430		00430	659	BZ	LD03	00608001
00067A	D503 C0C0 C0C4 020C0	020C0	020C4	660	CLC	PFA(4),PFANO	PFA = PFANO ? 00609001
000680	4780 A430		00430	661	BE	LD03	YES, BRANCH 00610001
000684	95FF C0B2		020B2	662	CLI	ZLVOV,X'FF'	TABLE OVERFLOW ? 00611001
000688	4780 A430		00430	663	BE	LD03	YES 00612001
00068C	D503 C020 C01C 02020	0201C	0201C	664	CLC	ZARSP0(4),ZARNO	COMPARE ZARSP0 WITH ZARNO 00613001
000692	4780 A6E4		006E4	665	BE	LOPBRA4	NO SUBSCRIPT NESTING 00614001
000696	45F0 AD9E		00D9E	666	BAL	R15,SUCRIDEL	00615001
00069A	5880 C020		02020	667	L	R8,ZARSP0	ZARSP0 IS SET INTO R8 00616001
00069E	5980 C018		02018	668	C	R8,ZARMAX	ZARSP0 EQUAL TO ZARMAX ? 00617001
0006A2	4780 A6E4		006E4	669	BE	LOPBRA4	YES, BRANCH 00618001
0006A6	D200 800A C025 0000A	0025	0000A	670	MVC	10(1,R8),ZPOSIX+1	NUMBER OF COMMAS TO ARIDSTACK 00619001
0006AC	4180 8007		00007	671	LA	R8,7(,R8)	ADDR NEXT ENTRY 00620001

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0006B0	5080 C020		02020	672	LOPBRA3	ST R8,ZARSP0	ZARSP0 IS SET TO ZARSTACK
0006B4	D202 8000 7008 00000	00008		673		MVC 0(3,R8),8(R7)	ARRAY IDENTIFIER IS STORED
0006BA	4100 4001		00001	674		LA R0,1(,R4)	
0006BE	5000 C068		02068	675		ST R0,ZBRACK	ZBRACK IS SET TO ZOUT+1
0006C2	5800 BFD0		01FD0	676		S R0,ZOBWORK	
0006C6	5000 C180		02180	677		ST R0,ALIGN	RELATIVE BUFFER ADDR
0006CA	D201 8005 C182 00005	02182		678		MVC 5(2,R8),ALIGNH	
0006D0	D200 8004 BFF1 00004	01FF1		679		MVC 4(1,R8),ZOUTCOT+1	RECORD COUNTER TO ARIDSTAB
0006D6	D201 C024 BF54 02024	01F54		680		MVC ZPOSIX(2),ZERO	ZPOSIX IS SET TO 0
0006DC	9200 C080	02080		681		MVI ZCLOBRA,X'00'	ZCLOBRA IS SET TO X'00'
0006E0	47F0 A438		00438	682		B LD02	PUT OUT OPERATOR
				683	*		
0006E4	4180 C026		02026	684	LOPBRA4	LA R8,ZARSTACK	START ADDR OF ARIDSTAB
0006E8	47F0 A6B0		006B0	685		B LOPBRA3	BRANCH TO LOPBRA3
				686	*		
0006EC	4850 C0AC		020AC	687	LOPBRA5	LH R5,BRCNT	INCREASE BRACKET COUNTER
0006F0	4150 5001		00001	688		LA R5,1(0,R5)	
0006F4	4050 C0AC		020AC	689		STH R5,BRCNT	
0006F8	47F0 A430		00430	690		B OTHOP	OUTPUT OPERATOR
				691	*		
				692	*	COMMA	
				693	*		
0006FC	9180 D080		00080	694	COMMA	TM COMPFLLGS,COMPmode	SYNTAX CHECK MODE ?
000700	4710 A430		00430	695		BO OTHOP	YES
000704	D503 C020 C01C 02020	0201C		696		CLC ZARSP0(4),ZARNO	ZARSP0 = ZARNO ?
00070A	4780 A430		00430	697		BE LD03	YES, BRANCH
00070E	D501 C024 BF6A 02024	01F6A		698		CLC ZPOSIX(2),KH15	ZPOSIX = 15 ?
000714	4780 A74A		0074A	699		BE LCOMMA1	YES, BRANCH
000718	9500 C0B0		020B0	700		CLI ZCLOBRA,0	ZCLOBRA = X'FF' ?
00071C	4770 A752		00752	701		BNE LCOMMA2	NO, BRANCH
000720	5870 C068		02068	702		L R7,ZBRACK	ZBRACK IS SET INTO R7
000724	4170 7012		00012	703		LA R7,18(,R7)	
000728	1947		704			CR R4,R7	COMPARE ZOUT AND ZBRACK+18
00072A	4720 A756		00756	705		BH LCOMMA3	
00072E	4590 AEBE		00EBE	706		BAL R9,SUSCRITE	OPTIMIZATION POSSIBLE ?
000732	4870 C024		02024	707	LCOMMA4	LH R7,ZPOSIX	ZPOSIX IS SET INTO R7
000736	4170 7001		00001	708		LA R7,1(,R7)	INCR ZPOSIX BY 1
00073A	4070 C024		02024	709		STH R7,ZPOSIX	
00073E	4170 4001		00001	710		LA R7,1(,R4)	
000742	5070 C068		02068	711		ST R7,ZBRACK	ZBRACK IS SET TO ZOUT+1
000746	47F0 A438		00438	712		B LD02	PUT OUT OPERATOR
				713	*		
00074A	9680 D080		00080	714	LCOMMA1	OI COMPFLLGS,COMPmode	SET SYNTAX CHECK MODE
00074E	47F0 A430		00430	715		B LD03	BRANCH TO LD03
				716	*		
000752	9200 C0B0		020B0	717	LCOMMA2	MVI ZCLOBRA,0	ZERO ZCLOBRA
000756	45F0 AD9E		00D9E	718	LCOMMA3	BAL R15,SUCRIDEL	
00075A	47F0 A732		00732	719		B LCOMMA4	BRANCH TO LCOMMA4
				720	*		
				721	*	CLOSING BRACKET	
				722	*		
00075E	9180 C0AE		020AE	723	CLOBRACK	TM STATUS,SARRAY	HANDLING ARRAY DECLARATION ?
000762	4710 A7C4		007C4	724		BO CLOBRA3	
000766	9180 D080		00080	725		TM COMPFLLGS,COMPmode	SYNTAX CHECK MODE ?
00076A	4710 A430		00430	726		BO OTHOP	YES
00076E	D503 C020 C01C 02020	0201C		727		CLC ZARSP0(4),ZARNO	THERE AN ARIDSTAB ENTRY ?
000774	4780 A430		00430	728		BE LD03	NO
000778	9500 C0B0		020B0	729		CLI ZCLOBRA,0	PRECEEDING SUBSCR OPER CLOBRA ?
00077C	4770 A7BC		007BC	730		BNE CLOBRA1	YES
000780	5870 C068		02068	731		L R7,ZBRACK	SUBSCRIPT MORE THAN 18 BYTES ?
000784	4170 7012		00012	732		LA R7,18(,R7)	
000788	1947		733			CR R4,R7	
00078A	4720 A7BC		007BC	734		BH CLOBRA1	YES, NO OPTIMIZATION
00078E	4590 AEBE		00EBE	735		BAL R9,SUSCRITE	TEST IF OPTIMIZABLE
000792	5870 C020		02020	736	CLOBRA2	L R7,ZARSP0	UPDATE CURRENT ARIDSTAB PTR
000796	4870 BF5E		01F5E	737		SH R7,KH7	
00079A	5070 C020		02020	738		ST R7,ZARSP0	
00079E	5970 C01C		0201C	739		C R7,ZARNO	ARIDSTAB EMPTY
0007A2	4780 A430		00430	740		BE LD03	YES
0007A6	D200 C025 700A 02025	0000A		741		MVC ZPOSIX+1(1),10(R7)	RESET SUBSC POSITION CNTR
0007AC	4170 4001		00001	742		LA R7,1(,R4)	SET ZBRACK
0007B0	5070 C068		02068	743		ST R7,ZBRACK	
0007B4	92FF C0B0		020B0	744		MVI ZCLOBRA,X'FF'	LAST SUBSCR OPER CLOBRACK
0007B8	47F0 A430		00430	745		B LD03	
				746	*		
0007BC	45F0 AD9E		00D9E	747	CLOBRA1	BAL R15,SUCRIDEL	NO OPTIMIZATION POSSIBLE
0007C0	47F0 A792		00792	748		B CLOBRA2	
				749	*		
0007C4	4850 C0AC		020AC	750	CLOBRA3	LH R5,BRCNT	DECREASE BRACKET COUNTER
0007C8	0650		751			BCTR R5,0	
0007CA	4050 C0AC		020AC	752		STH R5,BRCNT	
0007CE	47F0 A430		00430	753		B OTHOP	OUTPUT OPERATOR
				754	*		
				755	*	LETTER	
				756	*		
				757	*	SCAN FOR END OF IDENTIFIER	
				758	*	BRANCH TO IDENT TO SEARCH FOR THE IDENTIFIER IN ITAB	
				759	*	REPLACE IDENTIFIER BY INTERNAL NAME	
				760	*		
				761	*	INITIALIZED REG = IDENTIFIER START ADDR	
				762	*	SUBROUTINE LINK IDENTX	
				763	*		
0007D2	45F0 B34E		0134E	764	LETTERS5	BAL R15,ITABMOP	READ ITAB RECORD
0007D6	47F0 A7DE		007DE	765		B LETTERP	
				766	*		
0007DA	4700 A7D2		007D2	767	LETTER	NOP LETTERS5	BRANCH TO READ ITAB RECORD

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0007DE	4180 C081		02081	768	LETTERP	LA R8,ZIDEX	00717001
0007E2	4100 C087		02087	769	LA	R0,ZIDEX+6	00718001
0007E6	1893			770	LETTER4	LR R9,R3	00719001
0007E8	1B22			771	SR	R2,R2	00720001
0007EA	1B11			772	SR	R1,R1	00721001
0007EC	DDFF 3000 C2D6 00000	022D6	773	LETTER6	TRT	0(256,R3),IDENTI	00722001
0007F2	4780 A82E	0082E	774		BZ	LETTER0	00723001
0007F6	1831		775		LR	R3,R1	00724001
0007F8	47F2 A7F8	007F8	776		B	*(R2)	00725001
0007FC	47F0 A836	00836	777		B	ZETALET	+04 00726001
000800	47F0 A842	00842	778		B	RHO	+08 00727001
000804	47F0 A852	00852	779		B	ERROR1	+12 00728001
			780	*			END OF IDENTIFIER IS FOUND 00729001
000808	47F0 A860	00860	781		B	IDENT	ITAB SEARCH 00730001
			782	*			00731001
00080C	5070 BFF8	01FF8	783	LETTER1	ST	R7,ZITAN	SAVE POINTER TO LAST IDENTIFIER 00732001
000810	5940 BFE4	01FE4	784		C	R4,ZFILE5	SPACE IN OUTPUT BUFFER 00733001
000814	4720 A826	00826	785		BH	LETTER2	NO SPACE 00734001
000818	D204 4001 7006 00001	00006	786	LETTER3	MVC	1(5,R4),6(R7)	MOVE INTERNAL NAME TO OUTPUT BUF 00735001
00081E	4140 4005	00005	787		LA	R4,5(,R4)	00736001
000822	47F0 A24A	0024A	788		B	GENTEST	00737001
			789	*			00738001
000826	45F0 B1AC	011AC	790	LETTER2	BAL	R15,OUCHA	00739001
00082A	47F0 A818	00818	791		B	LETTER3	00740001
			792	*			00741001
00082E	4130 3100	00100	793	LETTER0	LA	R3,256(,R3)	UPDATE INPUT PTR 00742001
000832	47F0 A7EC	007EC	794		B	LETTER6	00743001
			795	*			00744001
			796	*			END OF INPUT BUFFER IN THE MIDDLE OF AN IDENTIFIER 00745001
			797	*			00746001
000836	45F0 B5B0	015B0	798	ZETALET	BAL	R15,MOVE	00747001
00083A	45F0 B2EE	012EE	799		BAL	R15,ICHA	00748001
00083E	47F0 A7E6	007E6	800		B	LETTER4	00749001
			801	*			00750001
			802	*			LETTER STRING USED AS PARAMETER DELIMITER 00751001
			803	*			REPLACE STRING BY COMMA 00752001
			804	*			00753001
000842	9526 4000	00000	805	RHO	CLI	0(R4),XFRBRAC	RIGHT BRACKET ? 00754001
000846	4770 A246	00246	806		BNE	GENTEST1	NO 00755001
00084A	9225 4000	00000	807		MVI	0(R4),XFCOMMA	REPLACE RIGHT BRACKET BY COMMA 00756001
00084E	47F0 A246	00246	808		B	GENTEST1	00757001
			809	*			00758001
			810	*			INVALID CHARACTER IN IDENTIFIER 00759001
			811	*			00760001
000852	45F0 B5B0	015B0	812	ERROR1	BAL	R15,MOVE	00761001
000856	D201 C014 BF78 02014	01F78	813		MVC	ZERRONU,INVOP	00762001
00085C	47F0 B4CE	014CE	814		B	INCOROP	00763001
			815	*			00764001
			816	*			IDENT 00765001
			817	*			00766001
			818	*			A SEARCH THRU ITAB FOR THE IDENTIFIER WITH THE START 00767001
			819	*			ADDRESS IN ZIDSTAR IS DONE. IF FOUND BRANCH TO ROUTINE 00768001
			820	*			FOL1 FOR TYPECHECK, IF NOT REPLACE IDENTIFIER WITH ALL 00769001
			821	*			PURPOSE IDENTIFIER 00770001
			822	*			00771001
			823	*			RECEIVED REG = ADDR OF IDENTIFIER START 00772001
			824	*			INITIALIZED R7 00773001
			825	*			00774001
000860	45F0 B5B0	015B0	826	IDENT	BAL	R15,MOVE	MOVE IDENTIFIER 00775001
000864	D204 8000 BF54 00000	01F54	827		MVC	0(5,R8),ZERO	FILL UP WITH ZERO 00776001
			828	*			START ITAB SEARCH 00777001
00086A	5870 BFFC	01FFC	829		L	R7,ZCURITEN	ADDR OF LAST ITAB ENTRY 00778001
00086E	5810 BFF4	01FF4	830		L	R1,ZIBSTAO	ITAB START ADDR 00779001
000872	4100 000B	0000B	831		LA	R0,11	00780001
000876	1300		832		LCR	R0,R0	MINUS ELEVEN 00781001
000878	4150 A8A8	008A8	833	IDENT2	LA	R5,IDENT4	00782001
00087C	D505 7000 C081 00000	02081	834	IDENT3	CLC	0(6,R7),ZIDEX	IDENTIFIER SEARCH 00783001
000882	0785		835		BER	R5	FOUND 00784001
000884	8670 A87C	0087C	836	IDENT6	BXH	R7,R0,IDENT3	PROCEED SEARCH, IF NOT 00785001
000888	D203 C00C C0A8 0200C	020A8	837		MVC	ZBEGERR,OPSTART	00786001
00088E	5080 C010	02010	838		ST	R8,ZENDERR	00787001
000892	D201 C014 BF7A 02014	01F7A	839		MVC	ZERRONU,UNDEFOP	00788001
000898	45F0 B52C	0152C	840		BAL	R15,MOVERRO	00789001
00089C	9680 D080	00080	841		OI	COMPFLGS,COMPmode	SET SYNTAX CHECK MODE 00790001
0008A0	4170 C076	02076	842		LA	R7,ZALLPU	ALL PURPOSE IDENTIFIER 00791001
0008A4	47F0 A80C	0080C	843		B	LETTER1	00792001
			844	*			00793001
0008A8	47F0 A8BE	008BE	845	IDENT4	B	IDENT5	BRANCH IF NOT PROC HEAD 00794001
			846	*			00795001
0008AC	9102 7006	00006	847		TM	6(R7),X'02'	PROC OR FORMAL PARAMETER ? 00796001
0008B0	4780 A884	00884	848		BZ	IDENT6	NO, CONTINUE SEARCH 00797001
0008B4	D500 7008 C0AF 00008	020AF	849		CLC	8(1,R7),CURPBN	DECLARED IN LAST BLOCK ? 00798001
0008BA	4770 A884	00884	850		BNE	IDENT6	NO, CONTINUE SEARCH 00799001
0008BE	9180 C0AE	020AE	851	IDENT5	TM	STATUS,SARRAY	HANDLING ARRAY DECLARATION ? 00800001
0008C2	4780 A912	00912	852		BZ	FOLI	NO 00801001
0008C6	D501 C0AC BF54 020AC	01F54	853		CLC	BRCNT(2),ZERO	IDENTIFIER IN ARRAY LIST ? 00802001
0008CC	4780 A912	00912	854		BE	FOLI	NO, ARRAY IDENTIFIER 00803001
0008D0	D500 7008 C0AF 00008	020AF	855		CLC	8(1,R7),CURPBN	DECLARED IN LAST BLOCK ? 00804001
0008D6	4740 A912	00912	856		BL	FOLI	NO 00805001
0008DA	D201 C06C 7006 0206C	00006	857		MVC	ZSTO(2),6(R7)	IDENT CHARACTERISTIC 00806001
0008E0	D401 C06C C070 0206C	02070	858		NC	ZSTO(2),ZSTO1	00807001
0008E6	D501 C06C C072 0206C	02072	859		CLC	ZSTO(2),ZSTO2	FUNCTION PROCEDURE ? 00808001
0008EC	4780 A8F8	008F8	860		BE	IDENT7	YES 00809001
0008F0	9502 C06C	0206C	861		CLI	ZSTO,X'02'	FORMAL PARAM OR PROC ? 00810001
0008F4	4780 A912	00912	862		BE	FOLI	YES 00811001
0008F8	D203 C00C C0A8 0200C	020A8	863	IDENT7	MVC	ZBEGERR,OPSTART	GIVE WARNING MESSAGE 00812001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0008FE	5080 C010		02010	864	ST	R8,ZENDERR	00813001
000902	D201 C014 BF88 02014	01F88		865	MVC	ZERRONU,ARRAYERR	00814001
000908	45F0 B52C		0152C	866	BAL	R15,MOVERRO	00815001
00090C	1A70			867	AR	R7,R0	00816001
00090E	47F0 A878		00878	868	B	IDENT2	00817001
				869 *			00818001
				870 *	FOLI		00819001
				871 *			00820001
				872 *	CHECK TYPE OF IDENTIFIER		00821001
				873 *			00822001
000912	4350 7006		00006	874	FOLI IC	R5,6(R7)	ISOLATE SPECIAL USE BITS
000916	5450 C17C		0217C	875	N	R5,SPECUSE	X'00000006'
00091A	1A55			876	AR	R5,R5	SPECIAL USE BITS MULTIPLIED BY 4
00091C	47F5 A920		00920	877	B	*+4(R5)	
000920	47F0 A930		00930	878	B	NOCRI	+00 NON-CRITICAL IDENTIFIER
000924	47F0 A96A		0096A	879	B	PROFU	+04 PROCEDURE OR FORMAL PARAMETER
000928	47F0 A99E		0099E	880	B	SWILA	+08 LABEL OR SWITCH
00092C	47F0 AA1C		00A1C	881	B	CRITI	+12 CRITICAL IDENTIFIER
				882 *			00831001
000930	9180 D080		00080	883	NOCRI TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?
000934	4710 A80C		0080C	884	BO	LETTER1	
000938	9500 C0B1		020B1	885	CLI	ZFORTEST,X'00'	APPEARS IDENT BETWEEN FOR - DO
00093C	4770 A962		00962	886	BNE	NOCRI1	YES
				887 *			SHOULD ENTRY TO LVTAB BE DONE ?
000940	D503 C0C0 C0C4 020C0	020C4		888	CLC	PFA(4),PFANO	FOR-STATEMENT
000946	4780 A80C		0080C	889	BE	LETTER1	NO, NO LVTAB-ENTRY
00094A	9516 3000		00000	890	CLI	0(R3),X'16'	IDENTIFIER FOLLOWED BY ASSIGN ?
00094E	4770 A80C		0080C	891	BNZ	LETTER1	NO, NO LVTEB-ENTRY
000952	9102 7007		00007	892	TM	7(R7),X'02'	INTEGER ?
000956	4710 A80C		0080C	893	BO	LETTER1	NO, NO LVTAB-ENTRY
00095A	4590 AE18		00E18	894	BAL	R9,LETRAF	MAKE ENTRY IN LVTAB
00095E	47F0 A80C		0080C	895	B	LETTER1	RETURN
				896 *			00844001
				897	NOCRI1	BAL R14,CRIMA	MAKE CRIDTAB ENTRY
000962	45E0 AB7C		00B7C	898	B	LETTER1	
000966	47F0 A80C		0080C	899 *			00846001
				900 *	PROFU		00848001
				901 *			00849001
				902 *	BECAUSE OF POSSIBLE SIDE EFFECTS OF A PROCEDURE,		00850001
				903 *	OPTIMIZATION OF SUBSCRIPTS AND FOR-STATEMENTS IS		00851001
				904 *	INHIBITED		00852001
				905 *			00853001
				906 *	SUBROUTINE LINK VIA R15		00854001
				907 *			00855001
00096A	9180 D080		00080	908	PROFU TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?
00096E	4710 A80C		0080C	909	BO	LETTER1	YES
000972	D203 C020 C01C 02020	0201C		910	MVC	ZARSP0(4),ZARNO	SKIP ARIDSTAB
000978	95C0 C0B1		020B1	911	CLI	ZFORTEST,X'C0'	CONTROLLED VARIABLE ?
00097C	4770 A988		00988	912	BNE	PROFU1	NO
000980	5850 C0CC		020CC	913	L	R5,ZFSPTR	YES, CLASSIFIED NORMAL
000984	96F0 5000		00000	914	OI	0(R5),NORMAL	
000988	9200 C0B1		020B1	915	PROFU1 MVI	ZFORTEST,X'00'	TURN OFF FOR-SWITCH
00098C	D503 C0C0 C0C4 020C0	020C4		916	CLC	PFA(4),PFANO	CRIDTAB EMPTY ?
000992	4780 A80C		0080C	917	BE	LETTER1	YES, RETURN
000996	45F0 AD00		00D00	918	BAL	R15,DELCRIV	DELETE ALL CRIDTAB-ENTRIES
00099A	47F0 A80C		0080C	919	B	LETTER1	RETURN
				920 *			00867001
				921 *	SWILA		00868001
				922 *			00869001
				923 *	IN CASE OF SWITCH OF LABEL DECLARATION NO ACTION IS		00870001
				924 *	TAKEN. IF USED IN A GO-TO-STATEMENT A TEST IS DONE IF		00871001
				925 *	THE ALGOL RULES ARE FOLLOWED. IF NOT GIVE MESSAGE		00872001
				926 *			00873001
				927 *	RECEIVED R7		00874001
				928 *	WORK REG R1, SIGNEMBR, R1, R9		00875001
				929 *			00876001
00099E	1817			930	SWILA LR	R1,R7	START SEARCH FOR HEADING ENTRY
0009A0	4B10 BF66		01F66	931	SWILA1 SH	R1,KH11	
0009A4	952B 1005		00005	932	CLI	5(R1),X'2B'	HEADING TEST
0009A8	4770 A9A0		009A0	933	BNE	SWILA1	NO HEADING
0009AC	D201 C182 1008 02182	00008		934	MVC	ALIGNH(2),8(R1)	
0009B2	5890 C180		02180	935	L	R9,ALIGN	
0009B6	4820 C074		02074	936	LH	R2,ZIGN	ACTUAL IGN
0009BA	4110 D477		00477	937	LA	R1,ZFOSTA-1	ADDR OF BYTE PRECEED FSTAB
0009BE	1929			938	SWILA2 CR	R2,R9	COMPARE DECLAR AD AND CUR IGN
0009C0	4720 A9F2		009F2	939	BH	SWILA3	CHECK EMBRACING IGN TO CUR IGN
0009C4	4780 A80C		0080C	940	BE	LETTER1	
0009C8	9140 C0AE		020AE	941	TM	STATUS,SSWITCH	IN SWITCH DECLARATION ?
0009CC	4780 A9E8		009E8	942	BZ	SWILA21	NO, SERIOUS ERROR
0009D0	D203 C00C C0A8 0200C	020A8		943	MVC	ZBEGERR,OPSTART	YES, GIVE WARNING MESSAGE
0009D6	5080 C010		02010	944	ST	R8,ZENDERR	
0009DA	D201 C014 BF8A 02014	01F8A		945	MVC	ZERRONU,SWITCHER	
0009E0	45F0 B52C		0152C	946	BAL	R15,MOVERRO	
0009E4	47F0 A80C		0080C	947	B	LETTER1	
				948 *			00895001
0009E8	D201 C014 BF82 02014	01F82		949	SWILA21 MVC	ZERRONU,GOTOFOR	
0009EE	47F0 B4CE		014CE	950	B	INCOROP	
				951 *			00896001
0009F2	1852			952	SWILA3 LR	R5,R2	COMPUTE ADDR OF IGN-TAB-ENTR
0009F4	1A52			953	AR	R5,R2	
0009F6	1A52			954	AR	R5,R2	
0009F8	4155 D6CD		006CD	955	LA	R5,GPTAB(R5)	3+ZIGNEMB
0009FC	9500 5002		00002	956	CLI	2(R5),0	GPTAB+3*ZIGNEMB
000A00	4780 AA0E		00A0E	957	BE	SWILA4	TEST IF FORGROUP
000A04	D200 AA0D 5002 00A0D	00002		958	MVC	*+9(1),2(R5)	NO
000A0A	9620 1000		00000	959	OI	0(R1),X'20'	ADDR ACTUAL ENTRY IN FSTAB
							SET BIT IND BRANCH OUT OF FS



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000A0E	D201 C182	5000	02182	00000	960	SWILA4 MVC ALIGNH(2),0(R5)	00909001
000A14	5820 C180			02180	961	L R2,ALIGN	00910001
000A18	47F0 A9BE		009BE	962	B	SWILA2	00911001
				963	*		00912001
				964	*	CRITI	00913001
				965	*		00914001
				966	*	ROUTINE ENTRED WHEN A CRITICAL IDENTIFIER IS FOUND IN	00915001
				967	*	ITAB. IF THE IDENTIFIER APPEARS BETWEEN FOR AND DO A NEW	00916001
				968	*	CHAINED CRIDTAB-ENTRY IS MADE. OTHERWISE ONLY THE	00917001
				969	*	FSTAB-ENTRY IS TREATED	00918001
				970	*		00919001
				971	*	WORK REG R1,R8	00920001
				972	*		00921001
000A1C	9500 C0B1		020B1	973	CRITI	CLI ZFORTEST,X'00'	00922001
000A20	4770 AA9E		00A9E	974	BNE	CRITIF	00923001
				975	*		00924001
000A24	D503 C020	C01C	02020	0201C	976	CLC ZARSP0(4),ZARNO	00925001
000A2A	4770 A80C			0080C	977	BC 7,LETTER1	00926001
000A2E	5810 C0C0			020C0	978	L R1,PFA	00927001
000A32	D502 1001	7008	00001	00008	979	CRITI1 CLC 1(3,R1),8(R7)	00928001
000A38	4780 AA44			00A44	980	BE CRIT2	00929001
000A3C	4B10 BF62			01F62	981	SH R1,KH9	00930001
000A40	47F0 AA32		00A32	982	B	CRITI1	00931001
				983	*		00932001
000A44	9516 3000		00000	984	CRITI2	CLI 0(R3),X'16'	00933001
000A48	4780 AA66		00A66	985	BE	CRITI3	00934001
000A4C	9180 1004		00004	986	TM	4(R1),X'80'	00935001
000A50	4780 A80C		0080C	987	BZ	LETTER1	00936001
000A54	1B55			988	SR	R5,R5	00937001
000A56	4350 1000		00000	989	IC	R5,0(,R1)	00938001
000A5A	4155 D478		00478	990	LA	R5,ZFOSTA(R5)	00939001
000A5E	9680 5000		00000	991	OI	0(R5),X'80'	00940001
000A62	47F0 A80C		0080C	992	B	LETTER1	00941001
				993	*		00942001
				994	*	IDENTIFIER FOLLOWED BY ASSIGNMENT	00943001
				995	*		00944001
000A66	1B55			996	CRITI3	SR R5,R5	00945001
000A68	4350 1000		00000	997	IC	R5,0(,R1)	00946001
000A6C	4155 D478		00478	998	LA	R5,ZFOSTA(R5)	00947001
000A70	9180 1004		00004	999	TM	4(R1),X'80'	00948001
000A74	4710 AA96		00A96	1000	BO	CRIT4	00949001
000A78	96F0 5000		00000	1001	OI	0(R5),NORMAL	00950001
000A7C	9140 1004		00004	1002	TM	4(R1),X'40'	00951001
000A80	4780 A80C		0080C	1003	BZ	LETTER1	00952001
000A84	D201 C182	1005	02182	00005	1004	MVC ALIGNH(2),5(R1)	00953001
000A8A	5810 C180			02180	1005	L R1,ALIGN	00954001
000A8E	5A10 C0D0		020D0	1006	A	R1,ZFOCRI	00955001
000A92	47F0 AA66		00A66	1007	B	CRITI3	00956001
				1008	*		00957001
000A96	9640 5000		00000	1009	CRITI4	OI 0(R5),X'40'	00958001
000A9A	47F0 A80C		0080C	1010	B	LETTER1	00959001
				1011	*		00960001
				1012	*	TREATMENT OF CRIT ID IN FOR-LIST	00961001
				1013	*		00962001
000A9E	45E0 AB7C		00B7C	1014	CRITIF	BAL R14,CRIMA	00963001
000AA2	5880 C0C0		020C0	1015	L	R8,PFA	00964001
000AA6	1818			1016	LR	R1,R8	00965001
000AA8	4B10 BF62		01F62	1017	CRITIF1	SH R1,KH9	00966001
000AAC	5910 C0C4		020C4	1018	C	R1,PFANO	00967001
000AB0	47D0 A80C		0080C	1019	BNH	LETTER1	00968001
000AB4	D502 1001	8001	00001	1020	CLC	1(3,R1),1(R8)	00969001
000ABA	4770 AAA8		00AA8	1021	BNE	CRITIF1	00970001
				1022	*		00971001
000ABE	45F0 AB52		00B52	1023	BAL	R15,PUTCHAIN	00972001
000AC2	9180 8004		00004	1024	TM	4(R8),X'80'	00973001
000AC6	4780 AB02		00B02	1025	BZ	CRITIN	00974001
				1026	*		00975001
				1027	*	TREATMENT OF CONTROLLED VARIABLE	00976001
				1028	*		00977001
000ACA	1B55			1029	CRITIC	SR R5,R5	00978001
000ACC	4350 1000		00000	1030	IC	R5,0(,R1)	00979001
000AD0	4155 D478		00478	1031	LA	R5,ZFOSTA(R5)	00980001
000AD4	9180 1004		00004	1032	TM	4(R1),X'80'	00981001
000AD8	4710 AAFA		00AFA	1033	BO	CRITIC1	00982001
000ADC	96F0 5000		00000	1034	OI	0(R5),NORMAL	00983001
000AE0	9140 1004		00004	1035	TM	4(R1),X'40'	00984001
000AE4	4780 A80C		0080C	1036	BZ	LETTER1	00985001
000AE8	D201 C182	1005	02182	00005	1037	MVC ALIGNH(2),5(R1)	00986001
000AEE	5810 C180		02180	1038	L	R1,ALIGN	00987001
000AF2	5A10 C0D0		020D0	1039	A	R1,ZFOCRI	00988001
000AF6	47F0 AACA		00ACA	1040	B	CRITIC	00989001
				1041	*		00990001
000AFA	9640 5000		00000	1042	CRITIC1	OI 0(R5),X'40'	00991001
000AFE	47F0 A80C		0080C	1043	B	LETTER1	00992001
				1044	*		00993001
				1045	*	TREATMENT OF NON-CONTROLLED VARIABLE	00994001
				1046	*		00995001
000B02	9180 1004		00004	1047	CRITIN	TM 4(R1),X'80'	00996001
000B06	4710 AB24		00B24	1048	BO	CRITIN1	00997001
000B0A	9140 1004		00004	1049	TM	4(R1),X'40'	00998001
000B0E	4780 A80C		0080C	1050	BZ	LETTER1	00999001
000B12	D201 C182	1005	02182	00005	1051	MVC ALIGNH(2),5(R1)	01000001
000B18	5810 C180		02180	1052	L	R1,ALIGN	01001001
000B1C	5A10 C0D0		020D0	1053	A	R1,ZFOCRI	01002001
000B20	47F0 AB02		00B02	1054	B	CRITIN	01003001
				1055	*		01004001

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000B24	1B55			1056	CRITIN1	SR R5,R5	GET ADDR OF CHAINED FSTAB ENTRY 01005001
000B26	4350 1000		00000	1057	IC	R5,0(,R1)	01006001
000B2A	4155 D478		00478	1058	LA	R5,ZFOSTA(R5)	01007001
000B2E	D500 1000	C0B3	00000	1059	CLC	0(1,R1),ZFSN	CHAINED ENTRY PART OF ACTIVE FOR 01008001
000B34	4780 AB4A		00B4A	1060	BE	CRITIN2	YES 01009001
000B38	D503 C020	C01C	02020	1061	CLC	ZARSP0(4),ZARNO	CURRENTLY HANDLING A SUBSCRIPT ? 01010001
000B3E	4770 A80C		0080C	1062	BNE	LETTER1	YES, RETURN 01011001
000B42	9680 5000		00000	1063	OI	0(R5),X'80'	SET ELEMENTARY LOOP 01012001
000B46	47F0 A80C		0080C	1064	B	LETTER1	01013001
				1065	*		01014001
000B4A	96F0 5000		00000	1066	CRITIN2	OI 0(R5),NORMAL	INDICATE NORMAL LOOP 01015001
000B4E	47F0 A80C		0080C	1067	B	LETTER1	01016001
				1068	*		01017001
				1069	*	PUTCHAIN	01018001
				1070	*		01019001
				1071	*	ROUTINE TO CHAIN NEW CRIDTAB ENTRY TO PREVIOUS	01020001
				1072	*		01021001
				1073	*	RETURN VIA R15	01022001
				1074	*	RECEIVED REG R8, R1	01023001
				1075	*		01024001
000B52	9640 8004		00004	1076	PUTCHAIN	OI 4(R8),X'40'	BIT FOR PREVIOUS CRITICAL IDENT 01025001
000B56	9620 1004		00004	1077	OI	4(R1),X'20'	BIT FOR SUBSEQUENT CRIT IDENT 01026001
000B5A	5860 C0D0		020D0	1078	L	R6,ZFOCRI	CRIDTAB START ADDR 01027001
000B5E	1851			1079	LR	R5,R1	GET BACKWARD CHAIN 01028001
000B60	1B56			1080	SR	R5,R6	01029001
000B62	5050 C180		02180	1081	ST	R5,ALIGN	01030001
000B66	D201 8005	C182	00005	1082	MVC	5(2,R8),ALIGNH	01031001
000B6C	1858			1083	LR	R5,R8	GET FORWARD CHAIN 01032001
000B6E	1B56			1084	SR	R5,R6	01033001
000B70	5050 C180		02180	1085	ST	R5,ALIGN	01034001
000B74	D201 1007	C182	00007	1086	MVC	7(2,R1),ALIGNH	01035001
000B7A	07FF			1087	BR	R15	RETURN 01036001
				1088	*		01037001
				1089	*	CRIMA	01038001
				1090	*		01039001
				1091	*	SUBROUTINE TO MAKE A NEW CRIDTAB ENTRY	01040001
				1092	*		01041001
				1093	*	IN CASE OF CRIDTAB OVERFLOW THE ROUTINE CRIFLOW IS	01042001
				1094	*	ENTRED TO DELETE FROM CRIDTAB ALL ENTRIES BELONG TO THE	01043001
				1095	*	MOST EMBRACING FOR-STATEMENT. CRIFODEL IS ENTERED IF AN	01044001
				1096	*	ARRAY ELEMENT IS HANDLED	01045001
				1097	*		01046001
				1098	*	RETURN VIA R14	01047001
				1099	*	RECEIVED REG R7 POINTER TO ACTUELL ITAB ENTRY	01048001
				1100	*	WORK REG R8	01049001
				1101	*	SUBROUTINE CRIFLOW, LETRAF, CRIFODEL, SUCRIDEL	01050001
				1102	*		01051001
000B7C	9104 7007		00007	1103	CRIMA	TM 7(R7),X'04'	ARRAY ? 01052001
000B80	4710 AC28		00C28	1104	BO	CRIMA1	YES, NO OPTIMIZATION POSSIBLE 01053001
000B84	5880 C0C0		020C0	1105	L	R8,PFA	CURRENT CRIDTAB PTR 01054001
000B88	91C0 C0B1		020B1	1106	TM	ZFORTEST,X'C0'	CONTROLLED VARIABLE ? 01055001
000B8C	4710 ABE8		00BE8	1107	BO	CRIMAC	YES 01056001
				1108	*		01057001
				1109	*	TREATMENT OF 'NOT CONTROLLED' VARIABLE	01058001
				1110	*		01059001
000B90	5980 C0C8		020C8	1111	C	R8,PFAMAX	CRIDTAB OVERFLOW ? 01060001
000B94	4780 AB06		00BD6	1112	BE	CRIMAN1	YES 01061001
000B98	4180 8009		00009	1113	CRIMAN2	LA R8,9(,R8)	UPDATE CURRENT PTR 01062001
000B9C	9200 8004		00004	1114	MVI	4(R8),X'00'	FLAG BYTE SHOWS NO CNTL VARIABLE 01063001
000BA0	9102 7007		00007	1115	TM	7(R7),X'02'	INTEGER ? 01064001
000BA4	4780 ABB0		00BB0	1116	BZ	CRIMA2	YES 01065001
000BA8	5850 C0CC		020CC	1117	L	R5,ZFSPTR	ADDR FSTAB ENTRY 01066001
000BAC	9680 5000		00000	1118	OI	0(R5),NOCOUNT	CLASSIFY AS NOT COUNTING LOOP 01067001
				1119	*		01068001
000BB0	D202 8001 7008	00001	00008	1120	CRIMA2	MVC 1(3,R8),8(R7)	MOVE ADDR PART TO CRIDTAB 01069001
000BB6	D200 8000	C0B3	00000	1121	MVC	0(1,R8),ZFSN	MOVE FSN TO CRIDTAB 01070001
000BBC	1857			1122	LR	R5,R7	GET RELATIVE ADDR IN ITAB 01071001
000BBE	5B50 BFF4		01FF4	1123	S	R5,ZIBSTAO	01072001
000BC2	5050 C180		02180	1124	ST	R5,ALIGN	ITAB RELATIVE ADDR 01073001
000BC6	D201 8005	C182	00005	1125	MVC	5(2,R8),ALIGNH	01074001
000BCC	9606 7006		00006	1126	OI	6(R7),X'06'	TURN ON SPECIAL USE BITS 01075001
000BD0	5080 C0C0		020C0	1127	ST	R8,PFA	SAVE CURRENT PTR 01076001
000BD4	07FE			1128	BR	R14	RETURN 01077001
				1129	*		01078001
000BD6	45F0 AC36		00C36	1130	CRIMAN1	BAL R15,CRIFLOW	DELETE MOST EMBRACING FOR-STAT 01079001
000BDA	5980 C0C4		020C4	1131	C	R8,PFANO	ALL CRIDTAB DELETED ? 01080001
000BDE	4770 AB98		00B98	1132	BNE	CRIMAN2	NO 01081001
000BE2	9200 C0B1		020B1	1133	MVI	ZFORTEST,0	NO MORE CRIDTAB ENT TO BE DONE 01082001
000BE6	07FE			1134	BR	R14	01083001
				1135	*		01084001
000BE8	9102 7007		00007	1136	CRIMAC	TM 7(R7),X'02'	INTEGER ? 01085001
000BEC	4780 AC10		00C10	1137	BZ	CRIMAC1	YES 01086001
000BF0	5850 C0CC		020CC	1138	L	R5,ZFSPTR	CURRENT FSTAB PTR 01087001
000BF4	9680 5000		00000	1139	OI	0(R5),X'80'	SET BIT FOR ELEMENTARY LOOP 01088001
000BF8	5980 C0C8		020C8	1140	CRIMAC4	C R8,PFAMAX	OVERFLOW ? 01089001
000BFC	4780 AC20		00C20	1141	BE	CRIMAC2	YES 01090001
000C00	4180 8009		00009	1142	CRIMAC3	LA R8,9(,R8)	UPDATE CURRENT PTR 01091001
000C04	9280 C0B1		020B1	1143	MVI	ZFORTEST,X'80'	INDICATE CONTROL VAR TREATED 01092001
000C08	9280 8004		00004	1144	MVI	4(R8),X'80'	SET BIT FOR CONTROLLED VAR 01093001
000C0C	47F0 ABB0		00BB0	1145	B	CRIMA2	01094001
				1146	*		01095001
000C10	5980 C0C4		020C4	1147	CRIMAC1	C R8,PFANO	NESTED FOR STATEMENT ? 01096001
000C14	4780 AC00		00C00	1148	BE	CRIMAC3	NO 01097001
000C18	4590 AE18		00E18	1149	BAL	R9,LETRAF	MAKE LVTAB ENTRY 01098001
000C1C	47F0 ABF8		00BF8	1150	B	CRIMAC4	01099001
				1151	*		01100001

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000C20	45F0 AC36		00C36	1152	CRIMAC2	BAL R15,CRIFLOW	CRIDTAB OVERFLOW 01101001
000C24	47F0 AC00		00C00	1153		B CRIMAC3	01102001
				1154	*		01103001
000C28	5850 C0CC		020CC	1155	CRIMA1	L R5,ZFSPTR	CURRENT FSTAB PTR 01104001
000C2C	96F0 5000	00000		1156	OI	0(R5),NORMAL	NORMAL LOOP 01105001
000C30	9200 C0B1	020B1		1157	MVI	ZFORTTEST,0	NO MORE CRIDTAB ENTRIES 01106001
000C34	07FE			1158	BR	R14	RETURN 01107001
				1159	*		01108001
				1160	*	CRIFLOW	01109001
				1161	*		01110001
				1162	*	THE SUBROUTINE IS ENTERED AT CRIDTAB OVERFLOW TO	01111001
				1163	*	DELETE ALL CRIDTAB ENTRIES BELONGING TO THE MOST	01112001
				1164	*	EMBRACING FOR STATEMENT	01113001
				1165	*		01114001
				1166	*	RETURN VIA R15	01115001
				1167	*	WORK REG R1, R2, R9	01116001
				1168	*		01117001
000C36	5820 C0D0		020D0	1169	CRIFLOW	L R2,ZFOCRI	CRIDTAB START ADDR 01118001
000C3A	D500 2000	8000 00000	00000	1170	CLC	0(1,R2),0(R8)	ALL ENTRIES FROM SAME FOR ST ? 01119001
000C40	4780 AD00		00D00	1171	BE	DELCRIV	YES, DELETE WHOLE CRIDTAB 01120001
000C44	D200 C0B4	2000 020B4	00000	1172	MVC	FSNEMBR(1),0(R2)	SAVE MOST EMBRACING FSN 01121001
000C4A	D500 2000	C0B4 00000	020B4	1173	CRIFLOW1	CLC 0(1,R2),FSNEMBR	ENTRY OF MOST EMBRACING FOR ST ? 01122001
000C50	4770 AC92		00C92	1174	BNE	CRIFLOW2	NO 01123001
000C54	9120 2004	00004		1175	TM	4(R2),X'20'	SUBSEQUENT CHAINED ENTRY ? 01124001
000C58	4710 AC76		00C76	1176	BO	CRIFLOW3	YES 01125001
000C5C	D201 C182	2005 02182	00005	1177	MVC	ALIGNH(2),5(R2)	ADDR ITAB ENTRY 01126001
000C62	5850 C180		02180	1178	L	R5,ALIGN	01127001
000C66	5A50 BFF4		01FF4	1179	A	R5,ZIBSTAO	01128001
000C6A	94F9 5006	00006		1180	NI	6(R5),X'F9'	SET SPECIAL USE BITS TO 00 01129001
000C6E	4120 2009		00009	1181	CRIFLOW4	LA R2,9(0,R2)	ADDR NEXT CRIDTAB ENTRY 01130001
000C72	47F0 AC4A		00C4A	1182	B	CRIFLOW1	01131001
				1183	*		01132001
000C76	D201 C182	2007 02182	00007	1184	CRIFLOW3	MVC ALIGNH(2),7(R2)	ADDR CHAINED ENTRY 01133001
000C7C	5850 C180		02180	1185	L	R5,ALIGN	01134001
000C80	5A50 C0D0		020D0	1186	A	R5,ZFOCRI	01135001
000C84	94B0 5004	00004		1187	NI	4(R5),X'B0'	TURN OFF BIT FOR PRECEED ENTRY 01136001
000C88	D201 5005	2005 00005	00005	1188	MVC	5(2,R5),5(R2)	INSERT RELATIVE ITAB ADDR 01137001
000C8E	47F0 AC6E		00C6E	1189	B	CRIFLOW4	01138001
				1190	*		01139001
000C92	1B55			1191	CRIFLOW2	SR R5,R5	ADDR FSTAB ENTRY OF DEL FOR 01140001
000C94	4350 C0B4		020B4	1192	IC	R5,FSNEMBR	01141001
000C98	4155 D478		00478	1193	LA	R5,ZFOSTA(R5)	01142001
000C9C	96F0 5000	00000		1194	OI	0(R5),NORMAL	NORMAL LOOP 01143001
000CA0	5890 C0D0		020D0	1195	L	R9,ZFOCRI	CRIDTAB START ADDR 01144001
000CA4	1812			1196	LR	R1,R2	01145001
000CA6	1B19			1197	SR	R1,R9	GET LENGTH OF DELETED PART 01146001
				1198	*		01147001
000CA8	9140 2004	00004		1199	CRIFLOW5	TM 4(R2),X'40'	PRECEEDING CRIDTAB ENTRY ? 01148001
000CAC	4780 ACC6		00CC6	1200	BZ	CRIFLOW6	NO 01149001
000CB0	D201 C182	2005 02182	00005	1201	MVC	ALIGNH(2),5(R2)	DECREASE CHAIN ADDR 01150001
000CB6	5850 C180		02180	1202	L	R5,ALIGN	01151001
000CBA	1B51			1203	SR	R5,R1	01152001
000CBC	5050 C180		02180	1204	ST	R5,ALIGN	01153001
000CC0	D201 2005	C182 00005	02182	1205	MVC	5(2,R2),ALIGNH	01154001
000CC6	9120 2004	00004		1206	CRIFLOW6	TM 4(R2),X'20'	SUBSEQUENT CRITAB ENTRY ? 01155001
000CCA	4780 ACE4		00CE4	1207	BZ	CRIFLOW7	01156001
000CCE	D201 C182	2007 02182	00007	1208	MVC	ALIGNH(2),7(R2)	DECREASE CHAIN ADDR 01157001
000CD4	5850 C180		02180	1209	L	R5,ALIGN	01158001
000CD8	1B51			1210	SR	R5,R1	01159001
000CDA	5050 C180		02180	1211	ST	R5,ALIGN	01160001
000CDE	D201 2007	C182 00007	02182	1212	MVC	7(2,R2),ALIGNH	01161001
000CE4	D208 9000	2000 00000	00000	1213	CRIFLOW7	MVC 0(9,R9),0(R2)	MOVE ENTRY DOWN IN CRIDTAB 01162001
000CEA	1928			1214	CR	R2,R8	LAST ENTRY ? 01163001
000CEC	4780 ACFC		00CFC	1215	BE	CRIFLOW8	YES 01164001
000CF0	4120 2009		00009	1216	LA	R2,9(,R2)	ADDR NEXT ENTRY 01165001
000CF4	4190 9009		00009	1217	LA	R9,9(,R9)	01166001
000CF8	47F0 ACA8		00CA8	1218	B	CRIFLOW5	01167001
				1219	*		01168001
000CFC	1B81			1220	CRIFLOW8	SR R8,R1	GET ADDR OF LAST CRIDTAB-ENT 01169001
000CFE	07FF			1221	BR	R15	01170001
				1222	*		01171001
				1223	*	DELCRIV	01172001
				1224	*		01173001
				1225	*	ROUTINE TO DELETE ALL ENTRIES IN CRIDTAB AND TURN OFF	01174001
				1226	*	THE SPECIAL USE BITS OF CORRESPONDING ITAB ENTRY. ALL	01175001
				1227	*	FOR-STATEMENTS WITH CRIDTAB ENTRIES WILL BE CLASSIFIED	01176001
				1228	*	NORMAL	01177001
				1229	*		01178001
				1230	*	RETURN VIA R15	01179001
				1231	*	INITIALIZED REG R8	01180001
				1232	*		01181001
000D00	5850 C0D0		020D0	1233	DELCRIV	L R5,ZFOCRI	CRIDTAB START ADDR 01182001
000D04	1B66			1234	DELCRIV1	SR R6,R6	ADDR FSTAB ENTRY 01183001
000D06	4360 5000	00000		1235	IC	R6,0(,R5)	01184001
000D0A	4166 D478		00478	1236	LA	R6,ZFOSTA(R6)	01185001
000D0E	96F0 6000	00000		1237	OI	0(R6),NORMAL	CLASSIFIED NORMAL 01186001
000D12	9140 5004	00004		1238	TM	4(R5),X'40'	IDEN CRIT IN EMBR FOR-STAT ? 01187001
000D16	4710 AD2C		00D2C	1239	BO	DELCRIV2	YES, ITAB ENTRY ALREADY NON CRI 01188001
000D1A	D201 C182	5005 02182	00005	1240	MVC	ALIGNH(2),5(R5)	ADDR ITAB ENTRY 01189001
000D20	5860 C180		02180	1241	L	R6,ALIGN	01190001
000D24	5A60 BFF4		01FF4	1242	A	R6,ZIBSTAO	01191001
000D28	94F9 6006	00006		1243	NI	6(R6),X'F9'	CLEAR SPEC USE BITS 01192001
000D2C	5950 C0C0		020C0	1244	DELCRIV2	C R5,PFA	LAST CRIDTAB ENTRY ? 01193001
000D30	4780 ADC		00D3C	1245	BE	DELCRIV3	YES 01194001
000D34	4150 5009		00009	1246	LA	R5,9(,R5)	ADDR NEXT CRIDTAB ENTRY 01195001
000D38	47F0 AD04		00D04	1247	B	DELCRIV1	01196001

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				1248	*				01197001
000D3C	5880 C0C4		020C4	1249	DELCRIV3	L R8,PFANO			01198001
000D40	5080 C0C0		020C0	1250	ST	R8,PFA			01199001
000D44	07FF			1251	BR	R15			01200001
				1252	*				01201001
				1253	*	CRIFODEL			01202001
				1254	*				01203001
				1255	*	ROUTINE TO DELETE THE CRIDTAB ENTRIES OF THE LAST FOR			01204001
				1256	*	STATEMENT			01205001
				1257	*				01206001
				1258	*	RETURN VIA R15 WORK REG R8			01207001
				1259	*				01208001
000D46	5880 C0C0		020C0	1260	CRIFODEL	L R8,PFA	POINTER TO LAST CRIDTAB-ENTRY		01209001
000D4A	D200 AD59	8000	00D59	00000	1261	MVC CRIFODS+1(1),0(R8)	INSERT FOR STATEMENT NUMBER		01210001
000D50	5980 C0C4		020C4	1262	CRIFOD1	C R8,PFANO	CRIDTAB EMPTY ?		01211001
000D54	4780 AD98		00D98	1263	BE	CRIFOD4	YES, RETURN		01212001
000D58	9500 8000		00000	1264	CRIFODS	CLI 0(R8),0	NEW FORSTATEMENT, OLD FSN INSER		01213001
000D5C	4770 AD98		00D98	1265	BNE	CRIFOD4	YES, RETURN		01214001
000D60	9140 8004		00004	1266	TM	4(R8),X'40'	IDENTIFIER USED IN EMBR FOR-ST		01215001
000D64	4710 AD82		00D82	1267	BO	CRIFOD2	YES		01216001
000D68	D201 C182	8005	02182	00005	1268	MVC ALIGNH(2),5(R8)	CLEAR SPEC USE BITS IN CRIDTAB		01217001
000D6E	5850 C180		02180	1269	L	R5,ALIGN			01218001
000D72	5A50 BFF4		01FF4	1270	A	R5,ZIBSTAO	ABSOLUTE ITAB ADDR		01219001
000D76	94F9 5006		00006	1271	NI	6(R5),X'F9'	CLEAR SPECIAL USE BITS IN ITAB		01220001
000D7A	4B80 BF62		01F62	1272	CRIFOD3	SH R8,KH9	POINT TO PRECEEDING ENTRY		01221001
000D7E	47F0 AD50		00D50	1273	B	CRIFOD1			01222001
				1274	*				01223001
000D82	5850 C0D0		020D0	1275	CRIFOD2	L R5,ZFOCRI	TURN OFF BIT FOR SUBSEQ ENTRY		01224001
000D86	D201 C182	8005	02182	00005	1276	MVC ALIGNH(2),5(R8)	ADDR OF PREVIOUS CRIDTAB-ENT		01225001
000D8C	5A50 C180		02180	1277	A	R5,ALIGN			01226001
000D90	94CF 5004		00004	1278	NI	4(R5),X'CF'	TURN OFF BIT FOR SUBSEQ ENTRY		01227001
000D94	47F0 AD7A		00D7A	1279	B	CRIFOD3	GET NEXT ENTRY		01228001
				1280	*				01229001
000D98	5080 C0C0		020C0	1281	CRIFOD4	ST R8,PFA			01230001
000D9C	07FF			1282	BR	R15			01231001
				1283	*				01232001
				1284	*	SUCRIDEL			01233001
				1285	*				01234001
				1286	*	THE SUBROUTINE IS ENTERED WHEN UNOPTIMIZABLE SUBSCRIPT			01235001
				1287	*	EXPRESSION IS FOUND. A SCAN BETWEEN THE TWO LAST			01236001
				1288	*	SUBSCRIPT OPERATORS IS DONE IN THE OUTPUT BUFFER. IF A			01237001
				1289	*	CONTROLLED CRITICAL IDENTIFIER IS FOUND, CORRESPONDING			01238001
				1290	*	ENTRY IN FSTAB IS MADE ELEMENTARY. OTHERWISE NO ACTION			01239001
				1291	*				01240001
				1292	*	RETURN VIA R15			01241001
				1293	*	WORK REG R1, R2, R14			01242001
				1294	*				01243001
000D9E	D503 C0C0	C0C4	020C0	020C4	1295	SUCRIDEL	CLC PFA(4),PFANO	CRIDTAB EMPTY	01244001
000DA4	078F				1296	BER	R15	YES, RETURN	01245001
000DA6	4120 4001		00001	1297	LA	R2,1(,R4)	ADDR OF LAST SUBSCR OPERAND		01246001
000DAA	5810 C068		02068	1298	L	R1,ZBRACK	ADDR OF FIRST SUBSCR OPERAND		01247001
000DAE	4110 1001		00001	1299	SUCRID1	LA R1,1(,R1)	CHECK NEXT BYTE		01248001
000DB2	1912			1300	SUCRID2	CR R1,R2	END OF SCAN ?		01249001
000DB4	07BF			1301	BNLR	R15	YES, RETURN		01250001
000DB6	9180 1000		00000	1302	TM	0(R1),X'80'	AN OPERAND FOUND ?		01251001
000DBA	4780 ADAE		00DAE	1303	BZ	SUCRID1	NO		01252001
000DBE	9106 1000		00000	1304	TM	0(R1),X'06'	CRITICAL IDENTIFIER ?		01253001
000DC2	4710 ADCE		00DCE	1305	BO	SUCRID4	YES		01254001
000DC6	4110 1005		00005	1306	SUCRID3	LA R1,5(,R1)	ADDR NEXT ELEMENT		01255001
000DCA	47F0 ADB2		00DB2	1307	B	SUCRID2			01256001
				1308	*				01257001
				1309	*	TREATMENT OF CRITICAL IDENTIFIERS			01258001
				1310	*				01259001
000DCE	58E0 C0C0		020C0	1311	SUCRID4	L R14,PFA	ADDR OF LAST CRIDTAB ENTRY		01260001
000DD2	41E0 E009		00009	1312	LA	R14,9(,R14)			01261001
000DD6	4BE0 BF62		01F62	1313	SUCRID5	SH R14,KH9	FIND IDENTIFIER IN CRIDTAB		01262001
000DDA	D502 E001	1002	00001	00002	1314	CLC	1(3,R14),2(R1)	IDENTIFIER FOUND ?	01263001
000DE0	4770 ADD6		00DD6	1315	BNE	SUCRID5	NO		01264001
				1316	*				01265001
000DE4	9180 E004		00004	1317	SUCRID6	TM 4(R14),X'80'	CONTROLLED VARIABLE ?		01266001
000DE8	4780 ADFE		00DFE	1318	BZ	SUCRID7	NO		01267001
000DEC	4150 D478		00478	1319	LA	R5,ZFOSTA	ADDR OF FSTAB		01268001
000DF0	D200 ADF9	E000	00DF9	00000	1320	MVC	*+9(1),0(R14)	DISPLACEMENT EQUALS FOR NUMBER	01269001
000DF6	9680 5000		00000	1321	OI	0(R5),X'80'	ELEMENTARY LOOP		01270001
000DFA	47F0 ADC6		00DC6	1322	B	SUCRID3			01271001
				1323	*				01272001
				1324	*	FIND CHAINED CONTROLLED VARIABLE			01273001
				1325	*				01274001
000DFE	9140 E004		00004	1326	SUCRID7	TM 4(R14),X'40'	ANY CHAINING ?		01275001
000E02	4780 ADC6		00DC6	1327	BZ	SUCRID3	NO		01276001
000E06	D201 C182	E005	02182	00005	1328	MVC	ALIGNH(2),5(R14)	CRIDTAB CHAIN	01277001
000E0C	58E0 C180		02180	1329	L	R14,ALIGN			01278001
000E10	5AE0 C0D0		020D0	1330	A	R14,ZFOCRI	ADDR CHAINED ENTRY		01279001
000E14	47F0 ADE4		00DE4	1331	B	SUCRID6			01280001
				1332	*				01281001
				1333	*	LETRAF			01282001
				1334	*				01283001
				1335	*	MAKE ENTRIES IN LVTAB CORRESPONDING TO ALL			01284001
				1336	*	SUBSCRIPTABLE NESTED FOR-STATEMENTS			01285001
				1337	*				01286001
				1338	*	RETURN VIA R9			01287001
				1339	*	RECIEVED REG R7, WORK REG R1, R2, R6			01288001
				1340	*				01289001
000E18	95FF C0B2		020B2	1341	LETRAF	CLI ZLVOV,X'FF'	TABLE OVERFLOW OCCURED ?		01290001
000E1C	0789			1342	BER	R9	YES		01291001
000E1E	5810 C0C0		020C0	1343	L	R1,PFA	ADDR OF LAST CRIDTAB ENTRY		01292001



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000E22	1821			1344	LETRAF1	LR R2,R1	01293001
000E24	4150 D478		00478	1345	LA	R5,ZFOSTA	01294001
000E28	D200 AE31 1000 00E31 00000		00000	1346	MVC	*+9(1),0(R1) ADDR ACTUAL FSTAB ENTRY	01295001
000E2E	9140 5000		00000	1347	TM	0(R5),NOSUOP	01296001
000E32	4710 AE78		00E78	1348	BO	LETRAF2	01297001
000E36	5860 BFB0		01FB0	1349	L	R6,ZLEVA	01298001
000E3A	5960 BFAC		01FAC	1350	C	R6,ZLESTA	01299001
000E3E	4770 AESC		00E5C	1351	BNE	LETRAF5	NO 01300001
000E42	4550 B5D6		015D6	1352	BAL	R5,CHECK	YES, CHECK 01301001
000E46	D503 BFC0 D104 01FC0 00104		00104	1353	CLC	LVLENGTH(4),LVTAB405	MORE OUTPUT ALLOWED ? 01302001
000E4C	4780 AEB4		00EB4	1354	BNL	LETRAF4	NO 01303001
000E50	4850 BFC4		01FC4	1355	LH	R5,LVCNT	STEP RECORD COUNTER 01304001
000E54	4150 5001		00001	1356	LA	R5,1(,R5)	01305001
000E58	4050 BFC4		01FC4	1357	STH	R5,LVCNT	01306001
000E5C	4160 6004		00004	1358	LETRAF5	LA R6,4(,R6)	01307001
000E60	D200 6000 1000 00000 00000		00000	1359	MVC	0(1,R6),0(R1)	PLUG IN FS NUMBER 01308001
000E66	D202 6001 7008 00001 00008		00008	1360	MVC	1(3,R6),8(R7)	PLUG IN ADDR PART OF CUR ID 01309001
000E6C	5960 BFB4		01FB4	1361	C	R6,ZLEMAX	LVTAB FILLED UP ? 01310001
000E70	4780 AE90		00E90	1362	BE	LETRAF3	YES 01311001
000E74	5060 BFB0		01FB0	1363	LETRAF6	ST R6,ZLEVA	01312001
000E78	4810 BF62		01F62	1364	LETRAF2	SH R1,KH9	GET NEXT CRIDTAB ENTRY 01313001
000E7C	5910 C0C4		020C4	1365	C	R1,PFANO	BEGINNING OF CRIDTAB ? 01314001
000E80	0789			1366	BER	R9	YES, RETURN 01315001
000E82	D500 1000 2000 00000 00000		00000	1367	CLC	0(1,R1),0(R2)	AN ENTRY IN SAME FS ? 01316001
000E88	4780 AE78		00E78	1368	BE	LETRAF2	SAME 01317001
000E8C	47F0 AE22		00E22	1369	B	LETRAF1	NEW 01318001
				1370	*		01319001
000E90	4550 B5D6		015D6	1371	LETRAF3	BAL R5,CHECK	CHECK POSSIBLE WRITE 01320001
000E94	5850 BFB8		01FB8	1372	L	R5,LVSTRT	WRITE START ADDR 01321001
000E98	5860 D0F8		000F8	1373	L	R6,LVTAB30S	LENGTH OF WRITE 01322001
000E9C	45F0 B5F8		015F8	1374	BAL	R15,WRITE	WRITE 01323001
000EA0	5850 BFC0		01FC0	1375	L	R5,LVLENGTH	LENGTH OF LVTAB 01324001
000EA4	5A50 D0F8		000F8	1376	A	R5,LVTAB30S	BUFFER LENGTH 01325001
000EA8	5050 BFC0		01FC0	1377	ST	R5,LVLENGTH	01326001
000EAC	5860 BFAC		01FAC	1378	L	R6,ZLESTA	START ADDR OF LVTAB 01327001
000EB0	47F0 AE74		00E74	1379	B	LETRAF6	01328001
				1380	*		01329001
000EB4	45F0 B678		01678	1381	LETRAF4	BAL R15,TABOFLO	01330001
000EB8	45F0 B52C		0152C	1382	BAL	R15,MOVERRO	01331001
000EBC	07F9			1383	BR	R9	01332001
				1384	*		01333001
				1385	*	SUSCRITE	01334001
				1386	*		01335001
				1387	*	ROUTINE TO CHECK IF AN SUBSCRIPT EXPRESSION IS	01336001
				1388	*	OPTIMIZABLE IN WHAT CASE AN SUTAB-ENTRY IS DONE, OTHER	01337001
				1389	*	SUBROUTINE SUCRIDEL IS ENTERED BEFORE RETURN	01338001
				1390	*		01339001
				1391	*	RETURN VIA R9	01340001
				1392	*	WORK REG R2, R1, R2, R7, R8, R1	01341001
				1393	*	SUBROUTINE LINKS R15, R14, R14	01342001
				1394	*		01343001
000EBE	5810 C068		02068	1395	SUSCRITE	L R1,ZBRACK	INITIALIZE CURRENT POINTER 01344001
000EC2	1854			1396	LR	R5,R4	ADDR OF LAST BYTE OF SUBSCR 01345001
000EC4	4B50 BF5C		01F5C	1397	SH	R5,KH5	ADDR OPERATOR BEFOR LAST OPD 01346001
000EC8	5050 C04C		0204C	1398	ST	R5,SUBEND	01347001
000ECC	9501 1001		00001	1399	CLI	1(R1),XFMINUS	SUBSCRIPT START WITH + OR - 01348001
000ED0	4720 AED8		00ED8	1400	BH	SUB1	NO 01349001
000ED4	4110 1001		00001	1401	LA	R1,1(,R1)	POINT TO BYTE BEFORE OPERAND 01350001
000ED8	5910 C04C		0204C	1402	SUB1	C R1,SUBEND	ANY OPERAND IN SUBSCRIPT ? 01351001
000EDC	0729			1403	BHR	R9	NO, RETURN 01352001
000EDE	45F0 B07C		0107C	1404	BAL	R15,OPERANDR	TEST OPERAND 01353001
000EE2	5910 C04C		0204C	1405	C	R1,SUBEND	END OF SUBSCRIPT 01354001
000EE6	4780 AEF0		00EFC	1406	BE	SUBONE	01355001
000EEA	9502 1006		00006	1407	CLI	6(R1),XFASTER	WHAT FOLLOWS FIRST OPERAND 01356001
000EEE	4740 AF80		00F80	1408	BL	SUBPM	PLUS OR MINUS ? 01357001
000EF2	4780 AFE0		00FE0	1409	BE	SUBAST	ASTERISK 01358001
				1410	*		01359001
				1411	*	UNOPTIMIZABLE SUBSCRIPT EXPRESSION	01360001
				1412	*		01361001
000EF6	45F0 AD9E		00D9E	1413	SUBNOOP	BAL R15,SUCRIDEL	HANDLE UNOPTIMIZABLE EXPRESSION 01362001
000EFA	07F9			1414	BR	R9	RETURN 01363001
				1415	*		01364001
				1416	*	ONLY ONE OPERAND	01365001
				1417	*		01366001
000EFC	1282			1418	SUBONE	LTR R8,R2	CONTROLLED VARIABLE ? 01367001
000EFE	4720 AF6A		00F6A	1419	BP	SUBONE3	YES 01368001
000F02	D205 C050 1000 02050 00000		00000	1420	MVC	ADDEND(6),0(R1)	OPERAND IS ADDEND 01369001
000F08	D205 C056 C05C 02056 0205C		0205C	1421	MVC	FACTOR(6),ZEROELEM	SET FACTOR TO ZERO 01370001
000F0E	5880 C0D0		020D0	1422	L	R8,ZFOCRI	ADDR OF LAST CRIDTAB ENTRY 01371001
000F12	5820 C020		02020	1423	L	R2,ZARSP0	ADDR CURRENT ARIDSTAB ENTRY 01372001
000F16	1B55			1424	SUBONE1	SR R5,R5	GET FSN 01373001
000F18	4350 8000		00000	1425	IC	R5,0(,R8)	01374001
000F1C	4250 AF5F		00F5F	1426	STC	R5,OLDFSN	01375001
000F20	4165 D478		00478	1427	LA	R5,ZFOSTA(R5)	ADDR FSTAB ENTRY 01376001
000F24	9140 6000		00000	1428	TM	0(R6),X'40'	SUBSCRIPT OPTIMIZATION POSSIBLE 01377001
000F28	4710 AF54		00F54	1429	BO	SUBONE2	01378001
000F2C	5820 C020		02020	1430	L	R2,ZARSP0	ADDR LAST ARIDSTACK ENTRY 01379001
000F30	4165 D5D0		005D0	1431	LA	R6,SPTAB(R5)	ADDR SPTAB ENTRY 01380001
000F34	D500 6000 2000 00000 00000		00000	1432	CLC	0(1,R6),0(R2)	SCOPE OF ARRAY OK 01381001
000F3A	4740 AF54		00F54	1433	BL	SUBONE2	NO 01382001
000F3E	9130 C052		02052	1434	TM	ADDEND+2,X'30'	CONSTANT ? 01383001
000F42	4780 AF50		00F50	1435	BZ	SUBONE4	YES 01384001
000F46	D500 6000 C053 00000 02053		02053	1436	CLC	0(1,R6),ADDEND+3	SCOPE TEST OF ADDEND 01385001
000F4C	4740 AF54		00F54	1437	BL	SUBONE2	NOT OK 01386001
000F50	45E0 B10C		0110C	1438	SUBONE4	R14,SUTABENT	MAKE SUTAB ENTRY 01387001
000F54	5980 C0C0		020C0	1439	SUBONE2	C R8,PFA	END OF CRIDTAB 01388001

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000F58	0789			1440	BER	R9	YES, RETURN 01389001
000F5A	4180 8009		00009	1441	LA	R8,9(,R8)	FIND ENCLOSED FOR STATEMENT 01390001
		00F5F		1442	OLDFSN	EQU	*+1 01391001
000F5E	9500 8000		00000	1443	CLI	0(R8),0	ENTRY TO SAME FOR STATEMENT ? 01392001
000F62	4780 AF54		00F54	1444	BE	SUBONE2	YES, CHECK NEXT ENTRY 01393001
000F66	47F0 AF16		00F16	1445	B	SUBONE1	NO, POSSIBLY NEW SUTAB ENTRY 01394001
				1446	*		01395001
				1447	*	OPERAND IS CONTROLLED VARIABLE	01396001
				1448	*		01397001
000F6A	D200 C056 1000 02056 00000		00000	1449	SUBONE3	MVC FACTOR(1),0(R1)	OPERATOR TO FACTOR 01398001
000F70	D204 C057 C063 02057 02063		02063	1450	MVC	FACTOR+1(5),ONEELEM+1	SET FACTOR TO ONE 01399001
000F76	D205 C050 C05C 02050 0205C		0205C	1451	SUBONE5	MVC ADDEND(6),ZEROELEM	SET ADDEND TO ZERO 01400001
000F7C	47F0 B01E		0101E	1452	B	SUBFIN1	01401001
				1453	*		01402001
				1454	*	FIRST OPERAND FOLLOWED BY + OR -	01403001
				1455	*		01404001
000F80	D205 C050 1000 02050 00000		00000	1456	SUBPM	MVC ADDEND(6),0(R1)	FIRST OPERAND PROBABLY ADDEND 01405001
000F86	1872			1457	LR	R7,R2	SAVE CRDITAB POINTER 01406001
000F88	4110 1006		00006	1458	LA	R1,6(0,R1)	ADDR SIGN OF SECOND OPERAND 01407001
000F8C	45F0 B07C		0107C	1459	BAL	R15,OPERANDR	CHECK SECOND OPERAND 01408001
000F90	5910 C04C		0204C	1460	C	R1,SUBEND	END OF SUBSCRIPT ? 01409001
000F94	4780 AFA8		00FA8	1461	BE	SUBPM1	YES 01410001
000F98	9502 1006		00006	1462	CLI	6(R1),XFASTER	ASTERISK SHOULD FOLLOW 01411001
000F9C	4770 AEF6		00EF6	1463	BNE	SUBNOOP	NOT OPTIMIZABLE 01412001
000FA0	45E0 B0CE		010CE	1464	BAL	R14,SUBMULT	CHECK MULTIPLICATION 01413001
000FA4	47F0 B004		01004	1465	B	SUBFIN	TERMINATE 01414001
				1466	*		01415001
000FA8	1927			1467	SUBPM1	CR R2,R7	WHAT IS SECOND OPERAND ? 01416001
000FAA	4740 AFC4		00FC4	1468	BL	SUBPM3	ADDEND 01417001
000FAE	4780 AFD8		00FD8	1469	BE	SUBPM4	NOT OPTIMIZABLE EXPRESSION 01418001
000FB2	1882			1470	LR	R8,R2	ADDR CRDITAB ENTRY OF CONTR 01419001
000FB4	D200 C056 1000 02056 00000		00000	1471	MVC	FACTOR(1),0(R1)	SIGN OF FACTOR 01420001
000FBA	D204 C057 C063 02057 02063		02063	1472	SUBPM2	MVC FACTOR+1(5),ONEELEM+1	SET FACTOR TO ONE 01421001
000FC0	47F0 B004		01004	1473	B	SUBFIN	01422001
				1474	*		01423001
000FC4	1887			1475	SUBPM3	LR R8,R7	SECOND OPERAND ADDEND, SHIFT 01424001
000FC6	1872			1476	LR	R7,R2	01425001
000FC8	D200 C056 C050 02056 02050		02050	1477	MVC	FACTOR(1),ADDEND	SIGN OF FACTOR 01426001
000FCE	D205 C050 1000 02050 00000		00000	1478	MVC	ADDEND(6),0(R1)	01427001
000FD4	47F0 AFBA		00FBA	1479	B	SUBPM2	01428001
				1480	*		01429001
000FD8	1287			1481	SUBPM4	LTR R8,R7	CONTROLLED VARIABLE ? 01430001
000FDA	0789			1482	BZR	R9	NO 01431001
000FDC	47F0 B06C		0106C	1483	B	SUBFIN4	YES 01432001
				1484	*		01433001
				1485	*	FIRST OPERAND FOLLOWED BY ASTERISK	01434001
				1486	*		01435001
000FE0	45E0 B0CE		010CE	1487	SUBAST	BAL R14,SUBMULT	CHECK MULTIPLICATION 01436001
000FE4	5910 C04C		0204C	1488	C	R1,SUBEND	END OF SUBSCRIPT ? 01437001
000FE8	4780 AF76		00F76	1489	BE	SUBONE5	YES, SET ADDEND TO ZERO 01438001
000FEC	9501 1006		00006	1490	CLI	6(R1),XFMINUS	PLUS OR MINUS 01439001
000FF0	4720 AEF6		00EF6	1491	BH	SUBNOOP	NO, NO SUBSCRIPT OPTIMIZATION 01440001
000FF4	4110 1006		00006	1492	LA	R1,6(,R1)	ADDR SIGN 01441001
000FF8	45F0 B07C		0107C	1493	BAL	R15,OPERANDR	CHECK OPERAND 01442001
000FFC	D205 C050 1000 02050 00000		00000	1494	MVC	ADDEND(6),0(R1)	SAVE ADDEND 01443001
001002	1872			1495	LR	R7,R2	LAST OPERAND WAS ADDEND 01444001
				1496	*		01445001
001004	1277			1497	SUBFIN	LTR R7,R7	ADDEND CONTROLLED VARIABLE ? 01446001
001006	4780 B01E		0101E	1498	BZ	SUBFIN1	NO 01447001
00100A	1B55			1499	SR	R5,R5	YES, INDICATE ELEMENTARY LOOP 01448001
00100C	4350 7000		00000	1500	IC	R5,0(,R7)	01449001
001010	4165 D478		00478	1501	LA	R6,ZFOSTA(R5)	01450001
001014	9680 6000		00000	1502	OI	0(R6),X'80'	01451001
001018	1987			1503	CR	R8,R7	OPTIMIZATION POSSIBLE ? 01452001
00101A	47D0 B06C		0106C	1504	BNH	SUBFIN4	NO 01453001
00101E	1B55			1505	SR	R5,R5	FSN OF CONTROLLED VAR TO REG 01454001
001020	4350 8000		00000	1506	IC	R5,0(0,R8)	01455001
001024	5820 C020		02020	1507	L	R2,ZARSP0	ADDR LAST ARIDSTAB-ENTRY 01456001
001028	4165 D478		00478	1508	LA	R6,ZFOSTA(R5)	ADDR FSTAB-ENTRY 01457001
00102C	9140 6000		00000	1509	TM	0(R6),X'40'	SUBSCRIPT OPTIMIZATION POSS ? 01458001
001030	4710 B06C		0106C	1510	BO	SUBFIN4	NO, NO OPTIMIZATION 01459001
001034	4165 D5D0		005D0	1511	LA	R6,SPTAB(R5)	ADDR SPTAB-ENTRY 01460001
001038	D500 6000 2000 00000 00000		00000	1512	CLC	0(1,R6),0(R2)	SCOPE OF ARRAY OK ? 01461001
00103E	4740 B06C		0106C	1513	BL	SUBFIN4	NO, NO OPTIMIZATION 01462001
001042	9130 C058		02058	1514	TM	FACTOR+2,X'30'	FACTOR CONSTANT ? 01463001
001046	4780 B054		01054	1515	BZ	SUBFIN2	YES 01464001
00104A	D500 6000 C059 00000 02059		02059	1516	CLC	0(1,R6),FACTOR+3	SCOPE OF FACTOR OK 01465001
001050	4740 B06C		0106C	1517	BL	SUBFIN4	NO, NO OPTIMIZATION 01466001
001054	9130 C052		02052	1518	TM	ADDEND+2,X'30'	ADDEND CONSTANT ? 01467001
001058	4780 B066		01066	1519	BZ	SUBFIN3	YES 01468001
00105C	D500 6000 C053 00000 02053		02053	1520	CLC	0(1,R6),ADDEND+3	SCOPE OF ADDEND OK ? 01469001
001062	4740 B06C		0106C	1521	BL	SUBFIN4	NO, NO OPTIMIZATION 01470001
001066	45E0 B10C		0110C	1522	SUBFIN3	BAL R14,SUTABENT	MAKE SUTAB ENTRY 01471001
00106A	07F9			1523	BR	R9	RETURN 01472001
				1524	*		01473001
00106C	1B55			1525	SUBFIN4	SR R5,R5	01474001
00106E	4350 8000		00000	1526	IC	R5,0(0,R8)	FSN OF CONTROLLED VARIABLE 01475001
001072	4165 D478		00478	1527	LA	R6,ZFOSTA(R5)	ADDR FSTAB ENTRY 01476001
001076	9680 6000		00000	1528	OI	0(R6),X'80'	ELEMENTARY LOOP 01477001
00107A	07F9			1529	BR	R9	01478001
				1530	*		01479001
				1531	*	OPERANDR	01480001
				1532	*		01481001
				1533	*	SUBROUTINE TO SUSCRITE TO CHECK WHAT FOLLOWS AN	01482001
				1534	*	OPERATOR IF NOT AN INTEGER OPERAND AN ERROR EXIT IS	01483001
				1535	*	TAKEN. ELSE THE SETTING OF REGISTER R2 SHOWS TYPE OF	01484001

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				1536	*	OPERAND	01485001
				1537	*		01486001
				1538	*	INITIALIZED REG R2	01487001
				1539	*		01488001
00107C	9180 1001	00001		1540	OPERANDR	TM 1(R1),X'80'	01489001
001080	4780 AEF6		00EF6	1541	BZ	SUBNOOP	01490001
001084	91CE 1002	00002		1542	TM	2(R1),X'CE'	01491001
001088	4740 AEF6		00EF6	1543	BM	SUBNOOP	01492001
00108C	9106 1001	00001		1544	TM	1(R1),X'06'	01493001
001090	4710 B098		01098	1545	BO	OPERAND1	01494001
001094	1B22			1546	OPERAND4	SR R2,R2	01495001
001096	07FF			1547	BR	R15	01496001
				1548	*		01497001
				1549	*	OPERAND CONTROLLED VARIABLE ?	01498001
				1550	*		01499001
001098	5820 C0C0		020C0	1551	OPERAND1	L R2,PFA	01500001
00109C	4120 2009		00009	1552	LA	R2,9(,R2)	01501001
0010A0	4B20 BF62		01F62	1553	OPERAND2	SH R2,KH9	01502001
0010A4	D502 2001	1003 00001	00003	1554	CLC	1(3,R2),3(R1)	01503001
0010AA	4770 B0A0		010A0	1555	BNE	OPERAND2	01504001
				1556	*		01505001
0010AE	9180 2004		00004	1557	OPERAND3	TM 4(R2),X'80'	01506001
0010B2	071F			1558	BOR	R15	01507001
0010B4	9140 2004		00004	1559	TM	4(R2),X'40'	01508001
0010B8	4780 B094		01094	1560	BZ	OPERAND4	01509001
0010BC	D201 C182	2005 02182	00005	1561	MVC	ALIGNH(2),5(R2)	01510001
0010C2	5820 C180		02180	1562	L	R2,ALIGN	01511001
0010C6	5A20 C0D0		020D0	1563	A	R2,ZFOCRI	01512001
0010CA	47F0 B0AE		010AE	1564	B	OPERAND3	01513001
				1565	*		01514001
				1566	*	SUBMULT	01515001
				1567	*		01516001
				1568	*	SUBROUTINE TO SUSCRITE TO CHECK WHAT FOLLOWS AN	01517001
				1569	*	ASTERISK IF NOT INTEGER FACTOR TIMES INTEGER CONTROLLED	01518001
				1570	*	VARIABLE AN ERROR EXIT IS TAKEN. OTHERWISE REGISTER R8	01519001
				1571	*	AND BUCKET FACTOR ARE INITIALIZED	01520001
				1572	*		01521001
				1573	*	INITIALIZED R8	01522001
				1574	*		01523001
0010CE	D205 C056	1000 02056	00000	1575	SUBMULT	MVC FACTOR(6),0(R1)	01524001
0010D4	1882			1576	LR	R8,R2	01525001
0010D6	4110 1006		00006	1577	LA	R1,6(,R1)	01526001
0010DA	45F0 B07C		0107C	1578	BAL	R15,OPERANDR	01527001
0010DE	1928			1579	CR	R2,R8	01528001
0010E0	4720 B102		01102	1580	BH	SUBMULT2	01529001
0010E4	4780 AEF6		00EF6	1581	BE	SUBNOOP	01530001
0010E8	D204 C057	1001 02057	00001	1582	MVC	FACTOR+1(5),1(R1)	01531001
0010EE	1222			1583	SUBMULT1	LTR R2,R2	01532001
0010F0	078E			1584	BZR	R14	01533001
0010F2	1B55			1585	SR	R5,R5	01534001
0010F4	4350 2000		00000	1586	IC	R5,0(0,R2)	01535001
0010F8	4165 D478		00478	1587	LA	R6,ZFOSTA(R5)	01536001
0010FC	9680 6000		00000	1588	OI	0(R6),X'80'	01537001
001100	07FE			1589	BR	R14	01538001
				1590	*		01539001
001102	1852			1591	SUBMULT2	LR R5,R2	01540001
001104	1828			1592	LR	R2,R8	01541001
001106	1885			1593	LR	R8,R5	01542001
001108	47F0 B0EE		010EE	1594	B	SUBMULT1	01543001
				1595	*		01544001
				1596	*	SUTABENT	01545001
				1597	*		01546001
				1598	*	SUBROUTINE TO SUBSCRIBE TO MAKE AN SUTAB ENTRY	01547001
				1599	*		01548001
00110C	5810 BF90		01F90	1600	SUTABENT	L R1,ZSUTAPO	01549001
001110	5910 BF94		01F94	1601	C	R1,ZSUDAD	01550001
001114	4770 B132		01132	1602	BNE	SUTAB1	01551001
001118	4550 B5D6		015D6	1603	BAL	R5,CHECK	01552001
00111C	D503 BFA4	D100 01FA4	00100	1604	CLC	SULENGTH(4),SUTAB405	01553001
001122	4780 B1A0		011A0	1605	BNL	SUTAB4	01554001
001126	4850 BFA8		01FA8	1606	LH	R5,SUCNT	01555001
00112A	4150 5001		00001	1607	LA	R5,1(,R5)	01556001
00112E	4050 BFA8		01FA8	1608	STH	R5,SUCNT	01557001
001132	4110 100E		0000E	1609	SUTAB1	LA R1,14(,R1)	01558001
001136	5010 BF90		01F90	1610	ST	R1,ZSUTAPO	01559001
				1611	*		01560001
00113A	D200 1000	8000 00000	00000	1612	MVC	0(1,R1),0(R8)	01561001
001140	D202 1001	2000 00001	00000	1613	MVC	1(3,R1),0(R2)	01562001
001146	D202 1004	C059 00004	02059	1614	MVC	4(3,R1),FACTOR+3	01563001
00114C	D202 1007	C053 00007	02053	1615	MVC	7(3,R1),ADDEND+3	01564001
001152	D200 100A	C025 0000A	02025	1616	MVC	10(1,R1),ZPOSIX+1	01565001
001158	9501 C056		02056	1617	CLI	FACTOR,XFMINUS	01566001
00115C	4770 B164		01164	1618	BNE	SUTAB2	01567001
001160	9680 100A		0000A	1619	OI	10(R1),X'80'	01568001
001164	9501 C050		02050	1620	SUTAB2	CLI ADDEND,XFMINUS	01569001
001168	4770 B170		01170	1621	BNE	SUTAB3	01570001
00116C	9640 100A		0000A	1622	OI	10(R1),X'40'	01571001
001170	D202 100B	2004 0000B	00004	1623	SUTAB3	MVC 11(3,R1),4(R2)	01572001
001176	5910 BF98		01F98	1624	C	R1,ZSUTMAX	01573001
00117A	074E			1625	BLR	R14	01574001
00117C	4550 B5D6		015D6	1626	BAL	R5,CHECK	01575001
001180	5850 BF9C		01F9C	1627	L	R5,SUSTRT	01576001
001184	5860 D0F4		000F4	1628	L	R6,SUTAB305	01577001
001188	45F0 B5F8		015F8	1629	BAL	R15,WRITE	01578001
00118C	5850 BFA4		01FA4	1630	L	R5,SULENGTH	01579001
001190	5A50 D0F4		000F4	1631	A	R5,SUTAB305	01580001

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001194	5050 BFA4		01FA4	1632	ST	R5, SULENGTH	01581001
001198	D203 BF90	BF94 01F90	01F94	1633	MVC	ZSUTAPO(4), ZSUDAD	01582001
00119E	07FE			1634	BR	R14	01583001
				1635	*		01584001
0011A0	45F0 B678		01678	1636	SUTAB4	BAL R15, TABOFLO	01585001
0011A4	45F0 B52C		0152C	1637	BAL	R15, MOVERRO	01586001
0011A8	47F0 B06C		0106C	1638	B	SUBFIN4	01587001
				1639	*		01588001
0011AC	90E2 C168		02168	1640	OUCHA	STM R14, R2, REGSAVE	01589001
0011B0	47F0 B2D2		012D2	1641	LOUCHAF	B LOUCHA7	01590001
				1642	*		01591001
				1643	CHECK	SWRITE	01592001
0011B4	4110 B238		01238	1644+	LA	1, SWRITE	02-IHBN
0011B8	58E0 1008		00008	1645+	L	14, 8(0,1)	01-CHECK
0011BC	58F0 E034		00034	1646+	L	15, 52(0,14)	01-CHECK
0011C0	05EF			1647+	BALR	14, 15	01-CHECK
				1648	*		01593001
0011C2	D503 C020	C01C 02020	0201C	1649	LOUCHA6	CLC ZARSP0(4), ZARNO	01594001
0011C8	4770 B264		01264	1650	BNE	LOUCHA1	01595001
0011CC	922F 4001	00001		1651	LOUCHA5	MVI 1(R4), XFZETA	01596001
0011D0	5840 BFD4		01FD4	1652	L	R4, ZOBWRITE	01597001
0011D4	1864			1653	LR	R6, R4	01598001
0011D6	0640			1654	BCTR	R4, 0	01599001
0011D8	5850 D0E0		000E0	1655	LOUCHA4	R5, SRCE3S	01600001
0011DC	4850 BF68		01F68	1656	SH	R5, KH12	01601001
0011E0	1A56			1657	AR	R5, R6	01602001
0011E2	5050 BFEC		01FEC	1658	ST	R5, ZFILE9	01603001
0011E6	4150 5003		00003	1659	LA	R5, 3(, R5)	01604001
0011EA	5050 BFE8		01FE8	1660	ST	R5, ZFILE6	01605001
0011EE	4150 5001		00001	1661	LA	R5, 1(, R5)	01606001
0011F2	5050 BFE4		01FE4	1662	ST	R5, ZFILE5	01607001
0011F6	4150 5002		00002	1663	LA	R5, 2(, R5)	01608001
0011FA	5050 BFE0		01FE0	1664	ST	R5, ZFILE3	01609001
0011FE	4150 5001		00001	1665	LA	R5, 1(, R5)	01610001
001202	5050 BFDC		01FDC	1666	ST	R5, ZFILE2	01611001
001206	4150 5001		00001	1667	LA	R5, 1(, R5)	01612001
00120A	5050 BFD8		01FD8	1668	ST	R5, ZFILE1	01613001
00120E	D203 BFD4	BFD0 01FD4	01FD0	1669	MVC	ZOBWRITE(4), ZOBWORK	01614001
001214	5060 BFD0		01FD0	1670	ST	R6, ZOBWORK	01615001
001218	4850 BFF0		01FF0	1671	LH	R5, ZOUTCOT	01616001
00121C	4950 BF72		01F72	1672	CH	R5, KH255	01617001
001220	4780 B2DA		012DA	1673	BE	LOUCHA8	01618001
001224	4150 5001		00001	1674	LA	R5, 1(, R5)	01619001
001228	4050 BFF0		01FF0	1675	STH	R5, ZOUTCOT	01620001
00122C	5850 D068		00068	1676	L	R5, AUT2DCB	01621001
001230	5860 BFD4		01FD4	1677	L	R6, ZOBWRITE	01622001
				1678	*		01623001
				1679	WRITE	SWRITE, SF, (R5), (R6)	01624001
001234				1680+	CNOP	0, 4	02-IHBRD
001234	4510 B24C		0124C	1681+	BAL	1, *+24	02-IHBRD
001238	00000000			1682+	SWRITE	DC F'0'	02-IHBRD
00123C	00			1683+	DC	X'00'	02-IHBRD
00123D	20			1684+	DC	X'20'	02-IHBRD
00123E	0000			1685+	DC	AL2(0)	02-IHBRD
001240	00000000			1686+	DC	A(0)	02-IHBRD
001244	00000000			1687+	DC	A(0)	02-IHBRD
001248	00000000			1688+	DC	A(0)	02-IHBRD
00124C	5051 0008		00008	1689+	ST	R5, 8(1, 0)	02-IHBRD
001250	5061 000C		0000C	1690+	ST	R6, 12(1, 0)	02-IHBRD
001254	58F1 0008		00008	1691+	L	15, 8(1, 0)	02-IHBRD
001258	58F0 F030		00030	1692+	L	15, 48(0, 15)	02-IHBRD
00125C	05EF			1693+	BALR	14, 15	02-IHBRD
				1694	*		01625001
00125E	98E2 C168		02168	1695	LM	R14, R2, REGSAVE	01626001
001262	07FF			1696	BR	R15	01627001
				1697	*		01628001
001264	5850 C068		02068	1698	LOUCHA1	L R5, ZBRACK	01629001
001268	1864			1699	LR	R6, R4	01630001
00126A	1865			1700	SR	R6, R5	01631001
00126C	4740 B1CC		011CC	1701	BM	LOUCHA5	01632001
001270	4960 BF6C		01F6C	1702	CH	R6, KH18	01633001
001274	4720 B2BC		012BC	1703	BH	LOUCHA2	01634001
001278	4260 B285		01285	1704	STC	R6, LOUCHAM+1	01635001
00127C	4260 B291		01291	1705	STC	R6, LOUCHAL+3	01636001
001280	5860 BFD4		01FD4	1706	L	R6, ZOBWRITE	01637001
001284	D200 6000	5000 00000	00000	1707	LOUCHAM	MVC 0(1, R6), 0(R5)	01638001
00128A	922F 5000	00000		1708	MVI	0(R5), XFZETA	01639001
00128E	4140 6000		00000	1709	LOUCHAL	LA R4, 0(0, R6)	01640001
001292	5060 C068		02068	1710	ST	R6, ZBRACK	01641001
001296	9508 6000	00000		1711	CLI	0(R6), XFLSQBR	01642001
00129A	4770 B1D8		011D8	1712	BNE	LOUCHA4	01643001
00129E	5850 C020		02020	1713	L	R5, ZARSP0	01644001
0012A2	4860 BFF0		01FF0	1714	LH	R6, ZOUTCOT	01645001
0012A6	4160 6001		00001	1715	LA	R6, 1(, R6)	01646001
0012AA	4260 5004		00004	1716	STC	R6, 4(, R5)	01647001
0012AE	D201 5005	BF54 00005	01F54	1717	MVC	5(2, R5), ZERO	01648001
0012B4	5860 BFD4		01FD4	1718	L	R6, ZOBWRITE	01649001
0012B8	47F0 B1D8		011D8	1719	B	LOUCHA4	01650001
				1720	*		01651001
0012BC	45F0 AD9E		00D9E	1721	LOUCHA2	BAL R15, SUCRIDEL	01652001
0012C0	92FF C0B0	020B0		1722	MVI	ZCLOBRA, X'FF'	01653001
0012C4	5850 BFD4		01FD4	1723	L	R5, ZOBWRITE	01654001
0012C8	0650			1724	BCTR	R5, 0	01655001
0012CA	5050 C068		02068	1725	ST	R5, ZBRACK	01656001
0012CE	47F0 B1CC		011CC	1726	B	LOUCHA5	01657001
				1727	*		01658001



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0012D2	9200 B1B1	011B1		1728	LOUCHA7	MVI LOUCHAF+1,X'00'	TURN OFF SWITCH 01659001
0012D6	47F0 B1C2	011C2		1729		B LOUCHA6	01660001
				1730	*		01661001
0012DA	D201 C014	BF8E 02014	01F8E	1731	LOUCHA8	MVC ZERRONU,TOOLONG	01662001
0012E0	D203 C00C	C010 0200C	02010	1732		MVC ZBEGERR,ZENDERR	01663001
0012E6	45F0 B52C		0152C	1733		BAL R15,MOVERRO	01664001
0012EA	47F0 A51A	0051A		1734		B LOMEGA3	01665001
				1735	*		01666001
				1736	*	ICHA	01667001
				1737	*		01668001
				1738	*	THE ROUTINE IS ENTERED WHEN OPERATOR ZETA (END OF INPUT	01669001
				1739	*	BUFFER) IS FOUND. IF NECESSARY A PART OF THE OLD BUFFER	01670001
				1740	*	IS SAVED IMMEDIATLY BEFORE THE NEW BUFFER. START	01671001
				1741	*	ADDR OF SAVED AREA IS STORED IN ZIBWORK	01672001
				1742	*		01673001
				1743	*	RETURN VIA R15	01674001
				1744	*		01675001
0012EE	90E2 C168	02168		1745	ICHA	STM R14,R2,REGSAVE	SAVE REGISTERS 01676001
				1746	*		01677001
				1747		CHECK SREAD	CHECK LAST READ 01678001
0012F2	4110 B30C	0130C		1748+	LA	1,SREAD	LOAD PARAMETER REG 1 02-IHBN
0012F6	58E0 1008	00008		1749+	L	14,8(0,1)	PICK UP DCB ADDR 01-CHECK
0012FA	58F0 E034	00034		1750+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 01-CHECK
0012FE	05EF			1751+	BALR	14,15	LINK TO CHECK ROUTINE 01-CHECK
				1752	*		01679001
001300	5850 D064	00064		1753	ICHA1	L R5,AUT1DCB	R5 -> SYSUT1 DCB 01680001
001304	5860 BFC8	01FC8		1754		L R6,ZIBRUN	AREA ADDR 01681001
				1755	*		01682001
				1756		READ SREAD,SF,(R5),(R6)	01683001
001308				1757+	CNOP	0,4	02-IHBRD
001308	4510 B320	01320		1758+	BAL	1,*+24	LOAD DECB ADDRESS 02-IHBRD
00130C	00000000			1759+SREAD	DC	F'0'	EVENT CONTROL BLOCK 02-IHBRD
001310	00			1760+	DC	X'00'	TYPE FIELD 02-IHBRD
001311	80			1761+	DC	X'80'	TYPE FIELD 02-IHBRD
001312	0000			1762+	DC	AL2(0)	LENGTH 02-IHBRD
001314	00000000			1763+	DC	A(0)	DCB ADDRESS 02-IHBRD
001318	00000000			1764+	DC	A(0)	AREA ADDRESS 02-IHBRD
00131C	00000000			1765+	DC	A(0)	RECORD POINTER WORD 02-IHBRD
001320	5051 0008	00008		1766+	ST	R5,8(1,0)	STORE DCB ADDRESS 02-IHBRD
001324	5061 000C	0000C		1767+	ST	R6,12(1,0)	STORE AREA ADDRESS 02-IHBRD
001328	58F1 0008	00008		1768+	L	15,8(1,0)	LOAD DCB ADDRESS 02-IHBRD
00132C	58F0 F030	00030		1769+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR 02-IHBRD
001330	05EF			1770+	BALR	14,15	LINK TO RDWR ROUTINE 02-IHBRD
				1771	*		01684001
001332	98E2 C168	02168		1772	LM	R14,R2,REGSAVE	RESTORE REGISTERS 01685001
001336	5830 BFC8	01FCC		1773	L	R3,ZIBREAD	BEGIN OF ACTIVITED BUFFER 01686001
00133A	D203 BFC8	BFC8 01FCC	01FC8	1774	MVC	ZIBREAD(4),ZIBRUN	EXCHANGE POINTERS 01687001
001340	5030 BFC8	01FC8		1775	ST	R3,ZIBRUN	01688001
001344	07FF			1776	BR	R15	01689001
				1777	*		01690001
001346	90E2 C168	02168		1778	ICHA1	STM R14,R2,REGSAVE	01691001
00134A	47F0 B300	01300		1779	B	ICHA1	01692001
				1780	*		01693001
				1781	*	ITABMOVE	01694001
				1782	*		01695001
				1783	*	ITABMOVE IS ENTERED AT THE BEGINNING OF A NEW PROGRAM	01696001
				1784	*	BLOCK AND DURING INITIALIZATION. THE READ OF NEXT ITAB-	01697001
				1785	*	RECORD IS ALREADY INITIALIZED. IF A MOVE OF NEXT RECORD	01698001
				1786	*	IS NECESSARY IT IS DONE BY THE SUBROUTINE ITABM. ALL	01699001
				1787	*	CURRENT ITAB-POINTERS IS UPDATED	01700001
				1788	*		01701001
				1789	*	RETURN VIA R15	01702001
				1790	*	WORKREG R7, R8	01703001
				1791	*	SUBROUTINE ITABM, MOVERRO	01704001
				1792	*		01705001
00134E	9200 A7DB	007DB		1793	ITABMOP	MVI LETTER+1,X'00'	TURN OFF PROCEDURE SWITCH 01706001
001352	90E2 C168	02168		1794	ITABMOVE	STM R14,R2,REGSAVE	01707001
001356	9580 C0B5	020B5		1795		CLI IOBYTE,READM	INITIALIZED READ OPERATION ? 01708001
00135A	4770 B370	01370		1796		BNE ITAB4	NO 01709001
				1797	*		01710001
				1798		CHECK RITAB	YES, CHECK 01711001
00135E	4110 B470	01470		1799+	LA	1,RITAB	LOAD PARAMETER REG 1 02-IHBN
001362	58E0 1008	00008		1800+	L	14,8(0,1)	PICK UP DCB ADDR 01-CHECK
001366	58F0 E034	00034		1801+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 01-CHECK
00136A	05EF			1802+	BALR	14,15	LINK TO CHECK ROUTINE 01-CHECK
				1803	*		01712001
00136C	9220 C0B5	020B5		1804		MVI IOBYTE,READC	SET READ CHECK MASK 01713001
001370	5870 C000	02000		1805	ITAB4	L R7,ZITREC	ADDR OF BLOCKBEGIN 01714001
001374	D201 7006	C008 00006	02008	1806		MVC 6(2,R7),ZCURITLE	ITAB REC LENGTH OF EMBR BLOCK 01715001
00137A	D201 C008	7000 02008	00000	1807		MVC ZCURITLE(2),0(R7)	LENGTH OF BLOCK 01716001
001380	5880 BFFC	01FFC		1808		L R8,ZCURITEN	A MOVE IS NECESSARY ? 01717001
001384	4180 800B	0000B		1809		LA R8,11(,R8)	01718001
001388	1987			1810		CR R8,R7	01719001
00138A	4780 B3F6	013F6		1811		BE ITAB1	NO, MOVE 01720001
				1812	*		01721001
				1813	*	MOVE ITAB RECORD	01722001
				1814	*		01723001
00138E	4860 C008	02008		1815	LH	R6,ZCURITLE	LENGTH OF ITAB RECORD 01724001
001392	4460 B4C8	014C8		1816	EX	R6,ITABMEX	MOVE FIRST PART 01725001
001396	1856			1817	LR	R5,R6	01726001
001398	1A75			1818	AR	R7,R5	END ADDR OF MOVED RECORD 01727001
00139A	1A58			1819	AR	R5,R8	END ADDR OR UNMOVED RECORD 01728001
00139C	4B70 BF74	01F74		1820	SH	R7,KH1792	PREPARE MOVE 01729001
0013A0	4B50 BF74	01F74		1821	SH	R5,KH1792	PREPARE MOVE 01730001
0013A4	8A60 0008	00008		1822	SRA	R6,8	PREPARE BRANCH 01731001
0013A8	8B60 0002	00002		1823	SLA	R6,2	01732001

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0013AC	47F6 B3B0		013B0	1824	B	*+4(R6)	01733001
				1825 *			01734001
0013B0	47F0 B3F6		013F6	1826	B	ITABM8	01735001
0013B4	47F0 B3F0		013F0	1827	B	ITABM7	01736001
0013B8	47F0 B3EA		013EA	1828	B	ITABM6	01737001
0013BC	47F0 B3E4		013E4	1829	B	ITABM5	01738001
0013C0	47F0 B3DE		013DE	1830	B	ITABM4	01739001
0013C4	47F0 B3D8		013D8	1831	B	ITABM3	01740001
0013C8	47F0 B3D2		013D2	1832	B	ITABM2	01741001
0013CC	D2FF 5000 7000 00000 00000			1833	MVC	0(256,R5),0(R7)	01742001
				1834 *			01743001
0013D2	D2FF 5100 7100 00100 00100			1835	ITABM2	MVC 256(256,R5),256(R7)	01744001
0013D8	D2FF 5200 7200 00200 00200			1836	ITABM3	MVC 512(256,R5),512(R7)	01745001
0013DE	D2FF 5300 7300 00300 00300			1837	ITABM4	MVC 768(256,R5),768(R7)	01746001
0013E4	D2FF 5400 7400 00400 00400			1838	ITABM5	MVC 1024(256,R5),1024(R7)	01747001
0013EA	D2FF 5500 7500 00500 00500			1839	ITABM6	MVC 1280(256,R5),1280(R7)	01748001
0013F0	D2FF 5600 7600 00600 00600			1840	ITABM7	MVC 1536(256,R5),1536(R7)	01749001
			013F6	1841	ITABM8	EQU *	01750001
				1842 *			01751001
0013F6	4850 C008		02008	1843	ITAB1	LH R5,ZCURITL	01752001
0013FA	5A50 BFFC		01FFC	1844	A	R5,ZCURITEN	01753001
0013FE	5050 BFFC		01FFC	1845	ST	R5,ZCURITEN	01754001
001402	4150 500B		0000B	1846	LA	R5,11(,R5)	01755001
001406	5050 C000		02000	1847	ST	R5,ZITREC	01756001
00140A	D500 800A D09F 0000A		0009F	1848	CLC	10(1,R8),PBN+1	01757001
001410	4780 B49A		0149A	1849	BE	ITAB7	01758001
001414	D201 C182 8002 02182		00002	1850	MVC	ALIGNH(2),2(R8)	01759001
00141A	5A50 C180		02180	1851	A	R5,ALIGN	01760001
00141E	5950 C004		02004	1852	C	R5,ZITEND	01761001
001422	4720 B4A6		014A6	1853	BH	ITAB10	01762001
001426	9520 C0B5		020B5	1854	CLI	IOBYTE,READC	01763001
00142A	4780 B462		01462	1855	BE	ITAB6	01764001
00142E	4740 B440		01440	1856	BL	ITAB5	01765001
				1857 *			01766001
				1858	CHECK	TWRITE	01767001
001432	4110 B644		01644	1859+	LA	1,TWRITE	02-IHBN
001436	58E0 1008		00008	1860+	L	14,8(0,1)	01-CHECK
00143A	58F0 E034		00034	1861+	L	15,52(0,14)	01-CHECK
00143E	05EF			1862+	BALR	14,15	01-CHECK
				1863 *			01768001
			01440	1864	ITAB5	EQU *	01769001
001440	5810 D06C		0006C	1865	L	R1,AUT3DCB	01770001
				1866 *			01771001
				1867	NOTE	(1)	01772001
001444	58F0 1054		00054	1868+	L	15,84(0,1)	01-NOTE
001448	05EF			1869+	BALR	14,15	01-NOTE
				1870 *			01773001
00144A	5010 C0B8		020B8	1871	ST	R1,NOTEW	01774001
00144E	5810 D06C		0006C	1872	L	R1,AUT3DCB	01775001
001452	9201 C0BF		020BF	1873	MVI	NOTER+3,X'01'	01776001
				1874 *			01777001
				1875	POINT	(1),NOTER	01778001
001456	4100 C0BC		020BC	1876+	LA	0,NOTER	02-IHBN
00145A	58F0 1054		00054	1877+	L	15,84(0,1)	01-POINT
00145E	45EF 0004		00004	1878+	BAL	14,4(15,0)	01-POINT
				1879 *			01779001
001462	5850 D06C		0006C	1880	ITAB6	L R5,AUT3DCB	01780001
001466	5860 C000		02000	1881	L	R6,ZITREC	01781001
				1882 *			01782001
				1883	READ	RITAB,SF,(R5),(R6),'S'	01783001
00146A	0700			1884+	CNOP	0,4	02-IHBRD
00146C	4510 B484		01484	1885+	BAL	1,*+24	02-IHBRD
001470	00000000			1886+	DC	F'0'	02-IHBRD
001474	80			1887+	DC	X'80'	02-IHBRD
001475	80			1888+	DC	X'80'	02-IHBRD
001476	0000			1889+	DC	AL2(0)	02-IHBRD
001478	00000000			1890+	DC	A(0)	02-IHBRD
00147C	00000000			1891+	DC	A(0)	02-IHBRD
001480	00000000			1892+	DC	A(0)	02-IHBRD
001484	5051 0008		00008	1893+	ST	R5,8(1,0)	02-IHBRD
001488	5061 000C		0000C	1894+	ST	R6,12(1,0)	02-IHBRD
00148C	58F1 0008		00008	1895+	L	15,8(1,0)	02-IHBRD
001490	58F0 F030		00030	1896+	L	15,48(0,15)	02-IHBRD
001494	05EF			1897+	BALR	14,15	02-IHBRD
				1898 *			01784001
001496	9280 C0B5		020B5	1899	MVI	IOBYTE,READM	01785001
00149A	98E2 C168		02168	1900	ITAB7	LM R14,R2,REGSAVE	01786001
00149E	D200 C0AF 800A 020AF		0000A	1901	MVC	CURPBN(1),10(R8)	01787001
0014A4	07FF			1902	BR	R15	01788001
				1903 *			01789001
0014A6	5030 C00C		0200C	1904	ITAB10	ST R3,ZBEGERR	01790001
0014AA	5030 C010		02010	1905	ST	R3,ZENDERR	01791001
0014AE	D201 C014 BF8C 02014		01F8C	1906	MVC	ZERRONU,ITABOVER	01792001
0014B4	45F0 B52C		0152C	1907	BAL	R15,MOVERRO	01793001
0014B8	47F0 A51A		0051A	1908	B	LOMEGA3	01794001
				1909 *			01795001
0014BC	90E2 C168		02168	1910	ITABREAD	STM R14,R2,REGSAVE	01796001
0014C0	4180 C278		02278	1911	LA	R8,GENER	01797001
0014C4	47F0 B462		01462	1912	B	ITAB6	01798001
				1913 *			01799001
0014C8	D200 8000 7000 00000 00000			1914	ITABMEX	MVC 0(1,R8),0(R7)	01800001
				1915 *			01801001
				1916 *		INVALID OPERAND FOUND	01802001
				1917 *			01803001
				1918 *		SET SYNTAX CHECK MODE AND GIVE ERROR MESSAGE	01804001
				1919 *			01805001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0014CE	9680 D080	00080		1920	INCOROP	OI COMPFLGS,COMPMODE	SET SYNTAX CHECK MODE 01806001
0014D2	4100 C08D		0208D	1921	LA	R0,ZIDEX+12	01807001
0014D6	1893			1922	INCOROP5	LR R9,R3	01808001
0014D8	952E 3000	00000		1923	INCOROP1	CLI 0(R3),X'2E'	END OF OPERAND ? 01809001
0014DC	4740 B502		01502	1924	BL	INCOROP2	YES 01810001
0014E0	4780 B51E		0151E	1925	BE	INCOROP3	STRING OR LOGICAL VALUE 01811001
0014E4	952F 3000	00000		1926	CLI	0(R3),XFZETA	END OF INPUT BUFFER ? 01812001
0014E8	4780 B4F4		014F4	1927	BE	INCOROP4	YES 01813001
0014EC	4130 3001		00001	1928	LA	R3,1(,R3)	PROCEED SCAN FOR OPERAND END 01814001
0014F0	47F0 B4D8		014D8	1929	B	INCOROP1	01815001
				1930	*		01816001
0014F4	1813			1931	INCOROP4	LR R1,R3	01817001
0014F6	45F0 B5B0		015B0	1932	BAL	R15,MOVE	01818001
0014FA	45F0 B2EE		012EE	1933	BAL	R15,TCHA	01819001
0014FE	47F0 B4D6		014D6	1934	B	INCOROP5	01820001
				1935	*		01821001
001502	1813			1936	INCOROP2	LR R1,R3	01822001
001504	45F0 B5B0		015B0	1937	BAL	R15,MOVE	01823001
001508	5080 C010		02010	1938	ST	R8,ZENDERR	01824001
00150C	D203 C00C	C0A8 0200C	020A8	1939	MVC	ZBEGERR,OPSTART	01825001
001512	45F0 B52C		0152C	1940	BAL	R15,MOVERRO	01826001
001516	4170 C076		02076	1941	LA	R7,ZALLPU	REPLACE INCOR ID BY ALL PUB ID 01827001
00151A	47F0 A80C		0080C	1942	B	LETTER1	01828001
				1943	*		01829001
00151E	D205 3000	C076 00000	02076	1944	INCOROP3	MVC 0(6,R3),ZPOINT	REPLACE INT NAME BY SIX PERIODS 01830001
001524	4130 3006		00006	1945	LA	R3,6(,R3)	01831001
001528	47F0 B4D8		014D8	1946	B	INCOROP1	01832001
				1947	*		01833001
				1948	*	MOVERRO	01834001
				1949	*		01835001
				1950	*	ERROR EDITING ROUTINE	01836001
				1951	*		01837001
				1952	*	OUTPUTS ALWAYS FIXED PART CONTAINING LENGTH OF ENTRY,	01838001
				1953	*	ERROR NUMBER AND SEMICOLON COUNTER. SOMETMES VARIABLE	01839001
				1954	*	PART WHOSE START ADDR IS STORED IN ZBEGERR AND (END	01840001
				1955	*	ADDR + 1) IN ZENDERR	01841001
				1956	*		01842001
				1957	*	RETURN VIA R15	01843001
				1958	*		01844001
00152C	5850 D0C0		000C0	1959	MOVERRO	L R5,NEXTERR	01845001
001530	5950 D0C4		000C4	1960	C	R5,ENDPOOL	ERROR POOL OVERFLOW ? 01846001
001534	4720 B580		01580	1961	BH	MOVERRO2	YES 01847001
001538	5860 C010		02010	1962	L	R6,ZENDERR	GET LENGTH OF VARIABLE PART 01848001
00153C	5860 C00C		0200C	1963	S	R6,ZBEGERR	01849001
001540	4960 BF68		01F68	1964	CH	R6,KH12	LENGTH EXCEEDS MAXIMUM ? 01850001
001544	47D0 B54C		0154C	1965	BNH	MOVERRO1	NO 01851001
001548	4860 BF68		01F68	1966	LH	R6,KH12	YES, SET LENGTH TO MAX 01852001
00154C	4160 6004		00004	1967	MOVERRO1	LA R6,4(,R6)	LENGTH OF FULL ERROR ENTRY 01853001
001550	1A56			1968	AR	R5,R6	GET ADDR OF NEXT ERROR ENTRY 01854001
001552	5050 D0C0		000C0	1969	ST	R5,NEXTERR	01855001
001556	1B56			1970	SR	R5,R6	01856001
001558	4260 5000		00000	1971	STC	R6,0(,R5)	FIXED PART OF ERROR ENTRY, LEN 01857001
00155C	D200 5001	C015 00001	02015	1972	MVC	1(1,R5),ZERRONU+1	ERROR NUMBER 01858001
001562	D201 5002	D09C 00002	0009C	1973	MVC	2(2,R5),SEMCNT	SEMICOLON COUNTER 01859001
001568	4B60 BF5C		01F5C	1974	SH	R6,KH5	ANY VARIABLE PART ? 01860001
00156C	4740 B57E		0157E	1975	BM	MOVERRO3	NO 01861001
001570	4260 B579		01579	1976	STC	R6,MOVERROM+1	LENGTH OF MOVE 01862001
001574	5860 C00C		0200C	1977	L	R6,ZBEGERR	START ADDR OF ADDITIONAL PART 01863001
001578	D200 5004	6000 00004	00000	1978	MOVERROM	MVC 4(1,R5),0(R6)	MOVE ADDITIONAL PART 01864001
00157E	07FF			1979	MOVERRO3	BR R15	01865001
				1980	*		01866001
001580	9204 5000	00000		1981	MOVERRO2	MVI 0(R5),X'04'	TERMINATING ERROR ENTRY 01867001
001584	92D4 5001	00001		1982	MVI	1(R5),TOOMANY	01868001
001588	D201 5002	D09C 00002	0009C	1983	MVC	2(2,R5),SEMCNT	01869001
00158E	4150 5004		00004	1984	LA	R5,4(,R5)	01870001
001592	5050 D0C0		000C0	1985	ST	R5,NEXTERR	01871001
001596	47F0 A51A		0051A	1986	B	LOMEGA3	01872001
				1987	*		01873001
00159A	1853			1988	MOVEP	LR R5,R3	FIELD OF ONE BYTE 01874001
00159C	1B59			1989	SR	R5,R9	01875001
00159E	4770 B5B0		015B0	1990	BNZ	MOVE	01876001
0015A2	1277			1991	LTR	R7,R7	POINT FOLLOWED BY ZERO ? 01877001
0015A4	074F			1992	BMR	R15	YES, NO SYNTAX ERROR 01878001
0015A6	4157 C082		02082	1993	LA	R5,NUMBER(R7)	ADDR IMPLIED POINT 01879001
0015AA	1958			1994	CR	R5,R8	POINT TERMINATE NUMBER 01880001
0015AC	4780 B708		01708	1995	BE	QTORLT1	YES 01881001
				1996	*		01882001
0015B0	1819			1997	MOVE	SR R1,R9	LENGTH OF MOVE 01883001
0015B2	1858			1998	LR	R5,R8	CALCULATE END ADDR 01884001
0015B4	1A51			1999	AR	R5,R1	01885001
0015B6	1950			2000	CR	R5,R0	FULL MOVE POSSIBLE ? 01886001
0015B8	4720 B5C4		015C4	2001	BH	MOVE1	NO 01887001
0015BC	4410 B5D0		015D0	2002	EX	R1,MOVEEX	MOVE 01888001
0015C0	1885			2003	LR	R8,R5	STEP PTR 01889001
0015C2	07FF			2004	BR	R15	RETURN 01890001
				2005	*		01891001
0015C4	1850			2006	MOVE1	LR R5,R0	CALCULATE LEN OF POSSIBLE MOVE 01892001
0015C6	1B58			2007	SR	R5,R8	01893001
0015C8	4450 B5D0		015D0	2008	EX	R5,MOVEEX	01894001
0015CC	1880			2009	LR	R8,R0	01895001
0015CE	07FF			2010	BR	R15	RETURN 01896001
				2011	*		01897001
0015D0	D200 8000 9000 00000	00000	00000	2012	MOVEEX	MVC 0(0,R8),0(R9)	01898001
				2013	*		01899001
0015D6	9540 C0B5		020B5	2014	CHECK	CLI IOBYTE,WRITEM	INITIALIZED WRITE OPERATION 01900001
0015DA	0775			2015	BNER	R5	NO, RETURN 01901001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0015DC	90E2 C168		02168	2016	STM	R14,R2,REGSAVE	SAVE REGS 01902001
				2017 *			01903001
				2018	CHECK	TWRITE	CHECK LAST WRITE 01904001
0015E0	4110 B644		01644	2019+	LA	1,TWRITE	LOAD PARAMETER REG 1 02-IHBN
0015E4	58E0 1008		00008	2020+	L	14,8(0,1)	PICK UP DCB ADDR 01-CHECK
0015E8	58F0 E034		00034	2021+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 01-CHECK
0015EC	05EF			2022+	BALR	14,15	LINK TO CHECK ROUTINE 01-CHECK
				2023 *			01905001
0015EE	9210 C0B5	020B5		2024	MVI	IOBYTE,WRITEC	SET WRITE CHECK MASK 01906001
0015F2	98E2 C168		02168	2025	LM	R14,R2,REGSAVE	RESTORE REGS 01907001
0015F6	07F5			2026	BR	R5	01908001
				2027 *			01909001
0015F8	90E2 C168		02168	2028 WRITE	STM	R14,R2,REGSAVE	01910001
0015FC	9520 C0B5	020B5		2029	CLI	IOBYTE,READC	WHICH I/O STATUS ? 01911001
001600	4740 B638		01638	2030	BL	WRITE2	CHECKED WRITE OPERATION 01912001
001604	4780 B616		01616	2031	BE	WRITE1	CHECKED READ OPERATION 01913001
				2032 *			01914001
				2033	CHECK	RITAB	INITIALIZED READ OPERATION 01915001
001608	4110 B470		01470	2034+	LA	1,RITAB	LOAD PARAMETER REG 1 02-IHBN
00160C	58E0 1008		00008	2035+	L	14,8(0,1)	PICK UP DCB ADDR 01-CHECK
001610	58F0 E034		00034	2036+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 01-CHECK
001614	05EF			2037+	BALR	14,15	LINK TO CHECK ROUTINE 01-CHECK
				2038 *			01916001
001616	5810 D06C		0006C	2039 WRITE1	L	R1,AUT3DCB	R1 -> SYSUT3 DCB 01917001
				2040 *			01918001
				2041	NOTE	(1)	SAVE ID OF LAST BLOCK 01919001
00161A	58F0 1054		00054	2042+	L	15,84(0,1)	LOAD NOTE RTN ADDRESS 01-NOTE
00161E	05EF			2043+	BALR	14,15	LINK TO NOTE ROUTINE 01-NOTE
				2044 *			01920001
001620	5010 C0BC		020BC	2045	ST	R1,NOTER	01921001
001624	5810 D06C		0006C	2046	L	R1,AUT3DCB	R1 -> SYSUT3 DCB 01922001
001628	9201 C0BB	020BB		2047	MVI	NOTEW+3,X'01'	ADDR NEXT OUTPUT BLOCK 01923001
				2048 *			01924001
				2049	POINT	(1),NOTEW	01925001
00162C	4100 C0B8		020B8	2050+	LA	0,NOTEW	LOAD PARAMETER REG 0 02-IHBN
001630	58F0 1054		00054	2051+	L	15,84(0,1)	LOAD POINT RTN ADDR 01-POINT
001634	45EF 0004		00004	2052+	BAL	14,4(15,0)	LINK TO POINT ROUTINE 01-POINT
				2053 *			01926001
		01638		2054 WRITE2	EQU	*	01927001
001638	5800 D06C		0006C	2055	L	R0,AUT3DCB	R0 -> SYSUT3 DCB 01928001
00163C	4160 6004		00004	2056	LA	R6,4(,R6)	ADD KEY LENGTH 01929001
				2057 *			01930001
				2058	WRITE	TWRITE,SF,(R0),(R5),(R6)	01931001
001640				2059+	CNOP	0,4	02-IHBRD
001640	4510 B658		01658	2060+	BAL	1,*+24	LOAD DECB ADDRESS 02-IHBRD
001644	00000000			2061+TWRITE	DC	F'0'	EVENT CONTROL BLOCK 02-IHBRD
001648	00			2062+	DC	X'00'	TYPE FIELD 02-IHBRD
001649	20			2063+	DC	X'20'	TYPE FIELD 02-IHBRD
00164A	0000			2064+	DC	AL2(0)	LENGTH 02-IHBRD
00164C	00000000			2065+	DC	A(0)	DCB ADDRESS 02-IHBRD
001650	00000000			2066+	DC	A(0)	AREA ADDRESS 02-IHBRD
001654	00000000			2067+	DC	A(0)	RECORD POINTER WORD 02-IHBRD
001658	5001 0008		00008	2068+	ST	R0,8(1,0)	STORE DCB ADDRESS 02-IHBRD
00165C	5051 000C		0000C	2069+	ST	R5,12(1,0)	STORE AREA ADDRESS 02-IHBRD
001660	4061 0006		00006	2070+	STH	R6,6(1,0)	STORE LENGTH 02-IHBRD
001664	58F1 0008		00008	2071+	L	15,8(1,0)	LOAD DCB ADDRESS 02-IHBRD
001668	58F0 F030		00030	2072+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR 02-IHBRD
00166C	05EF			2073+	BALR	14,15	LINK TO RDWR ROUTINE 02-IHBRD
				2074 *			01932001
00166E	9240 C0B5	020B5		2075	MVI	IOBYTE,WRITEM	SET WRITE MASK 01933001
001672	98E2 C168		02168	2076	LM	R14,R2,REGSAVE	01934001
001676	07FF			2077	BR	R15	01935001
				2078 *			01936001
001678	5850 C0C0		020C0	2079 TABOFLO	LR	R5,PFA	ADDR OF LAST CRIDTAB ENTRY 01937001
00167C	1B66			2080 TABOFLO1	LR	R6,R6	01938001
00167E	4360 5000		00000	2081	IC	R6,0(,R5)	FOR STATEMENT NUMBER 01939001
001682	4166 D478		00478	2082	LA	R6,FSTAB(R6)	ADDR FOR STATEMENT ENTRY 01940001
001686	9640 6000			2083	OI	0(R6),NOSUOP	01941001
00168A	4B50 BF62		01F62	2084	SH	R5,KH9	01942001
00168E	5950 C0C4		020C4	2085	C	R5,PFANO	END OF CRIDTAB ? 01943001
001692	47D0 B67C		0167C	2086	BNH	TABOFLO1	NO 01944001
001696	92FF C0B2	020B2		2087	MVI	ZLV0V,X'FF'	SET ERROR SWITCH 01945001
00169A	D203 C020	C01C 02020	0201C	2088	MVC	ZARSP0(4),ZARNO	SKIP ALL ARIDSTAB ENTRIES 01946001
0016A0	5030 C00C		0200C	2089	ST	R3,ZBEGERR	ERROR EDITING 01947001
0016A4	5030 C010		02010	2090	ST	R3,ZENDERR	01948001
0016A8	D201 C014	BF86 02014	01F86	2091	MVC	ZERRONU,TABOVER	01949001
0016AE	07FF			2092	BR	R15	01950001
				2093 *			01951001
0016B0	4180 C082		02082	2094 DIGIT19	LA	R8,NUMBER	01952001
0016B4	4100 C095		02095	2095	LA	R0,NUMBER+19	MAX LENGTH OF CONSTANT + 1 01953001
0016B8	1B77			2096	SR	R7,R7	01954001
0016BA	1B93			2097	LR	R9,R3	SET FIELD START 01955001
0016BC	9200 C138			2098	MVI	SCATEST,0	01956001
0016C0	4110 3001		00001	2099 DIG191	LA	R1,1(,R3)	TRT START 01957001
0016C4	1B22			2100 DIG192	SR	R2,R2	01958001
0016C6	DDFF 1000	C334 00000	02334	2101 DIG193	TRT	0(256,R1),DIG19	01959001
0016CC	4780 B74C		0174C	2102	BZ	DIGL19	MORE THAN 256 BYTES 01960001
0016D0	1B31			2103	LR	R3,R1	UPDATE R3 01961001
0016D2	47F2 B6D2		016D2	2104	B	*(R2)	BRANCH TABLE 01962001
0016D6	47F0 B6EE		016EE	2105	B	DECPM	+04 01963001
0016DA	47F0 B6F8		016F8	2106	B	SCAFACM	+08 01964001
0016DE	47F0 B702		01702	2107	B	QTORLT	+12 01965001
0016E2	47F0 B71A		0171A	2108	B	ZETAM	+16 01966001
0016E6	47F0 A842		00842	2109	B	RHO	+20 01967001
0016EA	47F0 B72C		0172C	2110	B	OTHER	+24 01968001
				2111 *			01969001



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0016EE	45F0 B5B0		015B0	2112	DECPTM	BAL R15,MOVE	01970001
0016F2	1A71			2113		AR R7, R1	01971001
0016F4	47F0 B7DE		017DE	2114		B DECPOIN1	01972001
				2115	*		01973001
0016F8	45F0 B5B0		015B0	2116	SCAFACM	BAL R15,MOVE	01974001
0016FC	1A71			2117		AR R7, R1	01975001
0016FE	47F0 B876		01876	2118		B SCA1	01976001
				2119	*		01977001
001702	45F0 B5B0		015B0	2120	QTORLT	BAL R15,MOVE	01978001
001706	1A71			2121		AR R7, R1	01979001
001708	5070 C154		02154	2122	QTORLT1	ST R7, ZEXCORR	01980001
00170C	4520 B96C		0196C	2123		BAL R2, CERR	01981001
001710	D201 C014	BF78 02014	01F78	2124		MVC ZERRONU, INVOP	01982001
001716	47F0 B4CE		014CE	2125		B INCOROP	01983001
				2126	*		01984001
00171A	45F0 B5B0		015B0	2127	ZETAM	BAL R15,MOVE	01985001
00171E	1A71			2128		AR R7, R1	01986001
001720	45F0 B2EE		012EE	2129		BAL R15, ICHA	01987001
001724	1813			2130		LR R1, R3	01988001
001726	1893			2131		LR R9, R3	01989001
001728	47F0 B6C4		016C4	2132		B DIG192	01990001
				2133	*		01991001
00172C	5980 C120		02120	2134	OTHER	C R8, NSTART	01992001
001730	4770 B73C		0173C	2135		BNE OTHER1	01993001
001734	1873			2136		LR R7, R3	01994001
001736	1879			2137		SR R7, R9	01995001
001738	47F0 B9F8		019F8	2138		B INTCON	01996001
				2139	*		01997001
00173C	45F0 B5B0		015B0	2140	OTHER1	BAL R15,MOVE	01998001
001740	1A71			2141		AR R7, R1	01999001
001742	1818			2142		LR R1, R8	02000001
001744	4190 C082		02082	2143		LA R9, NUMBER	02001001
001748	47F0 B9F8		019F8	2144		B INTCON	02002001
				2145	*		02003001
00174C	4110 1100		00100	2146	DIGL19	LA R1, 256(,R1)	02004001
001750	47F0 B6C6		016C6	2147		B DIG193	02005001
				2148	*		02006001
001754	4180 C082		02082	2149	DIGIT0	LA R8, NUMBER	02007001
001758	4100 C095		02095	2150		LA R0, NUMBER+19	02008001
00175C	1877			2151		SR R7, R7	02009001
00175E	9200 C138	02138		2152		MVI SCATEST, 0	02010001
001762	4110 3001		00001	2153		LA R1, 1(,R3)	02011001
001766	1822			2154	DIG01	SR R2, R2	02012001
001768	DDFF 1000	C392 00000	02392	2155	DIG02	TRT 0(256, R1), DIG0	02013001
00176E	4780 B7C8		017C8	2156		BZ DIGL0	02014001
001772	1831			2157		LR R3, R1	02015001
001774	1893			2158		LR R9, R3	02016001
001776	47F2 B776		01776	2159		B *(R2)	02017001
00177A	47F0 B6C0		016C0	2160		B DIG191	02018001
00177E	47F0 B702		01702	2161		B QTORLT	02019001
001782	47F0 B7DE		017DE	2162		B DECPOIN1	02020001
001786	47F0 B796		01796	2163		B SCA0	02021001
00178A	47F0 B79E		0179E	2164		B ZETA0	02022001
00178E	47F0 A842		00842	2165		B RHO	02023001
001792	47F0 B7A8		017A8	2166		B OTHOP0	02024001
				2167	*		02025001
001796	6800 C0F0		020F0	2168	SCA0	LD 0, ZEROFLOA	02026001
00179A	47F0 B876		01876	2169		B SCA1	02027001
				2170	*		02028001
00179E	45F0 B2EE		012EE	2171	ZETA0	BAL R15, ICHA	02029001
0017A2	1813			2172		LR R1, R3	02030001
0017A4	47F0 B766		01766	2173		B DIG01	02031001
				2174	*		02032001
0017A8	5940 BFE4		01FE4	2175	OTHOP0	C R4, ZFILE5	02033001
0017AC	47D0 B7B4		017B4	2176		BNH OTHOP01	02034001
0017B0	45F0 B1AC		011AC	2177		BAL R15, OUCHA	02035001
0017B4	D202 4003	BF54 00003	01F54	2178	OTHOP01	MVC 3(3, R4), ZERO	02036001
0017BA	D201 4001	C132 00001	02132	2179		MVC 1(2, R4), ZINTYP	02037001
0017C0	4140 4005		00005	2180		LA R4, 5(, R4)	02038001
0017C4	47F0 A24A		0024A	2181		B GENTEST	02039001
				2182	*		02040001
0017C8	4110 1100		00100	2183	DIGL0	LA R1, 256(, R1)	02041001
0017CC	47F0 B768		01768	2184		B DIG02	02042001
				2185	*		02043001
0017D0	4180 C082		02082	2186	DECPOIN	LA R8, NUMBER	02044001
0017D4	4100 C095		02095	2187		LA R0, NUMBER+19	02045001
0017D8	1877			2188		SR R7, R7	02046001
0017DA	9200 C138	02138		2189		MVI SCATEST, 0	02047001
0017DE	4190 3001		00001	2190	DECPOIN1	LA R9, 1(, R3)	02048001
0017E2	4110 3001		00001	2191	DECPOIN2	LA R1, 1(, R3)	02049001
0017E6	1822			2192	DECPOIN3	SR R2, R2	02050001
0017E8	DDFF 1000	C3F0 00000	023F0	2193	DECPOIN4	TRT 0(256, R1), DECPO	02051001
0017EE	4780 B864		01864	2194		BZ DECPOINL	02052001
0017F2	1831			2195		LR R3, R1	02053001
0017F4	47F2 B7F4		017F4	2196		B *(R2)	02054001
0017F8	47F0 B80C		0180C	2197		B DECPO	02055001
0017FC	47F0 B820		01820	2198		B QTORLTP	02056001
001800	47F0 B828		01828	2199		B DECPSCA	02057001
001804	47F0 B83C		0183C	2200		B DECPZETA	02058001
001808	47F0 B84C		0184C	2201		B DECPOT	02059001
				2202	*		02060001
00180C	1993		2203	DECP0	CR R9, R3		02061001
00180E	4770 B7E2		017E2	2204		BNE DECPOIN2	02062001
001812	5980 C120		02120	2205		C R8, NSTART	02063001
001816	4770 B7E2		017E2	2206		BNE DECPOIN2	02064001
00181A	0670			2207		BCTR R7, 0	02065001

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00181C	47F0 B7DE		017DE	2208	B	DECPOIN1	02066001
				2209	*		02067001
001820	45F0 B5B0		015B0	2210	QTORLTP	R15,MOVE	02068001
001824	47F0 B708		01708	2211	B	QTORLT1	02069001
				2212	*		02070001
001828	45F0 B59A		0159A	2213	DECPSCA	R15,MOVEP	02071001
00182C	5980 C120		02120	2214	C	R8,NSTART	02072001
001830	4770 B876		01876	2215	BNE	SCA1	02073001
001834	6800 C0F0		020F0	2216	LD	0,ZEROFLOA	02074001
001838	47F0 B876		01876	2217	B	SCA1	02075001
				2218	*		02076001
00183C	45F0 B5B0		015B0	2219	DECPZETA	R15,MOVE	02077001
001840	45F0 B2EE		012EE	2220	BAL	R15,ICHA	02078001
001844	1893			2221	LR	R9, R3	02079001
001846	1813			2222	LR	R1, R3	02080001
001848	47F0 B7E6		017E6	2223	B	DECPOIN3	02081001
				2224	*		02082001
00184C	5070 C154		02154	2225	DECPOT	ST	02083001
001850	45F0 B59A		0159A	2226	BAL	R15,MOVEP	02084001
001854	5980 C120		02120	2227	C	R8,NSTART	02085001
001858	4770 BA4A		01A4A	2228	BNE	REALCON	02086001
00185C	6800 C0F0		020F0	2229	LD	0,ZEROFLOA	02087001
001860	47F0 BC8C		01C8C	2230	B	REALHAN	02088001
				2231	*		02089001
001864	4110 1100		00100	2232	DECPOINL	LA R1,256(,R1)	02090001
001868	47F0 B7E8		017E8	2233	B	DECPOIN4	02091001
				2234	*		02092001
00186C	1B77			2235	SCAFAC	SR	02093001
00186E	6800 C0F8		020F8	2236	LD	0,ZONEFLOA	02094001
001872	4180 C082		02082	2237	LA	R8,NUMBER	02095001
001876	5080 C150		02150	2238	SCA1	ST	02096001
00187A	5070 C154		02154	2239	ST	R7,ZEXCORR	02097001
00187E	4180 C145		02145	2240	LA	R8,SCAWORK	02098001
001882	4100 C14E		0214E	2241	LA	R0,SCAWORK+9	02099001
001886	9210 C138	02138		2242	MVI	SCATEST,X'10'	02100001
00188A	9200 C13A	0213A		2243	MVI	SCALE,0	02101001
00188E	4190 3001		00001	2244	SCA20	LA R9,1(,R3)	02102001
001892	4110 3001		00001	2245	SCA2	LA R1,1(,R3)	02103001
001896	1B22			2246	SCA3	SR	02104001
001898	DDFF 1000	C44E 00000	0244E	2247	SCA4	TRT 0(256,R1),SCAFAC	02105001
00189E	4780 B964		01964	2248	BZ	SCAL	02106001
0018A2	1831			2249	LR	R3, R1	02107001
0018A4	47F2 B8A4		018A4	2250	B	*(R2)	02108001
0018A8	47F0 B8C0		018C0	2251	B	SCA19	02109001
0018AC	47F0 B8C8		018C8	2252	B	SCAZERO	+04 02110001
0018B0	47F0 B8D8		018D8	2253	B	SCASTGN	+08 02111001
0018B4	47F0 B946		01946	2254	B	SCAQL	+12 02112001
0018B8	47F0 B8EE		018EE	2255	B	SCAZETA	+16 02113001
0018BC	47F0 B8FE		018FE	2256	B	SCAOT	+20 02114001
				2257	*		+24 02115001
0018C0	9620 C138	02138		2258	SCA19	OI	02116001
0018C4	47F0 B892		01892	2259	B	SCA2	02117001
				2260	*		02118001
0018C8	9120 C138	02138		2261	SCAZERO	TM	02119001
0018CC	4710 B892		01892	2262	BO	SCA2	02120001
0018D0	9640 C138	02138		2263	OI	SCATEST,SFL0	02121001
0018D4	47F0 B88E		0188E	2264	B	SCA20	02122001
				2265	*		02123001
0018D8	91E0 C138	018D8		2266	SCASIGN	EQU *	02124001
0018DC	4770 B8FE	02138		2267	TM	SCATEST,SFLSIGN	02125001
0018E0	D200 C13A	3000 0213A	00000	2268	BNZ	SCAOT	02126001
0018E6	9680 C138	02138		2269	MVC	SCALE(1),0(R3)	02127001
0018EA	47F0 B88E		0188E	2270	OI	SCATEST,SFSIGN	02128001
				2271	B	SCA20	02129001
				2272	*		02130001
0018EE	45F0 B5B0		015B0	2273	SCAZETA	BAL	02131001
0018F2	45F0 B2EE		012EE	2274	BAL	R15,ICHA	02132001
0018F6	1813			2275	LR	R1, R3	02133001
0018F8	1893			2276	LR	R9, R3	02134001
0018FA	47F0 B896		01896	2277	B	SCA3	02135001
				2278	*		02136001
0018FE	9160 C138	02138		2279	SCAOT	TM	02137001
001902	4780 B946		01946	2280	BZ	SCAQL	02138001
001906	9120 C138	02138		2281	TM	SCATEST,SF19	02139001
00190A	4780 B934		01934	2282	BZ	SCAOT1	02140001
00190E	45F0 B5B0		015B0	2283	BAL	R15,MOVE	02141001
001912	5B80 C15C		0215C	2284	S	R8,SCAWORKA	02142001
001916	4480 B940		01940	2285	EX	R8,SCAPACK	02143001
00191A	D100 C0EF	C136 020EF	02136	2286	MVN	ZPACK+7(1),SREF	02144001
001920	9501 C13A	0213A		2287	CLI	SCALE,XFMINUS	02145001
001924	4770 B92E		0192E	2288	BNE	*+10	02146001
001928	D100 C0EF	C137 020EF	02137	2289	MVN	ZPACK+7(1),SREF+1	02147001
00192E	4F50 C0E8		020E8	2290	CVB	R5,ZPACK	02148001
001932	1A75			2291	AR	R7, R5	02149001
				2292	*		02150001
001934	5080 C158		02158	2293	SCAOT1	ST	02151001
001938	5880 C150		02150	2294	L	R8,ZTOSCA	02152001
00193C	47F0 BA4A		01A4A	2295	B	REALCON	02153001
				2296	*		02154001
001940	F270 C0E8	C145 020E8	02145	2297	SCAPACK	PACK	02155001
				2298	*	ZPACK(8),SCAWORK(0)	02156001
001946	45F0 B5B0		015B0	2299	SCAQL	BAL	02157001
00194A	5B80 C15C		0215C	2300	S	R8,SCAWORKA	02158001
00194E	5080 C158		02158	2301	ST	R8,ZTOSCA	02159001
001952	5880 C150		02150	2302	L	R8,ZTO	02160001
001956	4520 B96C		0196C	2303	BAL	R2,CERR	02161001

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00195A	D201 C014	BF78 02014	01F78	2304	MVC	ZERRONU,INVOP	02162001
001960	47F0 B4CE		014CE	2305	B	INCOROP	02163001
				2306	*		02164001
001964	4110 1100		00100	2307	LA	R1,256(,R1)	02165001
001968	47F0 B898		01898	2308	B	SCA4	02166001
				2309	*		02167001
				2310	*	CONSTANT ERROR ROUTINE	02168001
				2311	*		02169001
00196C	9108 C138	02138		2312	CERR	TM SCATEST,PRECERR	02170001
001970	0712			2313	BOR	R2	02171001
001972	5850 C154		02154	2314	L	R5,ZEXCORR	02172001
001976	1255			2315	LTR	R5,R5	02173001
001978	4740 B9A4		019A4	2316	BM	CERR1	02174001
00197C	4950 BF68		01F68	2317	CH	R5,KH12	02175001
001980	47D0 B988		01988	2318	BNH	CERRA	02176001
001984	4850 BF68		01F68	2319	LH	R5,KH12	02177001
001988	4450 B9F2		019F2	2320	CERRA	EX R5,CERREX	02178001
00198C	5A50 C0A8		020A8	2321	A	R5,OPSTART	02179001
001990	923E 5000	00000		2322	MVI	0(R5),XFDECP	02180001
001994	0680			2323	BCTR	R8,0	02181001
001996	1985			2324	CR	R8,R5	02182001
001998	4780 B9A0		019A0	2325	BE	*+8	02183001
00199C	4180 8001		00001	2326	LA	R8,1(,R8)	02184001
0019A0	47F0 B9A8		019A8	2327	B	CERR2	02185001
				2328	*		02186001
0019A4	923E C081	02081		2329	CERR1	MVI ZIDEX,XFDECP	02187001
0019A8	9110 C138	02138		2330	CERR2	TM SCATEST,SF	02188001
0019AC	4780 B9DA		019DA	2331	BZ	CERR3	02189001
0019B0	4100 C097		02097	2332	LA	R0,NUMBER+21	02190001
0019B4	D201 8000	C139 00000	02139	2333	MVC	0(2,R8),SCALEQ	02191001
0019B8	9180 C138	02138		2334	TM	SCATEST,SFSIGN	02192001
0019BE	4710 B9C4		019C4	2335	BO	*+6	02193001
0019C2	0680			2336	BCTR	R8,0	02194001
0019C4	4180 8002		00002	2337	LA	R8,2(,R8)	02195001
0019C8	5810 C158		02158	2338	L	R1,ZTOSCA	02196001
0019CC	4110 1001		00001	2339	LA	R1,1(,R1)	02197001
0019D0	4190 C145		02145	2340	LA	R9,SCAWORK	02198001
0019D4	1A19			2341	AR	R1,R9	02199001
0019D6	45F0 B5B0		015B0	2342	BAL	R15,MOVE	02200001
				2343	*		02201001
0019DA	4150 C08D		0208D	2344	CERR3	LA R5,ZIDEX+12	02202001
0019DE	1985			2345	CR	R8,R5	02203001
0019E0	47D0 B9E6		019E6	2346	BNH	*+6	02204001
0019E4	1885			2347	LR	R8,R5	02205001
0019E6	5080 C010		02010	2348	ST	R8,ZENDERR	02206001
0019EA	D203 C00C	C0A8 0200C	020A8	2349	MVC	ZBEGERR,OPSTART	02207001
0019F0	07F2			2350	BR	R2	02208001
				2351	*		02209001
0019F2	D200 C081	C082 02081	02082	2352	CERREX	MVC ZIDEX(0),NUMBER	02210001
				2353	*		02211001
0019F8	4970 BF64		01F64	2354	INTCON	CH R7,KH10	02212001
0019FC	4740 BA0E		01A0E	2355	BL	INTCON1	02213001
001A00	4720 BA22		01A22	2356	BH	INTCON2	02214001
001A04	D509 9000	C13B 00000	0213B	2357	CLC	0(10,R9),MAXINT	02215001
001A0A	4720 BA22		01A22	2358	BH	INTCON2	02216001
001A0E	0670			2359	INTCON1	BCTR R7,0	02217001
001A10	4470 BA44		01A44	2360	EX	R7,INTPACK	02218001
001A14	D100 C0EF	C136 020EF	02136	2361	MVN	ZPACK+7(1),SREF	02219001
001A1A	4F20 C0E8		020E8	2362	CVB	R2,ZPACK	02220001
001A1E	47F0 BB6E		01B6E	2363	B	INTHAN	02221001
				2364	*		02222001
001A22	5090 C00C		0200C	2365	INTCON2	ST R9,ZBEGERR	02223001
001A26	5010 C010		02010	2366	ST	R1,ZENDERR	02224001
001A2A	D201 C014	BF7E 02014	01F7E	2367	MVC	ZERRONU,RANGEINT	02225001
001A30	45F0 B52C		0152C	2368	BAL	R15,MOVERRO	02226001
001A34	5070 C154		02154	2369	ST	R7,ZEXCORR	02227001
001A38	5880 C120		02120	2370	L	R8,NSTART	02228001
001A3C	45F0 B5B0		015B0	2371	BAL	R15,MOVE	02229001
001A40	47F0 BAA4		01A4A	2372	B	REALCON	02230001
				2373	*		02231001
001A44	F270 C0E8	9000 020E8	00000	2374	INTPACK	PACK ZPACK(8),0(0,R9)	02232001
				2375	*		02233001
001A4A	1868			2376	REALCON	LR R6,R8	02234001
001A4C	5B60 C120		02120	2377	S	R6,NSTART	02235001
001A50	4780 BAA9A		01A9A	2378	BZ	REALCON7	02236001
				2379	*		02237001
				2380	*	CONVERT MANTISSA TO FLOATING FORM	02238001
				2381	*		02239001
001A54	6800 C0F0		020F0	2382	LD	0,ZEROFLOA	02240001
001A58	1896			2383	LR	R9,R6	02241001
001A5A	1B79			2384	SR	R7,R9	02242001
001A5C	4990 BF62		01F62	2385	CH	R9,KH9	02243001
001A60	4720 BAF6		01AF6	2386	BH	REALCON1	02244001
001A64	0690			2387	BCTR	R9,0	02245001
001A66	4490 BB30		01B30	2388	EX	R9,REPACK	02246001
001A6A	D100 C0EF	C136 020EF	02136	2389	REALCON2	MVN ZPACK+7(1),SREF	02247001
001A70	4F50 C0E8		020E8	2390	CVB	R5,ZPACK	02248001
001A74	5050 C10C		0210C	2391	ST	R5,ZFLOFIEL+4	02249001
001A78	6A00 C108		02108	2392	AD	0,ZFLOFIEL	02250001
001A7C	5960 C12C		0212C	2393	C	R6,NREAL	02251001
001A80	47D0 BAA0		01AA0	2394	BNH	REALCON3	02252001
001A84	4520 B96C		0196C	2395	BAL	R2,CERR	02253001
001A88	D201 C014	BF80 02014	01F80	2396	MVC	ZERRONU,PRECERAL	02254001
001A8E	45F0 B52C		0152C	2397	BAL	R15,MOVERRO	02255001
001A92	9608 C138	02138		2398	OI	SCATEST,PRECERR	02256001
001A96	47F0 BAA0		01AA0	2399	B	REALCON3	02257001

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				2400	*		02258001
				2401	*	CONVERT EXPONENT TO FLOATING FORM	02259001
				2402	*		02260001
001A9A	2200			2403	REALCON7	LTDR 0,0	02261001
001A9C	4780 BC8C		01C8C	2404	BZ	REALHAN	02262001
001AA0	1097			2405	REALCON3	LPR R9,R7	02263001
001AA2	4780 BC8C		01C8C	2406	BZ	REALHAN	02264001
001AA6	1819			2407	LR	R1,R9	02265001
001AA8	4120 C180		02180	2408	LA	R2,ZEXTABP-8	02266001
001AAC	1277			2409	LTR	R7,R7	02267001
001AAE	4720 BAB6		01AB6	2410	BP	REALCON6	02268001
001AB2	4120 C1F8		021F8	2411	LA	R2,ZEXTABN-8	02269001
001AB6	4990 BF70		01F70	2412	REALCON6	CH R9,KH64	02270001
001ABA	4780 BAE4		01AE4	2413	BNL	REALCON5	02271001
001ABE	5490 C124		02124	2414	N	R9,SCALEMSK	02272001
001AC2	4780 BACA		01ACA	2415	BZ	REALCON8	02273001
001AC6	6C09 2038		00038	2416	MD	0,56(R9,R2)	02274001
001ACA	8B10 0003		00003	2417	REALCON8	SLA R1,3	02275001
001ACE	5410 C124		02124	2418	N	R1,SCALEMSK	02276001
001AD2	4780 BADA		01ADA	2419	BZ	REALCON9	02277001
001AD6	6C01 2000		00000	2420	MD	0,0(R1,R2)	02278001
001ADA	2200			2421	REALCON9	LTDR 0,0	02279001
001ADC	4780 BB58		01B58	2422	BZ	REALERR1	02280001
001AE0	47F0 BC8C		01C8C	2423	B	REALHAN	02281001
				2424	*		02282001
001AE4	6C00 2078		00078	2425	REALCON5	MD 0,120(,R2)	02283001
001AE8	2200			2426	LTDR	0,0	02284001
001AEA	4780 BB58		01B58	2427	BZ	REALERR1	02285001
001AEE	4B90 BF70		01F70	2428	SH	R9,KH64	02286001
001AF2	47F0 BAB6		01AB6	2429	B	REALCON6	02287001
				2430	*		02288001
001AF6	4B90 BF64		01F64	2431	REALCON1	SH R9,KH10	02289001
001AFA	4990 BF62		01F62	2432	CH	R9,KH9	02290001
001AFE	4740 BB08		01B08	2433	BL	REALCONA	02291001
001B02	0690			2434	BCTR	R9,0	02292001
001B04	4A70 BF5A		01F5A	2435	AH	R7,KH1	02293001
001B08	4490 BB30		01B30	2436	REALCONA	EX R9,REPACK	02294001
001B0C	D100 C0EF	C136 020EF	02136	2437	MVN	ZPACK+7(1),SREF	02295001
001B12	4F50 C0E8		020E8	2438	CVB	R5,ZPACK	02296001
001B16	5050 C10C		0210C	2439	ST	R5,ZFLOFIEL+4	02297001
001B1A	6A00 C108		02108	2440	AD	0,ZFLOFIEL	02298001
001B1E	6C00 C100		02100	2441	MD	0,ZTEN9	02299001
001B22	4199 C083		02083	2442	LA	R9,NUMBER+1(R9)	02300001
001B26	F278 C0E8	9000 020E8	00000	2443	PACK	ZPACK(8),0(9,R9)	02301001
001B2C	47F0 BA6A		01A6A	2444	B	REALCON2	02302001
				2445	*		02303001
001B30	F270 C0E8	C082 020E8	02082	2446	REPACK	PACK ZPACK(8),NUMBER(0)	02304001
				2447	*		02305001
001B36	4150 BC8C		01C8C	2448	REALERR	LA R5,REALHAN	02306001
001B3A	5050 C06C		0206C	2449	ST	R5,ZSTO	02307001
001B3E	D202 1009	C06D 00009	0206D	2450	MVC	9(3,R1),ZSTO+1	02308001
001B44	4520 B96C		0196C	2451	BAL	R2,CERR	02309001
001B48	D201 C014	BF7C 02014	01F7C	2452	MVC	ZERRONU,RANGAREA	02310001
001B4E	45F0 B52C		0152C	2453	BAL	R15,MOVERRO	02311001
001B52	9680 D080		00080	2454	OI	COMPLFGS,COMPMODE	02312001
001B56	07FE			2455	BR	R14	02313001
				2456	*		02314001
001B58	4520 B96C		0196C	2457	REALERR1	BAL R2,CERR	02315001
001B5C	D201 C014	BF7C 02014	01F7C	2458	MVC	ZERRONU,RANGAREA	02316001
001B62	45F0 B52C		0152C	2459	BAL	R15,MOVERRO	02317001
001B66	9680 D080		00080	2460	OI	COMPLFGS,COMPMODE	02318001
001B6A	47F0 BC8C		01C8C	2461	B	REALHAN	02319001
				2462	*		02320001
				2463	*	INTEGER HANDLING	02321001
				2464	*		02322001
001B6E	5940 BFE4		01FE4	2465	INTHAN	C R4,ZFILE5	02323001
001B72	47D0 BB7A		01B7A	2466	BNH	INTHANA	02324001
001B76	45F0 B1AC		011AC	2467	BAL	R15,OUCHA	02325001
001B7A	D201 4001	C132 00001	02132	2468	INTHANA	MVC 1(2,R4),ZINTYP	02326001
001B80	4920 BF6A		01F6A	2469	INTHANR	CH R2,KH15	02327001
001B84	4720 BBA2		01BA2	2470	BH	INTHAN2	02328001
001B88	8B20 0002		00002	2471	SLA	R2,2	02329001
001B8C	4020 C130		02130	2472	STH	R2,ZLIRE	02330001
001B90	9200 4003		00003	2473	MVI	3(R4),0	02331001
001B94	D201 4004	C130 00004	02130	2474	MVC	4(2,R4),ZLIRE	02332001
001B9A	4140 4005		00005	2475	LA	R4,5(,R4)	02333001
001B9E	47F0 A24A		0024A	2476	B	GENTEST	02334001
				2477	*		02335001
001BA2	9180 D080		00080	2478	INTHAN2	TM COMPLFGS,COMPMODE	02336001
001BA6	4710 BBCC		01BCC	2479	BO	INTHAN1	02337001
001BAA	41E0 BBC2		01BC2	2480	LA	R14,INTHANG	02338001
001BAE	4180 0004		00004	2481	LA	R8,4	02339001
001BB2	5890 C118		02118	2482	L	R9,ZWP	02340001
001BB6	5870 C11C		0211C	2483	L	R7,ZDWP	02341001
001BBA	5810 C0DC		020DC	2484	L	R1,ZLITSTA	02342001
001BBE	1B18			2485	SR	R1,R8	02343001
001BC0	1B98			2486	SR	R9,R8	02344001
001BC2	8618 BBE8		01BE8	2487	INTHANG6	BXH R1,R8,INTHAN3	02345001
001BC6	5920 1000		00000	2488	C	R2,0(,R1)	02346001
001BCA	077E			2489	BNR	R14	02347001
				2490	*		02348001
001BCC	5B10 C0D4		020D4	2491	INTHAN1	S R1,ZKOPOL	02349001
001BD0	4010 C130		02130	2492	STH	R1,ZLIRE	02350001
001BD4	D200 4003	D0A1 00003	000A1	2493	MVC	3(1,R4),KBN+1	02351001
001BD8	D201 4004	C130 00004	02130	2494	MVC	4(2,R4),ZLIRE	02352001
001BE0	4140 4005		00005	2495	LA	R4,5(,R4)	02353001



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001BE4	47F0 A24A		0024A	2496	B	GENTEST	02354001
				2497	*		02355001
001BE8	1A98			2498	INTHAN3	AR R9,R8	02356001
001BEA	1997			2499	CR	R9,R7	02357001
001BEC	4780 BC16		01C16	2500	BE	INTHAN9	02358001
				2501	*		02359001
001BF0	4110 1004		00004	2502	INTHAN4	LA R1,4(,R1)	02360001
001BF4	1917			2503	CR	R1,R7	02361001
001BF6	4780 BC06		01C06	2504	BE	INTHAN10	02362001
001BFA	5920 1000		00000	2505	C	R2,0(,R1)	02363001
001BFE	4770 BBF0		01BF0	2506	BNE	INTHAN4	02364001
001C02	4780 BBCC		01BCC	2507	BE	INTHAN1	02365001
				2508	*		02366001
001C06	1819			2509	INTHAN10	LR R1,R9	02367001
001C08	1897			2510	LR	R9,R7	02368001
001C0A	5090 C118		02118	2511	INTHAN7	ST R9,ZWP	02369001
001C0E	5020 1000		00000	2512	ST	R2,0(,R1)	02370001
001C12	47F0 BBCC		01BCC	2513	B	INTHAN1	02371001
				2514	*		02372001
001C16	5990 C0D8		020D8	2515	INTHAN9	C R9,ZKOPEND	02373001
001C1A	4780 BC3A		01C3A	2516	BNL	INTHAN8	02374001
001C1E	5990 C0E0		020E0	2517	C	R9,ZTEXTCO	02375001
001C22	4740 BC2A		01C2A	2518	BL	INTHAN5	02376001
001C26	45E0 BDD4		01DD4	2519	BAL	R14,XTTTRAF	02377001
001C2A	4190 9004		00004	2520	INTHAN5	LA R9,4(,R9)	02378001
001C2E	5A70 C128		02128	2521	A	R7,LREAL	02379001
001C32	5070 C11C		0211C	2522	ST	R7,ZDWP	02380001
001C36	47F0 BC0A		01C0A	2523	B	INTHAN7	02381001
				2524	*		02382001
001C3A	D501 C0E4	BF72 020E4	01F72	2525	INTHAN8	CLC ZKBNMAX(2),KH255	02383001
001C40	4780 BC72		01C72	2526	BE	INTHAN11	02384001
001C44	5890 C11C		0211C	2527	L	R9,ZDWP	02385001
001C48	45E0 BDD4		01DD4	2528	BAL	R14,XTTTRAF	02386001
001C4C	45E0 BDB2		01DB2	2529	BAL	R14,CPOLEX	02387001
001C50	5810 C0D4		020D4	2530	L	R1,ZKOPOL	02388001
001C54	4190 1004		00004	2531	LA	R9,4(,R1)	02389001
001C58	1871			2532	LR	R7,R1	02390001
001C5A	5A70 C128		02128	2533	A	R7,LREAL	02391001
001C5E	5090 C118		02118	2534	ST	R9,ZWP	02392001
001C62	5070 C11C		0211C	2535	ST	R7,ZDWP	02393001
001C66	5010 C0DC		020DC	2536	ST	R1,ZLITSTA	02394001
001C6A	5020 1000		00000	2537	ST	R2,0(,R1)	02395001
001C6E	47F0 BBCC		01BCC	2538	B	INTHAN1	02396001
				2539	*		02397001
001C72	5010 C00C		0200C	2540	INTHAN11	ST R1,ZBEGERR	02398001
001C76	5010 C010		02010	2541	ST	R1,ZENDERR	02399001
001C7A	D201 C014	BF84 02014	01F84	2542	MVC	ZERRONU,MANYCON	02400001
001C80	45F0 B52C		0152C	2543	BAL	R15,MOVERRO	02401001
001C84	9680 D080	00080		2544	OI	COMPLGS,COMPmode	02402001
001C88	47F0 BBCC		01BCC	2545	B	INTHAN1	02403001
				2546	*		02404001
001C8C	5940 BFE4		01FE4	2547	REALHAN	C R4,ZFILE5	02405001
001C90	47D0 BC98		01C98	2548	BNH	REALHANA	02406001
001C94	45F0 B1AC		011AC	2549	BAL	R15,OUCHA	02407001
001C98	D201 4001	C134 00001	02134	2550	REALHANA	MVC 1(2,R4),ZREALTYP	02408001
001C9E	9500 C0B1	020B1		2551	CLI	ZFORTEST,0	02409001
001CA2	4780 BCAE		01CAE	2552	BE	REALHAN1	02410001
001CA6	5850 C0CC		020CC	2553	L	R5,ZFSPTR	02411001
001CAA	9680 5000	00000		2554	OI	0(R5),NOCOUNT	02412001
001CAE	9102 D080	00080		2555	REALHAN1	TM COMPLGS,LNG	02413001
001CB2	4710 BCD0		01CD0	2556	BO	REALH	02414001
001CB6	7000 C06C		0206C	2557	STE	0,ZSTO	02415001
001CBA	D200 C110	C06C 02110	0206C	2558	MVC	ROUND(1),ZSTO	02416001
001CC0	6A00 C110		02110	2559	AD	0,ROUND	02417001
001CC4	7000 C06C		0206C	2560	STE	0,ZSTO	02418001
001CC8	5820 C06C		0206C	2561	L	R2,ZSTO	02419001
001CCC	47F0 BB80		01B80	2562	B	INTHANR	02420001
				2563	*		02421001
001CD0	5810 C0DC		020DC	2564	REALH	L R1,ZLITSTA	02422001
001CD4	9180 D080	00080		2565	TM	COMPLGS,COMPmode	02423001
001CD8	4710 BBCC		01BCC	2566	BO	INTHAN1	02424001
001CDC	4160 0008		00008	2567	LA	R6,8	02425001
001CE0	1886			2568	LR	R8,R6	02426001
001CE2	1B16			2569	SR	R1,R6	02427001
001CE4	5890 C118		02118	2570	L	R9,ZWP	02428001
001CE8	5870 C11C		0211C	2571	L	R7,ZDWP	02429001
001CEC	1997			2572	CR	R9,R7	02430001
001CEE	4780 BD3C		01D3C	2573	BE	REALH2	02431001
001CF2	1B76			2574	SR	R7,R6	02432001
001CF4	41E0 BCF8		01CF8	2575	LA	R14,REALH3	02433001
001CF8	8618 BD02		01D02	2576	REALH3	BXH R1,R8,REALH4	02434001
001CFC	6900 1000		00000	2577	CD	0,0(,R1)	02435001
001D00	077E			2578	BNR	R14	02436001
				2579	*		02437001
001D02	41E0 BD08		01D08	2580	REALH4	LA R14,REALH5	02438001
001D06	1B16			2581	SR	R1,R6	02439001
001D08	8616 BD16		01D16	2582	REALH5	BXH R1,R6,REALH6	02440001
001D0C	6900 1000		00000	2583	CD	0,0(,R1)	02441001
001D10	077E			2584	BNR	R14	02442001
001D12	47F0 BBCC		01BCC	2585	B	INTHAN1	02443001
				2586	*		02444001
001D16	1A76			2587	REALH6	AR R7,R6	02445001
001D18	5970 C0D8		020D8	2588	C	R7,ZKOPEND	02446001
001D1C	4780 BD66		01D66	2589	BNL	REALH10	02447001
001D20	1A76			2590	REALH8	AR R7,R6	02448001
001D22	5070 C11C		0211C	2591	ST	R7,ZDWP	02449001

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001D26	6000 1000		00000	2592	STD	0,0(,R1)	02450001
001D2A	47F0 BBCC		01BCC	2593	B	INTHAN1	02451001
				2594	*		02452001
001D2E	45E0 BDD4		01DD4	2595	REALH7	R14,TXTTRAF	02453001
001D32	1A87			2596	REALH9	R8,R7	02454001
001D34	5080 C118		02118	2597	ST	R8,ZWP	02455001
001D38	47F0 BD20		01D20	2598	B	REALH8	02456001
				2599	*		02457001
001D3C	41E0 BD42		01D42	2600	REALH2	R14,REALH21	02458001
001D40	1B76			2601	SR	R7,R6	02459001
001D42	8616 BD50		01D50	2602	REALH21	R1,R6,REALH22	02460001
001D46	6900 1000		00000	2603	CD	0,0(,R1)	02461001
001D4A	077E			2604	BNER	R14	02462001
001D4C	47F0 BBCC		01BCC	2605	B	INTHAN1	02463001
				2606	*		02464001
001D50	1A76			2607	REALH22	AR R7,R6	02465001
001D52	5970 C0D8		020D8	2608	C	R7,ZKOPEND	02466001
001D56	47B0 BD66		01D66	2609	BNL	REALH10	02467001
001D5A	5970 C0E0		020E0	2610	C	R7,ZTEXTCO	02468001
001D5E	4740 BD32		01D32	2611	BL	REALH9	02469001
001D62	47F0 BD2E		01D2E	2612	B	REALH7	02470001
				2613	*		02471001
001D66	D501 C0E4	BF72 020E4	01F72	2614	REALH10	CLC ZKBNMAX(2),KH255	02472001
001D6C	47B0 BD98		01D98	2615	BE	REALH11	02473001
001D70	5890 C11C		0211C	2616	L	R9,ZDWP	02474001
001D74	45E0 BDD4		01DD4	2617	BAL	R14,TXTTRAF	02475001
001D78	45E0 BDB2		01DB2	2618	BAL	R14,CPOLEX	02476001
001D7C	5810 C0D4		020D4	2619	L	R1,ZKOPOL	02477001
001D80	4170 1008		00008	2620	LA	R7,8(,R1)	02478001
001D84	5070 C11C		0211C	2621	ST	R7,ZDWP	02479001
001D88	5070 C118		02118	2622	ST	R7,ZWP	02480001
001D8C	5010 C0DC		020DC	2623	ST	R1,ZLITSTA	02481001
001D90	6000 1000		00000	2624	STD	0,0(,R1)	02482001
001D94	47F0 BBCC		01BCC	2625	B	INTHAN1	02483001
				2626	*		02484001
001D98	5030 C00C		0200C	2627	REALH11	ST R3,ZBEGERR	02485001
001D9C	5030 C010		02010	2628	ST	R3,ZENDERR	02486001
001DA0	D201 C014	BF84 02014	01F84	2629	MVC	ZERRONU,MANYCON	02487001
001DA6	45F0 B52C		0152C	2630	BAL	R15,MOVERRO	02488001
001DAA	9680 D080	00080		2631	OI	COMPFLGS,COMPMODE	02489001
001DAE	47F0 BBCC		01BCC	2632	B	INTHAN1	02490001
				2633	*		02491001
				2634	*	CONSTANT POOL EXCHANGE	02492001
				2635	*		02493001
001DB2	58F0 C0D4		020D4	2636	CPOLEX	L R15,ZKOPOL	02494001
001DB6	50F0 C0DC		020DC	2637	ST	R15,ZLITSTA	02495001
001DBA	4AF0 C0E6		020E6	2638	AH	R15,TXTPUT	02496001
001DBE	50F0 C0E0		020E0	2639	ST	R15,ZTEXTCO	02497001
001DC2	48F0 C0E4		020E4	2640	LH	R15,ZKBNMAX	02498001
001DC6	41F0 F001		00001	2641	LA	R15,1(,R15)	02499001
001DCA	40F0 C0E4		020E4	2642	STH	R15,ZKBNMAX	02500001
001DCE	40F0 D0A0		000A0	2643	STH	R15,KBN	02501001
001DD2	07FE			2644	BR	R14	02502001
				2645	*		02503001
				2646	*	TRANSFER TXT RECORD	02504001
				2647	*		02505001
001DD4	90E6 BF1C		01F1C	2648	TXTTRAF	STM R14,R6,TXTSAV	02506001
001DD8	5820 C0E0		020E0	2649	L	R2,ZTEXTCO	02507001
001DDC	4820 C0E6		020E6	2650	SH	R2,TXTPUT	02508001
001DE0	1859			2651	LR	R5,R9	02509001
001DE2	1B52			2652	SR	R5,R2	02510001
001DE4	4050 BE02		01E02	2653	STH	R5,TXTLE	02511001
001DE8	1859			2654	LR	R5,R9	02512001
001DEA	4A50 C0E6		020E6	2655	AH	R5,TXTPUT	02513001
001DEE	5050 C0E0		020E0	2656	ST	R5,ZTEXTCO	02514001
001DF2	5860 D0A4		000A4	2657	L	R6,PRPT	02515001
001DF6	9160 D081	00081		2658	TM	COMPFLGS+1,NLOAD+NDECK	02516001
001DFA	4710 BE0E		01E0E	2659	BO	TXTLE2	02517001
001DFE	45E0 BE14		01E14	2660	BAL	R14,GENTXT	02518001
001E02	0000			2661	TXTLE	DC H'0'	02519001
001E04	5060 D0A4		000A4	2662	TXTLE1	ST R6,PRPT	02520001
001E08	98E6 BF1C		01F1C	2663	LM	R14,R6,TXTSAV	02521001
001E0C	07FE			2664	BR	R14	02522001
				2665	*		02523001
001E0E	1A65			2666	TXTLE2	AR R6,R5	02524001
001E10	47F0 BE04		01E04	2667	B	TXTLE1	02525001
				2668	*		02526001
				2669	*	GENERATE TXT RECORDS	02527001
				2670	*		02528001
001E14	4140 E002		00002	2671	GENTXT	LA R4,2(,R14)	02529001
001E18	48E0 E000		00000	2672	LH	R14,0(,R14)	02530001
001E1C	4130 BEF4		01EF4	2673	LA	R3,TXTT	02531001
001E20	5810 D0A8		000A8	2674	L	R1,SAVOUTA	02532001
001E24	D502 1001	3001 00001	00001	2675	CLC	1(3,R1),1(R3)	02533001
001E2A	4770 BE5E		01E5E	2676	BNE	GEN3	02534001
001E2E	D501 100A	300C 0000A	0000C	2677	CLC	10(2,R1),12(R3)	02535001
001E34	47B0 BE5E		01E5E	2678	BNL	GEN3	02536001
001E38	41F0 0038		00038	2679	GEN6	LA R15,56	02537001
001E3C	4800 100A		0000A	2680	LH	R0,10(,R1)	02538001
001E40	1BF0			2681	SR	R15,R0	02539001
001E42	19FE			2682	CR	R15,R14	02540001
001E44	4740 BE4A		01E4A	2683	BL	GEN6A	02541001
001E48	18FE			2684	LR	R15,R14	02542001
001E4A	1AF0			2685	GEN6A	AR R15,R0	02543001
001E4C	40F0 100A		0000A	2686	STH	R15,10(,R1)	02544001
001E50	1BF0			2687	SR	R15,R0	02545001

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001E52	1A10			2688	AR	R1,R0	START ADDR WITHIN RECORD 02546001
001E54	1BEF			2689	SR	R14,R15	REMAINING LENGTH 02547001
001E56	47F0 BF02		01F02	2690	B	GEN8	GOTO MOVE TEXT 02548001
				2691	*		02549001
001E5A	12EE			2692	GEN4	LTR R14,R14	MORE INFORMATION TO BE MOVED ? 02550001
001E5C	0784			2693	BZR	R4	NO, RETURN TO CALLING ROUTINE 02551001
				2694	*		02552001
				2695	*	OUTPUT NEW RECORD	02553001
				2696	*		02554001
001E5E	50E0 BE90		01E90	2697	GEN3	ST R14,SAVELT	SAVE LENGTH 02555001
001E62	9160 D081	00081		2698	TM	COMPFLGS+1,NLOAD+NDECK	BOTH DECK AND LOAD SPECIFIED ? 02556001
001E66	4780 BE94		01E94	2699	BZ	BOTH	YES, BRANCH 02557001
001E6A	9120 D081	00081		2700	TM	COMPFLGS+1,NDECK	ONLY DECK ? 02558001
001E6E	5810 D060		00060	2701	L	R1,APCHDCB	R1 -> SYSPUNCH DCB 02559001
001E72	4780 BE7A		01E7A	2702	BZ	PUT1	YES 02560001
001E76	5810 D048		00048	2703	L	R1,ALINDCB	R1 -> SYSLIN DCB 02561001
				2704	*		02562001
				2705	PUT1	PUT (R1)	PUT FOR SYSLIN AND SYSPUNCH 02563001
001E7A	1811			2706	LR	1,R1	LOAD PARAMETER REG 1 02-IHBN
001E7C	58F0 1030		00030	2707	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
001E80	05EF			2708	BALR	14,15	LINK TO PUT ROUTINE 01-PUT
				2709	*		02564001
001E82	5010 D0A8		000A8	2710	ST	R1,SAVOUTA	IF ONLY SYSPUNCH SPECIFIED 02565001
001E86	58E0 BE90		01E90	2711	L	R14,SAVELT	RESTORE LENGTH 02566001
001E8A	47F0 BEB6		01EB6	2712	B	PUNCHOUT	02567001
				2713	*		02568001
001E8E	0000						
001E90	00000000			2714	SAVELT	DC F'0'	SAVE AREA FOR LENGTH 02569001
001E94	58E0 D0AC		000AC	2715	BOTH	L R14,OUTAREA2	COPY SYSLIN BUFFER TO SYSPUNCH 02570001
001E98	5810 D0A8		000A8	2716	L	R1,SAVOUTA	02571001
001E9C	D24F E000	1000 00000	00000	2717	MVC	0(80,R14),0(R1)	BUFFER 02572001
001EA2	5810 D060		00060	2718	L	R1,APCHDCB	02573001
				2719	*		02574001
				2720			
001EA6	1811			2721	LR	1,R1	LOAD PARAMETER REG 1 02-IHBN
001EA8	58F0 1030		00030	2722	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
001EAC	05EF			2723	BALR	14,15	LINK TO PUT ROUTINE 01-PUT
				2724	*		02576001
001EAE	5010 D0AC		000AC	2725	ST	R1,OUTAREA2	BEEEN SPECIFIED 02577001
001EB2	47F0 BE76		01E76	2726	B	PUT1A	GOTO PUT SYSLIN 02578001
				2727	*		02579001
		01EB6		2728	PUNCHOUT	EQU *	02580001
001EB6	D203 1000 3000	00000	00000	2729	MVC	0(4,R1),0(R3)	INSERT FIRST 4 BYTES 02581001
001EBC	9240 1004		00004	2730	MVI	4(R1),C' '	INSERT ONE BLANK 02582001
001EC0	D242 1005 1004	00005	00004	2731	MVC	5(67,R1),4(R1)	BLANK OUTPUT RECORD 02583001
001EC6	D203 1048 D0B0	00048	000B0	2732	MVC	72(4,R1),PIDENT	INSERT PROGRAM IDENT 02584001
001ECC	FA30 D0B4 BF40	000B4	01F40	2733	AP	CARDCNT,KP1	STEP SEQUENCE NUMBER 02585001
001ED2	F333 104C D0B4	0004C	000B4	2734	UNPK	76(4,R1),CARDCNT	UNPACK INTO RECORD 02586001
001ED8	96F0 104F		0004F	2735	OI	79(R1),X'F0'	MAKE PRINTABLE 02587001
001EDC	D201 100A 3004	0000A	00004	2736	MVC	10(2,R1),4(R3)	INSERT INITIAL LENGTH 02588001
001EE2	D205 100E 3006	0000E	00006	2737	MVC	14(6,R1),6(R3)	INSERT ESID+R AND P 02589001
001EE8	5060 1004		00004	2738	ST	R6,4(0,R1)	02590001
001EEC	9240 1004		00004	2739	MVI	4(R1),C' '	02591001
001EF0	47F0 BE38		01E38	2740	B	GEN6	02592001
				2741	*		02593001
				2742	*		02594001
				2743	*	TXT RECORD	02595001
001EF4	02			2744	TXTT	DC X'02'	CARD CODE 02596001
001EF5	E3E7E3			2745	DC	C'TXT'	IDENTIFICATION 02597001
001EF8	0000			2746	DC	H'0'	INITIAL LENGTH 0 02598001
001EFA	0001			2747	DC	H'1'	ESID 02599001
001EFC	40404040			2748	DC	C' '	02600001
001F00	0038			2749	DC	H'56'	MAXIMUM LENGTH 02601001
				2750	*		02602001
				2751	*		02603001
				2752	*	TXT MOVE ROUTINE	02604001
001F02	06F0			2753	GEN8	BCTR R15,0	DECR R15 02605001
001F04	42F0 BF09		01F09	2754	STC	R15,*+5	INSERT PROPER LENGTH TO MOVE 02606001
001F08	D200 1010 2000	00010	00000	2755	MVC	16(0,R1),0(R2)	MOVE DATA TO OUT AREA 02607001
001F0E	416F 6001		00001	2756	LA	R6,1(R15,R6)	INCREASE PROGRAM POINTER 02608001
001F12	412F 2001		00001	2757	LA	R2,1(R15,R2)	MODIFY DATA ADDR 02609001
001F16	47F0 BE5A		01E5A	2758	B	GEN4	OUT OF MOVE TXT ROUTINE 02610001
				2759	*		02611001
				2760	*	AREAS AND CONSTANTS LOCAL FOR GENTXT	02612001
				2761	*		02613001
001F1A	0000						
001F1C	0000000000000000			2762	TXTSAV	DC 9F'0'	REGISTER SAVE AREA 02614001
001F40	1C			2763	KP1	DC PL1'1'	CARD COUNT INCREMENT 02615001
				2764	*		02616001
001F41	00						
001F42	950C 1007		00007	2765	INTERUPT	CLI 7(R1),X'0C'	FLOATING POINT OVERFLOW ? 02617001
001F46	4780 BB36		01B36	2766	BE	REALERR	YES 02618001
001F4A	5850 C160		02160	2767	L	R5,OLDSPIE	NO, USE DIRECTORY ROUTINE 02619001
001F4E	58F0 5000		00000	2768	L	R15,0(,R5)	ADDR ERROR ROUTINE OF DIREC 02620001
001F52	07FF			2769	BR	R15	ENTER ERROR ROUTINE 02621001
				2770	*		02622001
001F54	000000000000			2771	ZERO	DC 3H'0'	02623001
001F5A	0001			2772	KH1	DC H'1'	02624001
001F5C	0005			2773	KH5	DC H'5'	02625001
001F5E	0007			2774	KH7	DC H'7'	02626001
001F60	0008			2775	KH8	DC H'8'	02627001
001F62	0009			2776	KH9	DC H'9'	02628001
001F64	000A			2777	KH10	DC H'10'	02629001
001F66	000B			2778	KH11	DC H'11'	02630001
001F68	000C			2779	KH12	DC H'12'	02631001
001F6A	000F			2780	KH15	DC H'15'	02632001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
001F6C	0012			2781	KH18	DC H'18'	02633001
001F6E	0038			2782	KH56	DC H'56'	02634001
001F70	0040			2783	KH64	DC H'64'	02635001
001F72	00FF			2784	KH255	DC H'255'	02636001
001F74	0700			2785	KH1792	DC H'1792'	02637001
001F76	1000			2786	KH4096	DC H'4096'	02638001
				2787	*		02639001
				2788	*	ERROR MESSAGE NUMBERS	02640001
				2789	*		02641001
001F78	0050			2790	INVOP	DC H'80'	02642001
001F7A	0051			2791	UNDEFOP	DC H'81'	02643001
001F7C	0052			2792	RANGERE	DC H'82'	02644001
001F7E	0053			2793	RANGEINT	DC H'83'	02645001
001F80	0054			2794	PRECREAL	DC H'84'	02646001
001F82	0055			2795	GOTOFOR	DC H'85'	02647001
001F84	0056			2796	MANYCON	DC H'86'	02648001
001F86	0057			2797	TABOVER	DC H'87'	02649001
001F88	0058			2798	ARRAYERR	DC H'88'	02650001
001F8A	0059			2799	SWITCHER	DC H'89'	02651001
001F8C	00D5			2800	ITABOVER	DC H'213'	02652001
		000D4		2801	TOOMANY	EQU 212	02653001
001F8E	00D7			2802	TOOLONG	DC H'215'	02654001
				2803	*		02655001
				2804	*	SUBSCRIPT TABLE	02656001
				2805	*		02657001
001F90	00000000			2806	ZSUTAPO	DC A(0)	02658001
001F94	00000000			2807	ZSUDAD	DC A(0)	02659001
001F98	00000000			2808	ZSUTMAX	DC A(0)	02660001
001F9C	00000000			2809	SUSTRT	DC A(0)	02661001
001FA0	E2E4E3C2			2810	SUKEY	DC C'SUTB'	02662001
001FA4	00000000			2811	SULENGTH	DC F'0'	02663001
001FA8	0000			2812	SUCNT	DC H'0'	02664001
				2813	*		02665001
				2814	*	LEFT VARIABLE TABLE	02666001
				2815	*		02667001
001FAA	0000						
001FAC	00000000			2816	ZLESTA	DC A(0)	02668001
001FB0	00000000			2817	ZLEVA	DC A(0)	02669001
001FB4	00000000			2818	ZLEMAX	DC A(0)	02670001
001FB8	00000000			2819	LVSTRT	DC A(0)	02671001
001FBC	D3E5E3C2			2820	LVKEY	DC C'LVTB'	02672001
001FC0	00000000			2821	LVLENGTH	DC F'0'	02673001
001FC4	0000			2822	LVCNT	DC H'0'	02674001
				2823	*		02675001
				2824	*	INPUT RECORD	02676001
				2825	*		02677001
001FC6	0000						
001FC8	00000000			2826	ZIBRUN	DC A(0)	02678001
001FCC	00000000			2827	ZIBREAD	DC A(0)	02679001
				2828	*		02680001
				2829	*	OUTPUT RECORD	02681001
				2830	*		02682001
001FD0	00000000			2831	ZOBWORK	DC A(0)	02683001
001FD4	00000000			2832	ZOBWRITE	DC A(0)	02684001
001FD8	00000000			2833	ZFILE1	DC A(0)	02685001
001FDC	00000000			2834	ZFILE2	DC A(0)	02686001
001FE0	00000000			2835	ZFILE3	DC A(0)	02687001
001FE4	00000000			2836	ZFILE5	DC A(0)	02688001
001FE8	00000000			2837	ZFILE6	DC A(0)	02689001
001FEC	00000000			2838	ZFILE9	DC A(0)	02690001
001FF0	0001			2839	ZOUTCOT	DC H'1'	02691001
				2840	*		02692001
				2841	*	IDENTIFIER TABLE	02693001
				2842	*		02694001
001FF2	0000						
001FF4	00000000			2843	ZIBSTAO	DC A(0)	02695001
001FF8	00000000			2844	ZITAN	DC A(0)	02696001
001FFC	00000000			2845	ZCURITEN	DC A(0)	02697001
002000	00000000			2846	ZITREC	DC A(0)	02698001
002004	00000000			2847	ZITEND	DC A(0)	02699001
002008	0000			2848	ZCURITLE	DC H'0'	02700001
				2849	*		02701001
				2850	*	ERROR MESSAGES	02702001
				2851	*		02703001
00200A	0000						
00200C	00000000			2852	ZBEGERR	DC F'0'	02704001
002010	00000000			2853	ZENDERR	DC F'0'	02705001
002014	0000			2854	ZERRONU	DC H'0'	02706001
				2855	*		02707001
				2856	*	ARRAY IDENTIFIER STACK	02708001
				2857	*		02709001
002016	0000						
002018	00002042			2858	ZARMAX	DC A(ZARSTACK+28)	02710001
00201C	0000201F			2859	ZARNO	DC A(ZARSTACK-7)	02711001
002020	0000201F			2860	ZARSP0	DC A(ZARSTACK-7)	02712001
002024	0000			2861	ZPOSIX	DC H'0'	02713001
002026	0000000000000000			2862	ZARSTACK	DC XL35'00'	02714001
				2863	*		02715001
				2864	*	SUBSCRIPT TEST ROUTIN2	02716001
				2865	*		02717001
002049	000000						
00204C	00000000			2866	SUBEND	DC A(0)	02718001
002050	000000000000			2867	ADDEND	DC 3H'0'	02719001
002056	000000000000			2868	FACTOR	DC 3H'0'	02720001
00205C	00C801000000			2869	ZEROLEM	DC XL6'00C801000000'	02721001
002062	00C801000004			2870	ONELEM	DC XL6'00C801000004'	02722001



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002068	00000000			2871	ZBRACK	DC A(0)	SUBSCRIPT START ADDR - 1 02723001
				2872	*		02724001
00206C	00000000			2873	ZSTO	DC F'0'	TEMPORARY STORAGE 02725001
002070	0670			2874	ZSTO1	DC X'0670'	02726001
002072	0240			2875	ZSTO2	DC X'0240'	02727001
002074	0000			2876	ZIGN	DC H'0'	CURRENT IDENTIFIER GROUP NUMBER 02728001
002076	3E3E3E3E3E3E			2877	ZPOINT	DC 6AL1(XFDECP)	02729001
00207C	91FF010000			2878	ZALLPUP	DC X'91FF010000'	ALL PURPOSE IDENTIFIER 02730001
		02076		2879	ZALLPU	EQU ZALLPUP-6	02731001
002081	0000000000000000			2880	ZIDEX	DC 37X'00'	WORKAREA 02732001
		02082		2881	NUMBER	EQU ZIDEX+1	02733001
0020A6	0000						
0020A8	00002081			2882	OPSTART	DC A(ZIDEX)	02734001
				2883	*		02735001
0020AC	0000			2884	BRCNT	DC H'0'	BRACKET COUNTER IN ARRAY DECL 02736001
0020AE	00			2885	STATUS	DC X'00'	STATUS BYTE 02737001
0020AF	40			2886	CURPBN	DC C'	PBN OF LAST BLOCK 02738001
0020B0	00			2887	ZCLOBRA	DC X'00'	SUBSCRIPT TEST BYTE 02739001
0020B1	00			2888	ZFORTTEST	DC X'00'	FOR STATEMENT TEST BYTE 02740001
0020B2	00			2889	ZLVOV	DC X'00'	SET X'FF' IF NO MORE SUBSC OPT 02741001
0020B3	40			2890	ZFSN	DC C'	CURRENT FOR STATEMENT NUMBER 02742001
0020B4	40			2891	FSNEMBR	DC C'	NUMBER OR EMBRACING BLOCK 02743001
0020B5	40			2892	IOBYTE	DC C'	STATUS BYTE FOR SYSUT3 02744001
0020B6	0000						
0020B8	00000000			2893	NOTEW	DC F'0'	ID OF LAST WRITTEN RECORD 02745001
0020BC	00000000			2894	NOTER	DC F'0'	ID OF LAST READ ITAB RECORD 02746001
				2895	*		02747001
				2896	*	CRITICAL VARIABLE TABLE	02748001
				2897	*		02749001
0020C0	00000000			2898	PFA	DC A(0)	CURRENT CRIDTAB PT 02750001
0020C4	00000000			2899	PFANO	DC A(0)	START ADDR OF CRIDTAB 02751001
0020C8	00000000			2900	PFAMAX	DC A(0)	END ADDR OF CRIDTAB 02752001
0020CC	00000000			2901	ZFSPTR	DC A(0)	POINT TO CURRENT FSTAB ENTRY 02753001
0020D0	00000000			2902	ZFOCRI	DC A(0)	02754001
				2903	*		02755001
				2904	*	CONSTANT POOL	02756001
				2905	*		02757001
0020D4	00000000			2906	ZKOPPOOL	DC A(0)	START ADDR OF POOL 02758001
0020D8	00000000			2907	ZKOPEND	DC A(0)	END ADDR OF POOL 02759001
0020DC	00000000			2908	ZLITSTA	DC A(0)	START ADDR OF USED PART 02760001
0020E0	00000000			2909	ZTEXTCO	DC A(0)	END ADDR OF TXT PIECE 02761001
0020E4	0000			2910	ZKBNMAX	DC H'0'	NUMBER OF NEXT POOL 02762001
0020E6	0038			2911	TXTPUT	DC H'56'	LENGTH OF TXT PIECE 02763001
				2912	*		02764001
0020E8	0000000000000000			2913	ZPACK	DC D'0'	WORKAREA TO PACK NUMBERS 02765001
0020F0	0000000000000000			2914	ZEROFLOA	DC D'0.0'	02766001
0020F8	4110000000000000			2915	ZONEFLOA	DC D'1.0'	02767001
002100	483B9ACA00000000			2916	ZTEN9	DC D'1.0E+9'	02768001
002108	4E00000000000000			2917	ZFLOFIEL	DC X'4E00000000000000'	WORKAREA FOR FLOATING CONVERS 02769001
002110	0000000080000000			2918	ROUND	DC X'0000000080000000'	USED TO ROUND SHORT FORM REAL 02770001
002118	00000000			2919	ZWP	DC A(0)	WORD POINTT IN CONSTANT POOL 02771001
00211C	00000000			2920	ZDWP	DC A(0)	DOUBLE WORD PT IN CONSTANT POOL 02772001
002120	00002082			2921	NSTART	DC A(NUMBER)	PTR TO NUMBER 02773001
002124	00000038			2922	SCALEMSK	DC XL4'38'	02774001
002128	00000008			2923	LREAL	DC F'8'	SHORT PREC 4, LONG PREC 8 02775001
00212C	00000012			2924	NREAL	DC F'18'	SHORT PREC 7, LONG PREC 18 02776001
002130	0000			2925	ZLIRE	DC H'0'	02777001
002132	C801			2926	ZINTYP	DC X'C801'	ID OF INTEGER CONSTANT 02778001
002134	C802			2927	ZREALTYP	DC X'C802'	ID OF REAL CONSTANT 02779001
002136	1C			2928	SREF	DC P'+1'	PLUS 02780001
002137	1D			2929		DC P'-1'	MINUS, MUST FOLLOW SREF 02781001
002138	40			2930	SCATEST	DC C'	SCALE FACTOR TEST BYTE 02782001
002139	2E00			2931	SCALEQ	DC AL1(XFQUOTE),X'00'	02783001
		0213A		2932	SCALE	EQU SCALEQ+1	02784001
				2933	MAXINT	IEXCGEN DC,'2147483647'	MAX INTEGER IN INTERNAL CODE 02785001
00213B	3231343734383336			2934	MAXINT	DC X'32313437343833363437'	01-TEXCG 02786001
002145	0000000000000000			2935	SCAWORK	DC 10X'00'	STORE FOR SCALE FACTOR 02786001
00214F	00						
002150	00000000			2936	ZTO	DC F'0'	02787001
002154	00000000			2937	ZEXCORR	DC F'0'	02788001
002158	00000000			2938	ZTOSCA	DC F'0'	02789001
00215C	00002146			2939	SCAWORKA	DC A(SCAWORK+1)	02790001
				2940	*		02791001
002160	00000000			2941	OLDSPIE	DC A(0)	ADDR OF OLD PICA 02792001
002164	00000000			2942	TABSIZE	DC F'0'	ACCUMULATED SIZE OF TABLES 02793001
002168	0000000000000000			2943	REGSAVE	DC 5F'0'	SAVEAREA FOR REGISTERS 02794001
00217C	00000006			2944	SPECUSE	DC XL4'06'	02795001
002180	00000000			2945	ALIGN	DC F'0'	FULL WORD ALIGNMENT 02796001
		02182		2946	ALIGNH	EQU ALIGN+2	HALF WORD ALIGNMENT 02797001
				2947	*		02798001
002184	00000000						
002188	41A0000000000000			2948	ZEXTABP	DC D'1.0E+1'	02799001
002190	4264000000000000			2949		DC D'1.0E+2'	02800001
002198	433E800000000000			2950		DC D'1.0E+3'	02801001
0021A0	4427100000000000			2951		DC D'1.0E+4'	02802001
0021A8	45186A0000000000			2952		DC D'1.0E+5'	02803001
0021B0	45F4240000000000			2953		DC D'1.0E+6'	02804001
0021B8	4698968000000000			2954		DC D'1.0E+7'	02805001
0021C0	475F5E1000000000			2955		DC D'1.0E+8'	02806001
0021C8	4E2386F26FC10000			2956		DC D'1.0E+16'	02807001
0021D0	54D3C21BCECCEDA1			2957		DC D'1.0E+24'	02808001
0021D8	5B4EE2D6D415B85B			2958		DC D'1.0E+32'	02809001
0021E0	621D6329F1C35CA5			2959		DC D'1.0E+40'	02810001
0021E8	68AF298D050E4396			2960		DC D'1.0E+48'	02811001
0021F0	6F4140C78940F6A2			2961		DC D'1.0E+56'	02812001
0021F8	76184F03E93FF9F5			2962		DC D'1.0E+64'	02813001

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				2963 *			02814001
002200	401999999999999A			2964	ZEXTABN	DC D'1.0E-1'	02815001
002208	3F28F5C28F5C28F6			2965		DC D'1.0E-2'	02816001
002210	3E4189374BC6A7F0			2966		DC D'1.0E-3'	02817001
002218	3D68DB8BAC710CB3			2967		DC D'1.0E-4'	02818001
002220	3CA7C5AC471B4784			2968		DC D'1.0E-5'	02819001
002228	3C10C6F7A0B5ED8D			2969		DC D'1.0E-6'	02820001
002230	3B1AD7F29ABCAF48			2970		DC D'1.0E-7'	02821001
002238	3A2AF31DC4611874			2971		DC D'1.0E-8'	02822001
002240	33734ACA5F6226F1			2972		DC D'1.0E-16'	02823001
002248	2D1357C299A88EA7			2973		DC D'1.0E-24'	02824001
002250	2633EC47AB514E65			2974		DC D'1.0E-32'	02825001
002258	1F8B61313BBABCE3			2975		DC D'1.0E-40'	02826001
002260	1917624F8A762FD8			2976		DC D'1.0E-48'	02827001
002268	123EC56164AF81A3			2977		DC D'1.0E-56'	02828001
002270	0BA87FEA27A539EA			2978		DC D'1.0E-64'	02829001
				2979 *			02830001
002278	5454546854685454			2980	GENER	DC X'5454546854685454'	02831001
002280	3C606438541C2020			2981		DC X'3C606438541C2020'	02832001
002288	5454545454545454			2982		DC 8X'54'	02833001
002290	245C543430			2983		DC X'245C543430'	02834001
002295	5454545454545454			2984		DC 8X'54'	02835001
00229D	4054544438282C54			2985		DC X'4054544438282C545018480C'	02836001
0022A9	0808080808080808			2986		DC 9X'08'	02837001
0022B2	00004C581014			2987		DC X'00004C581014'	02838001
0022B8	0404040404040404			2988		DC 30X'04'	02839001
				2989 *			02840001
0022D6	1010101010101010			2990	IDENTI	DC 45X'10'	02841001
002303	000C04			2991		DC X'000C04'	02842001
002306	0000000000000000			2992		DC 13X'00'	02843001
002313	080C0C			2993		DC X'080C0C'	02844001
002316	0000000000000000			2994		DC 30X'00'	02845001
				2995 *			02846001
002334	1818181818181818			2996	DIG19	DC 45X'18'	02847001
002361	000C10			2997		DC X'000C10'	02848001
002364	0000000000000000			2998		DC 13X'00'	02849001
002371	140408			2999		DC X'140408'	02850001
002374	0C0C0C0C0C0C0C0C			3000		DC 30X'0C'	02851001
				3001 *			02852001
002392	1C1C1C1C1C1C1C1C			3002	DIG0	DC 45X'1C'	02853001
0023BF	00081400			3003		DC X'00081400'	02854001
0023C3	0404040404040404			3004		DC 9X'04'	02855001
0023CC	000000180C10			3005		DC X'000000180C10'	02856001
0023D2	0808080808080808			3006		DC 30X'08'	02857001
				3007 *			02858001
0023F0	1414141414141414			3008	DECPO	DC 45X'14'	02859001
00241D	00081004			3009		DC X'00081004'	02860001
002421	0000000000000000			3010		DC 13X'00'	02861001
00242E	080C			3011		DC X'080C'	02862001
002430	0808080808080808			3012		DC 30X'08'	02863001
				3013 *			02864001
00244E	0C0C			3014	SCAFAC	DC X'0C0C'	02865001
002450	1818181818181818			3015		DC 43X'18'	02866001
00247B	00101408			3016		DC X'00101408'	02867001
00247F	0404040404040404			3017		DC 9X'04'	02868001
002488	00000000			3018		DC 4X'00'	02869001
00248C	1010101010101010			3019		DC 32X'10'	02870001
				3020 *			02871001
				3021 *		ITAB ENTRIES FOR STANDARD PROCEDURES	02872001
				3022 *			02873001
0024AC	013F0000002B			3023	FIXITAB	DC X'013F0000002B'	02874001
0024B2	0000000000			3024		DC X'0000',X'000000'	02875001
				3025 *			02876001
0024B7	000000000000			3026		DC XL6'00'	02877001
0024BD		024BD	024B7	3027		ORG *-6	02878001
				3028	IEXCGEN	DC,'ABS'	02879001
0024B7	404152			3029+		DC X'404152'	01-IEXCG
0024BA		024BA	024BD	3030		ORG	02880001
0024BD	8882002080			3031		DC X'8882',X'002080'	02881001
				3032 *			02882001
0024C2	000000000000			3033		DC XL6'00'	02883001
0024C8		024C8	024C2	3034		ORG *-6	02884001
				3035	IEXCGEN	DC,'SIGN'	02885001
0024C2	5248464D			3036+		DC X'5248464D'	01-IEXCG
0024C6		024C6	024C8	3037		ORG	02886001
0024C8	88810020C0			3038		DC X'8881',X'0020C0'	02887001
				3039 *			02888001
0024CD	000000000000			3040		DC XL6'00'	02889001
0024D3		024D3	024CD	3041		ORG *-6	02890001
				3042	IEXCGEN	DC,'LENGTH'	02891001
0024CD	4B444D465347			3043+		DC X'4B444D465347'	01-IEXCG
0024D3		024D3	024D3	3044		ORG	02892001
0024D3	88810000E0			3045		DC X'8881',X'0000E0'	02893001
				3046 *			02894001
0024D8	000000000000			3047		DC XL6'00'	02895001
0024DE		024DE	024D8	3048		ORG *-6	02896001
				3049	IEXCGEN	DC,'SYSACT'	02897001
0024D8	525852404253			3050+		DC X'525852404253'	01-IEXCG
0024DE		024DE	024DE	3051		ORG	02898001
0024DE	8A80911203			3052		DC X'8A80',X'911203'	02899001
				3053 *			02900001
0024E3	000000000000			3054		DC XL6'00'	02901001
0024E9		024E9	024E3	3055		ORG *-6	02902001
				3056	IEXCGEN	DC,'SQRT'	02903001
0024E3	52505153			3057+		DC X'52505153'	01-IEXCG
0024E7		024E7	024E9	3058		ORG	02904001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement		X390 3.1.04 2012/08/17 13.13
0024E9	8882002004			3059	DC	X'8882',X'002004'		02905001
				3060	*			02906001
0024EE	000000000000			3061	DC	XL6'00'		02907001
0024F4		024F4	024EE	3062	ORG	*-6		02908001
				3063	IEXCGEN	DC,'SIN'	SIN	02909001
0024EE	52484D			3064+	DC	X'52484D'		01-IEXCG
0024F1		024F1	024F4	3065	ORG			02910001
0024F4	8882002008			3066	DC	X'8882',X'002008'		02911001
				3067	*			02912001
0024F9	000000000000			3068	DC	XL6'00'		02913001
0024FF		024FF	024F9	3069	ORG	*-6		02914001
				3070	IEXCGEN	DC,'COS'	COS	02915001
0024F9	424E52			3071+	DC	X'424E52'		01-IEXCG
0024FC		024FC	024FF	3072	ORG			02916001
0024FF	888200200C			3073	DC	X'8882',X'00200C'		02917001
				3074	*			02918001
002504	000000000000			3075	DC	XL6'00'		02919001
00250A		0250A	02504	3076	ORG	*-6		02920001
				3077	IEXCGEN	DC,'ARCTAN'	ARCTAN	02921001
002504	40514253404D			3078+	DC	X'40514253404D'		01-IEXCG
00250A		0250A	0250A	3079	ORG			02922001
00250A	8882002010			3080	DC	X'8882',X'002010'		02923001
				3081	*			02924001
00250F	000000000000			3082	DC	XL6'00'		02925001
002515		02515	0250F	3083	ORG	*-6		02926001
				3084	IEXCGEN	DC,'LN'	LN	02927001
00250F	4B4D			3085+	DC	X'4B4D'		01-IEXCG
002511		02511	02515	3086	ORG			02928001
002515	8882002014			3087	DC	X'8882',X'002014'		02929001
				3088	*			02930001
00251A	000000000000			3089	DC	XL6'00'		02931001
002520		02520	0251A	3090	ORG	*-6		02932001
				3091	IEXCGEN	DC,'EXP'	EXP	02933001
00251A	44574F			3092+	DC	X'44574F'		01-IEXCG
00251D		0251D	02520	3093	ORG			02934001
002520	8882002018			3094	DC	X'8882',X'002018'		02935001
				3095	*			02936001
002525	000000000000			3096	DC	XL6'00'		02937001
00252B		0252B	02525	3097	ORG	*-6		02938001
				3098	IEXCGEN	DC,'ENTIER'	ENTIER	02939001
002525	444D53484451			3099+	DC	X'444D53484451'		01-IEXCG
00252B		0252B	0252B	3100	ORG			02940001
00252B	88810020F0			3101	DC	X'8881',X'0020F0'		02941001
				3102	*			02942001
002530	000000000000			3103	DC	XL6'00'		02943001
002536		02536	02530	3104	ORG	*-6		02944001
				3105	IEXCGEN	DC,'INSYMB'	INSYMB	02945001
002530	484D52584C41			3106+	DC	X'484D52584C41'		01-IEXCG
002536		02536	02536	3107	ORG			02946001
002536	8A8090181F			3108	DC	X'8A80',X'90181F'		02947001
				3109	*			02948001
00253B	000000000000			3110	DC	XL6'00'		02949001
002541		02541	0253B	3111	ORG	*-6		02950001
				3112	IEXCGEN	DC,'INREAL'	INREAL	02951001
00253B	484D5144404B			3113+	DC	X'484D5144404B'		01-IEXCG
002541		02541	02541	3114	ORG			02952001
002541	8A800A1822			3115	DC	X'8A80',X'0A1822'		02953001
				3116	*			02954001
002546	000000000000			3117	DC	XL6'00'		02955001
00254C		0254C	02546	3118	ORG	*-6		02956001
				3119	IEXCGEN	DC,'ININTE'	ININTE	02957001
002546	484D484D5344			3120+	DC	X'484D484D5344'		01-IEXCG
00254C		0254C	0254C	3121	ORG			02958001
00254C	8A80091826			3122	DC	X'8A80',X'091826'		02959001
				3123	*			02960001
002551	000000000000			3124	DC	XL6'00'		02961001
002557		02557	02551	3125	ORG	*-6		02962001
				3126	IEXCGEN	DC,'INBOOL'	INBOOL	02963001
002551	484D414E4E4B			3127+	DC	X'484D414E4E4B'		01-IEXCG
002557		02557	02557	3128	ORG			02964001
002557	8A800B182A			3129	DC	X'8A80',X'0B182A'		02965001
				3130	*			02966001
00255C	000000000000			3131	DC	XL6'00'		02967001
002562		02562	0255C	3132	ORG	*-6		02968001
				3133	IEXCGEN	DC,'INARRA'	INARRA	02969001
00255C	484D40515140			3134+	DC	X'484D40515140'		01-IEXCG
002562		02562	02562	3135	ORG			02970001
002562	88800E182E			3136	DC	X'8880',X'0E182E'		02971001
				3137	*			02972001
002567	000000000000			3138	DC	XL6'00'		02973001
00256D		0256D	02567	3139	ORG	*-6		02974001
				3140	IEXCGEN	DC,'INTARR'	INTARR	02975001
002567	484D53405151			3141+	DC	X'484D53405151'		01-IEXCG
00256D		0256D	0256D	3142	ORG			02976001
00256D	88800D1832			3143	DC	X'8880',X'0D1832'		02977001
				3144	*			02978001
002572	000000000000			3145	DC	XL6'00'		02979001
002578		02578	02572	3146	ORG	*-6		02980001
				3147	IEXCGEN	DC,'INBARR'	INBARR	02981001
002572	484D41405151			3148+	DC	X'484D41405151'		01-IEXCG
002578		02578	02578	3149	ORG			02982001
002578	8880071836			3150	DC	X'8880',X'071836'		02983001
				3151	*			02984001
00257D	000000000000			3152	DC	XL6'00'		02985001
002583		02583	0257D	3153	ORG	*-6		02986001
				3154	IEXCGEN	DC,'OUTSYM'	OUTSYM	02987001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement		X390 3.1.04 2012/08/17 13.13
00257D	4E545352584C			3155+	DC	X'4E545352584C'	01-IEXCG	
002583		02583	02583	3156	ORG		02988001	
002583	888010143B			3157	DC	X'8880',X'10143B'	02989001	
				3158 *			02990001	
002588	000000000000			3159	DC	XL6'00'	02991001	
00258E		0258E	02588	3160	ORG	*-6	02992001	
				3161	IEXCGEN	DC, 'OUTREA'	02993001	OUTREA
002588	4E5453514440			3162+	DC	X'4E5453514440'	01-IEXCG	
00258E		0258E	0258E	3163	ORG		02994001	
00258E	888002143E			3164	DC	X'8880',X'02143E'	02995001	
				3165 *			02996001	
002593	000000000000			3166	DC	XL6'00'	02997001	
002599		02599	02593	3167	ORG	*-6	02998001	
				3168	IEXCGEN	DC, 'OUTINT'	02999001	OUTINT
002593	4E5453484D53			3169+	DC	X'4E5453484D53'	01-IEXCG	
002599		02599	02599	3170	ORG		03000001	
002599	8880011442			3171	DC	X'8880',X'011442'	03001001	
				3172 *			03002001	
00259E	000000000000			3173	DC	XL6'00'	03003001	
0025A4		025A4	0259E	3174	ORG	*-6	03004001	
				3175	IEXCGEN	DC, 'OUTB00'	03005001	OUTB00
00259E	4E5453414E4E			3176+	DC	X'4E5453414E4E'	01-IEXCG	
0025A4		025A4	025A4	3177	ORG		03006001	
0025A4	8880031446			3178	DC	X'8880',X'031446'	03007001	
				3179 *			03008001	
0025A9	000000000000			3180	DC	XL6'00'	03009001	
0025AF		025AF	025A9	3181	ORG	*-6	03010001	
				3182	IEXCGEN	DC, 'OUTARR'	03011001	OUTARR
0025A9	4E5453405151			3183+	DC	X'4E5453405151'	01-IEXCG	
0025AF		025AF	025AF	3184	ORG		03012001	
0025AF	888006144A			3185	DC	X'8880',X'06144A'	03013001	
				3186 *			03014001	
0025B4	000000000000			3187	DC	XL6'00'	03015001	
0025BA		025BA	025B4	3188	ORG	*-6	03016001	
				3189	IEXCGEN	DC, 'OUTTAR'	03017001	OUTTAR
0025B4	4E5453534051			3190+	DC	X'4E5453534051'	01-IEXCG	
0025BA		025BA	025BA	3191	ORG		03018001	
0025BA	888005144E			3192	DC	X'8880',X'05144E'	03019001	
				3193 *			03020001	
0025BF	000000000000			3194	DC	XL6'00'	03021001	
0025C5		025C5	025BF	3195	ORG	*-6	03022001	
				3196	IEXCGEN	DC, 'OUTBAR'	03023001	OUTBAR
0025BF	4E5453414051			3197+	DC	X'4E5453414051'	01-IEXCG	
0025C5		025C5	025C5	3198	ORG		03024001	
0025C5	8880071452			3199	DC	X'8880',X'071452'	03025001	
				3200 *			03026001	
0025CA	000000000000			3201	DC	XL6'00'	03027001	
0025D0		025D0	025CA	3202	ORG	*-6	03028001	
				3203	IEXCGEN	DC, 'OUTSTR'	03029001	OUTSTR
0025CA	4E5453525351			3204+	DC	X'4E5453525351'	01-IEXCG	
0025D0		025D0	025D0	3205	ORG		03030001	
0025D0	8880001456			3206	DC	X'8880',X'001456'	03031001	
				3207 *			03032001	
0025D5	000000000000			3208	DC	XL6'00'	03033001	
0025DB		025DB	025D5	3209	ORG	*-6	03034001	
				3210	IEXCGEN	DC, 'PUT'	03035001	PUT
0025D5	4F5453			3211+	DC	X'4F5453'	01-IEXCG	
0025D8		025D8	025DB	3212	ORG		03036001	
0025DB	8A8004115A			3213	DC	X'8A80',X'04115A'	03037001	
				3214 *			03038001	
0025E0	000000000000			3215	DC	XL6'00'	03039001	
0025E6		025E6	025E0	3216	ORG	*-6	03040001	
				3217	IEXCGEN	DC, 'GET'	03041001	GET
0025E0	464453			3218+	DC	X'464453'	01-IEXCG	
0025E3		025E3	025E6	3219	ORG		03042001	
0025E6	8A8004115E			3220	DC	X'8A80',X'04115E'	03043001	
				3221 *			03044001	
		0013F		3222	FIXITABL	EQU *-FIXITAB	03045001	L'FIXITAB
				3223 *			03046001	
0025F0				3224	LTORG		03047001	
				3225 *			03048001	
000000		00000	00CB6	3226	WORKAREA	DSECT	03049001	
				3227 *			03050001	
				3228	COPY	WORKAREA	03051001	
				3229=*			00001001	
				3230=*		WORKAREA - MAPPING CSECT IEX00001	00002001	
				3231=*			00003001	
				3232=*		ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT	00004001	
				3233=*			00005001	
000000	0000000000000000			3234=SAVEAREA	DC	18F'0'	00006001	
				3235=*			00007001	
				3236=*		DCB ADDRS	00008001	
				3237=*			00009001	
000048				3238=DCBTABLE	DC	0F'0'	00010001	
000048	00000000			3239=ALINDCB	DC	A(0)	00011001	
00004C	00000000			3240=	DC	A(0)	00012001	
000050	00000000			3241=	DC	A(0)	00013001	
000054	00000000			3242=	DC	A(0)	00014001	
000058	00000000			3243=ASYSDCB	DC	A(0)	00015001	
00005C	00000000			3244=APRTDCB	DC	A(0)	00016001	
000060	00000000			3245=APCHDCB	DC	A(0)	00017001	
000064	00000000			3246=AUT1DCB	DC	A(0)	00018001	
000068	00000000			3247=AUT2DCB	DC	A(0)	00019001	
00006C	00000000			3248=AUT3DCB	DC	A(0)	00020001	
				3249=*			00021001	
				3250=*		END OF DATA EXIT ADDRS	00022001	



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				3251=*					00023001
				3252=EODUT1	DC	A(0)	SYSUT1		00024001
000070	00000000			3253=EODUT2	DC	A(0)	SYSUT2		00025001
000074	00000000			3254=EODUT3	DC	A(0)	SYSUT3		00026001
000078	00000000			3255=EODIN	DC	A(0)	SYSIN		00027001
00007C	00000000			3256=*					00028001
				3257=*		OPTION SWITCHES IN COMPFLGS			00029001
				3258=*					00030001
				3259=*		ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -			00031001
				3260=*					00032001
				3261=*	PURPOSE	POSITION			00033001
				3262=*		BYTE 1	BYTE 2	BYTE 3	00034001
				3263=*		01234567	01234567	01234567	00035001
				3264=*					00036001
				3265=*	COMPMODE (SYNTAX CHECK)	X			00037001
				3266=*	SUBSCRIPT OPTIMIZATION	X			00038001
				3267=*	WARNING ERROR	X			00039001
				3268=*	SERIOUS ERROR	X			00040001
				3269=*	TERMINATING ERROR	X			00041001
				3270=*	PROCEDURE/PROGRAM	X			00042001
				3271=*	LONG/SHORT PRECISION	X			00043001
				3272=*	OPERAND	X			00044001
				3273=*					00045001
				3274=*	NOSOURCE/SOURCE		X		00046001
				3275=*	NLOAD/LOAD		X		00047001
				3276=*	NODECK/DECK		X		00048001
				3277=*	ISO/EBCDIC		X		00049001
				3278=*	PROGRAM INTERRUPT		X		00050001
				3279=*	TERMINATING PHASE ENTERED		X		00051001
				3280=*	NO BUFFERS ASSIGNED		X		00052001
				3281=*	NO COMPILATION POSSIBLE		X		00053001
				3282=*					00054001
				3283=*	SYSPRINT DOWN			X	00055001
				3284=*	WHOLE SOURCE PROG IN CORE			X	00056001
				3285=*	NO OPTAB			X	00057001
				3286=*	SYSPRINT NOT OPENED			X	00058001
				3287=*	ERROR UNRELATED TO SEMICOLON NR			X	00059001
				3288=*	NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)			X	00060001
				3289=*	60 CHARACTER SET			X	00061001
				3290=*	(RESERVED)			X	00062001
				3291=*					00063001
000080	00220000			3292=COMPFLGS	DC	X'00220000'	PARAMETERS AND SWITCHES		00064001
				3293=*					00065001
				3294=*		OPTION SWITCHES IN COMPFLGS			00066001
				3295=*					00067001
000080				3296=COMPMODE	EQU	X'80'	SYNTAX CHECK MODE		00068001
000040				3297=SUBSCOPT	EQU	X'40'	SUBSCRIPT OPTIMIZATION		00069001
0000FB				3298=PGR	EQU	X'FB'			00070001
000004				3299=PROC	EQU	X'04'	PRECOMPILED PROCEDURE		00071001
				3300=*					00072001
0000FD				3301=SHRT	EQU	X'FD'			00073001
000002				3302=LNG	EQU	X'02'			00074001
000001				3303=OPERAND	EQU	X'01'			00075001
				3304=*					00076001
				3305=*		ERROR SEVERITY INDICATORS IN COMPFLGS			00077001
				3306=*					00078001
000020				3307=WERR	EQU	X'20'	WARNING ERROR		00079001
000010				3308=SERR	EQU	X'10'	SERIOUS ERROR		00080001
000008				3309=TERR	EQU	X'08'	TERMINATING ERROR		00081001
				3310=*					00082001
				3311=*		OPTION SWITCHES IN COMPFLGS+1			00083001
				3312=*					00084001
00007F				3313=SRCE	EQU	X'7F'			00085001
000080				3314=NSRCE	EQU	X'80'			00086001
				3315=*					00087001
0000BF				3316=LOAD	EQU	X'BF'			00088001
000040				3317=NLOAD	EQU	X'40'			00089001
				3318=*					00090001
0000DF				3319=DECK	EQU	X'DF'			00091001
000020				3320=NDECK	EQU	X'20'			00092001
				3321=*					00093001
0000EF				3322=EBCDIC	EQU	X'EF'			00094001
000010				3323=ISO	EQU	X'10'			00095001
				3324=*					00096001
				3325=*		TERMINATION SWITCHES IN COMPFLGS+1			00097001
				3326=*					00098001
000008				3327=ERR	EQU	X'08'	PROGRAM INTERRUPT HAS		00099001
				3328=*			OCCURED IN COMPILER		00100001
000004				3329=TERM	EQU	X'04'	LAST PHASE HAS BEEN ENTERED		00101001
000002				3330=NOBUF	EQU	X'02'	ERROR POOL IS IN WORKAREA		00102001
				3331=*			NO SCE PROG BUFF 1		00103001
000001				3332=NOGO	EQU	X'01'	COMPILATION NOT POSSIBLE		00104001
				3333=*			DO NOT START SCAN 1		00105001
000003				3334=NOBUNOGO	EQU	X'03'	NOBUF AND NOGO		00106001
				3335=*					00107001
				3336=*		SWITCHES IN COMPFLGS+2			00108001
				3337=*					00109001
000080				3338=PRT	EQU	X'80'	SYSPRINT NOT AVAILABLE		00110001
000040				3339=SPIC	EQU	X'40'	SOURCE PROGRAM IN STORAGE		00111001
000020				3340=NOPT	EQU	X'20'	NO SUBSCRIPT OPTIMIZATION		00112001
000010				3341=PRTNO	EQU	X'10'	SYSPRINT NOT OPENED		00113001
000008				3342=NOSC	EQU	X'08'	SEMICOLON COUNTER NOT VALID		00114001
				3343=*					00115001
000004				3344=NOTEST	EQU	X'04'			00116001
0000FB				3345=TEST	EQU	X'FB'	EMBED SC COUNT IN CODE (DEFAULT)		00117001
				3346=*					00118001

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
		00002		3347=SET60	EQU	X'02'	60 CHARACTER SET IS TO BE USED	00119001	
				3348=*				00120001	
				3349=*		MISCELLANEOUS CONTROL INFORMATION		00121001	
				3350=*				00122001	
000084	0000B000			3351=SIZE	DC	F'45056'	AVAILABLE MAIN STORAGE - NOT USED	00123001	
000088	00000000			3352=PICADD	DC	A(0)	ADDR OF PICA OF THE INVOKER	00124001	
00008C	00000000			3353=HDING	DC	F'0'	ADDR OF HEADING INFO OF THE INVOKER	00125001	
000090	00000000			3354=ERET	DC	F'0'	RETURN ADDR FOR PROGRAM	00126001	
				3355=*			AND I/O ERRORS	00127001	
000094	0000000C			3356=PAGECNT	DC	PL4'0'	PAGE COUNT	00128001	
000098	0000			3357=LINCNT	DC	H'0'	COUNTER OF LINES PER PAGE	00129001	
00009A	0038			3358=MAXLINES	DC	H'56'	MAX NUMBER OF PRINT LINES PER PAGE	00130001	
00009C	0000			3359=SEMCNT	DC	H'0'	SEMICOLON COUNTER	00131001	
00009E	0032			3360=PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER	00132001	
0000A0	0000			3361=KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER	00133001	
		0001C		3362=LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS	00134001	
		0006C		3363=LATBEG	EQU	4*(LATNR-1)		00135001	
0000A2	006C			3364=LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT	00136001	
0000A4	00000000			3365=PRPT	DC	F'0'	PROGRAM POINTER	00137001	
0000A8	00000000			3366=SAVOUTA	DC	F'0'		00138001	
0000AC				3367=OUTAREAZ	DS	F	SYSPUNCH SAVE AREA	00139001	
0000B0	40404040			3368=PIDENT	DC	CL4' '	PROGRAM IDENTIFICATION	00140001	
0000B4	0000000C			3369=CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER	00141001	
0000B8	00000000			3370=PRTRTADD	DC	A(0)	ADDR OF PRINT ROUTINE	00142001	
				3371=*				00143001	
				3372=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE		00144001	
				3373=*				00145001	
0000BC	00000278			3374=ERRPOOL	DC	A(PRELPOOL)	FIRST BYTE OF PRELIMINARY ERROR POOL	00146001	
0000C0	00000278			3375=NEXTERR	DC	A(PRELPOOL)	NEXT FREE PLACE IN ERROR POOL	00147001	
0000C4				3376=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23	00148001	
0000C8				3377=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1	00149001	
0000CC				3378=SRCE1END	DS	F	ADDR OF LAST BYTE+1	00150001	
0000D0				3379=SULTSTRT	DS	F	ID OF LAST ITAB RECORD	00151001	
				3380=*				00152001	
				3381=*				00153001	
				3382=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS		00154001	
				3383=*				00155001	
0000D4				3384=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED	00156001	
0000D6				3385=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED	00157001	
0000D8				3386=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED	00158001	
0000DA				3387=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED	00159001	
0000DC				3388=POOLS	DS	F	SIZE OF ERROR POOL	00160001	
0000E0				3389=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2	00161001	
		000E0		3390=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4	00162001	
0000E4				3391=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10	00163001	
0000E8				3392=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20	00164001	
0000EC				3393=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30	00165001	
0000F0				3394=CRIDTAB	DS	F	SIZE OF CRIDTAB FOR PHASE 30	00166001	
0000F4				3395=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30	00167001	
0000F8				3396=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30	00168001	
0000FC				3397=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2	00169001	
000100				3398=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40	00170001	
000104				3399=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40	00171001	
000108				3400=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK	00172001	
				3401=*				00173001	
				3402=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF		00174001	
				3403=*		EACH NEW PAGE		00175001	
				3404=*				00176001	
		0010C		3405=PAGEHEAD	EQU	*		00177001	
00010C	4040404040404040			3406=PAGEHD1	DC	CL121' '	FIRST HEADLINE	00178001	
000185		00185	0010C	3407=	ORG	PAGEHD1		00179001	
00010C	F1			3408=PAGEHD1C	DC	C'1'	ASA CNTL	00180001	
00010D	4040404040404040			3409=	DC	CL10' '	SPACER	00181001	
000117	4040404040404040			3410=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING	00182001	
00017B		0017B	0017D	3411=	ORG	PAGEHD1+113		00183001	
00017D	D7C1C7C5			3412=PAGEHD1P	DC	CL4'PAGE'	PAGE	00184001	
000181	40404040			3413=PAGENUMB	DC	CL4' '	PAGE COUNTER	00185001	
000185		00185	00185	3414=	ORG			00186001	
				3415=*				00187001	
000185	4040404040404040			3416=PAGEHD2	DC	CL121' '	SECOND HEADLINE	00188001	
0001FE		001FE	00185	3417=	ORG	PAGEHD2		00189001	
000185	40			3418=PAGEHD2C	DC	C' '	ASA CNTL	00190001	
000186	4040404040404040			3419=	DC	CL10' '	SPACER	00191001	
000190	4040404040404040			3420=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING	00192001	
0001F4		001F4	001FE	3421=	ORG			00193001	
				3422=*				00194001	
0001FE	4040404040404040			3423=PAGEHD3	DC	CL121' '	THIRD HEADLINE	00195001	
000277		00277	001FE	3424=	ORG	PAGEHD3		00196001	
0001FE	40			3425=PAGEHD3C	DC	C' '	ASA CNTL	00197001	
0001FF	4040404040404040			3426=	DC	CL10' '	SPACER	00198001	
000209	4040404040404040			3427=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING	00199001	
00026D		0026D	00277	3428=	ORG			00200001	
				3429=*				00201001	
				3430=*				00202001	
				3431=*		END OF STANDARD COMMON AREA		00203001	
				3432=*				00204001	
		00277		3433=STANDX	EQU	*		00205001	
				3434=*				00206001	
				3435=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL		00207001	
				3436=*		PHASES AND PARTLY OVERLAY EACH OTHER		00208001	
				3437=*				00209001	
				3438=*		NAME OR PURPOSE	NEEDED BY PHASES	00210001	
				3439=*				00211001	
000277	00								
000278				3440=	DC	0F'0'		00212001	
000278	4040404040404040			3441=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL IEX10	00213001	

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000378		00378	00416	3442=	ORG	PRELPOOL+414			00214001
				3443=*		DCB FOR SYSIN	11		00215001
				3444=SYSIN	DCB	DDNAME=SYSIN,			X00216001
				=		DSORG=PS,			X00217001
				=		MACRF=(GM),			X00218001
				=		RECFM=FB,			X00219001
				=		LRECL=80,			X00220001
				=		BFTEK=S			00221001
				3446+*		DATA CONTROL BLOCK			01-DCB
				3447+*					01-DCB
000416 0000				3448+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
000418				3450+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000418 0000000000000000				3452+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000428 00000000				3453+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB
				3455+*		COMMON ACCESS METHOD INTERFACE			01-DCB
00042C 00				3457+	DC	AL1(0)	BUFNO		01-DCB
00042D 000001				3458+	DC	AL3(1)	BUFCB		01-DCB
000430 0000				3459+	DC	AL2(0)	BUFL		01-DCB
000432 4000				3460+	DC	BL2'0100000000000000'	DSORG		01-DCB
000434 00000001				3461+	DC	A(1)	IOBAD		01-DCB
				3463+*		FOUNDATION EXTENSION			01-DCB
000438 40				3465+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY		01-DCB
000439 000001				3466+	DC	AL3(1)	EODAD		01-DCB
00043C 90				3467+	DC	BL1'10010000'	RECFM		01-DCB
00043D 000000				3468+	DC	AL3(0)	EXLST		01-DCB
				3470+*		FOUNDATION BLOCK			01-DCB
000440 E2E8E2C9D5404040				3472+	DC	CL8'SYSIN'	DDNAME		01-DCB
000448 02				3473+	DC	BL1'00000010'	OFLGS		01-DCB
000449 00				3474+	DC	BL1'00000000'	IFLG		01-DCB
00044A 5000				3475+	DC	BL2'0101000000000000'	MACR		01-DCB
				3477+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
00044C 00				3479+	DC	BL1'00000000'		RER1	01-DCB
00044D 000001				3480+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
000450 00000001				3481+	DC	A(1)	SYNAD		01-DCB
000454 0000				3482+	DC	H'0'	CIND1, CIND2		01-DCB
000456 0000				3483+	DC	AL2(0)	BLKSIZE		01-DCB
000458 00000000				3484+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
00045C 00000001				3485+	DC	A(1)	IOBA		01-DCB
000460 00				3486+	DC	AL1(0)	NCP		01-DCB
000461 000001				3487+	DC	AL3(1)	EOBR, EOBD		01-DCB
				3489+*		QSAM INTERFACE			01-DCB
000464 00000001				3491+	DC	A(1)	RECAD		01-DCB
000468 0000				3492+	DC	H'0'	QSW		01-DCB
00046A 0050				3493+	DC	AL2(80)	LRECL		01-DCB
00046C 00				3494+	DC	BL1'00000000'	EROPT		01-DCB
00046D 000001				3495+	DC	AL3(1)	CNTRL		01-DCB
000470 00000000				3496+	DC	F'0'	PRECL		01-DCB
000474 00000001				3497+	DC	A(1)	EOB		01-DCB
				3498=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)			00222001
				3499=*		EODAD=EODADIN (INSERTED BY IEX11)			00223001
000478		00478	00278	3500=	ORG	PRELPOOL			00224001
000278				3501=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50	00225001
000478				3502=	DS	0F			00226001
000478				3503=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20	00227001
000577		00577	00478	3504=	ORG	PBTAB1			00228001
000478				3505=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40	00229001
				3506=*		DCB FOR SYSUT1	DCB FOR SYSUT1	11-30	00230001
				3507=SYSUT1	DCB	DDNAME=SYSUT1,			X00231001
				=		DSORG=PS,			X00232001
				=		MACRF=(R,W),			X00233001
				=		RECFM=F			00234001
				3509+*		DATA CONTROL BLOCK			01-DCB
				3510+*					01-DCB
000577 00				3511+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
000578				3513+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000578 0000000000000000				3515+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000588 00000000				3516+	DC	A(0)	KEYLE,DEVT,TRBAL		01-DCB
				3518+*		COMMON ACCESS METHOD INTERFACE			01-DCB
00058C 00				3520+	DC	AL1(0)	BUFNO		01-DCB
00058D 000001				3521+	DC	AL3(1)	BUFCB		01-DCB
000590 0000				3522+	DC	AL2(0)	BUFL		01-DCB
000592 4000				3523+	DC	BL2'0100000000000000'	DSORG		01-DCB
000594 00000001				3524+	DC	A(1)	IOBAD		01-DCB

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				3526+*		FOUNDATION EXTENSION		01-DCB
000598 00				3528+	DC	BL1 '0000000'	BFTEK,BFLN,HIARCHY	01-DCB
000599 000001				3529+	DC	AL3 (1)	EODAD	01-DCB
00059C 80				3530+	DC	BL1 '10000000'	RECFM	01-DCB
00059D 000000				3531+	DC	AL3 (0)	EXLST	01-DCB
				3533+*		FOUNDATION BLOCK		01-DCB
0005A0 E2E8E2E4E3F14040				3535+	DC	CL8 'SYSUT1'	DDNAME	01-DCB
0005A8 02				3536+	DC	BL1 '00000010'	OFLGS	01-DCB
0005A9 00				3537+	DC	BL1 '00000000'	IFLG	01-DCB
0005AA 2020				3538+	DC	BL2 '0010000000100000'	MACR	01-DCB
				3540+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
0005AC 00				3542+	DC	BL1 '00000000'		01-DCB
0005AD 000001				3543+	DC	AL3 (1)	CHECK, GERR, PERR	01-DCB
0005B0 00000001				3544+	DC	A(1)	SYNAD	01-DCB
0005B4 0000				3545+	DC	H'0'	CIND1, CIND2	01-DCB
0005B6 0000				3546+	DC	AL2 (0)	BLKSIZE	01-DCB
0005B8 00000000				3547+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
0005BC 00000001				3548+	DC	A(1)	IOBA	01-DCB
0005C0 00				3549+	DC	AL1 (0)	NCP	01-DCB
0005C1 000001				3550+	DC	AL3 (1)	EOBR, EOBA	01-DCB
				3552+*		BSAM-BPAM INTERFACE		01-DCB
0005C4 00000001				3554+	DC	A(1)	EOBW	01-DCB
0005C8 0000				3555+	DC	H'0'	DIRECT	01-DCB
0005CA 0000				3556+	DC	AL2 (0)	LRECL	01-DCB
0005CC 00000001				3557+	DC	A(1)	CNTRL, NOTE, POINT	01-DCB
				3558=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)		00235001
				3559=*		EODAD=EODAD1		00236001
				3560=*				00237001
0005D0				3561=	DS	0F		00238001
0005D0				3562=SPTAB	DS	CL255	SCOPE TABLE	00239001
0006D0				3563=	DS	0F		00240001
		006CD		3564=GPTAB	EQU	*-3	GROUP TABLE	00241001
0006D0				3565=	DS	CL1510		00242001
				3566=*				00243001
				3567=*		END OF SYMLIB PART OF COMMON WORK AREA		00244001
				3568=*				00245001
				3569 *				03052001
		00478		3570 ZFOSTA	EQU	FSTAB		03053001
				3571 *				03054001
000CB6		00CB6 00578		3572	ORG	SYSUT1		03055001
				3573 *				03056001
000578				3574 FSNMAX	DS	H		03057001
00057A				3575 LVCOUNT	DS	H		03058001
00057C				3576 SUCOUNT	DS	H		03059001
000580				3577 ZLEVEN	DS	F		03060001
000584				3578 ZSUTEN	DS	F		03061001
				3579 *				03062001
				3580 *		CHARACTER EQUATES		03063001
				3581 *				03064001
				3582		IEXCHAR		03065001
				3583+*				01-IEXCH
				3584+*		CHARACTER A - Z		01-IEXCH
				3585+*				01-IEXCH
		00040		3586+XFA	EQU	X'40'		02-IEXCG
		00041		3587+XFB	EQU	X'41'		02-IEXCG
		00042		3588+XFC	EQU	X'42'		02-IEXCG
		00043		3589+XFD	EQU	X'43'		02-IEXCG
		00044		3590+XFE	EQU	X'44'		02-IEXCG
		00045		3591+XFF	EQU	X'45'		02-IEXCG
		00046		3592+XFG	EQU	X'46'		02-IEXCG
		00047		3593+XFH	EQU	X'47'		02-IEXCG
		00048		3594+XFI	EQU	X'48'		02-IEXCG
		00049		3595+XFJ	EQU	X'49'		02-IEXCG
		0004A		3596+XFK	EQU	X'4A'		02-IEXCG
		0004B		3597+XFL	EQU	X'4B'		02-IEXCG
		0004C		3598+XFM	EQU	X'4C'		02-IEXCG
		0004D		3599+XFN	EQU	X'4D'		02-IEXCG
		0004E		3600+XFO	EQU	X'4E'		02-IEXCG
		0004F		3601+XFP	EQU	X'4F'		02-IEXCG
		00050		3602+XFQ	EQU	X'50'		02-IEXCG
		00051		3603+XFR	EQU	X'51'		02-IEXCG
		00052		3604+XFS	EQU	X'52'		02-IEXCG
		00053		3605+XFT	EQU	X'53'		02-IEXCG
		00054		3606+XFU	EQU	X'54'		02-IEXCG
		00055		3607+XFV	EQU	X'55'		02-IEXCG
		00056		3608+XFW	EQU	X'56'		02-IEXCG
		00057		3609+XFX	EQU	X'57'		02-IEXCG
		00058		3610+XFY	EQU	X'58'		02-IEXCG
		00059		3611+XFZ	EQU	X'59'		02-IEXCG
				3612+*				01-IEXCH
				3613+*		NATIONAL CHARACTERS		01-IEXCH
				3614+*				01-IEXCH
		0005A		3615+XFDOLLAR	EQU	X'5A'		02-IEXCG
		0005B		3616+XFUNDER	EQU	X'5B'		02-IEXCG
		0005C		3617+XFHASH	EQU	X'5C'		02-IEXCG
		0005D		3618+XFAT	EQU	X'5D'		02-IEXCG
				3619+*				01-IEXCH
				3620+*		NUMERIC 0 - 9		01-IEXCH
				3621+*				01-IEXCH

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
	00030			3622+XF0	EQU	X'30'	02-IEXCG
	00031			3623+XF1	EQU	X'31'	02-IEXCG
	00032			3624+XF2	EQU	X'32'	02-IEXCG
	00033			3625+XF3	EQU	X'33'	02-IEXCG
	00034			3626+XF4	EQU	X'34'	02-IEXCG
	00035			3627+XF5	EQU	X'35'	02-IEXCG
	00036			3628+XF6	EQU	X'36'	02-IEXCG
	00037			3629+XF7	EQU	X'37'	02-IEXCG
	00038			3630+XF8	EQU	X'38'	02-IEXCG
	00039			3631+XF9	EQU	X'39'	02-IEXCG
				3632+*			01-IEEXCH
				3633+*	SPECIAL CHARS		01-IEEXCH
				3634+*			01-IEEXCH
	00000			3635+XFPLUS	EQU	X'00'	02-IEXCG
	00001			3636+XFMINUS	EQU	X'01'	02-IEXCG
	00002			3637+XFASTER	EQU	X'02'	02-IEXCG
	00003			3638+XFSLASH	EQU	X'03'	02-IEXCG
	00006			3639+XFLBRAC	EQU	X'06'	02-IEXCG
	00007			3640+XFCOLON	EQU	X'07'	02-IEXCG
	00008			3641+XFLSQBR	EQU	X'08'	02-IEXCG
	0000B			3642+XFSCOLON	EQU	X'0B'	02-IEXCG
	00010			3643+XFEQUAL	EQU	X'10'	02-IEXCG
	00011			3644+XFLT	EQU	X'11'	02-IEXCG
	00012			3645+XFGT	EQU	X'12'	02-IEXCG
	00020			3646+XFNOT	EQU	X'20'	02-IEXCG
	00022			3647+XFOR	EQU	X'22'	02-IEXCG
	00023			3648+XFAMPER	EQU	X'23'	02-IEXCG
	00025			3649+XFCOMMA	EQU	X'25'	02-IEXCG
	00026			3650+XFRBRAC	EQU	X'26'	02-IEXCG
	00028			3651+XFRSQBR	EQU	X'28'	02-IEXCG
	0002B			3652+XFBLANK	EQU	X'2B'	02-IEXCG
	0002D			3653+XFPERIOD	EQU	X'2D'	02-IEXCG
	0002E			3654+XFQUOTE	EQU	X'2E'	02-IEXCG
				3655+*			01-IEEXCH
	0000C			3656+XFDQUOTE	EQU	X'0C'	02-IEXCG
				3657+*			01-IEEXCH
	0002C			3658+XFEXCLM	EQU	X'2C'	02-IEXCG
	0002C			3659+XFPERCT	EQU	X'2C'	02-IEXCG
				3660+*			01-IEEXCH
				3661+*	INTERNAL CONTROL CODES		01-IEEXCH
				3662+*			01-IEEXCH
	00005			3663+XFPOWER	EQU	X'05'	01-IEEXCH
	00016			3664+XFASSIGN	EQU	X'16'	01-IEEXCH
	00017			3665+XFGOTO	EQU	X'17'	01-IEEXCH
	00018			3666+XFFOR	EQU	X'18'	01-IEEXCH
	0001D			3667+XFIF	EQU	X'1D'	01-IEEXCH
	00027			3668+XFLABEL	EQU	X'27'	01-IEEXCH
	00029			3669+XFDELTA	EQU	X'29'	01-IEEXCH
	0002C			3670+XFEND	EQU	X'2C'	01-IEEXCH
	0002F			3671+XFZETA	EQU	X'2F'	01-IEEXCH
	0003E			3672+XFDECEPT	EQU	X'3E'	01-IEEXCH
				3673 *			03066001
				3674 *	REGISTER EQUATES		03067001
				3675 *			03068001
				3676	IEZREGS		03069001
	00000			3677+R0	EQU	0	01-IEZRE
	00001			3678+R1	EQU	1	01-IEZRE
	00002			3679+R2	EQU	2	01-IEZRE
	00003			3680+R3	EQU	3	01-IEZRE
	00004			3681+R4	EQU	4	01-IEZRE
	00005			3682+R5	EQU	5	01-IEZRE
	00006			3683+R6	EQU	6	01-IEZRE
	00007			3684+R7	EQU	7	01-IEZRE
	00008			3685+R8	EQU	8	01-IEZRE
	00009			3686+R9	EQU	9	01-IEZRE
	0000A			3687+R10	EQU	10	01-IEZRE
	0000B			3688+R11	EQU	11	01-IEZRE
	0000C			3689+R12	EQU	12	01-IEZRE
	0000D			3690+R13	EQU	13	01-IEZRE
	0000E			3691+R14	EQU	14	01-IEZRE
	0000F			3692+R15	EQU	15	01-IEZRE
				3693 *			03070001
000000				3694	END	IEX30000	03071001



X30	Symbol Cross Reference												PAGE 42				
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13					
DIG0	1	00002392	00000001	X	X		3002	2155									
DIG01	2	00001766	00000001	I			2154	2173B									
DIG02	6	00001768	00000001	I			2155	2184B									
DIG19	1	00002334	00000001	X	X		2996	2101									
DIG191	4	000016C0	00000001	I			2099	2160B									
DIG192	2	000016C4	00000001	I			2100	2132B									
DIG193	6	000016C6	00000001	I			2101	2147B									
DIPOW	4	00000466	00000001	I			478	334B									
DO	4	0000042C	00000001	I			453	320B									
ENDPOOL	4	000000C4	FFFFFFFF	F	F		3376	1960									
EODUT1	4	00000070	FFFFFFFF	A	A		3252	130M									
EPSILON	4	000003F2	00000001	I			432	318B									
EPSILON1	4	000003FA	00000001	I			434	441B									
EPSILON2	4	00000410	00000001	I			440	433B									
ERET	4	00000090	FFFFFFFF	F	F		3354	128M	162M								
ERROR1	4	00000852	00000001	I			812	779B									
ETA	4	00000418	00000001	I			445	319B									
FACTOR	2	00002056	00000001	H	H		2868	1421M	1449M	1450M	1471M	1472M	1477M	1514	1516	1575M	1582M
								1614	1617								
FIXITAB	6	000024AC	00000001	X	X		3023	191	192	3222							
FIXITABL	1	0000013F		U			3222	192	193								
FOLI	4	00000912	00000001	I			874	852B	854B	856B	862B						
FOR	4	00000380	00000001	I			412	317B									
FSNEMBR	1	000020B4	00000001	C	C		2891	1172M	1173	1192							
FSNMAX	2	00000578	FFFFFFFF	H	H		3574	554M									
FSTAB	255	00000478	FFFFFFFF	C	C		3505	248	416	2082	3570						
GAMMA	4	00000628	00000001	I			633	327B									
GENER	8	00002278	00000001	X	X		2980	307	1911								
GENTEST	2	0000024A	00000001	I			306	301B	303B	345B	372B	399B	425B	494B	639B	647B	788B
								2181B	2476B	2496B							
GENTEST1	4	00000246	00000001	I			305	459B	806B	808B							
GENTXT	4	00001E14	00000001	I			2671	2660B									
GEN3	4	00001E5E	00000001	I			2697	2676B	2678B								
GEN4	2	00001E5A	00000001	I			2692	2758B									
GEN6	4	00001E38	00000001	I			2679	2740B									
GEN6A	2	00001E4A	00000001	I			2685	2683B									
GEN8	2	00001F02	00000001	I			2753	2690B									
GOTOFOR	2	00001F82	00000001	H	H		2795	949									
GPTAB	1	000006CD	FFFFFFFF	U			3564	955									
ICHA	4	000012EE	00000001	I			1745	298B	352B	401B	646B	799B	1933B	2129B	2171B	2220B	2274B
ICHA1	4	00001346	00000001	I			1778	186B									
ICHA1	4	00001300	00000001	I			1753	1779B									
IDENT	4	00000860	00000001	I			826	781B									
IDENT1	1	000022D6	00000001	X	X		2990	773									
IDENT2	4	00000878	00000001	I			833	868B									
IDENT3	6	0000087C	00000001	I			834	836B									
IDENT4	4	000008A8	00000001	I			845	382M	487M	833							
IDENT5	4	000008BE	00000001	I			851	845B									
IDENT6	4	00000884	00000001	I			836	848B	850B								
IDENT7	6	000008F8	00000001	I			863	860B									
IEX30000	1	00000000	00000001	J			77	118U	3694								
INCORE	4	000000EA	00000001	I			190	185B									
INCOROP	4	000014CE	00000001	I			1920	359B	814B	950B	2125B	2305B					
INCOROP1	4	000014D8	00000001	I			1923	1929B	1946B								
INCOROP2	2	00001502	00000001	I			1936	1924B									
INCOROP3	6	0000151E	00000001	I			1944	1925B									
INCOROP4	2	000014F4	00000001	I			1931	1927B									
INCOROP5	2	000014D6	00000001	I			1922	1934B									
INITEND	4	00000232	00000001	I			299	297B									
INLIT2	4	000001F4	00000001	I			281	273B									
INTCON	4	000019F8	00000001	I			2354	2138B	2144B								
INTCON1	2	00001A0E	00000001	I			2359	2355B									
INTCON2	4	00001A22	00000001	I			2365	2356B	2358B								
INTERUPT	4	00001F42	00000001	I			2765	137									
INTHAN	4	00001B6E	00000001	I			2465	2363B									
INTHANA	6	00001B7A	00000001	I			2468	2466B									
INTHANR	4	00001B80	00000001	I			2469	2562B									
INTHAN1	4	00001BCC	00000001	I			2491	2479B	2507B	2513B	2538B	2545B	2566B	2585B	2593B	2605B	2625B
								2632B									
INTHAN10	2	00001C06	00000001	I			2509	2504B									
INTHAN11	4	00001C72	00000001	I			2540	2526B									
INTHAN2	4	00001BA2	00000001	I			2478	2470B									
INTHAN3	2	00001BE8	00000001	I			2498	2487B									
INTHAN4	4	00001BF0	00000001	I			2502	2506B									
INTHAN5	4	00001C2A	00000001	I			2520	2518B									
INTHAN6	4	00001BC2	00000001	I			2487	2480									
INTHAN7	4	00001C0A	00000001	I			2511	2523B									
INTHAN8	6	00001C3A	00000001	I			2525	2516B									
INTHAN9	4	00001C16	00000001	I			2515	2500B									
INTPACK	6	00001A44	00000001	I			2374	2360X									
INVOP	2	00001F78	00000001	H	H		2790	358	813	2124	2304						
IOBYTE	1	000020B5	00000001	C	C		2892	1795	1804M	1854	1899M	2014	2024M	2029	2075M		
ITABMEX	6	000014C8	00000001	I			1914	1816X									
ITABMOP	4	0000134E	00000001	I			1793	377B	407B	440B	764B						
ITABMOVE	4	00001352	00000001	I			1794	302B	365B	398B							
ITABM2	6	000013D2	00000001	I			1835	1832B									
ITABM3	6	000013D8	00000001	I			1836	1831B									
ITABM4	6	000013DE	00000001	I			1837	1830B									
ITABM5	6	000013E4	00000001	I			1838	1829B									
ITABM6	6	000013EA	00000001	I			1839	1828B									
ITABM7	6	000013F0	00000001	I			1840	1827B									
ITABM8	1	000013F6	00000001	U			1841	1826B									
ITABOVER	2	00001F8C	00000001	H	H		2800	1906									
ITABREAD	4	000014BC	00000001	I			1910	217B									
ITAB1	4	000013F6	00000001	I			1843	1811B									
ITAB10	4	000014A6	00000001	I			1904	1853B									
ITAB30S	4	000000EC	FFFFFFFF	F	F		3393	146	166	197							



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
ITAB4	4	00001370	00000001	I			1805	1796B				
ITAB5	1	00001440	00000001	U			1864	1856B				
ITAB6	4	00001462	00000001	I			1880	1855B 1912B				
ITAB7	4	0000149A	00000001	I			1900	1849B				
KBN	2	000000A0	FFFFFFF	H	H		3361	292M 2493 2643M				
KH1	2	00001F5A	00000001	H	H		2772	529 2435				
KH10	2	00001F64	00000001	H	H		2777	255 2354 2431				
KH11	2	00001F66	00000001	H	H		2778	931				
KH12	2	00001F68	00000001	H	H		2779	223 1656 1964 1966 2317 2319				
KH15	2	00001F6A	00000001	H	H		2780	698 2469				
KH1792	2	00001F74	00000001	H	H		2785	1820 1821				
KH18	2	00001F6C	00000001	H	H		2781	1702				
KH255	2	00001F72	00000001	H	H		2784	1672 2525 2614				
KH4096	2	00001F76	00000001	H	H		2786	145 164 282				
KH5	2	00001F5C	00000001	H	H		2773	1397 1974				
KH64	2	00001F70	00000001	H	H		2783	2412 2428				
KH7	2	00001F5E	00000001	H	H		2774	737				
KH8	2	00001F60	00000001	H	H		2775	153				
KH9	2	00001F62	00000001	H	H		2776	241 981 1017 1272 1313 1364 1553 2084 2385 2432				
KP1	1	00001F40	00000001	P	P		2763	2733				
LATBEG	1	0000006C		U			3363	3364				
LATNR	1	0000001C		U			3362	3363				
LBETA1	4	00000340	00000001	I			374	367B				
LBETA2	4	00000320	00000001	I			366	438B				
LBETA3	6	00000328	00000001	I			368	375B				
LBETA4	4	00000348	00000001	I			377	364B				
LCOMMA1	4	0000074A	00000001	I			714	699B				
LCOMMA2	4	00000752	00000001	I			717	701B				
LCOMMA3	4	00000756	00000001	I			718	705B				
LCOMMA4	4	00000732	00000001	I			707	719B				
LD01	4	00000446	00000001	I			461	456B				
LD02	6	00000438	00000001	I			457	462B 682B 712B				
LD03	4	00000430	00000001	I			454	455 468B 474B 657B 659B 661B 663B 697B 715B 728B				
								740B 745B				
LETRAF	4	00000E18	00000001	I			1341	894B 1149B				
LETRAF1	2	00000E22	00000001	I			1344	1369B				
LETRAF2	4	00000E78	00000001	I			1364	1348B 1368B				
LETRAF3	4	00000E90	00000001	I			1371	1362B				
LETRAF4	4	00000EB4	00000001	I			1381	1354B				
LETRAF5	4	00000E5C	00000001	I			1358	1351B				
LETRAF6	4	00000E74	00000001	I			1363	1379B				
LETTER	4	000007DA	00000001	I			767	309B 363 383 393M 394B 432 1793M				
LETTERP	4	000007DE	00000001	I			768	765B				
LETTER0	4	0000082E	00000001	I			793	774B				
LETTER1	4	0000080C	00000001	I			783	843B 884B 889B 891B 893B 895B 898B 909B 917B 919B				
								940B 947B 977B 987B 992B 1003B 1010B 1019B 1036B 1043B				
								1050B 1062B 1064B 1067B 1942B				
LETTER2	4	00000826	00000001	I			790	785B				
LETTER3	6	00000818	00000001	I			786	791B				
LETTER4	2	000007E6	00000001	I			770	800B				
LETTER5	4	000007D2	00000001	I			764	767B				
LETTER6	6	000007EC	00000001	I			773	794B				
LFOR1	4	000003EA	00000001	I			427	421B				
LFOR3	6	000003CA	00000001	I			419	447B 449B				
LFOR4	6	000003D8	00000001	I			422	428B				
LGAMMA1	4	00000646	00000001	I			641	634B				
LGAMMA2	4	00000630	00000001	I			635	642B				
LNG	1	00000002		U			3302	272 2555				
LOMEGA1	4	000005EA	00000001	I			613	530B				
LOMEGA11	6	00000608	00000001	I			622	625B				
LOMEGA12	4	0000061A	00000001	I			626	621B				
LOMEGA2	1	00000530	00000001	U			550	547B				
LOMEGA3	4	0000051A	00000001	I			543	627B 1734B 1908B 1986B				
LOMEGA4	4	000005A2	00000001	I			581	561B 573B 575B				
LOMEGA5	4	00000574	00000001	I			569	563B				
LOMEGA6	4	000004E0	00000001	I			519	129 511B				
LOPBRA3	4	000006B0	00000001	I			672	685B				
LOPBRA4	4	000006E4	00000001	I			684	665B 669B				
LOPBRA5	4	000006EC	00000001	I			687	652B				
LOUCHAF	4	000011B0	00000001	I			1641	1728M				
LOUCHAL	4	0000128E	00000001	I			1709	1705M				
LOUCHAM	6	00001284	00000001	I			1707	1704M				
LOUCHA1	4	00001264	00000001	I			1698	1650B				
LOUCHA2	4	000012BC	00000001	I			1721	1703B				
LOUCHA4	4	000011D8	00000001	I			1655	1712B 1719B				
LOUCHA5	4	000011CC	00000001	I			1651	1701B 1726B				
LOUCHA6	6	000011C2	00000001	I			1649	1729B				
LOUCHA7	4	000012D2	00000001	I			1728	1641B				
LOUCHA8	6	000012DA	00000001	I			1731	1673B				
LPIPHI1	4	000003A0	00000001	I			404	387B				
LPIPHI2	6	0000036A	00000001	I			388	405B				
LPIPHI3	4	00000378	00000001	I			391	402B				
LPIPHI4	4	00000388	00000001	I			396	392B				
LPIPHI5	4	00000398	00000001	I			401	397B				
LPIPHI6	4	000003A8	00000001	I			407	384B				
LQUOT1	4	000002E8	00000001	I			350	343B				
LQUOT2	4	000002E0	00000001	I			347	339B				
LQUOT3	6	000002C6	00000001	I			340	348B				
LQUOT4	6	000002FC	00000001	I			355	351B				
LQUOT5	4	000002D8	00000001	I			344	354B				
LREAL	4	00002128	00000001	F	F		2923	275M 2521 2533				
LSEM1	4	000004A2	00000001	I			496	489B				
LSEM2	6	0000048C	00000001	I			490	497B				
LVCNT	2	00001FC4	00000001	H	H		2822	556 1355 1357M				
LVCOUNT	2	0000057A	FFFFFFF	H	H		3575	556M				
LVKEY	4	00001FBC	00000001	C	C		2820	264				
LVLNGTH	4	00001FC0	00000001	F	F		2821	569 1353 1375 1377M				

X30		Symbol Cross Reference										PAGE 44			
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References				X390	3.1.04	2012/08/17	13.13
LVSTRT	4	00001FB8	00000001	A	A		2819	178M	263	577	1372				
LVTAB30S	4	000000F8	FFFFFFFF	F	F		3396	152	267	578	1373	1376			
LVTAB40S	4	00000104	FFFFFFFF	F	F		3399	1353							
MANYCON	2	00001F84	00000001	H	H		2796	2542	2629						
MAXINT	10	0000213B	00000001	X	X		2934	2357							
MOVE	2	000015B0	00000001	I			1997	798B	812B	826B	1932B	1937B	1990B	2112B	2116B
								2140B	2210B	2219B	2273B	2283B	2299B	2342B	2371B
MOVEEX	6	000015D0	00000001	I			2012	2002X	2008X						
MOVEP	2	0000159A	00000001	I			1988	2213B	2226B						
MOVERRO	4	0000152C	00000001	I			1959	840B	866B	946B	1382B	1637B	1733B	1907B	1940B
								2453B	2459B	2543B	2630B				
MOVERROM	6	00001578	00000001	I			1978	1976M							
MOVERRO1	4	0000154C	00000001	I			1967	1965B							
MOVERRO2	4	00001580	00000001	I			1981	1961B							
MOVERRO3	2	0000157E	00000001	I			1979	1975B							
MOVE1	2	000015C4	00000001	I			2006	2001B							
NDECK	1	00000020		U			3320	2658	2698	2700					
NEXTERR	4	000000C0	FFFFFFFF	A	A		3375	1959	1969M	1985M					
NLOAD	1	00000040		U			3317	2658	2698						
NOCOUNT	1	00000080		U			105	481	1118	2554					
NOCRI	4	00000930	00000001	I			883	878B							
NOCRI1	4	00000962	00000001	I			897	886B							
NORMAL	1	000000F0		U			108	914	1001	1034	1066	1156	1194	1237	
NOSC	1	00000008		U			3342	299	509						
NOSUOP	1	00000040		U			106	1347	2083						
NOTER	4	000020BC	00000001	F	F		2894	1873M	1876	2045M					
NOTEW	4	000020B8	00000001	F	F		2893	206M	1871M	2047M	2050				
NREAL	4	0000212C	00000001	F	F		2924	277M	2393						
NSTART	4	00002120	00000001	A	A		2921	2134	2205	2214	2227	2370	2377		
NUMBER	1	00002082	00000001	U			2881	1993	2094	2095	2143	2149	2150	2186	2187
								2352	2442	2446	2921	2237	2332		
OLDFSN	1	00000F5F	00000001	U			1442	1426M							
OLDSPIE	4	00002160	00000001	A	A		2941	141M	600	2767					
OMEGA	6	000004C0	00000001	I			508	328B							
ONEELEM	6	00002062	00000001	X	X		2870	1450	1472						
ONERM	6	00000622	00000001	I			629	626X							
OPBRACK	4	00000656	00000001	I			651	323B							
OPERANDR	4	0000107C	00000001	I			1540	1404B	1459B	1493B	1578B				
OPERAND1	4	00001098	00000001	I			1551	1545B							
OPERAND2	4	000010A0	00000001	I			1553	1555B							
OPERAND3	4	000010AE	00000001	I			1557	1564B							
OPERAND4	2	00001094	00000001	I			1546	1560B							
OPSTART	4	000020A8	00000001	A	A		2882	837	863	943	1939	2321	2349		
OTHER	4	0000172C	00000001	I			2134	2110B							
OTHER1	4	0000173C	00000001	I			2140	2135B							
OTHOP	4	00000430	00000001	U			455	329B	479B	482B	500B	504B	654B	690B	695B
OTHOP0	4	000017A8	00000001	I			2175	2166B							
OTHOP01	6	000017B4	00000001	I			2178	2176B							
OUCHA	4	000011AC	00000001	I			1640	347B	374B	404B	427B	461B	496B	532B	641B
								2467B	2549B	790B	2177B				
OUTAREA2	4	000000AC	FFFFFFFF	F	F		3367	2715	2725M						
PAGEHD1	121	0000010C	FFFFFFFF	C	C		3406	3407	3411						
PAGEHD2	121	00000185	FFFFFFFF	C	C		3416	3417							
PAGEHD3	121	000001FE	FFFFFFFF	C	C		3423	3424							
PBN	2	0000009E	FFFFFFFF	H	H		3360	291	1848						
PBTAB1	255	00000478	FFFFFFFF	C	C		3503	3504							
PFA	4	000020C0	00000001	A	A		2898	243M	660	888	916	978	1015	1105	1127M
								1260	1281M	1295	1311	1343	1439	1551	2079
PFAMAX	4	000020C8	00000001	A	A		2900	245M	1111	1140					
PFANO	4	000020C4	00000001	A	A		2899	242M	660	888	916	1018	1131	1147	1249
								1365	2085	1262	1295				
PIDENT	4	000000B0	FFFFFFFF	C	C		3368	2732							
PIPHI	4	00000350	00000001	I			382	316B							
PIPHI1	6	0000035C	00000001	I			385	408B							
PRECERR	1	00000008		U			94	2312	2398						
PRECREAL	2	00001F80	00000001	H	H		2794	2396							
PRELPOOL	1	00000278	FFFFFFFF	C	C		3441	3374	3375	3442	3500				
PROC	1	00000004		U			3299	300							
PROFU	4	0000096A	00000001	I			908	879B							
PROFU1	4	00000988	00000001	I			915	912B							
PRPT	4	000000A4	FFFFFFFF	F	F		3365	285	2657	2662M					
PUNCHOUT	1	00001EB6	00000001	U			2728	2712B							
PUTCHAIN	4	00000B52	00000001	I			1076	1023B							
PUT1	2	00001E7A	00000001	I			2706	2702B							
PUT1A	4	00001E76	00000001	I			2703	2726B							
QTORLT	4	00001702	00000001	I			2120	2107B	2161B						
QTORLTP	4	00001820	00000001	I			2210	2198B							
QTORLT1	4	00001708	00000001	I			2122	1995B	2211B						
QUOTE	4	000002BE	00000001	I			338	314B							
RANGEINT	2	00001F7E	00000001	H	H		2793	2367							
RANGEREAL	2	00001F7C	00000001	H	H		2792	2452	2458						
READC	1	00000020		U			100	1804	1854	2029					
READM	1	00000080		U			98	1795	1899						
REALCON	2	00001A4A	00000001	I			2376	2228B	2295B	2372B					
REALCONA	4	00001B08	00000001	I			2436	2433B							
REALCON1	4	00001AF6	00000001	I			2431	2386B							
REALCON2	6	00001A6A	00000001	I			2389	2444B							
REALCON3	2	00001AA0	00000001	I			2405	2394B	2399B						
REALCON5	4	00001AE4	00000001	I			2425	2413B							
REALCON6	4	00001AB6	00000001	I			2412	2410B	2429B						
REALCON7	2	00001A9A	00000001	I			2403	2378B							
REALCON8	4	00001ACA	00000001	I			2417	2415B							
REALCON9	2	00001ADA	00000001	I			2421	2419B							
REALERR	4	00001B36	00000001	I			2448	2766B							
REALERR1	4	00001B58	00000001	I			2457	2422B	2427B						
REALH	4	00001CD0	00000001	I			2564	2556B							
REALHAN	4	00001C8C	00000001	I			2547	2230B	2404B	2406B	2423B	2448	2461B		

X30													Symbol Cross Reference										PAGE				45
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References										X390	3.1.04	2012/08/17	13.13						
REALHANA	6	00001C98	00000001	I			2550	2548B																			
REALHAN1	4	00001CAE	00000001	I			2555	2552B																			
REALH10	6	00001D66	00000001	I			2614	2589B	2609B																		
REALH11	4	00001D98	00000001	I			2627	2615B																			
REALH2	4	00001D3C	00000001	I			2600	2573B																			
REALH21	4	00001D42	00000001	I			2602	2600																			
REALH22	2	00001D50	00000001	I			2607	2602B																			
REALH3	4	00001CF8	00000001	I			2576	2575																			
REALH4	4	00001D02	00000001	I			2580	2576B																			
REALH5	4	00001D08	00000001	I			2582	2580																			
REALH6	2	00001D16	00000001	I			2587	2582B																			
REALH7	4	00001D2E	00000001	I			2595	2612B																			
REALH8	2	00001D20	00000001	I			2590	2598B																			
REALH9	2	00001D32	00000001	I			2596	2611B																			
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REPACK	6	00001B30	00000001	I			2446	2388X	2436X																		
RHO	4	00000842	00000001	I			805	330B	778B	2109B	2165B																
RITAB	4	00001470	00000001	F	F		1886	1799	2034																		
ROUND	8	00002110	00000001	X	X		2918	2558M	2559																		
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								2241M	2332M	2680M	2681	2685	2687	2688													
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								264	265	266	267M	268	281M	283	285M	286	287										
								288	289M	290	557M	558M	559M	560	569M	570M	571M										
								572	593M	600M	614M	622	623M	629	772M	775	830M										
								930M	931M	932	934	937M	959	978M	979	981M	986										
								989	997	999	1002	1004	1005M	1006M	1016M	1017M	1018										
								1020	1030	1032	1035	1037	1038M	1039M	1047	1049	1051										
								1052M	1053M	1057	1059	1077	1079	1086	1196M	1197M	1203										
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								1344	1346	1359	1364M	1365	1367	1395M	1399	1401M	1402										
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R11	1	0000000B		U			3688	118U	120M	121M	122																
R12	1	0000000C		U			3689	118U	122M	123M																	
R13	1	0000000D		U			3690	125U																			
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								2618M	2644B	2648	2660M	2663M	2664B	2671	2672M	2682	2684										
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R4	1	00000004		U			3681	221M	224	236M	338	340	344M	366	368	369M	386										
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X30			Symbol Cross Reference										PAGE 46				
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References									
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								1661M	1662	1663M	1664	1665M	1666	1667M	1668	1671M	1672
								1674M	1675	1676M	1689	1698M	1700	1707	1708	1713M	1716
								1717	1723M	1724M	1725	1753M	1766	1817M	1818	1819M	1821M
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								1815M	1816	1817	1822M	1823M	1824	1881M	1894	1962M	1963M
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								2056M	2070	2080M	2081M	2082M	2083	2376M	2377M	2383	2393
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								2532M	2533M	2535	2571M	2572	2574M	2587M	2588	2590M	2591
								2596	2601M	2607M	2608	2610	2620M	2621	2622		
R8	1	00000008		U			3685	356M	667M	668	670	671M	672	673	678	679	684M
								768M	827	838	864	944	1015M	1016	1020	1024	1076
								1082	1083	1105M	1111	1113M	1114	1120	1121	1125	1127
								1131	1140	1142M	1144	1147	1170	1214	1220M	1249M	1250
								1260M	1261	1262	1264	1266	1268	1272M	1276	1281	1418M
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								2416	2428M	2431M	2432	2434M	2436	2442M	2443	2482M	2486M
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								2534	2570M	2572	2616M	2651	2654				
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SAVELT	4	00001E90	00000001	F	F		2714	2697M	2711								
SAVOUTA	4	000000A8	FFFFFFFF	F	F		3366	2674	2710M	2716							
SCAFAC	2	0000244E	00000001	X	X		3014	2247									
SCAFACT	2	0000186C	00000001	I			2235	313B									
SCAFACTM	4	000016F8	00000001	I			2116	2106B									
SCAL	4	00001964	00000001	I			2307	2248B									
SCALE	1	0000213A	00000001	U			2932	2243M	2269M	2287							
SCALEMSK	4	00002124	00000001	X	X		2922	2414	2418								
SCALEQ	1	00002139	00000001	R	A		2931	2333	2932								
SCAOT	4	000018FE	00000001	I			2279	2256B	2268B								
SCAOT1	4	00001934	00000001	I			2293	2282B									
SCAPACK	6	00001940	00000001	I			2297	2285X									
SCAQL	4	00001946	00000001	I			2299	2254B									

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
SCAWORK	1	00002145	00000001	X	X		2935	2240 2241 2297 2340 2939			
SCAWORKA	4	0000215C	00000001	A	A		2939	2284 2300			
SCAZERO	4	000018C8	00000001	I			2261	2252B			
SCAZETA	4	000018EE	00000001	I			2273	2255B			
SCA0	4	00001796	00000001	I			2168	2163B			
SCA1	4	00001876	00000001	I			2238	2118B 2169B 2215B 2217B			
SCA19	4	000018C0	00000001	I			2258	2251B			
SCA2	4	00001892	00000001	I			2245	2259B 2262B			
SCA20	4	0000188E	00000001	I			2244	2264B 2271B			
SCA3	2	00001896	00000001	I			2246	2277B			
SCA4	6	00001898	00000001	I			2247	2308B			
SEMCNT	2	0000009C	FFFFFFFF	H	H		3359	131M 486M 1973 1983			
SEMIDELT	6	0000047A	00000001	I			486	322B			
SF	1	00000010		U			91	2330			
SFDIGIT	1	00000060		U			92	2279			
SFLSIGN	1	000000E0		U			93	2267			
SFL0	1	00000040		U			89	2263			
SFSIGN	1	00000080		U			88	2270 2334			
SF19	1	00000020		U			90	2258 2261 2281			
SPECUSE	4	0000217C	00000001	X	X		2944	875			
SPIC	1	00000040		U			3339	184 296 510 533 613			
SPTAB	255	000005D0	FFFFFFFF	C	C		3562	1431 1511			
SRCE1ADD	4	000000C8	FFFFFFFF	F	F		3377	182 614			
SRCE1S	4	000000E0	FFFFFFFF	F	F		3389	147 168 616 3390			
SRCE3S	4	000000E0	FFFFFFFF	U			3390	148 149 170 172 222 1655			
SREAD	4	0000130C	00000001	F	F		1759	514 1748			
SREF	1	00002136	00000001	P	P		2928	2286 2289 2361 2389 2437			
SSWITCH	1	00000040		U			85	499 941			
STATUS	1	000020AE	00000001	X	X		2885	493M 499M 502M 651 723 851 941			
STEP	4	0000045A	00000001	I			472	331B			
STEMP	1	00000008		U			109	473			
SUBAST	4	00000FE0	00000001	I			1487	1409B			
SUBEND	4	0000204C	00000001	A	A		2866	1398M 1402 1405 1460 1488			
SUBFIN	2	00001004	00000001	I			1497	1465B 1473B			
SUBFIN1	2	0000101E	00000001	I			1505	1452B 1498B			
SUBFIN2	4	00001054	00000001	I			1518	1515B			
SUBFIN3	4	00001066	00000001	I			1522	1519B			
SUBFIN4	2	0000106C	00000001	I			1525	1483B 1504B 1510B 1513B 1517B 1521B 1638B			
SUBMULT	6	000010CE	00000001	I			1575	1464B 1487B			
SUBMULT1	2	000010EE	00000001	I			1583	1594B			
SUBMULT2	2	00001102	00000001	I			1591	1580B			
SUBNOOP	4	00000EF6	00000001	I			1413	1463B 1491B 1541B 1543B 1581B			
SUBONE	2	00000EFC	00000001	I			1418	1406B			
SUBONE1	2	00000F16	00000001	I			1424	1445B			
SUBONE2	4	00000F54	00000001	I			1439	1429B 1433B 1437B 1444B			
SUBONE3	6	00000F6A	00000001	I			1449	1419B			
SUBONE4	4	00000F50	00000001	I			1438	1435B			
SUBONE5	6	00000F76	00000001	I			1451	1489B			
SUBPM	6	00000F80	00000001	I			1456	1408B			
SUBPM1	2	00000FA8	00000001	I			1467	1461B			
SUBPM2	6	00000FBA	00000001	I			1472	1479B			
SUBPM3	2	00000FC4	00000001	I			1475	1468B			
SUBPM4	2	00000FD8	00000001	I			1481	1469B			
SUB1	4	00000ED8	00000001	I			1402	1400B			
SUCNT	2	00001FA8	00000001	H	H		2812	555 1606 1608M			
SUCOUNT	2	0000057C	FFFFFFFF	H	H		3576	555M			
SUCRDEL	6	00000D9E	00000001	I			1295	666B 718B 747B 1413B 1721B			
SUCRID1	4	00000DAE	00000001	I			1299	1303B			
SUCRID2	2	00000DB2	00000001	I			1300	1307B			
SUCRID3	4	00000DC6	00000001	I			1306	1322B 1327B			
SUCRID4	4	00000DCE	00000001	I			1311	1305B			
SUCRID5	4	00000DD6	00000001	I			1313	1315B			
SUCRID6	4	00000DE4	00000001	I			1317	1331B			
SUCRID7	4	00000DFE	00000001	I			1326	1318B			
SUKEY	4	00001FA0	00000001	C	C		2810	254			
SULENGTH	4	00001FA4	00000001	F	F		2811	557 1604 1630 1632M			
SULTSTRT	4	000000D0	FFFFFFFF	F	F		3379	205M			
SUSCRITE	4	00000EBE	00000001	I			1395	706B 735B			
SUSTRT	4	00001F9C	00000001	A	A		2809	175M 253 565 1627			
SUTABENT	4	0000110C	00000001	I			1600	1438B 1522B			
SUTAB1	4	00001132	00000001	I			1609	1602B			
SUTAB2	4	00001164	00000001	I			1620	1618B			
SUTAB3	6	00001170	00000001	I			1623	1621B			
SUTAB30S	4	000000F4	FFFFFFFF	F	F		3395	151 176 258 566 1628 1631			
SUTAB4	4	000011A0	00000001	I			1636	1605B			
SUTAB40S	4	00000100	FFFFFFFF	F	F		3398	1604			
SWILA	2	0000099E	00000001	I			930	880B			
SWILA1	4	000009A0	00000001	I			931	933B			
SWILA2	2	000009BE	00000001	I			938	962B			
SWILA21	6	000009E8	00000001	I			949	942B			
SWILA3	2	000009F2	00000001	I			952	939B			
SWILA4	6	00000A0E	00000001	I			960	957B			
SWITCH	4	000004AA	00000001	I			499	333B			
SWITCHER	2	00001F8A	00000001	H	H		2799	945			
SWRITE	4	00001238	00000001	F	F		1682	536 1644			
SYSUT1	4	00000578	FFFFFFFF	F	F		3511	3572			
TABOFLO	4	00001678	00000001	I			2079	1381B 1636B			
TABOFLO1	2	0000167C	00000001	I			2080	2086B			
TABOVER	2	00001F86	00000001	H	H		2797	2091			
TABSIZE	4	00002164	00000001	F	F		2942	154M 592			
TERM1	4	000005CC	00000001	I			600	127			
TERM2	1	00000530	00000001	U			551	161			
TOOLONG	2	00001F8E	00000001	H	H		2802	1731			
TOOMANY	1	000000D4		U			2801	1982			
TWRITE	4	00001644	00000001	F	F		2061	1859 2019			
TXTL	2	00001E02	00000001	H	H		2661	2653M			
TXTL1	4	00001E04	00000001	I			2662	2667B			



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
ZST01	2	00002070	00000001	X	X		2874	858				
ZST02	2	00002072	00000001	X	X		2875	859				
ZSUDAD	4	00001F94	00000001	A	A		2807	256M 559 562 1601 1633				
ZSUTAPO	4	00001F90	00000001	A	A		2806	257M 558 562 1600 1610M 1633M				
ZSUTEN	4	00000584	FFFFFFFF	F	F		3578	560M				
ZSUTMAX	4	00001F98	00000001	A	A		2808	259M 1624				
ZTEN9	8	00002100	00000001	D	D		2916	2441				
ZTEXTCO	4	000020E0	00000001	A	A		2909	290M 546 2517 2610 2639M 2649 2656M				
ZTO	4	00002150	00000001	F	F		2936	2238M 2294 2302				
ZTOSCA	4	00002158	00000001	F	F		2938	2293M 2301M 2338				
ZWP	4	00002118	00000001	A	A		2919	286M 2482 2511M 2534M 2570 2597M 2622M				



Register References (M=modified, B=branch, U=USING, D=DROP, N=index)

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0(0)	145M	146M	147M	148M	149M	150M	151M	152M	153M	154	357M	592M	674M	675	676M	677	769M	831M
	832M	836	867	1640	1695M	1745	1772M	1778	1794	1876M	1900M	1910	1921M	2000	2006	2009	2016	2025M
	2028	2050M	2055M	2068	2076M	2095M	2150M	2187M	2241M	2332M	2648	2663M	2680M	2681	2685	2687	2688	
1(1)	135M	141	158M	163	164M	165	166M	167	168M	169	170M	171	172M	173	174M	175	176M	177M
	178	190M	191	192	193	197M	198	199M	202	205	206	211M	213M	214	240M	241M	242	243
	244M	245	253M	254	255M	256	257	258M	259	263M	264	265	266	267M	268	281M	283	285M
	286	287	288	289M	290	307M	514M	515	523M	525M	526	536M	537	557M	558M	559M	560	569M
	570M	571M	572	586M	588M	589	593M	597M	600M	614M	622	623M	629	772M	773M	775	830M	836
	930M	931M	932	934	937M	959	978M	979	981M	986	989	997	999	1002	1004	1005M	1006M	1016M
	1017M	1018	1020	1030	1032	1035	1037	1038M	1039M	1047	1049	1051	1052M	1053M	1057	1059	1077	1079
	1086	1196M	1197M	1203	1210	1220	1298M	1299M	1300	1302	1304	1306M	1314	1343M	1344	1346	1359	1364M
	1365	1367	1395M	1399	1401M	1402	1405	1407	1420	1449	1456	1458M	1460	1462	1471	1478	1488	1490
	1492M	1494	1540	1542	1544	1554	1575	1577M	1582	1600M	1601	1609M	1610	1612	1613	1614	1615	1616
	1619	1622	1623	1624	1640	1644M	1645	1681M	1689M	1690M	1691M	1695M	1745	1748M	1749	1758M	1766M	1767M
	1768M	1772M	1778	1794	1799M	1800	1859M	1860	1865M	1868	1871	1872M	1877	1885M	1893M	1894M	1895M	1900M
	1910	1931M	1936M	1997M	1999	2002	2016	2019M	2020	2025M	2028	2034M	2035	2039M	2042	2045	2046M	2051
	2060M	2068M	2069M	2070M	2071M	2076M	2099M	2101M	2103	2113	2117	2121	2128	2130M	2141	2142M	2146M	2153M
	2155M	2157	2172M	2183M	2191M	2193M	2195	2222M	2232M	2245M	2247M	2249	2275M	2307M	2338M	2339M	2341M	2366
	2407M	2417M	2418M	2420M	2450	2484M	2485M	2487M	2488	2491M	2492	2502M	2503	2505	2509M	2512	2530M	2531
	2532	2536	2537	2540	2541	2564M	2569M	2576M	2577	2581M	2582M	2583	2592	2602M	2603	2619M	2620	2623
	2624	2648	2663M	2674M	2675	2677	2680	2686	2688M	2701M	2703M	2706M	2707	2710	2716M	2717	2718M	2721M
	2722	2725	2729	2730	2731	2732	2734	2735	2736	2737	2738	2739	2755	2765				
2(2)	306M	307M	308M	615M	622	624M	629	771M	773M	776M	936M	938	952	953	954	961M	1169M	1170
	1172	1173	1175	1177	1181M	1184	1188	1196	1199	1201	1205	1206	1208	1212	1213	1214	1216M	1297M
	1300	1344M	1367	1418	1423M	1430M	1432	1457	1467	1470	1476	1495	1507M	1512	1546M	1551M	1552M	1553M
	1554	1557	1559	1561	1562M	1563M	1576	1579	1583M	1586	1591	1592M	1613	1623	1640	1695M	1745	1772M
	1778	1794	1900M	1910	2016	2025M	2028	2076M	2100M	2101M	2104M	2123M	2154M	2155M	2159M	2192M	2193M	2196M
	2246M	2247M	2250M	2303M	2313B	2350B	2362M	2395M	2408M	2411M	2416	2420	2425	2451M	2457M	2469	2471M	2472
	2488	2505	2512	2537	2561M	2648	2649M	2650M	2652	2663M	2755	2757M						
3(3)	182M	183	305M	307	340	341M	342	350	353	368	370	371M	385	388	390M	391	396	419
	422	424M	457	486	490	492M	508	636	637M	770	773	775M	793M	890	984	1773M	1775	1904
	1905	1922	1923	1926	1928M	1931	1936	1944	1945M	1988	2089	2090	2097	2099	2103M	2130	2131	2136
	2153	2157M	2158	2172	2190	2191	2195M	2203	2221	2222	2244	2245	2249M	2269	2275	2276	2627	2628
	2648	2663M	2673M	2675	2677	2729	2736	2737										
4(4)	221M	224	236M	338	340	344M	366	368	369M	386	388	389M	420	422	423M	454	457	458M
	488	490	491M	508	531M	633	635	636	638M	674	704	710	733	742	784	786	787M	805
	807	1297	1396	1651	1652M	1653	1654M	1699	1709M	2175	2178	2179	2180M	2465	2468	2473	2474	2475M
	2493	2494	2495M	2547	2550	2648	2663M	2671M	2693B									
5(5)	127M	128	129M	130	161M	162	193M	194	195M	196	207M	213	222M	223M	224M	225	226M	227
	228M	229	230M	231	232M	233	234M	235	248M	249	274M	275	276M	277	282M	283M	284	413M
	414M	415	417M	418	466M	467	472M	473	480M	481	519M	525	544M	545M	546	552M	553M	554
	564M	565M	576M	577M	581M	582M	588	616M	617M	618	626	687M	688M	689	750M	751M	752	833M
	835B	874M	875M	876M	877M	913M	914	952M	953M	954M	955M	955M	956	958	960	988M	989M	990M
	990M	991	996M	997M	998M	998M	1001	1009	1029M	1030M	1031M	1034	1042	1056M	1057M	1058M	1058M	1058M
	1063	1066	1079M	1080M	1081	1083M	1084M	1085	1117M	1118	1122M	1123M	1124	1138M	1139	1155M	1156	1178M
	1179M	1180	1185M	1186M	1187	1188	1191M	1192M	1193M	1193M	1194	1202M	1203M	1204	1209M	1210M	1211	1233M
	1235	1238	1240	1244	1246M	1269M	1271	1275M	1277M	1278	1319M	1321	1345M	1347	1352M	1352M	1355M	1356M
	1357	1371M	1372M	1375M	1376M	1377	1396M	1397M	1398	1424M	1425M	1426	1427M	1431M	1499M	1500M	1501M	1505M
	1506M	1508M	1511M	1525M	1526M	1527M	1585M	1586M	1587M	1591M	1593	1603M	1606M	1607M	1608	1626M	1627M	1630M
	1631M	1632	1655M	1656M	1657M	1658	1659M	1660	1661M	1662	1663M	1664	1665M	1666	1667M	1668	1671M	1672
	1674M	1675	1676M	1689	1698M	1700	1707	1708	1713M	1716	1717	1723M	1724M	1725	1753M	1766	1817M	1818
	1819M	1821M	1833	1835	1836	1837	1838	1839	1840	1843M	1844M	1845	1846M	1847	1851M	1852	1880M	1893
	1959M	1960	1968M	1969	1970M	1971	1972	1973	1978	1981	1982	1983	1984M	1985	1988M	1989M	1993M	1994
	1998M	1999M	2000	2003	2006M	2007M	2008	2015B	2026B	2069	2079M	2081	2084M	2085	2290M	2291	2314M	2315M
	2317	2319M	2320	2321M	2322	2324	2344M	2345	2347	2390M	2391	2438M	2439	2448M	2449	2553M	2554	2648
	2651M	2652M	2653	2654M	2655M	2656	2663M	2666	2677M	2768								
6(6)	416M	417	434M	435M	436	437	566M	578M	618M	619M	620M	625M	1078M	1080	1084	1234M	1235M	1236M
	1236M	1237	1241M	1242M	1243	1349M	1350	1358M	1359	1360	1361	1363	1373M	1378M	1427M	1428	1431M	1432
	1436	1501M	1502	1508M	1509	1511M	1512	1516	1520	1527M	1528	1587M	1588	1628M	1653M	1657	1670	1677M
	1690	1699M	1700M	1702	1704	1705	1706M	1707	1709	1710	1711	1714M	1715M	1716	1718M	1754M	1767	1815M
	1816	1817	1822M	1823M	1824M	1881M	1894	1962M	1963M	1964	1966M	1967M	1968	1970	1971	1974M	1976	1977M
	1978	2056M	2070	2080M	2081M	2082M	2082M	2083	2376M	2377M	2383	2393	2567M	2568	2569	2574	2581	2582
	2587	2590	2601	2602	2607	2648	2657M	2662	2663M	2666M	2738	2756M						
7(7)	655M	656	658	673	702M	703M	704	707M	708M	709	710M	711	731M	732M	733	736M	737M	738
	739	741	742M	743	783	786	829M	834	836M	842M	847	849	855	857	867M	874	892	930
	979	1103	1115	1120	1122	1126	1136	1360	1457M	1467	1475	1476M	1481	1495M	1497M	1500	1503	1805M
	1806	1807	1810	1818M	1820M	1833	1835	1836	1837	1838	1839	1840	1914	1941M	1991M	1993M	2096M	2113M
	2117M	2121M	2122	2128M	2136M	2137M	2141M	2151M	2188M	2207M	2225	2235M	2239	2291M	2354	2359M	2360	2369
	2384M	2405	2409M	2436	2483M	2499	2503	2510	2521M	2522	2532M	2533M	2535	2571M	2572	2574M	2582	2587M
	2588	2590M	2591	2595M	2601M	2602	2607M	2608	2610	2620M	2621	2622						
8(8)	356M	667M	668	670	671M	672	673	678	679	684M	768M	827	838	864	944	1015M	1016	1020
	1024	1076	1082	1083	1105M	1111	1113M	11										

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X30 Dsect Cross Reference						PAGE	52
Dsect	Length	Id	Defn	Con	Member	X390 3.1.04	2012/08/17 13.13
WORKAREA	00000CB6	FFFFFFFF	3226		PRIMARY INPUT		

Con	Source	Members								X390	3.1.04	2012/08/17	13.13
1	SYS1.MACLIB	CHECK POINT	CLOSE PUT	DCB READ	FREEMAIN SPIE	GETMAIN WRITE	IEZREGS XCTL	IHBINNRA	IHBINNRB	IHBRDWS	IHB01	NOTE	
2	SYSD.TOOLS.MACLIB												
3	SYSD.ALGOLF.ASM												
4	SYSD.ALGOLF.MACLIB	IEXCGEN	IEXCHAR	IEXENTRY	WORKAREA								
5	SYSD.ALGOFRT.MACLIB												
6	SYS1.AMODGEN												

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.13
118		USING	Ordinary	00000001	00000000	00003000	10	00FE0	2496	IEX30000, R10, R11, R12			
118		USING	Ordinary	00000001	00001000		11	00FFC	2766				
118		USING	Ordinary	00000001	00002000		12	005AC	2767				
125		USING	Ordinary	FFFFFFFF	00000000	00001000	13	006CD	2734	WORKAREA, R13			

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1X30 STEPNAME: IEX30 PROCSTEP: X390

Primary input: lines 1 to 3071 of SYSD.ALGOLF.ASM(IEX30)

SYSLIB library records read: 4614

SYSUT1 work file size: 372833 bytes

SYSUT2 work file size: 382874 bytes

SYSUT3 work file size: 245680 bytes

SYSLIN file records written: 208

TXA000I Return code 0, elapsed time 8.08 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX30000 0025EB 5



**IEX31**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX31)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131313.RA000.T1X31.OBJECT
SYSPRINT	JES2.JOB09275.S00102
SYSUT1	SYS12230.T131313.RA000.T1X31.SYSUT1
SYSUT2	SYS12230.T131313.RA000.T1X31.SYSUT2
SYSUT3	SYS12230.T131313.RA000.T1X31.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
2	*						00002001
3	*				COMPONENT ID -	360S-AL-531 ALGOL F COMPILER	00003001
4	*						00004001
5	*				FUNCTION/OPERATION -		00005001
6	*				THE ERROR PATTERNS GENERATED DURING SCANIII ARE HANDLED		00006001
7	*				AND THE CORRESPONDING DIAGNOSTIC MESSAGES ARE		00007001
8	*				GENERATED		00008001
9	*						00009001
10	*				ENTRY POINT -	IEX31000 - ERROR MESSAGE EDITING	00010001
11	*				XCTL EP=	IEX31	00011001
12	*					THE MODULE IS ENTERED FROM IEX30	00012001
13	*						00013001
14	*				INPUT -	N/A	00014001
15	*						00015001
16	*				OUTPUT -		00016001
17	*				THE DIAGNOSTIC MESSAGES ARE PUT OUT ON SYSPRINT. IF		00017001
18	*				SYSPRINT IS DOWN, THIS IS REPORTED WITH A WTO		00018001
19	*						00019001
20	*				EXTERNAL ROUTINE -	THE PRINT ROUTINE IN IEX00 IS USED	00020001
21	*						00021001
22	*				EXIT -	NORMAL -	00022001
23	*				IF NO TERMINATING ERROR HAS OCCURRED CONTROL IS GIVEN		00023001
24	*				TO THE NEXT PHASE BY MEANS OF	XCTL EP=IEX40.	00024001
25	*						00025001
26	*				EXIT -	ERROR -	00026001
27	*				IF A TERMINATING ERROR HAS OCCURRED (IN THIS MODULE OR		00027001
28	*				THE PRECEDING) CONTROL IS GIVEN TO THE TERMINATING		00028001
29	*				MODULE BY MEANS OF	XCTL EP=51002.	00029001
30	*						00030001
31	*				TABLES/WORKAREAS -		00031001
32	*				THE MESSAGE TEXTS WITH CORRESPONDING ADDRESS TABLE ARE		00032001
33	*				IN THE LOAD MODULE	IEX31M	00033001
34	*				THE ERROR MESSAGE EDITING ROUTINE, CSECT	IEX60000, ALSO	00034001
35	*				USES THE FOLLOWING TABLES -		00035001
36	*				WINTIBC -	TRANSLATION OF INTERNAL CHARACTERS TO EBCDIC	00036001
37	*				WSYMSRC -	TRANSLATION OF INTERNAL SYMBOLS TO EBCDIC	00037001
38	*				WSYMBSTK -	TRANSLATION OF INTERNAL SYMBOLS TO EBCDIC	00038001
39	*				WORDSEBC -	TRANSLATION OF COMPOUND SYMBOLS IF SOURCE	00039001
40	*					IN EBCDIC	00040001
41	*				WORDSISO -	TRANSLATION OF COMPOUND SYMBOLS IF SOURCE	00041001
42	*					IN ISOCODE	00042001
43	*				WEBCDIC -	TRANSLATION EBCDIC - EBCDIC	00043001
44	*				A WORKAREA OF 270 BYTES, WAREA, IS USED FOR BUILDING		00044001
45	*				THE MESSAGES		00045001
46	*						00046001
47	*				ATTRIBUTES -	NONE	00047001
48	*						00048001
49	*				NOTES -		00049001
50	*				CHARACTER CODE DEPENDENCE. FOR THE BUILDING OF A		00050001
51	*				MESSAGE (CODE PART BETWEEN COT03 AND COT12) THE		00051001
52	*				FOLLOWING APPLIES. IN CASE NO SOURCE INFORMATION IS TO		00052001
53	*				BE INSERTED (COT31), OR IF THE INFORMATION IS EBCDIC-		00053001
54	*				CHARACTERS (COT07), THE OPERATION OF CSECT	IEX60000	00054001
55	*				DEPENDS UPON AN INTERNAL REPRESENTATION OF THE EXTERNAL		00055001
56	*				CHARACTER SET WHICH IS EQUIVALENT TO THE ONE USED AT		00056001
57	*				ASSEMBLY TIME.		00057001
58	*						00058001
59	*				IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL		00059001
60	*				CHARACTERS (COT33) THE OPERATION OF CSECT	IEX60000	00060001
61	*				DEPENDS UPON A TRANSLATION FROM THE INTERNAL		00061001
62	*				REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF		00062001
63	*				THE TABLE 'WINTIBC'.		00063001
64	*						00064001
65	*				IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL		00065001
66	*				ALGOL SYMBOLS (COT10) THE OPERATION OF CSECT	IEX60000	00066001
67	*				DEPENDS UPON A TRANSLATION FROM THE INTERNAL		00067001
68	*				REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF		00068001
69	*				THE TABLES 'WSYMBSTK'/'WSYMSRC' AND 'WORDSISO'/'WORDSEBC'.		00069001
70	*						00070001
71	*				FOR THE OUTPUT OF A MESSAGE (CODE PART BETWEEN COT12		00071001
72	*				AND COT21) THE FOLLOWING APPLIES.		00072001
73	*				WHEN A MESSAGE HAS BEEN BUILT IN EBCDIC, AN EBCDIC -		00073001
74	*				EBCDIC TRANSLATION IS PERFORMED BEFORE OUTPUT BY MEANS		00074001
75	*				OF THE TABLE 'WEBCDIC'. THUS THE OUTPUT MAY BE MODIFIED		00075001
76	*				BY MAKING CHANGES IN THIS TABLE.		00076001
77	*						00077001
78	*				THE OPERATION OF CSECT	IEX31000 DOES NOT DEPEND UPON A	00078001
79	*				PARTICULAR INTERNAL REPRESENTATION OF THE EXTERNAL		00079001
80	*				CHARACTER SET.		00080001
81	*						00081001
82	*				AT SYSTEM GENERATION THIS MODULE WILL BE LINKED		00082001
83	*				TOGETHER WITH THE MODULE	IEX31M TO FORM THE MODULE	00083001
84	*				IEX31.		00084001
85	*						00085001
86	*				THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN		00086001
87	*				CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER,		00087001
88	*				IN PARTICULAR IT REQUIRES THE COMMON WORKAREA		00088001
89	*						00089001
000000		00000	0005C		IEX31000	CSECT	00090001
				91	*		00091001
				92		IEXENTRY 'IEX31000 LEVEL 2.1 &SYSDATE &SYSTIME'	00092001
				93+	*		01-IEXEN
000000	47F0 F026		00026	94+	B	38(,R15)	01-IEXEN
000004	21			95+	DC	AL1(33)	01-IEXEN
000005	C9C5E7F3F1F0F0F0			96+	DC	CL33'IEX31000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
				+		IDENTIFIER	01-IEXEN

Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

				97 *			00093001
				98	USING	IEX31000,R15	00094001
				99 *			00095001
000026	5820 F058		00058	100	L	R2,=A(IEX60000)	00096001
00002A	41E0 F034		00034	101	LA	R14,SUSCR	00097001
00002E	4110 F04C		0004C	102	LA	R1,ERRINFO	00098001
000032	07F2			103	BR	R2	00099001
				104 *			00100001
000034				105	DC	0F'0'	00101001
				106 *			00102001
				107 *		INITIALIZATION OF SUBSCR HANDLING	00103001
				108 *			00104001
				109 SUSCR	XCTL	EP=IEX40000	00105001
000034				110+SUSCR	DS	0H	01-XCTL
000034				111+	CNOP	0,4	02-IHBIN
000034	45F0 F048		00048	112+	BAL	15,*+20	02-IHBIN
000038	00000040			113+	DC	A(*+8)	02-IHBIN
00003C	00000000			114+	DC	A(0)	02-IHBIN
000040	C9C5E7F4F0F0F0F0			115+	DC	CL8'IEX40000'	02-IHBIN
000048	0A07			116+	SVC	7	01-XCTL
				117 *			00106001
00004A	0000						
00004C	00000000			118 ERRINFO	DC	V(IEX31M00)	00107001
000050	00000000			119	DC	V(IEX31M01)	00108001
000054	0077			120	DC	H'119'	00109001
				121 *			00110001
000058				122	LTORG		00111001
000058	00000060			123		=A(IEX60000)	
				124 *			00112001
				125	COPY	IEX60000	00113001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13	
				127=*				00002001	
				128=*		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER		00003001	
				129=*				00004001	
000060		00060	00824	130=	IEX60000	CSECT		00005001	
				131=*				00006001	
	R:2	00060		132=		USING IEX60000,R2		00007001	
				133=*				00008001	
				134=*		REGISTER DEFINITIONS		00009001	
				135=*				00010001	
				136=*	R1	POINTS TO PARAMETER LIST		00011001	
				137=*	R1	RETURNS ADDR OF PRINT BUFFER		00012001	
				138=*	R2	BASE REGISTER FOR COTEMER		00013001	
				139=*	R4	BASE REGISTER FOR MESSAGE POOL		00014001	
				140=*	R5	POINTER TO ENTRY IN ERROR POOL		00015001	
				141=*	R6	POINTER TO INSERTION CODE		00016001	
				142=*	R7	POINTER TO ENTRY IN MSG POOL		00017001	
				143=*	R14	PTR TO MESSAGE TEXT WORKAREA		00018001	
				144=*				00019001	
				145=*		INITIALIZATION		00020001	
				146=*				00021001	
	R:D	00000		147=		USING WORKAREA,R13	BASEREG FOR WORKAREA DSECT	00022001	
000060	D209	2518	1000	00578	00000	148=	MVC AWEMPOOL(10),0(R1)	GET ADDR AND MOD NUMBER	00023001
000066	4190	233E		0039E	149=COT00	LA R9,WDIRET1	STORE RETURN ADDR	00024001	
00006A	5090	D090		00090	150=	ST R9,ERET	IN WORKAREA	00025001	
00006E	90EF	252C		0058C	151=	STM R14,R15,SVAR1	SAVE RETURN ADDR AND BASE	00026001	
000072	9190	D082		00082	152=	TM COMPFLGS+2,PRT+PRTNO	SYSPRINT DOWN/NOT OPENED ?	00027001	
000076	4770	2346		003A6	153=	BNZ COT18	YES, GIVE CONSOLE MESSAGE	00028001	
00007A	5850	D08C		0008C	154=	L R5,ERRPOOL	ADDR ERROR POOL	00029001	
00007E	5550	D0C0		000C0	155=	CL R5,NEXTERR	ERROR POOL EMPTY ?	00030001	
000082	4780	231C		0037C	156=	BE COT28	YES	00031001	
000086	D50A	D133	24DE	00133	0053E	157=	CLC PAGEHEAD+39(L'HEAD1),HEAD1	HEADINGS ALREADY SET ?	00032001
00008C	4780	2056		000B6	158=	BE COT01	YES, BYPASS HEADINGS	00033001	
000090	92FF	D099		00099	159=	MVI LINCNT+1,255	FORCE HEADINGS TO BE PRINTED	00034001	
000094	9240	D10D		0010D	160=	MVI PAGEHD1C+1,C' '	BLANK FIRST HEADING LINE	00035001	
000098	D26C	D10E	D10D	0010E	0010D	161=	MVC PAGEHD1C+2(109),PAGEHD1C+1	00036001	
00009E	D263	D190	D117	00190	00117	162=	MVC PAGEHD2D(L'PAGEHD2D),PAGEHD1D	BLANK 2ND HEADING LINE	00037001
0000A4	D263	D209	D117	00209	00117	163=	MVC PAGEHD3D(L'PAGEHD3D),PAGEHD1D	BLANK 3RD HEADING LINE	00038001
0000AA	D20A	D13E	24DE	0013E	0053E	164=	MVC PAGEHD1D+39(L'HEAD1),HEAD1	MOVE IN HEAD1	00039001
0000B0	D21A	D190	24E9	00190	00549	165=	MVC PAGEHD2D(L'HEAD2),HEAD2	MOVE IN HEAD2	00040001
					166=*			00041001	
					167=*		HANDLING OF THE ENTRIES IN ERROR POOL	00042001	
					168=*			00043001	
0000B6	5840	2518		00578	169=COT01	L R4,AWEMPOOL	ADDR ERROR MESSAGE POOL	00044001	
0000BA	1B77				170=	SR R7,R7		00045001	
0000BC	4370	5001		00001	171=	IC R7,1(,R5)	GET ERROR MSG NUMBER	00046001	
0000C0	41A0	00C8		000C8	172=	LA R10,200		00047001	
0000C4	197A				173=	CR R7,R10	DIRECTORY MESSAGE ?	00048001	
0000C6	4740	2070		000D0	174=	BL COT36	NO	00049001	
0000CA	48A0	2520		00580	175=	LH R10,MODNUMB	YES, MODIFY NUMBER	00050001	
0000CE	1B7A				176=	SR R7,R10		00051001	
0000D0	8970	0002		00002	177=COT36	SLL R7,2	GET IT FOUR TIMES	00052001	
0000D4	5890	251C		0057C	178=	L R9,AWADDTAB	ADDR ADDR TABLE	00053001	
0000D8	1A79				179=	AR R7,R9	GET CORRECT ENTRY	00054001	
0000DA	5870	7000		00000	180=	L R7,0(,R7)	LOAD ADDR TO ENTRY IN ERMSG POOL	00055001	
					181=*			00056001	
					182=*		GET LENGTH OF INSERT CODE PART	00057001	
					183=*			00058001	
0000DE	4160	7002		00002	184=COT02	LA R6,2(,R7)	POINT TO FIRST INSERTION CODE	00059001	
0000E2	1B99				185=	SR R9,R9		00060001	
0000E4	4390	7001		00001	186=	IC R9,1(,R7)	GET NUMBER OF INSERTION CODES	00061001	
0000E8	18A9				187=	LR R10,R9		00062001	
0000EA	18C9				188=	LR R12,R9		00063001	
0000EC	41C0	C001		00001	189=	LA R12,1(,R12)	SET INSERTION CODE COUNTER	00064001	
0000F0	8990	0001		00001	190=	SLL R9,1	DOUBLE IT	00065001	
0000F4	1A9A				191=	AR R9,R10	GET IT 3 TIMES	00066001	
					192=*			00067001	
					193=*		HANDLE SEVERITY CODE	00068001	
					194=*			00069001	
0000F6	41A9	7002		00002	195=COT03	LA R10,2(R9,R7)	GET ADDR TO BYTE BEFORE TEXT	00070001	
0000FA	D200	23D9	A000	00439	00000	196=	MVC WAREA+9(1),0(R10)	INSERT SEVERITY CODE	00071001
000100	95E6	A000		00000	197=	CLI 0(R10),C'W'		00072001	
000104	4770	20B0		00110	198=	BNE COT03A		00073001	
000108	9620	D080		00080	199=	OI COMPFLGS,WERR	SET WARNING MESSAGE	00074001	
00010C	47F0	20C8		00128	200=	B COT04		00075001	
					201=*			00076001	
000110	95E2	A000		00000	202=COT03A	CLI 0(R10),C'S'		00077001	
000114	4770	20C4		00124	203=	BNE COT03B		00078001	
000118	9610	D080		00080	204=	OI COMPFLGS,SERR	SET SEVERE ERROR	00079001	
00011C	9680	D080		00080	205=	OI COMPFLGS,COMPmode	SET SYNTAX CHECK MODE	00080001	
000120	47F0	20C8		00128	206=	B COT04		00081001	
					207=*			00082001	
000124	9608	D080		00080	208=COT03B	OI COMPFLGS,TERR	SET BIT FOR TERMINATING ERROR	00083001	
					209=*			00084001	
					210=*		INSERTION OF MSG NUMBER AND SEMICOLON COUNTER	00085001	
					211=*			00086001	
000128	1BA4				212=COT04	SR R10,R10	CLEAR REG	00087001	
00012A	43A5	0001		00001	213=	IC R10,1(R5)	GET ERROR MSG NUMBER	00088001	
00012E	4EA0	23C8		00428	214=	CVD R10,WDEC+8		00089001	
000132	F327	23D3	23C8	00433	00428	215=	UNPK WAREA+3(3),WDEC+8(8)	CONVERT TO PRINTABLE DECIMAL	00090001
000138	96F0	23D5		00435	216=	OI WAREA+5,X'F0'	MAKE CHAR PRINTABLE	00091001	
00013C	9180	5000		00000	217=	TM 0(R5),X'80'	BLANKS FOR SC ?	00092001	
000140	4780	20F2		00152	218=	BZ COT26	NO	00093001	
000144	D204	23DC	2534	0043C	00594	219=	MVC WAREA+12(5),BLANKS	YES, MOVE BLANKS	00094001
00014A	947F	5000		00000	220=	NI 0(R5),X'7F'	REMOVE TAG	00095001	
00014E	47F0	2104		00164	221=	B COT31		00096001	
					222=*			00097001	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000152	48A0 5002		00002	223=COT26	LH	R10,2(,R5)	GET SEMICOLON COUNTER 00098001
000156	4EA0 23C8		00428	224=	CVD	R10,WDEC+8	00099001
00015A	F347 23DC	23C8 0043C	00428	225=	UNPK	WAREA+12(5),WDEC+8(8)	CONVERT TO READABLE DECIMAL 00100001
000160	96F0 23E0		00440	226=	OI	WAREA+16,X'F0'	MAKE CHAR PRINTABLE 00101001
				227=*			00102001
				228=*		INSERTION OF FIXED MESSAGE	00103001
				229=*			00104001
000164	41E0 23E4		00444	230=COT31	LA	R14,WAREA+20	POINT TO FIRST TEXTBYTE IN WAREA 00105001
000168	9500 7001		00001	231=	CLI	1(R7),0	ANY INSERTION CODE ? 00106001
00016C	4770 2126		00186	232=	BNE	COT05	YES 00107001
000170	41A0 7003		00003	233=	LA	R10,3(,R7)	GET ADDR OF MSG TXT 00108001
000174	18BB			234=	SR	R11,R11	00109001
000176	43B0 7000		00000	235=	IC	R11,0(,R7)	GET L'ENTRY 00110001
00017A	1AB7			236=	AR	R11,R7	GET NEXT ENTRY 00111001
00017C	18BA			237=	SR	R11,R10	GET L'MSG TXT 00112001
00017E	44B0 23AC		0040C	238=	EX	R11,WMOVE1	MOVE MSG TXT TO WORKAREA 00113001
000182	41EB E001		00001	239=	LA	R14,1(R11,R14)	UPDATE WAREA POINTER 00114001
000186	46C0 212E		0018E	240=COT05	BCT	R12,COT06	GOTO INS CODE TREATMENT IF ANY 00115001
00018A	47F0 222E		0028E	241=	B	COT12	ALL INS CODES TREATED 00116001
				242=*			00117001
				243=*		INSERTION CODE TREATMENT	00118001
				244=*			00119001
				245=*		TEST ACTION PART OF INSERT CODE	00120001
				246=*			00121001
00018E	4190 000F		0000F	247=COT06	LA	R9,15	LOAD REG TO ZERO HIGHORDER BITS 00122001
000192	1BAA			248=	SR	R10,R10	00123001
000194	18BB			249=	SR	R11,R11	00124001
000196	91F0 6000		00000	250=	TM	0(R6),X'F0'	00125001
00019A	4710 215A		001BA	251=	BO	COT37	GOTO 'INSERT BLANKS' 00126001
00019E	4780 2174		001D4	252=	BZ	COT30	GOTO 'INSERT MESSAGE TEXT' 00127001
0001A2	9180 6000		00000	253=	TM	0(R6),X'80'	00128001
0001A6	4710 2190		001F0	254=	BO	COT07	GOTO 'UNALTERED TEXT' 00129001
0001AA	9140 6000		00000	255=	TM	0(R6),X'40'	00130001
0001AE	4710 21A6		00206	256=	BO	COT10	GOTO 'ALGOL SYMBOL' 00131001
0001B2	9120 6000		00000	257=	TM	0(R6),X'20'	00132001
0001B6	4710 220E		0026E	258=	BO	COT33	GOTO 'INTERNAL CHARACTERS' 00133001
				259=*			00134001
				260=*		INSERTION OF BLANKS AT END OF PRTLIN	00135001
				261=*			00136001
0001BA	4130 242A		0048A	262=COT37	LA	R3,WAREA+90	CALC FREE SPACE ON 1ST PRT LINE 00137001
0001BE	1B3E			263=	SR	R3,R14	00138001
0001C0	47D0 2188		001E8	264=	BNP	COT09	BYPASS BLANKING IF LINE FULL 00139001
0001C4	9240 E000		00000	265=COT38	MVI	0(R14),C' '	INSERT BLANK 00140001
0001C8	41E0 E001		00001	266=	LA	R14,1(,R14)	STEP WAREA POINTER 00141001
0001CC	4630 2164		001C4	267=	BCT	R3,COT38	BRANCH IF 1ST PRT LINE NOT FULL 00142001
0001D0	47F0 2188		001E8	268=	B	COT09	GOTO NEXT INS CODE 00143001
				269=*			00144001
				270=*		INSERTION OF MESSAGE TEXT PART	00145001
				271=*			00146001
0001D4	43A0 6002		00002	272=COT30	IC	R10,2(,R6)	00147001
0001D8	41A0 7000		00000	273=	LA	R10,0(R10,R7)	GET ADDR OF TEXT PART 00148001
0001DC	43B0 6001		00001	274=	IC	R11,1(,R6)	GET L'TEXT PART 00149001
0001E0	44B0 23AC		0040C	275=COT08	EX	R11,WMOVE1	MOVE TO WORKAREA 00150001
0001E4	41EB E001		00001	276=COT35	LA	R14,1(R11,R14)	UPDATE WORKAREA POINTER 00151001
0001E8	4160 6003		00003	277=COT09	LA	R6,3(,R6)	UPDATE INS CODE POINTER 00152001
0001EC	47F0 2126		00186	278=	B	COT05	GOTO NEXT INS CODE 00153001
				279=*			00154001
				280=*		UNALTERED TEXT	00155001
				281=*			00156001
0001F0	43B0 5000		00000	282=COT07	IC	R11,0(,R5)	GET LENGTH OF SOURCE TEXT 00157001
0001F4	41A0 0005		00005	283=	LA	R10,5	00158001
0001F8	18BA			284=	SR	R11,R10	00159001
0001FA	4740 2188		001E8	285=	BM	COT09	NO MOVE IF NO SOURCE TEXT 00160001
0001FE	41A0 5004		00004	286=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00161001
000202	47F0 2180		001E0	287=	B	COT08	MOVE TEXT, GOTO NEXT INS CODE 00162001
				288=*			00163001
				289=*		ALGOL SYMBOL	00164001
				290=*			00165001
000206	9102 D082		00082	291=COT10	TM	COMPLFGLS+2,SET60	60 CHARACTER SET USED ? 00166001
00020A	4710 2186		00216	292=	BO	COT32	YES, BRANCH 00167001
00020E	41B0 263C		0069C	293=	LA	R11,WORDSISO	USE ISO TABLE 00168001
000212	47F0 218A		0021A	294=	B	COT32A	00169001
				295=*			00170001
000216	41B0 2554		005B4	296=COT32	LA	R11,WORDSEBC	USE EBCDIC TABLE 00171001
00021A	4130 25F6		00656	297=COT32A	LA	R3,WSYMBSTK	TABLE FOR STACK OPERATOR 00172001
00021E	43A0 6000		00000	298=	IC	R10,0(,R6)	GET ONE BYTE ALGOL SYMBOL 00173001
000222	14A9			299=	NR	R10,R9	00174001
000224	43AA 5000		00000	300=	IC	R10,0(R10,R5)	00175001
000228	42A0 23C0		00420	301=	STC	R10,WDEC	00176001
00022C	9180 23C0		00420	302=	TM	WDEC,X'80'	SOURCE OPERATOR ? 00177001
000230	4780 21E0		00240	303=	BZ	COT32B	NO 00178001
000234	4130 2598		005F8	304=	LA	R3,WSYMBSRC	YES, CHANGE TABLE 00179001
000238	947F 23C0		00420	305=	NI	WDEC,X'7F'	REMOVE TAG 00180001
00023C	43A0 23C0		00420	306=	IC	R10,WDEC	00181001
000240	89A0 0001		00001	307=COT32B	SLL	R10,1	MULTIPLY BY 2 00182001
000244	48AA 3000		00000	308=	LH	R10,0(R10,R3)	CONVERT TO EBCDIC OR DISPLACEMT 00183001
000248	4190 0100		00100	309=	LA	R9,256	TEST KIND OF SYMBOL 00184001
00024C	15A9			310=	CLR	R10,R9	00185001
00024E	4740 2204		00264	311=	BL	COT11	ONE CHARACTER SYMBOL 00186001
000252	41AA B000		00000	312=	LA	R10,0(R10,R11)	ADDR WORDS ENTRY 00187001
000256	18BB			313=	SR	R11,R11	00188001
000258	43B0 A000		00000	314=	IC	R11,0(,R10)	GET LENGTH OF SYMBOL 00189001
00025C	41A0 A001		00001	315=	LA	R10,1(,R10)	GET ADDR OF SYMBOL 00190001
000260	47F0 2180		001E0	316=	B	COT08	MOVE SYMB, GOTO NEXT INS CODE 00191001
				317=*			00192001
000264	18BB			318=COT11	SR	R11,R11	GET LENGTH-1 OF ONE-CHAR SYMBOL 00193001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000266	42A0 E000		00000	319=	STC	R10,0(,R14)	MOVE SYMBOL TO MSG AREA 00194001
00026A	47F0 2184		001E4	320=	B	COT35	GOTO NEXT INS CODE 00195001
				321=*			00196001
				322=*		INTERNAL CHARACTERS	00197001
				323=*			00198001
00026E	4190 0005		00005	324=COT33	LA	R9,5	00199001
000272	43B0 5000		00000	325=	IC	R11,0(,R5)	GET NUMBER OF INT CHARACTERS-1 00200001
000276	18B9			326=	SR	R11,R9	00201001
000278	42B0 2225		00285	327=	STC	R11,COT34+1	STORE IT IN TRANSLATE INSTR 00202001
00027C	41A0 5004		00004	328=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00203001
000280	44B0 23AC		0040C	329=	EX	R11,WMOVE1	00204001
000284	DC00 E000	2539 00000	00599	330=COT34	TR	0(0,R14),TRINTEXT	TRANSLATE 00205001
00028A	47F0 2184		001E4	331=	B	COT35	UPDATE PTR, GOTO NEXT INS CODE 00206001
				332=*			00207001
				333=*		TRANSLATION AND OUTPUT OF MESSAGE	00208001
				334=*			00209001
00028E	9180 2522	00582		335=COT12	TM	SWT0,X'80'	MESSAGE TO CONSOLE ? 00210001
000292	4710 2286		002E6	336=	BO	COT25	YES 00211001
				337=*			00212001
				338=*		MESSAGE TO SYSPRINT	00213001
				339=*			00214001
000296	18BE			340=COT16	LR	R11,R14	00215001
000298	4190 23E4		00444	341=	LA	R9,WAREA+20	GET L'MESSAGE TEXT 00216001
00029C	18B9			342=	SR	R11,R9	00217001
00029E	4190 0046		00046	343=	LA	R9,70	GET L'TEXT ON FIRST LINE 00218001
0002A2	18B9			344=	SR	R11,R9	SUBTRACT IT 00219001
0002A4	4190 0059		00059	345=	LA	R9,89	GET L'PRINTLINE 00220001
0002A8	41A0 23D0		00430	346=	LA	R10,WAREA	GET ADDR OF ERROR MESSAGE 00221001
0002AC	45F0 22E6		00346	347=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00222001
0002B0	12BB			348=	LTR	R11,R11	L'MSG TXT > 70 ? 00223001
0002B2	47B0 2258		002B8	349=	BNL	COT17	YES 00224001
0002B6	1E9B			350=	ALR	R9,R11	OBTAIN PRTLINE LENGTH IF < 90 00225001
0002B8	4490 23B2		00412	351=COT17	EX	R9,WMOVE3	MOVE FIRST PART OF ERROR MSG 00226001
0002BC	41A9 A001		00001	352=COT20	LA	R10,1(R9,R10)	INCREASE ADDR IN WORKAREA 00227001
0002C0	12BB			353=	LTR	R11,R11	MORE TEXT TO BE MOVED ? 00228001
0002C2	47D0 22F6		00356	354=	BNH	COT21	NO 00229001
0002C6	4190 0046		00046	355=	LA	R9,70	YES, GET L'NEXT PRTLINE 00230001
0002CA	18B9			356=	SR	R11,R9	SUBTRACT IT FROM REMAIN TXTLGT 00231001
0002CC	45F0 22E6		00346	357=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00232001
0002D0	12BB			358=	LTR	R11,R11	LENGTH > 70 ? 00233001
0002D2	47B0 2278		002D8	359=	BNL	COT19	YES 00234001
0002D6	1E9B			360=	ALR	R9,R11	OBTAIN LENGTH IF LESS THAN 70 00235001
0002D8	41F0 0001		00001	361=COT19	LA	R15,1	MODIFY LENGTH FOR MOVE INSTR 00236001
0002DC	1B9F			362=	SR	R9,R15	00237001
0002DE	4490 23B8		00418	363=	EX	R9,WMOVE4	MOVE TEXT TO OUTPUT BUFFER 00238001
0002E2	47F0 225C		002B8	364=	B	COT20	PUT OUT NEXT TEXTLINE IF ANY 00239001
				365=*			00240001
				366=*		MESSAGE TO WTP	00241001
				367=*			00242001
0002E6	41B0 B028		00028	368=COT25	LA	R11,40(,R11)	GET LENGTH FOR MOVE INSTRUCTION 00243001
0002EA	44B0 22DC		0033C	369=	EX	R11,EXMVC	00244001
				370=*			00245001
				371=COT24	WTO	'	X00246001
				=		' ,ROUTCDE=11,DESC=7	00247001
						ISSUE WTP	
0002EE	0700			372+	CNOP	0,4	01-WTO
0002F0	4510 22DA		0033A	373+COT24	BAL	1,IHB0004A	BRANCH AROUND MESSAGE 01-WTO
0002F4	0042			374+	DC	AL2(66)	TEXT LENGTH 01-WTO
0002F6	8000			375+	DC	B'1000000000000000'	MCS FLAGS 01-WTO
0002F8	4040404040404040			376+	DC	C'	+01-WTO
				+		'	01-WTO
000336	0200			377+	DC	B'000001000000000'	DESCRIPTOR CODES 01-WTO
000338	0020			378+	DC	B'000000000100000'	ROUTING CODES 01-WTO
00033A				379+IHB0004A	DS	0H	01-WTO
00033A	0A23			380+	SVC	35	01-WTO
				381=*			00248001
00033C	D200 2298 23D0 002F8	00430		382=EXMVC	MVC	COT24+8(0),WAREA	MOVE MESSAGE 00249001
				383=*			00250001
000342	47F0 2396		003F6	384=	B	WDIRET2	TERMINATE 00251001
				385=*			00252001
				386=*		OBTAIN OUTPUT BUFFER	00253001
				387=*			00254001
000346	90EF 2524		00584	388=COT27	STM	R14,R15,SVAR2	SAVE REGS FOR CALL OF PRINT RTN 00255001
00034A	58F0 D0B8		000B8	389=	L	R15,PRTRTADD	LOAD ADDR OF PRINT ROUTINE 00256001
00034E	05EF			390=	BALR	R14,R15	CALL PRINT ROUTINE 00257001
000350	98EF 2524		00584	391=	LM	R14,R15,SVAR2	RESTORE REGS 00258001
000354	07FF			392=	BR	R15	00259001
				393=*			00260001
				394=*		GOTO NEXT MESSAGE OR TERMINATE	00261001
				395=*			00262001
000356	1899			396=COT21	SR	R9,R9	00263001
000358	4390 5000		00000	397=	IC	R9,0(,R5)	GET L'TREATED ENTRY 00264001
00035C	1A59			398=	AR	R5,R9	POINT TO NEXT ENTRY 00265001
00035E	5890 D0C0		000C0	399=	L	R9,NEXTERR	GET ADDR OF FIRST FREE ENTRY 00266001
000362	1959			400=	CR	R5,R9	NEXT ENTRY = FIRST FREE ? 00267001
000364	4740 2056		000B6	401=	BL	COT01	NO, HANDLE NEXT ENTRY 00268001
000368	41A0 2396		003F6	402=	LA	R10,WDIRET2	LOAD NEW RETURN ADDR 00269001
00036C	50A0 D090		00090	403=	ST	R10,ERET	00270001
000370	58A0 D0BC		000BC	404=	L	R10,ERRPOOL	YES, POOL EXHAUSTED, ZERO PTR 00271001
000374	50A0 D0C0		000C0	405=	ST	R10,NEXTERR	00272001
000378	9108 D080		00080	406=	TM	COMPFLGS,TERR	TERMINATING ERROR ? 00273001
00037C	98EF 252C		0058C	407=COT28	LM	R14,R15,SVAR1	LOAD RETURN ADDR AND BASE 00274001
000380	4710 2326		00386	408=	BO	COT29	YES 00275001
000384	07FE			409=	BR	R14	RETURN 00276001
				410=*			00277001
				411=COT29	XCTL	EP=IEX51002	BRANCH TO TERMINATION 00278001
000386				412+COT29	DS	0H	01-XCTL



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000386	0700			413+	CNOP	0,4	02-IHBIN
000388	45F0 233C		0039C	414+	BAL	15,*+20	02-IHBIN
00038C	00000394			415+	DC	A(*+8)	02-IHBIN
000390	00000000			416+	DC	A(0)	02-IHBIN
000394	C9C5E7F5F1F0F0F2			417+	DC	CL8'IEX51002'	02-IHBIN
00039C	0A07			418+	SVC	7	01-XCTL
				419=*			00279001
				420=*			00280001
				421=*			00281001
				422=*			00282001
00039E	9180 D082	00082		423=WDIRET1	TM	COMPFLGS+2,PRT	00283001
0003A2	4780 234E		003AE	424=	BZ	COT18A	00284001
0003A6	9680 2522	00582		425=COT18	OI	SWTO,X'80'	00285001
0003AA	47F0 239E		003FE	426=	B	LAST	00286001
				427=*			00287001
0003AE	9108 D081	00081		428=COT18A	TM	COMPFLGS+1,ERR	00288001
0003B2	4780 239E		003FE	429=	BZ	LAST	00289001
0003B6	4170 00D3		000D3	430=	LA	R7,211	00290001
0003BA	48A0 2520		00580	431=	LH	R10,MODNUMB	00291001
0003BE	1B7A			432=	SR	R7,R10	00292001
0003C0	8970 0002		00002	433=	SLL	R7,2	00293001
0003C4	5890 251C		0057C	434=	L	R9,AWADDTAB	00294001
0003C8	1A79			435=	AR	R7,R9	00295001
0003CA	5870 7000		00000	436=	L	R7,0(,R7)	00296001
0003CE	45F0 22E6		00346	437=	BAL	R15,COT27	00297001
0003D2	D213 1000 2504 00000	00564		438=	MVC	0(20,R1),CPI	00298001
0003D8	D232 1014 7000 00014	00000		439=	MVC	20(51,R1),0(R7)	00299001
0003DE	45F0 22E6		00346	440=	BAL	R15,COT27	00300001
0003E2	5890 D0C0		000C0	441=	L	R9,NEXTERR	00301001
0003E6	41A0 0010		00010	442=	LA	R10,16	00302001
0003EA	1B9A			443=	SR	R9,R10	00303001
0003EC	D20F 1014 9000 00014	00000		444=	MVC	20(16,R1),0(R9)	00304001
0003F2	924B 1025		00025	445=	MVI	37(R1),C'.'	00305001
				446=*			00306001
0003F6	9680 D081	00081		447=WDIRET2	OI	COMPFLGS+1,NSRCE	00307001
0003FA	47F0 2326		00386	448=	B	COT29	00308001
				449=*			00309001
				450=*			00310001
				451=*			00311001
0003FE	5850 D0C0		000C0	452=LAST	L	R5,NEXTERR	00312001
000402	41A0 000C		0000C	453=	LA	R10,12	00313001
000406	1B5A			454=	SR	R5,R10	00314001
000408	47F0 2056		000B6	455=	B	COT01	00315001
				456=*			00316001
				457=*			00317001
				458=*			00318001
00040C				459=	CNOP	0,4	00319001
00040C	D200 E000 A000 00000 00000			460=WMOVE1	MVC	0(0,R14),0(R10)	00320001
000412	D200 1000 A000 00000 00000			461=WMOVE3	MVC	0(0,R1),0(R10)	00321001
000418	D200 1014 A000 00014 00000			462=WMOVE4	MVC	20(0,R1),0(R10)	00322001
				463=*			00323001
00041E	0000			464=WDEC	DC	2D'0'	00324001
000420	0000000000000000			465=WAREA	DC	C'IEX000I 0 00000 '	00325001
000430	C9C5E7F0F0F0C940			466=	DC	250C' '	00326001
000444	4040404040404040			467=*			00327001
				468=*			00328001
				469=*			00329001
00053E	C4C9C1C7D5D6E2E3			470=HEADD1	DC	C'DIAGNOSTICS'	00330001
000549	C3D6C4C540404040			471=HEADD2	DC	C'CODE SEV SC MESSAGE'	00331001
				472=*			00332001
000564	C9C5E7F2F1F1C940			473=CPI	DC	C'IEX211I T	00333001
				474=*			00334001
				475=*			00335001
				476=*			00336001
000578	00000000			477=AWEMPOOL	DC	F'0'	00337001
00057C	00000000			478=AWADDTAB	DC	F'0'	00338001
000580	0000			479=MODNUMB	DC	H'0'	00339001
				480=*			00340001
				481=*			00341001
				482=*			00342001
000582	00			483=SWTO	DC	X'00'	00343001
000583	00						
000584	0000000000000000			484=SVAR2	DC	2F'0'	00344001
00058C	0000000000000000			485=SVAR1	DC	2F'0'	00345001
000594	4040404040			486=BLANKS	DC	CL5' '	00346001
				487=*			00347001
				488=*			00348001
				489=*			00349001
				490=*			00350001
				491=*			00351001
000599	4E605C617B7B4D7A			492=TRINTEXT	DC	C'+-*/##(:'	00352001
0005A1	AD7B7B5E7B7B7B7B			493=	DC	C'[##;####'	00353001
0005A9	7E4C6E7B7B7B7B7B			494=	DC	C'=<>#####'	00354001
0005B1	7B7B7B7B7B7B7B7B			495=	DC	C'#####'	00355001
0005B9	5F7B4F507B6B5D7A			496=	DC	C'~# &#;,):'	00356001
0005C1	BD7B7B407B4B7D7B			497=	DC	C']## #.'#'	00357001
0005C9	F0F1F2F3F4F5F6F7			498=	DC	C'01234567'	00358001
0005D1	F8F97B7B7B7B4B7D			499=	DC	C'89####.'''	00359001
0005D9	C1C2C3C4C5C6C7C8			500=	DC	C'ABCDEFGH'	00360001
0005E1	C9D1D2D3D4D5D6D7			501=	DC	C'IJKLMNOP'	00361001
0005E9	D8D9E2E3E4E5E6E7			502=	DC	C'QRSTUVWXYZ'	00362001
0005F1	E8E95B6D7B7C			503=	DC	C'YZ\$_#@'	00363001
				504=*			00364001
				505=*			00365001
				506=*			00366001
						CONVERSION OF SOURCE OPERATORS	

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17	13.13
				507=*				00367001
0005F7	00							
0005F8				508=	DC 0F'0'			00368001
0005F8	00			509=	WSYMBSRC DC X'00'	00	PLUS	00369001
0005F9	4E			510=	DC C'+'			00370001
0005FA	00			511=	DC X'00'	01	MINUS	00371001
0005FB	60			512=	DC C'-'			00372001
0005FC	00			513=	DC X'00'	02	MULTIPLY	00373001
0005FD	5C			514=	DC C'*'			00374001
0005FE	00			515=	DC X'00'	03	DIVIDE	00375001
0005FF	61			516=	DC C'/'			00376001
000600	0100			517=	DC H'256'	04	INTEGER DIVIDE	00377001
000602	0104			518=	DC H'260'	05	'POWER'	00378001
000604	00			519=	DC X'00'	06	LEFT PARENTHESIS	00379001
000605	4D			520=	DC C'('			00380001
000606	010C			521=	DC H'268'	07	COLON	00381001
000608	010F			522=	DC H'271'	08	LEFT BRACKET	00382001
00060A	0112			523=	DC H'274'	09	'ARRAY'	00383001
00060C	011A			524=	DC H'282'	0A	'SWITCH'	00384001
00060E	0123			525=	DC H'291'	0B	SEMICOLON	00385001
000610	0126			526=	DC H'294'	0C	'BEGIN'	00386001
000612	0126			527=	DC H'294'	0D	'BEGIN'	00387001
000614	01D5			528=	DC H'469'	0E	'PROCEDURE'	00388001
000616	01D5			529=	DC H'469'	0F	'PROCEDURE'	00389001
000618	012E			530=	DC H'302'	10	'EQUAL'	00390001
00061A	0136			531=	DC H'310'	11	'LESS'	00391001
00061C	013D			532=	DC H'317'	12	'GREATER'	00392001
00061E	0147			533=	DC H'327'	13	'NOTEQUAL'	00393001
000620	0152			534=	DC H'338'	14	'NOTGREATER'	00394001
000622	015F			535=	DC H'351'	15	'NOTLESS'	00395001
000624	0169			536=	DC H'361'	16	COLON EQUAL	00396001
000626	016C			537=	DC H'364'	17	'GOTO'	00397001
000628	0173			538=	DC H'371'	18	'FOR'	00398001
00062A	0179			539=	DC H'377'	19	'STEP'	00399001
00062C	0180			540=	DC H'384'	1A	'UNTIL'	00400001
00062E	0188			541=	DC H'392'	1B	'WHILE'	00401001
000630	0190			542=	DC H'400'	1C	'DO'	00402001
000632	0195			543=	DC H'405'	1D	'IF'	00403001
000634	019A			544=	DC H'410'	1E	'THEN'	00404001
000636	01A1			545=	DC H'417'	1F	'ELSE'	00405001
000638	01A8			546=	DC H'424'	20	'NOT'	00406001
00063A	01AE			547=	DC H'430'	21	'IMPL'	00407001
00063C	01B5			548=	DC H'437'	22	'OR'	00408001
00063E	01BA			549=	DC H'442'	23	'AND'	00409001
000640	01C0			550=	DC H'448'	24	'EQUIV'	00410001
000642	00			551=	DC X'00'	25	COMMA	00411001
000643	6B			552=	DC C','			00412001
000644	00			553=	DC X'00'	26	RIGHT PARENTHESIS	00413001
000645	5D			554=	DC C')'			00414001
000646	010C			555=	DC H'268'	27	COLON	00415001
000648	01C8			556=	DC H'456'	28	RIGHT SUBSCRIPT BRACK	00416001
00064A	0123			557=	DC H'291'	29	DELTA	00417001
00064C	01CB			558=	DC H'459'	2A	'END'	00418001
00064E	0123			559=	DC H'291'	2B	ETA	00419001
000650	01CB			560=	DC H'459'	2C	'END'	00420001
000652	00			561=	DC X'00'	2D	OMEGA	00421001
000653	40			562=	DC C' '			00422001
000654	01E1			563=	DC H'481'	2E	'CODE'	00423001
				564=*				00424001
				565=*	CONVERSION OF STACK OPERATORS			00425001
				566=*				00426001
000656	00			567=	WSYMBSTK DC X'00'	00	PLUS	00427001
000657	4E			568=	DC C'+'			00428001
000658	00			569=	DC X'00'	01	MINUS	00429001
000659	60			570=	DC C'-'			00430001
00065A	00			571=	DC X'00'	02	MULTIPLY	00431001
00065B	5C			572=	DC C'*'			00432001
00065C	00			573=	DC X'00'	03	DIVIDE	00433001
00065D	61			574=	DC C'/'			00434001
00065E	0100			575=	DC H'256'	04	INTEGER DIVIDE	00435001
000660	0104			576=	DC H'260'	05	'POWER'	00436001
000662	00			577=	DC X'00'	06	LEFT PARENTHESIS	00437001
000663	4D			578=	DC C'('			00438001
000664	010C			579=	DC H'268'	07	COLON	00439001
000666	010F			580=	DC H'271'	08	LEFT BRACKET	00440001
000668	0112			581=	DC H'274'	09	'ARRAY'	00441001
00066A	011A			582=	DC H'282'	0A	'SWITCH'	00442001
00066C	0123			583=	DC H'291'	0B	SEMICOLON	00443001
00066E	0126			584=	DC H'294'	0C	'BEGIN'	00444001
000670	0126			585=	DC H'294'	0D	'BEGIN'	00445001
000672	01D5			586=	DC H'469'	0E	'PROCEDURE'	00446001
000674	01D5			587=	DC H'469'	0F	'PROCEDURE'	00447001
000676	012E			588=	DC H'302'	10	'EQUAL'	00448001
000678	0136			589=	DC H'310'	11	'LESS'	00449001
00067A	013D			590=	DC H'317'	12	'GREATER'	00450001
00067C	0147			591=	DC H'327'	13	'NOTEQUAL'	00451001
00067E	0152			592=	DC H'338'	14	'NOTGREATER'	00452001
000680	015F			593=	DC H'351'	15	'NOTLESS'	00453001
000682	0169			594=	DC H'361'	16	COLON EQUAL	00454001
000684	016C			595=	DC H'364'	17	'GOTO'	00455001
000686	0173			596=	DC H'371'	18	'FOR'	00456001
000688	0179			597=	DC H'377'	19	'STEP'	00457001
00068A	0180			598=	DC H'384'	1A	'UNTIL'	00458001
00068C	0188			599=	DC H'392'	1B	'WHILE'	00459001
00068E	0190			600=	DC H'400'	1C	'DO'	00460001
000690	0195			601=	DC H'405'	1D	'IF'	00461001

Loc	Object	Code	Addr1	Addr2	Stmt	Source	Statement		X390 3.1.04	2012/08/17 13.13
000692	019A				602=	DC	H'410'	1E	'THEN'	00462001
000694	01A1				603=	DC	H'417'	1F	'ELSE'	00463001
000696	01A8				604=	DC	H'424'	20	'NOT'	00464001
000698	01AE				605=	DC	H'430'	21	'IMPL'	00465001
00069A	01B5				606=	DC	H'437'	22	'OR'	00466001
00069C	01BA				607=	DC	H'442'	23	'AND'	00467001
00069E	01C0				608=	DC	H'448'	24	'EQUIV'	00468001
0006A0	00				609=	DC	X'00'	25	ALPHA	00469001
0006A1	40				610=	DC	C' '			00470001
0006A2	0195				611=	DC	H'405'	26	IFS	00471001
0006A4	019A				612=	DC	H'410'	27	THENS	00472001
0006A6	01A1				613=	DC	H'417'	28	ELSES	00473001
0006A8	00				614=	DC	X'00'	29	LEFT PARENTHESIS	00474001
0006A9	4D				615=	DC	C' ('			00475001
0006AA	00				616=	DC	X'00'	2A	LEFT PARENTHESIS	00476001
0006AB	4D				617=	DC	C' ('			00477001
0006AC	00				618=	DC	X'00'	2B	MONADIC MINUS	00478001
0006AD	60				619=	DC	C' -'			00479001
0006AE	010F				620=	DC	H'271'	2C	LEFT SUBSCRIPT BRACKET	00480001
0006B0	0169				621=	DC	H'361'	2D	COLON EQUAL	00481001
0006B2	0169				622=	DC	H'361'	2E	COLON EQUAL	00482001
					623=*					00483001
					624=*	COMPOUND ALGOL SYMBOLS, EBCDIC				00484001
					625=*					00485001
0006B4			005B4		626=	DC	0F'0'			00486001
					627=WORDSEBC	EQU	*-256			00487001
0006B4	02				628=	DC	X'02'	256	INTEGER DIVIDE	00488001
0006B5	7D617D				629=	DC	C' '/'			00489001
0006B8	01				630=	DC	X'01'	260	POWER	00490001
0006B9	5C5C4040404040				631=	DC	C' '**			00491001
0006C0	00				632=	DC	X'00'	268	COLON	00492001
0006C1	7A40				633=	DC	C' ':'			00493001
0006C3	01				634=	DC	X'01'	271	LEFT BRACKET	00494001
0006C4	4D61				635=	DC	C' ('/			00495001
0006C6	06				636=	DC	X'06'	274	'ARRAY'	00496001
0006C7	7DC1D9D9C1E87D				637=	DC	C' 'ARRAY'			00497001
0006CE	07				638=	DC	X'07'	282	'SWITCH'	00498001
0006CF	7DE2E6C9E3C3C87D				639=	DC	C' 'SWITCH'			00499001
0006D7	00				640=	DC	X'00'	291	SEMICOLON	00500001
0006D8	5E40				641=	DC	C' ';'			00501001
0006DA	06				642=	DC	X'06'	294	'BEGIN'	00502001
0006DB	7DC2C5C7C9D57D				643=	DC	C' 'BEGIN'			00503001
0006E2	00				644=	DC	X'00'	302	EQUAL	00504001
0006E3	7E404040404040				645=	DC	C' '='			00505001
0006EA	00				646=	DC	X'00'	310	LESSTHAN	00506001
0006EB	4C404040404040				647=	DC	C' '<'			00507001
0006F1	00				648=	DC	X'00'	317	GREATER THAN	00508001
0006F2	6E404040404040				649=	DC	C' '>'			00509001
0006FB	01				650=	DC	X'01'	327	NOT EQUAL	00510001
0006FC	5F7E404040404040				651=	DC	C' '=>'			00511001
000706	01				652=	DC	X'01'	338	LESS THAN OR EQU	00512001
000707	4C7E404040404040				653=	DC	C' '<=			00513001
000713	01				654=	DC	X'01'	351	GR THAN OR EQU	00514001
000714	6E7E404040404040				655=	DC	C' '>=			00515001
00071D	01				656=	DC	X'01'	361	COLON EQUAL	00516001
00071E	7A7E				657=	DC	C' ':='			00517001
000720	05				658=	DC	X'05'	364	'GOTO'	00518001
000721	7DC7D6E3D67D				659=	DC	C' 'GOTO'			00519001
000727	04				660=	DC	X'04'	371	'FOR'	00520001
000728	7DC6D6D97D				661=	DC	C' 'FOR'			00521001
00072D	03				662=	DC	X'03'	377	'STEP'	00522001
00072E	7DE2E3C5D77D				663=	DC	C' 'STEP'			00523001
000734	06				664=	DC	X'06'	384	'UNTIL'	00524001
000735	7DE4D5E3C9D37D				665=	DC	C' 'UNTIL'			00525001
00073C	06				666=	DC	X'06'	392	'WHILE'	00526001
00073D	7DE6C8C9D3C57D				667=	DC	C' 'WHILE'			00527001
000744	03				668=	DC	X'03'	400	'DO'	00528001
000745	7DC4D67D				669=	DC	C' 'DO'			00529001
000749	03				670=	DC	X'03'	405	'IF'	00530001
00074A	7DC9C67D				671=	DC	C' 'IF'			00531001
00074E	05				672=	DC	X'05'	410	'THEN'	00532001
00074F	7DE3C8C5D57D				673=	DC	C' 'THEN'			00533001
000755	05				674=	DC	X'05'	417	'ELSE'	00534001
000756	7DC5D3E2C57D				675=	DC	C' 'ELSE'			00535001
00075C	00				676=	DC	X'00'	424	NOT	00536001
00075D	5F4040404040				677=	DC	C' '~'			00537001
000762	05				678=	DC	X'05'	430	'IMPL'	00538001
000763	7DC9D4D7D37D				679=	DC	C' 'IMPL'			00539001
000769	00				680=	DC	X'00'	437	OR	00540001
00076A	4F404040				681=	DC	C' ' '			00541001
00076E	00				682=	DC	X'00'	442	AND	00542001
00076F	504040404040				683=	DC	C' '&&'			00543001
000774	06				684=	DC	X'06'	448	'EQUIV'	00544001
000775	7DC5D8E4C9E57D				685=	DC	C' 'EQUIV'			00545001
00077C	01				686=	DC	X'01'	456	RIGHT BRACKET	00546001
00077D	615D				687=	DC	C' '/)'			00547001
00077F	04				688=	DC	X'04'	459	'END'	00548001
000780	7DC5D5C47D				689=	DC	C' 'END'			00549001
000785	02				690=	DC	X'02'	465	LEFT STRINGQUOTE	00550001
000786	7D4D7D				691=	DC	C' '('			00551001
000789	0A				692=	DC	X'0A'	469	'PROCEDURE'	00552001
00078A	7DD7D9D6C3C5C4E4				693=	DC	C' 'PROCEDURE'			00553001
000795	05				694=	DC	X'05'	481	'CODE'	00554001
000796	7DC3D6C4C57D				695=	DC	C' 'CODE'			00555001
					696=*					00556001
00079C					697=	DS	0F			00557001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		0069C		698=	WORDSISO EQU	*-256	
00079C	02			699=	DC	X'02'	LIST OF COMPOUND ALGOL SYMBOLS, ISO 00558001
00079D	7D617D			700=	DC	C'''/'	256 INTEGER DIVIDE 00559001
0007A0	06			701=	DC	X'06'	00560001
0007A1	7DD7D6E6C5D97D			702=	DC	C'''POWER'''	260 'POWER' 00561001
0007A8	01			703=	DC	X'01'	268 COLON 00562001
0007A9	4B4B			704=	DC	C'..'	00563001
0007AB	01			705=	DC	X'01'	271 LEFT BRACKET 00564001
0007AC	4D61			706=	DC	C'(/'	00565001
0007AE	06			707=	DC	X'06'	274 'ARRAY' 00566001
0007AF	7DC1D9D9C1E87D			708=	DC	C'''ARRAY'''	00567001
0007B6	07			709=	DC	X'07'	282 'SWITCH' 00568001
0007B7	7DE2E6C9E3C3C87D			710=	DC	C'''SWITCH'''	00569001
0007BF	01			711=	DC	X'01'	291 SEMICOLON 00570001
0007C0	4B6B			712=	DC	C'.,'	00571001
0007C2	06			713=	DC	X'06'	294 'BEGIN' 00572001
0007C3	7DC2C5C7C9D57D			714=	DC	C'''BEGIN'''	00573001
0007CA	06			715=	DC	X'06'	302 'EQUAL' 00574001
0007CB	7DC5D8E4C1D37D			716=	DC	C'''EQUAL'''	00575001
0007D2	05			717=	DC	X'05'	310 'LESS' 00576001
0007D3	7DD3C5E2E27D			718=	DC	C'''LESS'''	00577001
0007D9	08			719=	DC	X'08'	317 'GREATER' 00578001
0007DA	7DC7D9C5C1E3C5D9			720=	DC	C'''GREATER'''	00579001
0007E3	09			721=	DC	X'09'	327 'NOTEQUAL' 00580001
0007E4	7DD5D6E3C5D8E4C1			722=	DC	C'''NOTEQUAL'''	00581001
0007EE	0B			723=	DC	X'0B'	338 'NOTGREATER' 00582001
0007EF	7DD5D6E3C7D9C5C1			724=	DC	C'''NOTGREATER'''	00583001
0007FB	08			725=	DC	X'08'	351 'NOTLESS' 00584001
0007FC	7DD5D6E3D3C5E2E2			726=	DC	C'''NOTLESS'''	00585001
000805	01			727=	DC	X'01'	361 COLON EQUAL 00586001
000806	4B7E			728=	DC	C'..=	00587001
000808	05			729=	DC	X'05'	364 'GOTO' 00588001
000809	7DC7D6E3D67D			730=	DC	C'''GOTO'''	00589001
00080F	04			731=	DC	X'04'	371 'FOR' 00590001
000810	7DC6D6D97D			732=	DC	C'''FOR'''	00591001
000815	03			733=	DC	X'03'	377 'STEP' 00592001
000816	7DE2E3C5D77D			734=	DC	C'''STEP'''	00593001
00081C	06			735=	DC	X'06'	384 'UNTIL' 00594001
00081D	7DE4D5E3C9D37D			736=	DC	C'''UNTIL'''	00595001
000824	06			737=	DC	X'06'	392 'WHILE' 00596001
000825	7DE6C8C9D3C57D			738=	DC	C'''WHILE'''	00597001
00082C	03			739=	DC	X'03'	400 'DO' 00598001
00082D	7DC4D67D			740=	DC	C'''DO'''	00599001
000831	03			741=	DC	X'03'	405 'IF' 00600001
000832	7DC9C67D			742=	DC	C'''IF'''	00601001
000836	05			743=	DC	X'05'	410 'THEN' 00602001
000837	7DE3C8C5D57D			744=	DC	C'''THEN'''	00603001
00083D	05			745=	DC	X'05'	417 'ELSE' 00604001
00083E	7DC5D3E2C57D			746=	DC	C'''ELSE'''	00605001
000844	04			747=	DC	X'04'	424 'NOT' 00606001
000845	7DD5D6E37D			748=	DC	C'''NOT'''	00607001
00084A	05			749=	DC	X'05'	430 'IMPL' 00608001
00084B	7DC9D4D7D37D			750=	DC	C'''IMPL'''	00609001
000851	03			751=	DC	X'03'	437 'OR' 00610001
000852	7DD6D97D			752=	DC	C'''OR'''	00611001
000856	04			753=	DC	X'04'	442 'AND' 00612001
000857	7DC1D5C47D			754=	DC	C'''AND'''	00613001
00085C	06			755=	DC	X'06'	448 'EQUIV' 00614001
00085D	7DC5D8E4C9E57D			756=	DC	C'''EQUIV'''	00615001
000864	01			757=	DC	X'01'	456 RIGHT BRACKET 00616001
000865	615D			758=	DC	C'/'	00617001
000867	04			759=	DC	X'04'	459 'END' 00618001
000868	7DC5D5C47D			760=	DC	C'''END'''	00619001
00086D	02			761=	DC	X'02'	465 LEFT STRINGQUOTE 00620001
00086E	7D4D7D			762=	DC	C'''('	00621001
000871	0A			763=	DC	X'0A'	469 'PROCEDURE' 00622001
000872	7DD7D9D6C3C5C4E4			764=	DC	C'''PROCEDURE'''	00623001
00087D	05			765=	DC	X'05'	481 'CODE' 00624001
00087E	7DC3D6C4C57D			766=	DC	C'''CODE'''	00625001
				767=*			00626001
				768=*	END OF IEX60000		00627001
				769=*			00628001
				770 *			00629001
000000		00000 00CB6		771	WORKAREA DSECT		00114001
				772 *			00115001
				773	COPY WORKAREA		00116001
				774=*			00117001
				775=*	WORKAREA - MAPPING CSECT IEX00001		00001001
				776=*			00002001
				777=*	ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT		00003001
				778=*			00004001
000000	0000000000000000			779=	SAVEAREA DC	18F'0'	00005001
				780=*			00006001
				781=*	DCB ADDRS		00007001
				782=*			00008001
000048				783=	DCBTABLE DC	0F'0'	00009001
000048	00000000			784=	ALINDCB DC	A(0)	00010001
00004C	00000000			785=	DC	A(0)	00011001
000050	00000000			786=	DC	A(0)	00012001
000054	00000000			787=	DC	A(0)	00013001
000058	00000000			788=	ASYSDCB DC	A(0)	00014001
00005C	00000000			789=	APRTDCB DC	A(0)	00015001
000060	00000000			790=	APCHDCB DC	A(0)	00016001
000064	00000000			791=	AUT1DCB DC	A(0)	00017001
000068	00000000			792=	AUT2DCB DC	A(0)	00018001
00006C	00000000			793=	AUT3DCB DC	A(0)	00019001
							00020001

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				794=*			00021001
				795=*	END OF DATA EXIT ADDR5		00022001
				796=*			00023001
000070	00000000			797=EODUT1	DC A(0) SYSUT1		00024001
000074	00000000			798=EODUT2	DC A(0) SYSUT2		00025001
000078	00000000			799=EODUT3	DC A(0) SYSUT3		00026001
00007C	00000000			800=EODIN	DC A(0) SYSIN		00027001
				801=*			00028001
				802=*	OPTION SWITCHES IN COMPFLGS		00029001
				803=*			00030001
				804=*	ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -		00031001
				805=*			00032001
				806=*	PURPOSE	POSITION	00033001
				807=*		BYTE 1 BYTE 2 BYTE 3	00034001
				808=*		01234567 01234567 01234567	00035001
				809=*			00036001
				810=*	COMPMODE (SYNTAX CHECK)	X	00037001
				811=*	SUBSCRIPT OPTIMIZATION	X	00038001
				812=*	WARNING ERROR	X	00039001
				813=*	SERIOUS ERROR	X	00040001
				814=*	TERMINATING ERROR	X	00041001
				815=*	PROCEDURE/PROGRAM	X	00042001
				816=*	LONG/SHORT PRECISION	X	00043001
				817=*	OPERAND	X	00044001
				818=*			00045001
				819=*	NOSOURCE/SOURCE	X	00046001
				820=*	NLOAD/LOAD	X	00047001
				821=*	NODECK/DECK	X	00048001
				822=*	ISO/EBCDIC	X	00049001
				823=*	PROGRAM INTERRUPT	X	00050001
				824=*	TERMINATING PHASE ENTERED	X	00051001
				825=*	NO BUFFERS ASSIGNED	X	00052001
				826=*	NO COMPILATION POSSIBLE	X	00053001
				827=*			00054001
				828=*	SYSPRINT DOWN	X	00055001
				829=*	WHOLE SOURCE PROG IN CORE	X	00056001
				830=*	NO OPTAB	X	00057001
				831=*	SYSPRINT NOT OPENED	X	00058001
				832=*	ERROR UNRELATED TO SEMICOLON NR	X	00059001
				833=*	NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)	X	00060001
				834=*	60 CHARACTER SET	X	00061001
				835=*	(RESERVED)	X	00062001
				836=*			00063001
000080	00220000			837=COMPFLGS	DC X'00220000'	PARAMETERS AND SWITCHES	00064001
				838=*			00065001
				839=*	OPTION SWITCHES IN COMPFLGS		00066001
				840=*			00067001
000080				841=COMPMODE	EQU X'80'	SYNTAX CHECK MODE	00068001
000040				842=SUBSCOPT	EQU X'40'	SUBSCRIPT OPTIMIZATION	00069001
000FB				843=PGR	EQU X'FB'		00070001
00004				844=PROC	EQU X'04'	PRECOMPILED PROCEDURE	00071001
				845=*			00072001
000FD				846=SHRT	EQU X'FD'		00073001
00002				847=LNG	EQU X'02'		00074001
00001				848=OPERAND	EQU X'01'		00075001
				849=*			00076001
				850=*	ERROR SEVERITY INDICATORS IN COMPFLGS		00077001
				851=*			00078001
00020				852=WERR	EQU X'20'	WARNING ERROR	00079001
00010				853=SERR	EQU X'10'	SERIOUS ERROR	00080001
00008				854=TERR	EQU X'08'	TERMINATING ERROR	00081001
				855=*			00082001
				856=*	OPTION SWITCHES IN COMPFLGS+1		00083001
				857=*			00084001
0007F				858=SRCE	EQU X'7F'		00085001
00080				859=NSRCE	EQU X'80'		00086001
				860=*			00087001
000BF				861=LOAD	EQU X'BF'		00088001
00040				862=NLOAD	EQU X'40'		00089001
				863=*			00090001
000DF				864=DECK	EQU X'DF'		00091001
00020				865=NDECK	EQU X'20'		00092001
				866=*			00093001
000EF				867=EBCDIC	EQU X'EF'		00094001
00010				868=ISO	EQU X'10'		00095001
				869=*			00096001
				870=*	TERMINATION SWITCHES IN COMPFLGS+1		00097001
				871=*			00098001
00008				872=ERR	EQU X'08'	PROGRAM INTERRUPT HAS	00099001
				873=*		OCCURED IN COMPILER	00100001
00004				874=TERM	EQU X'04'	LAST PHASE HAS BEEN ENTERED	00101001
00002				875=NOBUF	EQU X'02'	ERROR POOL IS IN WORKAREA	00102001
				876=*		NO SCE PROG BUFF 1	00103001
00001				877=NOGO	EQU X'01'	COMPILATION NOT POSSIBLE	00104001
				878=*		DO NOT START SCAN 1	00105001
00003				879=NOBUNOGO	EQU X'03'	NOBUF AND NOGO	00106001
				880=*			00107001
				881=*	SWITCHES IN COMPFLGS+2		00108001
				882=*			00109001
00080				883=PRT	EQU X'80'	SYSPRINT NOT AVAILABLE	00110001
00040				884=SPIC	EQU X'40'	SOURCE PROGRAM IN STORAGE	00111001
00020				885=NOPT	EQU X'20'	NO SUBSCRIPT OPTIMIZATION	00112001
00010				886=PRTNO	EQU X'10'	SYSPRINT NOT OPENED	00113001
00008				887=NOSC	EQU X'08'	SEMICOLON COUNTER NOT VALID	00114001
				888=*			00115001
00004				889=NOTEST	EQU X'04'		00116001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		000FB		890=TEST	EQU	X'FB'	EMBED SC COUNT IN CODE (DEFAULT) 00117001
				891=*			00118001
		00002		892=SET60	EQU	X'02'	60 CHARACTER SET IS TO BE USED 00119001
				893=*			00120001
				894=*		MISCELLANEOUS CONTROL INFORMATION	00121001
				895=*			00122001
000084	0000B000			896=SIZE	DC	F'45056'	AVAILABLE MAIN STORAGE - NOT USED 00123001
000088	00000000			897=PICADD	DC	A(0)	ADDR OF PICA OF THE INVOKER 00124001
00008C	00000000			898=HDING	DC	F'0'	ADDR OF HEADING INFO OF THE INVOKER 00125001
000090	00000000			899=ERET	DC	F'0'	RETURN ADDR FOR PROGRAM 00126001
				900=*			AND I/O ERRORS 00127001
000094	0000000C			901=PAGECNT	DC	PL4'0'	PAGE COUNT 00128001
000098	0000			902=LINCNT	DC	H'0'	COUNTER OF LINES PER PAGE 00129001
00009A	0038			903=MAXLINES	DC	H'56'	MAX NUMBER OF PRINT LINES PER PAGE 00130001
00009C	0000			904=SEMCNT	DC	H'0'	SEMICOLON COUNTER 00131001
00009E	0032			905=PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER 00132001
0000A0	0000			906=KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER 00133001
		0001C		907=LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS 00134001
		0006C		908=LATBEG	EQU	4*(LATNR-1)	00135001
0000A2	006C			909=LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT 00136001
0000A4	00000000			910=PRPT	DC	F'0'	PROGRAM POINTER 00137001
0000A8	00000000			911=SAVOUTA	DC	F'0'	00138001
0000AC				912=OUTAREA2	DS	F	SYSPUNCH SAVE AREA 00139001
0000B0	40404040			913=PIDENT	DC	CL4' '	PROGRAM IDENTIFICATION 00140001
0000B4	0000000C			914=CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER 00141001
0000B8	00000000			915=PRTRTADD	DC	A(0)	ADDR OF PRINT ROUTINE 00142001
				916=*			00143001
				917=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	00144001
				918=*			00145001
0000BC	00000278			919=ERRPOOL	DC	A(PRELPOL)	FIRST BYTE OF PRELIMINARY ERROR POOL 00146001
0000C0	00000278			920=NEXTERR	DC	A(PRELPOL)	NEXT FREE PLACE IN ERROR POOL 00147001
0000C4				921=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23 00148001
0000C8				922=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1 00149001
0000CC				923=SRCE1END	DS	F	ADDR OF LAST BYTE+1 00150001
0000D0				924=SULTSTRT	DS	F	ID OF LAST ITAB RECORD 00151001
				925=*			00152001
				926=*			00153001
				927=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	00154001
				928=*			00155001
0000D4				929=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED 00156001
0000D6				930=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED 00157001
0000D8				931=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED 00158001
0000DA				932=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED 00159001
0000DC				933=POOLS	DS	F	SIZE OF ERROR POOL 00160001
0000E0				934=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2 00161001
		000E0		935=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4 00162001
0000E4				936=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10 00163001
0000E8				937=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20 00164001
0000EC				938=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30 00165001
0000F0				939=CRIDTABS	DS	F	SIZE OF CRIDTAB FOR PHASE 30 00166001
0000F4				940=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30 00167001
0000F8				941=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30 00168001
0000FC				942=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2 00169001
000100				943=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40 00170001
000104				944=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40 00171001
000108				945=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK 00172001
				946=*			00173001
				947=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	00174001
				948=*		EACH NEW PAGE	00175001
				949=*			00176001
		0010C		950=PAGEHEAD	EQU	*	00177001
00010C	4040404040404040			951=PAGEHD1	DC	CL121' '	FIRST HEADLINE 00178001
000185		00185	0010C	952=	ORG	PAGEHD1	00179001
00010C	F1			953=PAGEHD1C	DC	C'1'	ASA CNTL 00180001
00010D	4040404040404040			954=	DC	CL10' '	SPACER 00181001
000117	4040404040404040			955=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING 00182001
00017B		0017B	0017D	956=	ORG	PAGEHD1+113	00183001
00017D	D7C1C7C5			957=PAGEHD1P	DC	CL4'PAGE'	PAGE 00184001
000181	40404040			958=PAGENUMB	DC	CL4' '	PAGE COUNTER 00185001
000185		00185	00185	959=	ORG		00186001
				960=*			00187001
000185	4040404040404040			961=PAGEHD2	DC	CL121' '	SECOND HEADLINE 00188001
0001FE		001FE	00185	962=	ORG	PAGEHD2	00189001
000185	40			963=PAGEHD2C	DC	C' '	ASA CNTL 00190001
000186	4040404040404040			964=	DC	CL10' '	SPACER 00191001
000190	4040404040404040			965=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING 00192001
0001F4		001F4	001FE	966=	ORG		00193001
				967=*			00194001
0001FE	4040404040404040			968=PAGEHD3	DC	CL121' '	THIRD HEADLINE 00195001
000277		00277	001FE	969=	ORG	PAGEHD3	00196001
0001FE	40			970=PAGEHD3C	DC	C' '	ASA CNTL 00197001
0001FF	4040404040404040			971=	DC	CL10' '	SPACER 00198001
000209	4040404040404040			972=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING 00199001
00026D		0026D	00277	973=	ORG		00200001
				974=*			00201001
				975=*			00202001
				976=*		END OF STANDARD COMMON AREA	00203001
				977=*			00204001
		00277		978=STANDX	EQU	*	00205001
				979=*			00206001
				980=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL	00207001
				981=*		PHASES AND PARTLY OVERLAY EACH OTHER	00208001
				982=*			00209001
				983=*		NAME OR PURPOSE	NEEDED BY PHASES 00210001
				984=*			00211001
000277	00						

Active USINGS: WORKAREA,R13 IEX60000,R2 IEX31000,R15

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
000278				985=	DC	0F'0'		00212001
000278	4040404040404040			986=PRELPOOL	DC	236C' ',20C'X' PRELIMINARY ERROR POOL	IEX10	00213001
000378		00378	00416	987=	ORG	PRELPOOL+414		00214001
				988=*		DCB FOR SYSIN	11	00215001
				989=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				991+*		DATA CONTROL BLOCK		01-DCB
				992+*				01-DCB
000416	0000			993+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
000418				995+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000418	0000000000000000			997+	DC	BL16'0'	FDDAD,DVTBL	01-DCB
000428	00000000			998+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1000+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00042C	00			1002+	DC	AL1(0)	BUFNO	01-DCB
00042D	000001			1003+	DC	AL3(1)	BUFCB	01-DCB
000430	0000			1004+	DC	AL2(0)	BUFL	01-DCB
000432	4000			1005+	DC	BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			1006+	DC	A(1)	IOBAD	01-DCB
				1008+*		FOUNDATION EXTENSION		01-DCB
000438	40			1010+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			1011+	DC	AL3(1)	EODAD	01-DCB
00043C	90			1012+	DC	BL1'10010000'	RECFM	01-DCB
00043D	000000			1013+	DC	AL3(0)	EXLST	01-DCB
				1015+*		FOUNDATION BLOCK		01-DCB
000440	E2E8E2C9D5404040			1017+	DC	CL8'SYSIN'	DDNAME	01-DCB
000448	02			1018+	DC	BL1'00000010'	OFLGS	01-DCB
000449	00			1019+	DC	BL1'00000000'	IFLG	01-DCB
00044A	5000			1020+	DC	BL2'0101000000000000'	MACR	01-DCB
				1022+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
00044C	00			1024+	DC	BL1'00000000'	RER1	01-DCB
00044D	000001			1025+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000450	00000001			1026+	DC	A(1)	SYNAD	01-DCB
000454	0000			1027+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			1028+	DC	AL2(0)	BLKSIZE	01-DCB
000458	00000000			1029+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			1030+	DC	A(1)	IOBA	01-DCB
000460	00			1031+	DC	AL1(0)	NCP	01-DCB
000461	000001			1032+	DC	AL3(1)	EOBR, EOBA	01-DCB
				1034+*		QSAM INTERFACE		01-DCB
000464	00000001			1036+	DC	A(1)	RECAD	01-DCB
000468	0000			1037+	DC	H'0'	QSW	01-DCB
00046A	0050			1038+	DC	AL2(80)	LRECL	01-DCB
00046C	00			1039+	DC	BL1'00000000'	EROPT	01-DCB
00046D	000001			1040+	DC	AL3(1)	CNTRL	01-DCB
000470	00000000			1041+	DC	F'0'	PRECL	01-DCB
000474	00000001			1042+	DC	A(1)	EOB	01-DCB
				1043=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)		00222001
				1044=*		EODAD=EODADIN (INSERTED BY IEX11)		00223001
000478		00478	00278	1045=	ORG	PRELPOOL		00224001
000278				1046=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50
000478				1047=	DS	0F		00226001
000478				1048=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20
000577		00577	00478	1049=	ORG	PBTAB1		00228001
000478				1050=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40
				1051=*			DCB FOR SYSUT1	11-30
				1052=SYSUT1	DCB	DDNAME=SYSUT1,		X00231001
				=		DSORG=PS,		X00232001
				=		MACRF=(R,W),		X00233001
				=		RECFM=F		00234001
				1054+*		DATA CONTROL BLOCK		01-DCB
				1055+*				01-DCB
000577	00			1056+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
000578				1058+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000578	0000000000000000			1060+	DC	BL16'0'	FDDAD,DVTBL	01-DCB
000588	00000000			1061+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1063+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00058C	00			1065+	DC	AL1(0)	BUFNO	01-DCB
00058D	000001			1066+	DC	AL3(1)	BUFCB	01-DCB
000590	0000			1067+	DC	AL2(0)	BUFL	01-DCB
000592	4000			1068+	DC	BL2'0100000000000000'	DSORG	01-DCB

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

000594	00000001			1069+	DC	A(1)	IOBAD		01-DCB
				1071+*			FOUNDATION EXTENSION		01-DCB
000598	00			1073+	DC	BL1'0000000'	BFTEK,BFLN,HIARCHY		01-DCB
000599	000001			1074+	DC	AL3(1)	EODAD		01-DCB
00059C	80			1075+	DC	BL1'1000000'	RECFM		01-DCB
00059D	000000			1076+	DC	AL3(0)	EXLST		01-DCB
				1078+*			FOUNDATION BLOCK		01-DCB
0005A0	E2E8E2E4E3F14040			1080+	DC	CL8'SYSUT1'	DDNAME		01-DCB
0005A8	02			1081+	DC	BL1'00000010'	OFLGS		01-DCB
0005A9	00			1082+	DC	BL1'00000000'	IFLG		01-DCB
0005AA	2020			1083+	DC	BL2'0010000000100000'	MACR		01-DCB
				1085+*			BSAM-BPAM-QSAM INTERFACE		01-DCB
0005AC	00			1087+	DC	BL1'00000000'		RER1	01-DCB
0005AD	000001			1088+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
0005B0	00000001			1089+	DC	A(1)	SYNAD		01-DCB
0005B4	0000			1090+	DC	H'0'	CIND1, CIND2		01-DCB
0005B6	0000			1091+	DC	AL2(0)	BLKSIZE		01-DCB
0005B8	00000000			1092+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
0005BC	00000001			1093+	DC	A(1)	IOBA		01-DCB
0005C0	00			1094+	DC	AL1(0)	NCP		01-DCB
0005C1	000001			1095+	DC	AL3(1)	EOBR, EOBAD		01-DCB
				1097+*			BSAM-BPAM INTERFACE		01-DCB
0005C4	00000001			1099+	DC	A(1)	EOBW		01-DCB
0005C8	0000			1100+	DC	H'0'	DIRCT		01-DCB
0005CA	0000			1101+	DC	AL2(0)	LRECL		01-DCB
0005CC	00000001			1102+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				1103=*		SYNAD=SYNAD,	(ASSEMBLED IN IEX00001)		00235001
				1104=*		EODAD=EODAD1			00236001
				1105=*					00237001
0005D0				1106=	DS	0F			00238001
0005D0				1107=SPTAB	DS	CL255	SCOPE TABLE	11-30	00239001
0006D0				1108=	DS	0F			00240001
	006CD			1109=GPTAB	EQU	*-3	GROUP TABLE	11-30	00241001
0006D0				1110=	DS	CL1510			00242001
				1111=*					00243001
				1112=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				1113=*					00245001
				1114 *					00118001
				1115 *					00119001
				1116 *		CHARACTER EQUATES			00120001
				1117 *					00121001
				1118		IEXCHAR			00122001
				1119+*					01-IEXCH
				1120+*		CHARACTER A - Z			01-IEXCH
				1121+*					01-IEXCH
	00040			1122+XFA	EQU	X'40'			02-IEXCG
	00041			1123+XFB	EQU	X'41'			02-IEXCG
	00042			1124+XFC	EQU	X'42'			02-IEXCG
	00043			1125+XFD	EQU	X'43'			02-IEXCG
	00044			1126+XFE	EQU	X'44'			02-IEXCG
	00045			1127+XFF	EQU	X'45'			02-IEXCG
	00046			1128+XFG	EQU	X'46'			02-IEXCG
	00047			1129+XFH	EQU	X'47'			02-IEXCG
	00048			1130+XFI	EQU	X'48'			02-IEXCG
	00049			1131+XFJ	EQU	X'49'			02-IEXCG
	0004A			1132+XFK	EQU	X'4A'			02-IEXCG
	0004B			1133+XFL	EQU	X'4B'			02-IEXCG
	0004C			1134+XFM	EQU	X'4C'			02-IEXCG
	0004D			1135+XFN	EQU	X'4D'			02-IEXCG
	0004E			1136+XFO	EQU	X'4E'			02-IEXCG
	0004F			1137+XFP	EQU	X'4F'			02-IEXCG
	00050			1138+XFQ	EQU	X'50'			02-IEXCG
	00051			1139+XFR	EQU	X'51'			02-IEXCG
	00052			1140+XFS	EQU	X'52'			02-IEXCG
	00053			1141+XFT	EQU	X'53'			02-IEXCG
	00054			1142+XFU	EQU	X'54'			02-IEXCG
	00055			1143+XFV	EQU	X'55'			02-IEXCG
	00056			1144+XFW	EQU	X'56'			02-IEXCG
	00057			1145+XFX	EQU	X'57'			02-IEXCG
	00058			1146+XFY	EQU	X'58'			02-IEXCG
	00059			1147+XFZ	EQU	X'59'			02-IEXCG
				1148+*					01-IEXCH
				1149+*		NATIONAL CHARACTERS			01-IEXCH
				1150+*					01-IEXCH
	0005A			1151+XFDOLLAR	EQU	X'5A'			02-IEXCG
	0005B			1152+XFUNDER	EQU	X'5B'			02-IEXCG
	0005C			1153+XFHASH	EQU	X'5C'			02-IEXCG
	0005D			1154+XFAT	EQU	X'5D'			02-IEXCG
				1155+*					01-IEXCH
				1156+*		NUMERIC 0 - 9			01-IEXCH
				1157+*					01-IEXCH
	00030			1158+XF0	EQU	X'30'			02-IEXCG
	00031			1159+XF1	EQU	X'31'			02-IEXCG
	00032			1160+XF2	EQU	X'32'			02-IEXCG
	00033			1161+XF3	EQU	X'33'			02-IEXCG
	00034			1162+XF4	EQU	X'34'			02-IEXCG
	00035			1163+XF5	EQU	X'35'			02-IEXCG
	00036			1164+XF6	EQU	X'36'			02-IEXCG



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
	00037			1165+XF7	EQU	X'37'	02-IEXCG
	00038			1166+XF8	EQU	X'38'	02-IEXCG
	00039			1167+XF9	EQU	X'39'	02-IEXCG
				1168+*			01-IEEXCH
				1169+*	SPECIAL	CHARS	01-IEEXCH
				1170+*			01-IEEXCH
	00000			1171+XFPLUS	EQU	X'00'	02-IEXCG
	00001			1172+XFMINUS	EQU	X'01'	02-IEXCG
	00002			1173+XFASTER	EQU	X'02'	02-IEXCG
	00003			1174+XFSLASH	EQU	X'03'	02-IEXCG
	00006			1175+XFLBRAC	EQU	X'06'	02-IEXCG
	00007			1176+XFCOLON	EQU	X'07'	02-IEXCG
	00008			1177+XFBSQBR	EQU	X'08'	02-IEXCG
	0000B			1178+XFSCOLON	EQU	X'0B'	02-IEXCG
	00010			1179+XFEQUAL	EQU	X'10'	02-IEXCG
	00011			1180+XFLT	EQU	X'11'	02-IEXCG
	00012			1181+XFGT	EQU	X'12'	02-IEXCG
	00020			1182+XFNOT	EQU	X'20'	02-IEXCG
	00022			1183+XFOR	EQU	X'22'	02-IEXCG
	00023			1184+XFAMPER	EQU	X'23'	02-IEXCG
	00025			1185+XFCOMMA	EQU	X'25'	02-IEXCG
	00026			1186+XFRBRAC	EQU	X'26'	02-IEXCG
	00028			1187+XFRSQBR	EQU	X'28'	02-IEXCG
	0002B			1188+XFBLANK	EQU	X'2B'	02-IEXCG
	0002D			1189+XFPERIOD	EQU	X'2D'	02-IEXCG
	0002E			1190+XFQUOTE	EQU	X'2E'	02-IEXCG
				1191+*			01-IEEXCH
	0000C			1192+XFDQUOTE	EQU	X'0C'	02-IEXCG
				1193+*			01-IEEXCH
	0002C			1194+XFEXCLM	EQU	X'2C'	02-IEXCG
	0002C			1195+XFPERCT	EQU	X'2C'	02-IEXCG
				1196+*			01-IEEXCH
				1197+*	INTERNAL	CONTROL CODES	01-IEEXCH
				1198+*			01-IEEXCH
	00005			1199+XFPOWER	EQU	X'05'	01-IEEXCH
	00016			1200+XFASSIGN	EQU	X'16'	01-IEEXCH
	00017			1201+XFGOTO	EQU	X'17'	01-IEEXCH
	00018			1202+XFFOR	EQU	X'18'	01-IEEXCH
	0001D			1203+XFIF	EQU	X'1D'	01-IEEXCH
	00027			1204+XFLABEL	EQU	X'27'	01-IEEXCH
	00029			1205+XFDELTA	EQU	X'29'	01-IEEXCH
	0002C			1206+XFEND	EQU	X'2C'	01-IEEXCH
	0002F			1207+XFZETA	EQU	X'2F'	01-IEEXCH
	0003E			1208+XFDECEPT	EQU	X'3E'	01-IEEXCH
				1209 *			00123001
				1210 *	REGISTER	EQUATES	00124001
				1211 *			00125001
				1212	IEZREGS		00126001
	00000			1213+R0	EQU	0	01-IEZRE
	00001			1214+R1	EQU	1	01-IEZRE
	00002			1215+R2	EQU	2	01-IEZRE
	00003			1216+R3	EQU	3	01-IEZRE
	00004			1217+R4	EQU	4	01-IEZRE
	00005			1218+R5	EQU	5	01-IEZRE
	00006			1219+R6	EQU	6	01-IEZRE
	00007			1220+R7	EQU	7	01-IEZRE
	00008			1221+R8	EQU	8	01-IEZRE
	00009			1222+R9	EQU	9	01-IEZRE
	0000A			1223+R10	EQU	10	01-IEZRE
	0000B			1224+R11	EQU	11	01-IEZRE
	0000C			1225+R12	EQU	12	01-IEZRE
	0000D			1226+R13	EQU	13	01-IEZRE
	0000E			1227+R14	EQU	14	01-IEZRE
	0000F			1228+R15	EQU	15	01-IEZRE
				1229 *			00127001
				1230	END		00128001



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
R6	1	00000006		U			1219	184M 250 253 255 257 272 274 277M 298				
R7	1	00000007		U			1220	170M 171M 173 176M 177M 179M 180M 184 186 195				
								231 233 235 236 273 430M 432M 433M 435M 436M				
								439				
R9	1	00000009		U			1222	149M 150 178M 179 185M 186M 187 188 190M 191M				
								195 247M 299 309M 310 324M 326 341M 342 343M				
								344 345M 350M 351 352 355M 356 360M 362M 363				
								396M 397M 398 399M 400 434M 435 441M 443M 444				
SERR	1	00000010		U			853	204				
SET60	1	00000002		U			892	291				
SRCE1S	4	000000E0	FFFFFFFF	F	F		934	935				
SUSCR	2	00000034	00000001	H	H		110	101				
SVAR1	4	0000058C	00000004	F	F		485	151M 407				
SVAR2	4	00000584	00000004	F	F		484	388M 391				
SWTO	1	00000582	00000004	X	X		483	335 425M				
TERR	1	00000008		U			854	208 406				
TRINTEXT	8	00000599	00000004	C	C		492	330				
WAREA	20	00000430	00000004	C	C		465	196M 215M 216M 219M 225M 226M 230 262 341 346				
								382				
WDEC	8	00000420	00000004	D	D		464	214M 215 224M 225 301M 302 305M 306				
WDIRET1	4	0000039E	00000004	I			423	149				
WDIRET2	4	000003F6	00000004	I			447	384B 402				
WERR	1	00000020		U			852	199				
WMOVE1	6	0000040C	00000004	I			460	238X 275X 329X				
WMOVE3	6	00000412	00000004	I			461	351X				
WMOVE4	6	00000418	00000004	I			462	363X				
WORDSEBC	1	000005B4	00000004	U			627	296				
WORDSISO	1	0000069C	00000004	U			698	293				
WORKAREA	1	00000000	FFFFFFFF	J			771	147U				
WSYMBSRC	1	000005F8	00000004	X	X		509	304				
WSYMBSTK	1	00000656	00000004	X	X		567	297				

Register References (M=modified, B=branch, U=USING, D=DROP, N=index)

X390 3.1.04 2012/08/17 13.13

0(0)	(no references identified)																		
1(1)	102M	148	373M	438	439	444	445	461	462										
2(2)	100M	103B	132U																
3(3)	262M	263M	267M	297M	304M	308													
4(4)	169M																		
5(5)	154M	155	171	213N	217	220	223	282	286	300	325	328	397	398M	400	452M	454M		
6(6)	184M	250	253	255	257	272	274	277M	298										
7(7)	170M	171M	173	176M	177M	179M	180M	184	186	195	231	233	235	236	273	430M	432M	433M	
	435M	436M	439																
8(8)	(no references identified)																		
9(9)	149M	150	178M	179	185M	186M	187	188	190M	191M	195N	247M	299	309M	310	324M	326	341M	
	342	343M	344	345M	350M	351	352N	355M	356	360M	362M	363	396M	397M	398	399M	400	434M	
	435	441M	443M	444															
10(A)	172M	173	175M	176	187M	191	195M	196	197	202	212M	213M	214	223M	224	233M	237	248M	
	272M	273M	273N	283M	284	286M	298M	299M	300M	300N	301	306M	307M	308M	308N	310	312M	312N	
	314	315M	319	328M	346M	352M	402M	403	404M	405	431M	432	442M	443	453M	454	460	461	
	462																		
11(B)	234M	235M	236M	237M	238	239N	249M	274M	275	276N	282M	284M	293M	296M	312	313M	314M	318M	
	325M	326M	327	329	340M	342M	344M	348M	350	353M	356M	358M	360	368M	369				
12(C)	188M	189M	240M																
13(D)	147U																		
14(E)	101M	151	230M	239M	263	265	266M	276M	319	330	340	388	390M	391M	407M	409B	460		
15(F)	94B	98U	112M	151	347M	357M	361M	362	388	389M	390B	391M	392B	407M	414M	437M	440M		

X31						Dsect Cross Reference			PAGE	19
Dsect	Length	Id	Defn	Con	Member				X390 3.1.04	2012/08/17 13.13
WORKAREA	00000CB6	FFFFFFFF	771		PRIMARY INPUT					

Con	Source	Members
-----	--------	---------

X390 3.1.04 2012/08/17 13.13

1	SYS1.MACLIB	
	DCB	IEZREGS IHBINNRB IHB01 WTO XCTL
2	SYSD.TOOLS.MACLIB	
3	SYSD.ALGOLF.ASM	
	IEX60000	
4	SYSD.ALGOLF.MACLIB	
	IEXCGEN	IEXCHAR IEXENTRY WORKAREA
5	SYSD.ALGOLFRT.MACLIB	
6	SYS1.AMODGEN	

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17 13.13
98		USING	Ordinary	00000001	00000000	00001000	15	00058	112	IEX31000, R15		
132		USING	Ordinary	00000004	00000060	00001000	2	0063C	455	IEX60000, R2		
147		USING	Ordinary	FFFFFFFF	00000000	00001000	13	00209	452	WORKAREA, R13		

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T1X31      STEPNAME: IEX31      PROCSTEP: X390

Primary input: lines      1 to      128 of SYSD.ALGOLF.ASM(IEX31)

SYSLIB library records read: 3887

SYSUT1 work file size: 119681 bytes

SYSUT2 work file size: 246603 bytes

SYSUT3 work file size: 10240 bytes

SYSLIN file records written: 44

TXA000I Return code 0, elapsed time 4.48 seconds.



Csect	Rel	Addr(hex)	Length(dec)
-------	-----	-----------	-------------

IEX31000		00005C	4
----------	--	--------	---

IEX60000		000884	4
----------	--	--------	---

**IEX31M**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
Sysadata(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX31M)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131318.RA000.T131M.OBJECT
SYSPRINT	JES2.JOB09276.S00102
SYSUT1	SYS12230.T131318.RA000.T131M.SYSUT1
SYSUT2	SYS12230.T131318.RA000.T131M.SYSUT2
SYSUT3	SYS12230.T131318.RA000.T131M.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				2 *			00003001
				3 *		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00004001
				4 *			00005001
				5 *		FUNCTION/OPERATION -	00006001
				6 *		THIS MODULE CONTAINS MESSAGE TEXTS FOR ALL ERRORS THAT	00007001
				7 *		MAY BE DETECTED BY IEX00 AND IEX30, AND THE CORRESPONDING	00008001
				8 *		ADDRESS TABLE	00009001
				9 *			00010001
				10 *		ENTRY POINT - N/A	00011001
				11 *			00012001
				12 *		INPUT - N/A	00013001
				13 *			00014001
				14 *		OUTPUT - N/A	00015001
				15 *			00016001
				16 *		EXTERNAL ROUTINES - N/A	00017001
				17 *			00018001
				18 *		EXITS - NORMAL - N/A	00019001
				19 *			00020001
				20 *		EXITS - ERROR - N/A	00021001
				21 *			00022001
				22 *		TABLES/WORKAREAS - N/A	00023001
				23 *			00024001
				24 *		ATTRIBUTES - N/A	00025001
				25 *			00026001
				26 *		NOTES -	00027001
				27 *		AT SYSTEM GENERATION THIS MODULE WILL BE LINKED	00028001
				28 *		TOGETHER WITH THE MODULE IEX31 TO FORM THE MODULE IEX31	00029001
				29 *			00030001
000000		00000	003FC	30	IEX31M00	CSECT	00031001
				31 *			00032001
				32		ENTRY IEX31M01	00033001
				33 *			00034001
				34 *		ERROR MESSAGE POOL 2	00035001
				35 *			00036001
		00000		36	WEMPOOL2	EQU *	00037001
				37 *			00038001
000000	3E0300160C240023			38	W080	DC X'3E0300160C240023001B23'	00039001
00000B	E2D6D7C5D9C1D5C4			39	DC	CL52'SOPERAND BEGINNING WITH IS SYNTACTICALLY INCORRECTX	00040001
						.'	00041001
				40 *			00042001
00003F	2403000A0C240017			41	W081	DC X'2403000A0C240017000D17'	00043001
00004A	E2C9C4C5D5E3C9C6			42	DC	CL26'SIDENTIFIER NOT DECLARED.'	00044001
				43 *			00045001
000064	3603001C0C240029			44	W082	DC X'3603001C0C240029000D29'	00046001
00006F	E2D9C5C1D340C3D6			45	DC	CL44'SREAL CONSTANT BEGINNING WITH OUT OF RANGE.'	00047001
				46 *			00048001
00009B	5A05001612240029			47	W083	DC X'5A05001612240029001E29F00000001149'	00049001
0000AC	E6C9D5E3C5C7C5D9			48	DC	CL74'WINTEGER BEGINNING WITH OUT OF RANGE. INTEGER CONSX	00050001
						TANT CONVERTED TO REAL.'	00051001
				49 *			00052001
0000F6	750500291224003C			50	W084	DC X'750500291224003C00083CF00000003045'	00053001
000107	E6D7D9C5C3C9E2C9			51	DC	CL101'WPRECISION OF REAL CONSTANT BEGINNING WITH EXCEEDX	00054001
						S INTERNALLY HANDLED PRECISION. CONSTANT TRUNCATED.'	00055001
				52 *			00056001
00016C	210300140C240021			53	W085	DC X'210300140C240021000021'	00057001
000177	E2C9D3D3C5C7C1D3			54	DC	CL23'SILLEGAL USE OF LABEL .'	00058001
				55 *			00059001
00018E	1500			56	W086	DC X'1500'	00060001
000190	E2E3D6D640D4C1D5			57	DC	CL20'STOO MANY CONSTANTS.'	00061001
				58 *			00062001
0001A4	3A00			59	W087	DC X'3A00'	00063001
0001A6	E6C6E4D3D340D6D7			60	DC	CL57'WFULL OPTIMIZATION NOT POSSIBLE DUE TO INTERNAL OVX	00064001
						RFLOW.'	00065001
				61 *			00066001
0001DF	8805000A1224001C			62	W088	DC X'8805000A1224001C002C1DF00000003D4B'	00067001
0001F0	E6C9C4C5D5E3C9C6			63	DC	CL120'WIDENTIFIER IN BOUND EXPRESSION DECLARED IN SAME X	00068001
						PROGRAM BLOCK AS ARRAY. DECLARATION IN SURROUNDING BLOCKX	00069001
						SEARCHED FOR.'	00070001
				64 *			00071001
000268	450300040C240011			65	W089	DC X'450300040C240011003411'	00072001
000273	E6C7D6E3D64040C9			66	DC	CL59'WGOTO INVALID OUTSIDE FOR STATEMENT CONTAINING THIX	00073001
						S LABEL.'	00074001
				67 *			00075001
				68 *		DIRECTORY MESSAGES	00076001
				69 *			00077001
		002AE		70	W090	EQU *	00078001
		002AE		71	W209	EQU *	00079001
0002AE	460400360FF00000			72	DC	X'460400360FF00000840046000046'	00080001
0002BC	E3C3D6D4D7C9D3C1			73	DC	CL57'TCOMPILATION UNSUCCESSFUL DUE TO PROGRAM INTERRUPT.X	00081001
						PSW .'	00082001
				74 *			00083001
		002F5		75	W091	EQU *	00084001
		002F5		76	W210	EQU *	00085001
0002F5	300300270C840030			77	DC	X'300300270C840030000030'	00086001
000300	E3E4D5D9C5C3D6E5			78	DC	CL38'TUNRECOVERABLE I/O ERROR ON DATA SET .'	00087001
				79 *			00088001
		00326		80	W092	EQU *	00089001
		00326		81	W211	EQU *	00090001
000326	D7D9D6C7D9C1D440			82	DC	CL56'PROGRAM INTERRUPT IN ERROR MESSAGE EDITING ROUTINE.X	00091001
						PSW '	00092001
				83 *			00093001
		0035E		84	W093	EQU *	00094001
00035E	1200			85	W212	DC X'1200'	00095001
000360	E3E3D6D640D4C1D5			86	DC	CL17'TTOO MANY ERRORS.'	00096001
				87 *			00097001
		00371		88	W094	EQU *	00098001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
000371	2800			89	W213	DC X'2800'			00099001
000373	E3C9D5E3C5D9D5C1			90		DC CL39'TINTERNAL OVERFLOW OF IDENTIFIER TABEL.'			00100001
				91	*				00101001
		0039A		92	W095	EQU *			00102001
		0039A		93	W215	EQU *			00103001
00039A	1A00			94		DC X'1A00'			00104001
00039C	E3E2D6E4D9C3C540			95		DC CL25'TSOURCE PROGRAM TOO LONG.'			00105001
				96	*				00106001
				97	*	ADDR TABLE FOR WEMPOOL2			00107001
				98	*				00108001
0003B5	0000000								
0003B8				99		DC 0F'0'			00109001
		00278		100	IEX31M01	EQU *-320			00110001
0003B8	00000000			101		DC A(W080)			00111001
0003BC	0000003F			102		DC A(W081)			00112001
0003C0	00000064			103		DC A(W082)			00113001
0003C4	0000009B			104		DC A(W083)			00114001
0003C8	000000F6			105		DC A(W084)			00115001
0003CC	0000016C			106		DC A(W085)			00116001
0003D0	0000018E			107		DC A(W086)			00117001
0003D4	000001A4			108		DC A(W087)			00118001
0003D8	000001DF			109		DC A(W088)			00119001
0003DC	00000268			110		DC A(W089)			00120001
0003E0	000002AE			111		DC A(W090)			00121001
0003E4	000002F5			112		DC A(W091)			00122001
0003E8	00000326			113		DC A(W092)			00123001
0003EC	0000035E			114		DC A(W093)			00124001
0003F0	00000371			115		DC A(W094)			00125001
0003F4	00000000			116		DC A(0)			00126001
0003F8	0000039A			117		DC A(W095)			00127001
				118	*				00128001
				119		END			00129001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
IEX31M01	1	00000278	00000001	U			100	32				
W080	11	00000000	00000001	X	X		38	101				
W081	11	0000003F	00000001	X	X		41	102				
W082	11	00000064	00000001	X	X		44	103				
W083	17	0000009B	00000001	X	X		47	104				
W084	17	000000F6	00000001	X	X		50	105				
W085	11	0000016C	00000001	X	X		53	106				
W086	2	0000018E	00000001	X	X		56	107				
W087	2	000001A4	00000001	X	X		59	108				
W088	17	000001DF	00000001	X	X		62	109				
W089	11	00000268	00000001	X	X		65	110				
W090	1	000002AE	00000001	U			70	111				
W091	1	000002F5	00000001	U			75	112				
W092	1	00000326	00000001	U			80	113				
W093	1	0000035E	00000001	U			84	114				
W094	1	00000371	00000001	U			88	115				
W095	1	0000039A	00000001	U			92	117				

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T131M STEPNAME: IEX31M PROCSTEP: X390

Primary input: lines 1 to 129 of SYSD.ALGOLF.ASM(IEX31M)

SYSLIB library records read: 0

SYSUT1 work file size: 12448 bytes

SYSUT3 work file size: 10320 bytes

SYSLIN file records written: 23

TXA000I Return code 0, elapsed time 0.08 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX31M00 0003FC 4



**LEX40**

**LEVEL**

**V2.M01**

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Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompaT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SysterM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX40)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131319.RA000.T1X40.OBJECT
SYSPRINT	JES2.JOB09277.S00102
SYSUT1	SYS12230.T131319.RA000.T1X40.SYSUT1
SYSUT2	SYS12230.T131319.RA000.T1X40.SYSUT2
SYSUT3	SYS12230.T131319.RA000.T1X40.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement	X390 3.1.04 2012/08/17 13.13
2	*					00003001
3	*				COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00004001
4	*					00005001
5	*				FUNCTION/OPERATION -	00006001
6	*				IEX40000 BUILDS THE OPTIMIZATION TABLE (OPTAB) USING	00007001
7	*				THE SUBSCRIPT TABLE, THE LEFT VARIABLE TABLE AND THE FOR	00008001
8	*				STATEMENT TABLE. AN OPTAB ENTRY CORRESPOND TO AN	00009001
9	*				OPTIMIZABLE SUBSCRIPT EXPRESSION INSIDE A FOR STATEMENT.	00010001
10	*				IF NO OPTAB IS PRODUCED THIS IS INDICATED IN THE	00011001
11	*				COMPILER STATUS BYTES IN COMPLGS	00012001
12	*				IEX40001 IS THE INITIALIZATION OF NEXT MODULE, IEX50,	00013001
13	*				AND PERFORMS THE FOLLOWING FUNCTIONS -	00014001
14	*				CALCULATION AND RESERVATION OF STORAGE AREAS NEEDED	00015001
15	*				LOADING REGISTERS WITH START ADDRESSES	00016001
16	*				READING THE FIRST RECORDS OF SOURCE PROGRAM AND OPTAB	00017001
17	*				SETTING INITIAL VALUES IN THE PRIVATE PART OF COMMON	00018001
18	*				WORKAREA	00019001
19	*					00020001
20	*				ENTRY POINT - IEX40000	00021001
21	*					00022001
22	*				INPUT -	00023001
23	*				IEX40000 READS TWO TABLES CONSTRUCTED IN IEX30	00024001
24	*				FROM SYSUT3. THE SUBSCRIPT TABLE (SUTAB) CONTAINS	00025001
25	*				ENTRIES FOR LINEAR SUBSCRIPT EXPRESSIONS IN FOR	00026001
26	*				STATEMENTS THAT ARE OPTIMIZABLE IN REGARD TO	00027001
27	*				SUBSCRIPTS.	00028001
28	*				THE LEFT VARIABLE TABLE (LVTAB) CONTAINS ENTRIES FOR	00029001
29	*				INTEGER LEFT VARIABLES IN FOR STATEMENTS THAT ARE	00030001
30	*				OPTIMIZABLE IN REGARD TO SUBSCRIPTS.	00031001
31	*				IEX40001 READS THE FIRST TWO RECORDS OF THE	00032001
32	*				SOURCE PROGRAM FROM SYSUT2 INTO TWO SOURCE BUFFERS.	00033001
33	*				THE FIRST TWO RECORDS OF OPTAB ARE READ IN FROM SYSUT3	00034001
34	*				TO TWO OPTAB BUFFERS	00035001
35	*					00036001
36	*				OUTPUT -	00037001
37	*				THE OPTIMIZATION TABLE (UPTAB) IS WRITTEN OUT ON SYSUT3.	00038001
38	*				OPTAB CONTAINS ONE ENTRY FOR EVERY OPTIMIZABLE	00039001
39	*				SUBSCRIPT EXPRESSION IN A FOR STATEMENT	00040001
40	*					00041001
41	*				EXTERNAL ROUTINES -	00042001
42	*				THE INTERRUPT ROUTINES OF IEX00 ARE USED	00043001
43	*					00044001
44	*				EXIT - NORMAL - CONTROL IS GIVEN TO THE NEXT LOAD	00045001
45	*				MODULE BY MEANS OF XCTL EP=IEX50	00046001
46	*					00047001
47	*				EXITS - ERROR -	00048001
48	*				INPUT/OUTPUT ERRORS AND PROGRAM INTERRUPTS ARE HANDLED	00049001
49	*				BY A DIRECTORY ROUTINE WHICH RETURNS CONTROL TO THE	00050001
50	*				INTERRUPTED MODULE. IF THE ERROR OCCURED BEFORE THE	00051001
51	*				GETMAIN IN IEX40001 CONTROL IS GIVEN TO THE TERMINATING	00052001
52	*				MODULE BY MEANS OF XCTL EP=IEX51ER2	00053001
53	*				IF THE ERROR OCCURED AFTER THE GETMAIN CONTROL IS GIVEN	00054001
54	*				TO THE TERMINATING MODULE BY MEANS OF	00055001
55	*				XCTL EP=IEX51ER1	00056001
56	*					00057001
57	*				TABLES/WORKAREAS -	00058001
58	*				THE FOR STATEMENT TABLE (FSTAB) CONSTRUCTED IN IEX30	00059001
59	*				AND POSSIBLY REVISED BY IEX40000 CONTAINS	00060001
60	*				CLASSIFICATIONS OF THE FOR STATEMENTS	00061001
61	*					00062001
62	*				ATTRIBUTES - NONE	00063001
63	*					00064001
64	*				NOTES -	00065001
65	*				THE OPERATION OF THIS MODULE DOES NOT DEPEND UPON ANY	00066001
66	*				SPECIAL REPRESENTATION OF THE EXTERNAL CHARACTER SET.	00067001
67	*				THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN	00068001
68	*				CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER.	00069001
69	*				IN PARTICULAR IT REQUIRES THE COMMON WORKAREA	00070001
70	*					00071001
71	*					00072001
000000		00000	00AD0	72	IEX40000 CSECT	00073001
				73	*	00074001
				74	*	00075001
				75	*	00076001
		00020		76	FIRSTM EQU X'20'	00077001
		00010		77	SUCM EQU X'10'	00078001
		00030		78	LASTM EQU X'30'	00079001
		000CF		79	OFFM EQU X'CF'	00080001
		00040		80	SUOP EQU X'40'	00081001
				81	*	00082001
				82		00083001
				83+	IEXENTRY 'IEX40000 LEVEL 2.1 &SYSDATE &SYSTIME'	01-IEXEN
000000	47F0 F026		00026	84+	B 38(,R15)	01-IEXEN
000004	21			85+	DC AL1(33)	01-IEXEN
000005	C9C5E7F4F0F0F0F0			86+	DC CL33'IEX40000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
				+		01-IEXEN
				87	*	00084001
		R:C	00000	88	USING IEX40000,R12	00085001
000026	18CF			89	LR R12,R15	00086001
				90	*	00087001
		R:D	00000	91	USING WORKAREA,R13	00088001
000028	9180 D080		00080	92	TM COMPLGS,COMPMODE	00089001
00002C	4710 C442		00442	93	BO NOSUTAB	00090001
				94	*	00091001
				95	*	00092001
				96	*	00093001
					INITIALIZE SUTAB	

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000030	D503 D584	C5F0 00584	005F0	97	CLC	ZSUTEN(4),KF0	SUTAB EMPTY ?
000036	4780 C442		00442	98	BE	NOSUTAB	YES
				99 *			
				100 *		ANY NESTED FOR LOOPS ?	
				101 *			
00003A	1B22			102	SR	R2, R2	
00003C	5020 C5F8		005F8	103	ST	R2, FOR1	
000040	D2FE C5FC	C5FB 005FC	005FB	104	MVC	FOR1+4(255),FOR1+3	SET FOR STMT COUNT
000046	D2FE C6FA	C6F9 006FA	006F9	105	MVC	FOR2+2(255),FOR2+1	AREAS TO ZERO
00004C	4800 D578		00578	106	LH	R0, FSNMAX	
000050	4A00 C802		00802	107	AH	R0, KH1	NO OF FOR STMT
000054	4110 D6CD		006CD	108	LA	R1, GPTAB	
000058	4110 1003		00003	109 GP1	LA	R1,3(,R1)	PTR TO NEXT GPTAB RECORD
00005C	D500 C5F0	1002 005F0	00002	110	CLC	KF0(1),2(R1)	FOR STATEMENT ?
000062	4780 C058		00058	111	BE	GP1	NO
000066	4B00 C802		00802	112	SH	R0, KH1	ALL FOR STMT CHECKED ?
00006A	4740 C09E		0009E	113	BM	GP10	YES
00006E	D202 C7FC	1000 007FC	00000	114	MVC	FOR4(3),0(R1)	MOVE GPTAB RECORD
000074	4830 C7FC		007FC	115	LH	R3, FOR4	MULTIPLY GPTAB PTR BY 3
000078	1A33			116	AR	R3, R3	GIVES CORRECT ADDR
00007A	4A30 C7FC		007FC	117	AH	R3, FOR4	IN GPTAB
00007E	4133 D6CD		006CD	118	LA	R3, GPTAB(R3)	
000082	D500 C5F0	3002 005F0	00002	119	CLC	KF0(1),2(R3)	NESTED ?
000088	4780 C058		00058	120	BE	GP1	NO
00008C	4320 C7FE		007FE	121	IC	R2, FOR4+2	FOR STMT NO+1
000090	4142 C6F7		006F7	122	LA	R4, FOR2-1(R2)	
000094	D200 4000	3002 00000	00002	123	MVC	0(1,R4),2(R3)	STORE ENCLOSING FSN
00009A	47F0 C058		00058	124	B	GP1	
				125 *			
00009E	4120 C41E		0041E	126 GP10	LA	R2, TERMIN2	TERMINATION ADDR
0000A2	5020 D090		00090	127	ST	R2, ERET	
0000A6	5800 D100		00100	128	L	R0, SUTAB405	RESERVE TABLE AREA
0000AA	5A00 D0FC		000FC	129	A	R0, OPTABS	
0000AE	1A00			130	AR	R0, R0	
0000B0	4A00 C5F4		005F4	131	AH	R0, KH8	
0000B4	5000 D9AC		009AC	132	ST	R0, TABSIZE	SAVE LENGTH OF TABLE AREA
				133 *			
				134		GETMAIN R,LV=(0)	ALLOCATE STORAGE TO SUTAB
				135+*		OS/VS2 RELEASE 4 VERSION -- 10/21/75	
0000B8	4510 C0BC		000BC	136+	BAL	1,*+4	INDICATE GETMAIN
0000BC	0A0A			137+	SVC	10	ISSUE GETMAIN SVC
				138 *			
0000BE	4120 C3CA		003CA	139	LA	R2, TERM1	ERROR RETURN ADDR
0000C2	5020 D090		00090	140	ST	R2, ERET	
0000C6	5010 D984		00984	141	ST	R1, TSTART	SUTAB START ADDR
				142 *			
				143 *		READ SUTAB	
				144 *			
0000CA	48A0 D57C		0057C	145	LH	R10, SUCOUNT	NUMBER OF SUTAB RECORDS - 1
0000CE	5890 C5E8		005E8	146	L	R9, SUTYPE	SUTAB RECORD IDENTIFICATION
0000D2	5880 D0F4		000F4	147	L	R8, SUTAB305	LENGTH OF WRITTEN SUTAB RECORDS
0000D6	5880 D984		00984	148	L	R11, TSTART	TABLE START ADDR
0000DA	4570 C4C0		004C0	149	BAL	R7, READ	READ FULL SUTAB
				150 *			
				151 *	R11		END ADDR OF UNSORTED SUTAB
				152 *	R10		FOR STATEMENT NUMBER
				153 *	R9		CURRENT PTR IN UNSORTED SUTAB
				154 *	R8		PTR FOR CHAINING CHECK
				155 *	R7		FULL LENGTH OF DELETED ENTRIES
				156 *			
				157 *		SCAN SUTAB FOR ENTRY CHAINING AND ENTRY DELETION	
				158 *			
0000DE	5890 D984		00984	159	L	R9, TSTART	TABLE START ADDR WITH KEY
0000E2	4190 9004		00004	160	LA	R9,4(,R9)	DELETE KEY
0000E6	1B89			161	LR	R11, R9	CLACULATE END ADDR
0000E8	5A80 D584		00584	162	A	R11, ZSUTEN	
0000EC	1BAA			163	SR	R10, R10	
0000EE	1B77			164	SR	R7, R7	
				165 *			
0000F0	43A0 9000		00000	166 SUTABS	IC	R10,0(,R9)	ISOLATE ACTUAL FOR STATE NUMBER
0000F4	412A D478		00478	167	LA	R2, FSTAB(R10)	ADDR ACURAL FOR ENTRY
0000F8	9140 2000	00000		168	TM	0(R2),SUOP	SUBSCRIPT OPTIMIZATION POSSIBLE?
0000FC	4780 C116		00116	169	BZ	SUTABS2	YES
000100	4170 700E		0000E	170	LA	R7,14(,R7)	LENGTH OF DELETED ENTRIES
000104	92FF 9000	00000		171	MVI	0(R9),X'FF'	NOT OPTIMIZABLE ENTRY
000108	4190 900E		0000E	172	LA	R9,14(,R9)	GET NEXT ENTRY
00010C	199B			173	CR	R9, R11	SUTAB END ?
00010E	4780 C19E		0019E	174	BE	SORTSU	YES
000112	47F0 C0F0		000F0	175	B	SUTABS	
				176 *			
000116	1889			177 SUTABS2	LR	R8, R9	CHECK ENTRY CHAINING
000118	4180 800E		0000E	178 SUTABS3	LA	R8,14(,R8)	SCAN SUTAB FOWORD FOR CHAINING
00011C	198B			179	CR	R8, R11	SUTAB END ?
00011E	4780 C19E		0019E	180	BE	SORTSU	YES
000122	D503 900A	800A 0000A	0000A	181	CLC	10(4,R9),10(R8)	CHAIN ?
000128	4780 C132		00132	182	BE	SUTABS4	YES
00012C	1898			183	LR	R9, R8	PROCESS NEW ENTRY AS FIRST
00012E	47F0 C0F0		000F0	184	B	SUTABS	
				185 *			
000132	43A0 8000		00000	186 SUTABS4	IC	R10,0(,R8)	ISOLATE FSN OF NEW ENTRY
000136	412A D478		00478	187	LA	R2, FSTAB(R10)	ADDR FSTAB ENTRY
00013A	9140 2000	00000		188	TM	0(R2),SUOP	SUBSCRIPT OPTIMIZABLE ?
00013E	4780 C14E		0014E	189	BZ	SUTABS5	YES
000142	92FF 8000	00000		190	MVI	0(R8),X'FF'	NO, DELETE ENTRY
000146	4170 700E		0000E	191	LA	R7,14(,R7)	COUNT LENGTH OF DELETED ENTRIES
00014A	47F0 C118		00118	192	B	SUTABS3	CHECK NEXT ENTRY

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00014E	9620 900A	0000A		193 *			00187001
000152	1898			194 SUTABS5	OI	10(R9),FIRSTM	00188001
000154	4180 800E			195 SUTABS6	LR	R9,R8	00189001
000158	1988		0000E	196 SUTABS7	LA	R8,14(,R8)	00190001
00015A	4780 C18E		0018E	197	CR	R8,R11	00191001
00015E	D503 900A	800A 0000A	0000A	198	BE	SUTABS9	00192001
000164	4780 C172		00172	199	CLC	10(4,R9),10(R8)	00193001
000168	9630 900A	0000A		200	BE	SUTABS8	00194001
00016C	1898			201	OI	10(R9),LASTM	00195001
00016E	47F0 C0F0		000F0	202	LR	R9,R8	00196001
				203	B	SUTABS	00197001
				204 *			00198001
000172	43A0 8000		00000	205 SUTABS8	IC	R10,0(,R8)	00199001
000176	412A D478		00478	206	LA	R2,FSTAB(R10)	00200001
00017A	9140 2000	00000		207	TM	0(R2),SUOP	00201001
00017E	4780 C196		00196	208	BZ	SUTABS10	00202001
000182	92FF 8000	00000		209	MVI	0(R8),X'FF'	00203001
000186	4170 700E		0000E	210	LA	R7,14(,R7)	00204001
00018A	47F0 C154		00154	211	B	SUTABS7	00205001
				212 *			00206001
00018E	9630 900A	0000A		213 SUTABS9	OI	10(R9),LASTM	00207001
000192	47F0 C19E		0019E	214	B	SORTSU	00208001
				215 *			00209001
000196	9610 900A	0000A		216 SUTABS10	OI	10(R9),SUCM	00210001
00019A	47F0 C152		00152	217	B	SUTABS6	00211001
				218 *			00212001
00019E	5830 D984		00984	219 SORTSU	L	R3,TSTART	00213001
0001A2	4120 3004		00004	220	LA	R2,4(,R3)	00214001
0001A6	5020 D98C		0098C	221	ST	R2,ZSTAD	00215001
0001AA	5890 D584		00584	222	L	R9,ZSUTEN	00216001
0001AE	1A92			223	AR	R9,R2	00217001
0001B0	5A30 D9AC		009AC	224	A	R3,TABSIZE	00218001
0001B4	5030 D998		00998	225	ST	R3,ZSUDEN	00219001
0001B8	5830 D584		00584	226	S	R3,ZSUTEN	00220001
0001BC	1A37			227	AR	R3,R7	00221001
0001BE	5930 D998		00998	228	C	R3,ZSUDEN	00222001
0001C2	4780 C44A		0044A	229	BE	NOSUTAB1	00223001
0001C6	5030 D994		00994	230	ST	R3,ZSUDAD	00224001
0001CA	5030 D990		00990	231	ST	R3,ZSORTSTA	00225001
0001CE	41B0 000E		0000E	232	LA	R11,14	00226001
0001D2	45F0 C530		00530	233	BAL	R15,SORT	00227001
				234 *			00228001
				235 *		INITIALIZE OPTAB BUFFERS	00229001
				236 *			00230001
0001D6	5820 D984		00984	237	L	R2,TSTART	00231001
0001DA	5020 D9A4		009A4	238	ST	R2,ZOTAWRI	00232001
0001DE	5A20 D0FC		000FC	239	A	R2,OPTABS	00233001
0001E2	5020 D9A0		009A0	240	ST	R2,ZOTAFILL	00234001
0001E6	5A20 D0FC		000FC	241	A	R2,OPTABS	00235001
0001EA	5020 D9A8		009A8	242	ST	R2,ZOTMAX	00236001
0001EE	D503 D580	C5F0 00580	005F0	243	CLC	ZLEVEN(4),KF0	00237001
0001F4	4770 C202		00202	244	BNE	SORTLE	00238001
0001F8	D203 D99C	D9A8 0099C	009A8	245	MVC	ZLESTA(4),ZOTMAX	00239001
0001FE	47F0 C244		00244	246	B	SORTLE1	00240001
				247 *			00241001
000202	48A0 D57A		0057A	248 SORTLE	LH	R10,LVCOUNT	00242001
000206	5890 C5EC		005EC	249	L	R9,LVTYPE	00243001
00020A	5880 D0F8		000F8	250	L	R8,LVTAB30S	00244001
00020E	5880 D984		00984	251	L	R11,TSTART	00245001
000212	4570 C4C0		004C0	252	BAL	R7,READ	00246001
000216	5820 D984		00984	253	L	R2,TSTART	00247001
00021A	4120 2004		00004	254	LA	R2,4(,R2)	00248001
00021E	5020 D98C		0098C	255	ST	R2,ZSTAD	00249001
000222	5A20 D580		00580	256	A	R2,ZLEVEN	00250001
000226	1892			257	LR	R9,R2	00251001
000228	5920 D9A8		009A8	258	C	R2,ZOTMAX	00252001
00022C	4720 C234		00234	259	BH	*+8	00253001
000230	5820 D9A8		009A8	260	L	R2,ZOTMAX	00254001
000234	5020 D990		00990	261	ST	R2,ZSORTSTA	00255001
000238	5020 D99C		0099C	262	ST	R2,ZLESTA	00256001
00023C	41B0 0004		00004	263	LA	R11,4	00257001
000240	45F0 C530		00530	264	BAL	R15,SORT	00258001
				265 *			00259001
000244	5820 D99C		0099C	266 SORTLE1	L	R2,ZLESTA	00260001
000248	5A20 D580		00580	267	A	R2,ZLEVEN	00261001
00024C	92FF 2000	00000		268	MVI	0(R2),X'FF'	00262001
000250	5820 D06C		0006C	269	L	R2,AUT3DCB	00263001
				270 *			00264001
				271		CLOSE ((R2),REREAD),TYPE=T	00265001
000254				272+	CNOP	0,4	01-CLOSE
000254	4510 C25C	0025C		273+	BAL	1,*+8	01-CLOSE
000258	00000000			274+	DC	A(0)	01-CLOSE
00025C	5021 0000	00000		275+	ST	R2,0(1,0)	01-CLOSE
000260	9290 1000	00000		276+	MVI	0(1),144	01-CLOSE
000264	0A17			277+	SVC	23	01-CLOSE
				278 *			00266001
				279 *	R4		00267001
				280 *	R5		00268001
				281 *	R6		00269001
				282 *	R7		00270001
				283 *	R8		00271001
				284 *	R9		00272001
				285 *			00273001
000266	5840 D99C	0099C		286 OPTAB	L	R4,ZLESTA	00274001
00026A	5860 D994		00994	287	L	R6,ZSUDAD	00275001
00026E	5880 D9A0	009A0		288	L	R8,ZOTAFILL	00276001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				289 *			00277001
				290 *	DOES	LVTAB GROUP CORRESPOND TO THIS SUTAB ENTRY	00278001
				291 *			00279001
000272	D500 6000 4000 00000 00000			292 OPT1	CLC	0(1,R6),0(R4)	00280001
000278	4740 C2A4		002A4	293	BL	OPT3	00281001
00027C	1854			294	LR	R5,R4	00282001
00027E	4720 C306		00306	295	BH	OPT6	00283001
000282	D502 5001 6004 00001 00004			296 OPT2	CLC	1(3,R5),4(R6)	00284001
000288	4780 C324		00324	297	BE	OPT71	00285001
00028C	D502 5001 6007 00001 00007			298	CLC	1(3,R5),7(R6)	00286001
000292	4780 C31A		0031A	299	BE	OPT7	00287001
000296	4150 5004		00004	300	LA	R5,4(0,R5)	00288001
00029A	D500 5000 4000 00000 00000			301	CLC	0(1,R5),0(R4)	00289001
0002A0	4780 C282		00282	302	BE	OPT2	00290001
0002A4	5980 D9A8		009A8	303 OPT3	C	R8,ZOTMAX	00291001
0002A8	4780 C37A		0037A	304	BNL	OPT10	00292001
0002AC	D20D 8000 6000 00000 00000			305 OPT4	MVC	0(14,R8),0(R6)	00293001
0002B2	1B22			306	SR	R2,R2	00294001
0002B4	4320 8000		00000	307	IC	R2,0(0,R8)	00295001
0002B8	1B00			308	SR	R0,R0	00296001
0002BA	4302 C5F8		005F8	309 OPT42	IC	R0,FOR1(R2)	00297001
0002BE	4A00 C802		00802	310	AH	R0,KH1	00298001
0002C2	5500 C7F8		007F8	311	CL	R0,KF86	00299001
0002C6	4740 C2D2		002D2	312	BL	OPT44	00300001
0002CA	4112 D478		00478	313	LA	R1,FSTAB(R2)	00301001
0002CE	9680 1000	00000		314	OI	0(R1),X'80'	00302001
0002D2	4202 C5F8		005F8	315 OPT44	STC	R0,FOR1(R2)	00303001
0002D6	4322 C6F8		006F8	316	IC	R2,FOR2(R2)	00304001
0002DA	5520 C5F0		005F0	317	CL	R2,KF0	00305001
0002DE	4780 C2EA		002EA	318	BE	OPT46	00306001
0002E2	4B20 C802		00802	319	SH	R2,KH1	00307001
0002E6	47F0 C2BA		002BA	320	B	OPT42	00308001
				321 *			00309001
0002EA	4180 800E		0000E	322 OPT46	LA	R8,14(,R8)	00310001
0002EE	4160 600E		0000E	323 OPT5	LA	R6,14(,R6)	00311001
0002F2	5960 D998		00998	324	C	R6,ZSUDEN	00312001
0002F6	4780 C382		00382	325	BE	TERMIN	00313001
0002FA	9110 600A	0000A		326	TM	10(R6),SUCM	00314001
0002FE	4780 C272		00272	327	BZ	OPT1	00315001
000302	47F0 C2EE		002EE	328	B	OPT5	00316001
				329 *			00317001
				330 *	SCAN FOR NEXT	LVTAB GROUP	00318001
				331 *			00319001
000306	4150 5004		00004	332 OPT6	LA	R5,4(,R5)	00320001
00030A	D500 5000 4000 00000 00000			333	CLC	0(1,R5),0(R4)	00321001
000310	4780 C306		00306	334	BE	OPT6	00322001
000314	1845			335	LR	R4,R5	00323001
000316	47F0 C272		00272	336	B	OPT1	00324001
				337 *			00325001
00031A	D502 6004 C5F0 00004 005F0			338 OPT7	CLC	4(3,R6),KF0	00326001
000320	4780 C332		00332	339	BE	OPT72	00327001
000324	1B22			340 OPT71	SR	R2,R2	00328001
000326	4320 6000		00000	341	IC	R2,0(,R6)	00329001
00032A	4122 D478		00478	342	LA	R2,FSTAB(R2)	00330001
00032E	9680 2000	00000		343	OI	0(R2),X'80'	00331001
				344 *			00332001
				345 *	HANDLE	SUTAB CHAINING	00333001
				346 *			00334001
000332	9120 600A	0000A		347 OPT72	TM	10(R6),FIRSTM	00335001
000336	4780 C2EE		002EE	348	BZ	OPT5	00336001
00033A	1876			349	LR	R7,R6	00337001
00033C	4170 700E		0000E	350 OPT8	LA	R7,14(,R7)	00338001
000340	D502 700B 600B 0000B 0000B			351	CLC	11(3,R7),11(R6)	00339001
000346	4770 C33C		0033C	352	BNE	OPT8	00340001
00034A	D100 C5F6 700A 005F6 0000A			353	MVN	SUPOS(1),10(R7)	00341001
000350	D100 C357 600A 00357 0000A			354	MVN	*+7(1),10(R6)	00342001
000356	9500 C5F6		005F6	355	CLI	SUPOS,0	00343001
00035A	4770 C33C		0033C	356	BNE	OPT8	00344001
00035E	9130 700A	0000A		357	TM	10(R7),LASTM	00345001
000362	4710 C372		00372	358	BO	OPT9	00346001
000366	94CF 700A	0000A		359	NI	10(R7),OFFM	00347001
00036A	9620 700A	0000A		360	OI	10(R7),FIRSTM	00348001
00036E	47F0 C2EE		002EE	361	B	OPT5	00349001
				362 *			00350001
000372	94CF 700A	0000A		363 OPT9	NI	10(R7),OFFM	00351001
000376	47F0 C2EE		002EE	364	B	OPT5	00352001
				365 *			00353001
00037A	4590 C452		00452	366 OPT10	BAL	R9,OTACHA	00354001
00037E	47F0 C2AC		002AC	367	B	OPT4	00355001
				368 *			00356001
000382	5980 D9A0		009A0	369 TERMIN	C	R8,ZOTAFILL	00357001
000386	4770 C392		00392	370	BNE	TERMINNO	00358001
00038A	9620 D082	00082		371	OI	COMPLGS+2,NOPT	00359001
00038E	47F0 C3CA		003CA	372	B	TERM1	00360001
				373 *			00361001
000392	5980 D9A8		009A8	374 TERMINNO	C	R8,ZOTMAX	00362001
000396	4770 C39E		0039E	375	BNE	TERMIN1	00363001
00039A	4590 C452		00452	376	BAL	R9,OTACHA	00364001
00039E	92FF 8000	00000		377 TERMIN1	MVI	0(R8),X'FF'	00365001
0003A2	4590 C452		00452	378	BAL	R9,OTACHA	00366001
				379 *			00367001
				380	CHECK	OWRITE	00368001
0003A6	4110 C474		00474	381+	LA	1,OWRITE	02-IHBIN
0003AA	58E0 1008		00008	382+	L	14,8(0,1)	01-CHECK
0003AE	58F0 E034		00034	383+	L	15,52(0,14)	01-CHECK
0003B2	05EF			384+	BALR	14,15	01-CHECK



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0003B4	5800 D06C		0006C	385 *			00369001
				386	L	R0,AUT3DCB	00370001
				387 *			00371001
0003B8				388	CLOSE	((R0),REREAD),TYPE=T	00372001
0003B8	4510 C3C0		003C0	389+	CNOP	0,4	01-CLOSE
0003BC	00000000			390+	BAL	1,*+8	01-CLOSE
0003C0	5001 0000		00000	391+	DC	A(0)	01-CLOSE
0003C4	9290 1000		00000	392+	ST	R0,0(1,0)	01-CLOSE
0003C8	0A17			393+	MVI	0(1),144	01-CLOSE
				394+	SVC	23	01-CLOSE
				395 *			00373001
0003CA	4840 D578		00578	396	TERM1	LH R4,FSNMAX	00374001
0003CE	1B33			397	SR	R3,R3	00375001
0003D0	1B11			398	SR	R1,R1	00376001
0003D2	4110 1001		00001	399	TERM12	LA R1,1(,R1)	00377001
0003D6	1514			400	CLR	R1,R4	00378001
0003D8	4720 C410		00410	401	BH	TERM15	00379001
0003DC	4121 C6F8		006F8	402	LA	R2,F0R2(R1)	00380001
0003E0	D500 C5F0	2000 005F0	00000	403	CLC	KF0(1),0(R2)	00381001
0003E6	4780 C3D2		003D2	404	BE	TERM12	00382001
0003EA	4332 0000		00000	405	IC	R3,0(R2)	00383001
0003EE	1B22			406	SR	R2,R2	00384001
0003F0	4323 C5F7		005F7	407	IC	R2,F0R1-1(R3)	00385001
0003F4	5520 C7F8		007F8	408	CL	R2,KF86	00386001
0003F8	4740 C3D2		003D2	409	BL	TERM12	00387001
0003FC	4120 00FF		000FF	410	LA	R2,255	00388001
000400	4221 C5F8		005F8	411	STC	R2,F0R1(R1)	00389001
000404	4121 D478		00478	412	LA	R2,FSTAB(R1)	00390001
000408	9680 2000		00000	413	OI	0(R2),X'80'	00391001
00040C	47F0 C3D2		003D2	414	B	TERM12	00392001
				415 *			00393001
000410	5800 D9AC		009AC	416	TERM15	L R0,TABSIZE	00394001
000414	5810 D984		00984	417	L	R1,TSTART	00395001
				418 *			00396001
				419	FREEMAIN	R,LV=(0),A=(1)	00397001
000418	4110 1000		00000	420+	OS/VS2	RELEASE 3 VERSION -- 10/25/74	01-FREEM
00041C	0A0A			421+	LA	1,0(0,1)	01-FREEM
				422+	SVC	10	01-FREEM
				423 *			00398001
00041E	9108 D080		00080	424	TERMIN2	TM COMPFLGS,ERR	00399001
000422	4710 C42A		0042A	425	BO	TERMERR	00400001
000426	47F0 C804		00804	426	B	IEX40001	00401001
				427 *			00402001
00042A				428	TERMERR	XCTL EP=IEX51ER2	00403001
00042A	0700			429+	TERMERR	DS 0H	01-XCTL
00042C	45F0 C440		00440	430+	CNOP	0,4	02-IHBN
000430	00000438			431+	BAL	15,*+20	02-IHBN
000434	00000000			432+	DC	A(*+8)	02-IHBN
000438	C9C5E7F5F1C5D9F2			433+	DC	A(0)	02-IHBN
000440	0A07			434+	DC	CL8'IEX51ER2'	02-IHBN
				435+	SVC	7	01-XCTL
				436 *			00404001
000442	9620 D082		00082	437	NOSUTAB	OI COMPFLGS+2,NOPT	00405001
000446	47F0 C41E		0041E	438	B	TERMIN2	00406001
				439 *			00407001
00044A	9620 D082		00082	440	NOSUTAB1	OI COMPFLGS+2,NOPT	00408001
00044E	47F0 C3CA		003CA	441	B	TERM1	00409001
				442 *			00410001
000452	47F0 C4B8		004B8	443	OTACHA	B OTACHA2	00411001
				444 *			00412001
				445	CHECK	OWRITE	00413001
000456	4110 C474		00474	446+	LA	1,OWRITE	02-IHBN
00045A	58E0 1008		00008	447+	L	14,8(0,1)	01-CHECK
00045E	58F0 E034		00034	448+	L	15,52(0,14)	01-CHECK
000462	05EF			449+	BALR	14,15	01-CHECK
				450 *			00414001
000464	5800 D06C		0006C	451	OTACHA1	L R0,AUT3DCB	00415001
000468	5820 D9A0		009A0	452	L	R2,ZOTAFILL	00416001
00046C	5830 D0FC		000FC	453	L	R3,OPTABS	00417001
				454 *			00418001
				455	WRITE	OWRITE,SF,(R0),(R2),(R3)	00419001
000470				456+	CNOP	0,4	02-IHBRD
000470	4510 C488		00488	457+	BAL	1,*+24	02-IHBRD
000474	00000000			458+	OWRITE	DC F'0'	02-IHBRD
000478	00			459+	DC	X'00'	02-IHBRD
000479	20			460+	DC	X'20'	02-IHBRD
00047A	0000			461+	DC	AL2(0)	02-IHBRD
00047C	00000000			462+	DC	A(0)	02-IHBRD
000480	00000000			463+	DC	A(0)	02-IHBRD
000484	00000000			464+	DC	A(0)	02-IHBRD
000488	5001 0008		00008	465+	ST	R0,8(1,0)	02-IHBRD
00048C	5021 000C		0000C	466+	ST	R2,12(1,0)	02-IHBRD
000490	4031 0006		00006	467+	STH	R3,6(1,0)	02-IHBRD
000494	58F1 0008		00008	468+	L	15,8(1,0)	02-IHBRD
000498	58F0 F030		00030	469+	L	15,48(0,15)	02-IHBRD
00049C	05EF			470+	BALR	14,15	02-IHBRD
				471 *			00420001
00049E	5880 D9A4		009A4	472	L	R8,ZOTAWRI	00421001
0004A2	D203 D9A4	D9A0 009A4	009A0	473	MVC	ZOTAWRI(4),ZOTAFILL	00422001
0004A8	5080 D9A0		009A0	474	ST	R8,ZOTAFILL	00423001
0004AC	1828			475	LR	R2,R8	00424001
0004AE	5A20 D0FC		000FC	476	A	R2,OPTABS	00425001
0004B2	5020 D9A8		009A8	477	ST	R2,ZOTMAX	00426001
0004B6	07F9			478	BR	R9	00427001
				479 *			00428001
0004B8	9200 C453		00453	480	OTACHA2	MVI OTACHA+1,X'00'	00429001

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0004BC	47F0 C464		00464	481	B	OTACHA1	00430001
				482 *			00431001
				483 *	R11	START ADDR OF INPUT AREA	00432001
				484 *	R10	RECORD COUNT	00433001
				485 *	R9	RECORD IDENTIFICATION	00434001
				486 *	R8	RECORD LENGTH	00435001
				487 *	R7	RETURN REGISTER	00436001
				488 *			00437001
0004C0	5810 D06C		0006C	489 READ	L R1,AUT3DCB	R1 -> SYSUT3 DCB	00438001
0004C4	9201 D0D3	000D3		490	MVI SULTSTR+3,X'01'	ADDR FIRST INPUT RECORD	00439001
				491 *			00440001
				492	POINT (1),SULTSTR		00441001
0004C8	4100 D0D0		000D0	493+	LA 0,SULTSTR	LOAD PARAMETER REG 0	02-IHBN
0004CC	58F0 1054		00054	494+	L 15,84(0,1)	LOAD POINT RTN ADDR	01-POINT
0004D0	45EF 0004		00004	495+	BAL 14,4(15,0)	LINK TO POINT ROUTINE	01-POINT
				496 *			00442001
0004D4	5820 D06C		0006C	497 READ1	L R2,AUT3DCB	R2 -> SYSUT3 DCB	00443001
				498 *			00444001
				499	READ READR,SF,(R2),(R11),'S'		00445001
0004D8				500+	CNOP 0,4		02-IHBRD
0004D8	4510 C4F0		004F0	501+	BAL 1,*+24	LOAD DECB ADDRESS	02-IHBRD
0004DC	00000000			502+READR	DC F'0'	EVENT CONTROL BLOCK	02-IHBRD
0004E0	80			503+	DC X'80'	TYPE FIELD	02-IHBRD
0004E1	80			504+	DC X'80'	TYPE FIELD	02-IHBRD
0004E2	0000			505+	DC AL2(0)	LENGTH	02-IHBRD
0004E4	00000000			506+	DC A(0)	DCB ADDRESS	02-IHBRD
0004E8	00000000			507+	DC A(0)	AREA ADDRESS	02-IHBRD
0004EC	00000000			508+	DC A(0)	RECORD POINTER WORD	02-IHBRD
0004F0	5021 0008		00008	509+	ST R2,8(1,0)	STORE DCB ADDRESS	02-IHBRD
0004F4	50B1 000C		0000C	510+	ST R11,12(1,0)	STORE AREA ADDRESS	02-IHBRD
0004F8	58F1 0008		00008	511+	L 15,8(1,0)	LOAD DCB ADDRESS	02-IHBRD
0004FC	58F0 F030		00030	512+	L 15,48(0,15)	LOAD RDWR ROUTINE ADDR	02-IHBRD
000500	05EF			513+	BALR 14,15	LINK TO RDWR ROUTINE	02-IHBRD
				514 *			00446001
				515	CHECK READR		00447001
000502	4110 C4DC		004DC	516+	LA 1,READR	LOAD PARAMETER REG 1	02-IHBN
000506	58E0 1008		00008	517+	L 14,8(0,1)	PICK UP DCB ADDR	01-CHECK
00050A	58F0 E034		00034	518+	L 15,52(0,14)	LOAD CHECK ROUTINE ADDR	01-CHECK
00050E	05EF			519+	BALR 14,15	LINK TO CHECK ROUTINE	01-CHECK
				520 *			00448001
000510	5990 B000		00000	521	C R9,0(,R11)		00449001
000514	4770 C4D4		004D4	522	BNE READ1		00450001
000518	D203 B000	D988 00000	00988	523	MVC 0(4,R11),SAVETAB	RESTORE OVERLAYED PART	00451001
00051E	46A0 C524		00524	524	BCT R10,READ2	MORE RECORDS TO READ ?	00452001
000522	07F7			525	BR R7	NO	00453001
				526 *			00454001
000524	1A88			527 READ2	AR R11,R8	UPDATE CURRENT PT2	00455001
000526	D203 D988	B000 00988	00000	528	MVC SAVETAB(4),0(R11)		00456001
00052C	47F0 C4D4		004D4	529	B READ1		00457001
				530 *			00458001
				531 *	R11	LENGTH OF TABLE ENTRY	00459001
				532 *	R10	CURRENT PTR IN UNSORTED TABLE	00460001
				533 *	R9	END OF UNSORTED TABLE	00461001
				534 *	R15	RETURN REGISTER	00462001
				535 *	R10	RELATIVE ADDR IN SORTED TAB	00463001
				536 *	R8	PTR TO ACTUAL ADDR TAB ENTRY	00464001
				537 *		START ADDR OF SORTED TABLE	00465001
				538 *	R7	PTR TO ACTUAL COUNT TAB ENTRY	00466001
				539 *	R3	ADDR OF LAST COUNT TAB ENTRY	00467001
				540 *			00468001
000530	D200 D588	C5F0 00588	005F0	541 SORT	MVC ZCOSTA(1),KF0	ZERO TABLES	00469001
000536	D2FD D589	D588 00589	00588	542	MVC ZCOSTA+1(254),ZCOSTA		00470001
00053C	D2FE D687	D588 00687	00588	543	MVC ZCOSTA+255(255),ZCOSTA		00471001
000542	D2FE D786	D588 00786	00588	544	MVC ZADSTA(255),ZCOSTA		00472001
000548	D2FE D885	D588 00885	00588	545	MVC ZADSTA+255(255),ZCOSTA		00473001
00054E	58A0 D98C		0098C	546	L R10,ZSTAD	CURRENT PTR	00474001
				547 *			00475001
000552	95FF A000	00000		548 SORT1	CLI 0(R10),X'FF'	DELETED ENTRY ?	00476001
000556	4780 C56E		0056E	549	BE SORT2	YES	00477001
00055A	1B22			550	SR R2,R2	ISOLATE ACTUAL FSN	00478001
00055C	4320 A000		00000	551	IC R2,0(,R10)		00479001
000560	1A22			552	AR R2,R2	FSN * 2	00480001
000562	4832 D588		00588	553	LH R3,ZCOSTA(R2)	GET OLD COUNTER	00481001
000566	4130 3001		00001	554	LA R3,1(,R3)	INCR	00482001
00056A	4032 D588		00588	555	STH R3,ZCOSTA(R2)	STORE NEW COUNTER	00483001
				556 *			00484001
00056E	1AAB			557 SORT2	AR R10,R11	ADDR NEXT ENTRY	00485001
000570	19A9			558	CR R10,R9	END OF TABLE ?	00486001
000572	4740 C552		00552	559	BL SORT1	NO	00487001
				560 *			00488001
				561 *	BUILD ADDRESS TABLE		00489001
				562 *			00490001
000576	4820 D578		00578	563	LH R2,FSNMAX	GET ADDR OF LAST COUNT ENTRY	00491001
00057A	1A22			564	AR R2,R2		00492001
00057C	4132 D588		00588	565	LA R3,ZCOSTA(R2)	LAST ENTRY	00493001
000580	1BAA			566	SR R10,R10	RELATIVE ADDR IN NEW TABLE	00494001
000582	4170 D588		00588	567	LA R7,ZCOSTA	CURRENT COUNT TABLE PTR	00495001
000586	4180 D788		00788	568	LA R8,ZADSTA+2	CURRENT ADDR TABLE PTR	00496001
00058A	1973			569 SORT3	CR R7,R3	LAST ENTRY ?	00497001
00058C	4720 C5A8		005A8	570	BH SORT4	YES	00498001
000590	4810 7000		00000	571	LH R1,0(,R7)	NUMBER OF ENTRIES	00499001
000594	1C0B			572	MR R0,R11	COMPUTE TABLE LENGTH	00500001
000596	1AA1			573	AR R10,R1	RELATIVE TABLE ADDR	00501001
000598	40A0 8000		00000	574	STH R10,0(,R8)	MAKE ENTRY IN ADDR TABLE	00502001
00059C	4170 7002		00002	575	LA R7,2(,R7)	ADDR NEXT ENTRY	00503001
0005A0	4180 8002		00002	576	LA R8,2(,R8)	ADDR NEXT ENTRY	00504001



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0005A4	47F0 C58A		0058A	577	B	SORT3	00505001
				578	*		00506001
				579	*	BUILD SORTED TABLE	00507001
				580	*		00508001
0005A8	58A0 D98C		0098C	581	SORT4	L R10,ZSTAD	00509001
0005AC	5880 D990		00990	582	L	R8,ZSORTSTA	00510001
0005B0	182B			583	LR	R2,R11	00511001
0005B2	0620			584	BCTR	R2,0	00512001
0005B4	4220 C5D7		005D7	585	STC	R2,SORTM+1	00513001
0005B8	95FF A000	00000		586	SORT5	CLI 0(R10),X'FF'	00514001
0005BC	4780 C5DC		005DC	587	BE	SORT6	00515001
0005C0	1B22			588	SR	R2,R2	00516001
0005C2	4320 A000		00000	589	IC	R2,0(,R10)	00517001
0005C6	1A22			590	AR	R2,R2	00518001
0005C8	4832 D786		00786	591	LH	R3,ZADSTA(R2)	00519001
0005CC	1803			592	LR	R0,R3	00520001
0005CE	1A0B			593	AR	R0,R11	00521001
0005D0	4002 D786		00786	594	STH	R0,ZADSTA(R2)	00522001
0005D4	1A38			595	AR	R3,R8	00523001
0005D6	D200 3000 A000 00000 00000		00000	596	SORTM	MVC 0(0,R3),0(R10)	00524001
0005DC	1AAB			597	SORT6	AR R10,R11	00525001
0005DE	19A9			598	CR	R10,R9	00526001
0005E0	4770 C5B8		005B8	599	BNE	SORT5	00527001
0005E4	07FF			600	BR	R15	00528001
				601	*		00529001
0005E6	0000						
0005E8				602	DC	0F'0'	00530001
0005E8	E2E4E3C2			603	SUTYPE	DC C'SUTB'	00531001
0005EC	D3E5E3C2			604	LVTYPE	DC C'LVTB'	00532001
0005F0	00000000			605	KF0	DC F'0'	00533001
0005F4	0008			606	KH8	DC H'8'	00534001
0005F6	00			607	SUPOS	DC X'00'	00535001
0005F7	00						
0005F8				608	DC	0F'0'	00536001
0005F8	0000000000000000			609	FOR1	DC XL256'00'	00537001
0006F8	0000000000000000			610	FOR2	DC XL256'00'	00538001
0007F8	00000056			611	KF86	DC F'86'	00539001
0007FC	000000000000			612	FOR4	DC 3H'0'	00540001
000802	0001			613	KH1	DC H'1'	00541001
				614	*		00542001

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				616 *			00544001
				617 *		CALCULATE AND RESERVE SPACE NEEDED	00545001
				618 *			00546001
000804	4120 CA96	00A96		619 IEX40001	LA R2, INERR1		00547001
000808	5020 D090	00090		620	ST R2, ERET	PROVIDE DIRECTORY RETURN ADDR	00548001
00080C	1B22			621	SR R2, R2	INIT LENGTH OF RES AREA	00549001
00080E	5830 D0E0	000E0		622	L R3, SRCE15	GET LENGTH OF 1ST SOURCE BUFFER	00550001
000812	9140 D082	00082		623	TM COMPLFGS+2, SPIC	SOURCE PROGRAM IN STORAGE ?	00551001
000816	4710 C81C	0081C		624	BO IN16	YES	00552001
00081A	1823			625	LR R2, R3	NO, OBTAIN A SECOND BUFFER	00553001
00081C	9120 D082	00082		626 IN16	TM COMPLFGS+2, NOPT	ANY OPTAB ?	00554001
000820	4710 C82C	0082C		627	BO IN17	NO	00555001
000824	5840 D0FC	000FC		628	L R4, OPTABS	OBTAIN LENGTH OF OPTAB BUFFER	00556001
000828	1A24			629	AR R2, R4	ADD TO TOTAL LENGTH	00557001
00082A	1A24			630	AR R2, R4	ADD LENGTH OF 2ND OPTAB BUFFER	00558001
00082C	5860 D108	00108		631 IN17	L R6, OOSTACKS	OBTAIN LENGTH OF OPERATOR STACK	00559001
000830	1A26			632	AR R2, R6	ADD TO TOTAL LENGTH	00560001
000832	4870 CAC6	00AC6		633	LH R7, LLAT	OBTAIN LENGTH OF LAT	00561001
000836	1A27			634	AR R2, R7	ADD TO TOTAL LENGTH	00562001
000838	5020 D62C	0062C		635	ST R2, FREEMSIZ	STORE LENGTH OF RESERVED AREA	00563001
				636 *			00564001
				637	GETMAIN R, LV=(R2)	RESERVE AREA	00565001
				638+*	OS/VS2 RELEASE 4 VERSION -- 10/21/75		01-GETMA
00083C	1802			639+	LR 0, R2	LOAD LENGTH	01-GETMA
00083E	4510 C842	00842		640+	BAL 1, *+4	INDICATE GETMAIN	01-GETMA
000842	0A0A			641+	SVC 10	ISSUE GETMAIN SVC	01-GETMA
				642 *			00566001
000844	4150 CAAE	00AAE		643	LA R5, INERR2		00567001
000848	5050 D090	00090		644	ST R5, ERET	PROVIDE NEW DIR RETURN ADDR	00568001
00084C	5010 D628	00628		645	ST R1, FREEMADR	STORE ADDR OF RESERVED AREA	00569001
				646 *			00570001
				647 *		LOAD REGISTERS FOR REST OF PHASE	00571001
				648 *			00572001
000850	5880 D0C8	000C8		649	L R8, IBUF1		00573001
000854	5080 D600	00600		650	ST R8, SOURCEB	SET FIRST BUFFER AS CURRENT	00574001
000858	18A1			651	LR R10, R1	GET CORRECT REG FOR OPT ST ADDR	00575001
00085A	9140 D082	00082		652	TM COMPLFGS+2, SPIC	SOURCE PROGRAM IN STORAGE ?	00576001
00085E	4710 C86E	0086E		653	BO IN18	YES	00577001
000862	50A0 D5FC	005FC		654	ST R10, IBUF2	NO, STORE ADDR OF 2ND INPUT BUF	00578001
000866	50A0 D604	00604		655	ST R10, RSRCB	SECOND BUFFER = READ BUFFER	00579001
00086A	41A3 A000	00000		656	LA R10, 0(R3, R10)	GET ADDR OF NEXT RESERVED AREA	00580001
00086E	9120 D082	00082		657 IN18	TM COMPLFGS+2, NOPT	ANY OPTAB ?	00581001
000872	4710 C892	00892		658	BO IN19	NO	00582001
000876	50A0 D608	00608		659	ST R10, OPBUF1	YES, STORE ADDR OF FIRST OPTBUF	00583001
00087A	50A0 D618	00618		660	ST R10, AOPTABE	ADDR FIRST OPTAB ENTRY	00584001
00087E	50A0 D610	00610		661	ST R10, OPBUF8	FIRST OPTBUF = CURRENT	00585001
000882	41A4 A000	00000		662	LA R10, 0(R4, R10)	GET ADDR OF SECOND OPTAB BUFFER	00586001
000886	50A0 D60C	0060C		663	ST R10, OPBUF2	STORE -'-	00587001
00088A	50A0 D614	00614		664	ST R10, ROPTB	2ND OPTBUF = READ BUFFER	00588001
00088E	41A4 A000	00000		665	LA R10, 0(R4, R10)	GET ADDR OF OPERATOR STACK	00589001
000892	4196 A000	00000		666 IN19	LA R9, 0(R6, R10)	GET ADDR OF LAT	00590001
000896	5090 D61C	0061C		667	ST R9, LATAB	STORE IT	00591001
00089A	0690			668	BCTR R9, 0	GET ADDR OF OPERAND STACK	00592001
00089C	5860 D0A4	000A4		669	L R6, PRPT	PRPOINTER	00593001
				670 *			00594001
				671 *		INITIALIZE WORKAREA FOR REST OF PHASE	00595001
				672 *			00596001
0008A0	9120 D082	00082		673	TM COMPLFGS+2, NOPT	ANY OPTAB ?	00597001
0008A4	4780 C8B0	008B0		674	BZ IN3A	YES	00598001
0008A8	4140 DA53	00A53		675	LA R4, MAXFSN		00599001
0008AC	5040 D618	00618		676	ST R4, AOPTABE	NO, STORE ADDR OF MAX FS NUMBER	00600001
0008B0	4140 DA9F	00A9F		677 IN3A	LA R4, SUTAB-9		00601001
0008B4	5040 D620	00620		678	ST R4, SUTABCA	INIT LAST USED SUTAB ENTRY	00602001
0008B8	4140 DA30	00A30		679	LA R4, IOTAB		00603001
0008BC	4130 DA60	00A60		680	LA R3, GPBN	COMPUTE LENGTH OF AREA WITH 0	00604001
0008C0	1B34			681	SR R3, R4		00605001
0008C2	4230 C8CB	008CB		682	STC R3, IN3B+1	STORE IN MOVE INSTRUCTION	00606001
0008C6	9200 4000	00000		683	MVI 0(R4), 0		00607001
0008CA	D200 4001	4000 00001	00000	684 IN3B	MVC 1(0,R4), 0(R4)	MOVE ZEROES	00608001
0008D0	92FF DA53	00A53		685	MVI MAXFSN, X'FF'	INSERT MAX FS NUMBER	00609001
0008D4	9207 DA43	00A43		686	MVI CII+1, X'07'		00610001
0008D8	9206 DA45	00A45		687	MVI CIR+1, X'06'		00611001
0008DC	92F0 DA54	00A54		688	MVI CLEARDIS, X'F0'		00612001
0008E0	9208 DA57	00A57		689	MVI ONEENTRY+1, X'08'	INSERT VALUES FOR LONG PREC	00613001
0008E4	D201 DA62	CACA 00A62	00ACA	690	MVC MAXOVERF(2), LONG		00614001
0008EA	9102 D080	00080		691	TM COMPLFGS, LNG	LONG PRECISION ?	00615001
0008EE	4710 C900	00900		692	BO IN3	YES, BRANCH	00616001
0008F2	9204 DA57	00A57		693	MVI ONEENTRY+1, X'04'	SHORT, CHANGE VALUES	00617001
0008F6	9210 DA58	00A58		694	MVI PRECMASK, X'10'		00618001
0008FA	D201 DA62	CAC8 00A62	00AC8	695	MVC MAXOVERF(2), SHORT		00619001
000900	92FF DA61	00A61		696 IN3	MVI GPBN+1, X'FF'		00620001
000904	D201 D09C	DA50 0009C	00A50	697	MVC SEMCNT, KH0	ZERO SEMICOLON COUNTER	00621001
				698 *			00622001
				699 *		INITIALIZE OPERATOR STACK	00623001
				700 *			00624001
00090A	9225 A000	00000		701	MVI 0(R10), X'25'	INSERT OPERATOR ALPHA	00625001
				702 *			00626001
				703 *		INITIALIZATION OF LABEL ADDRESS TAB	00627001
				704 *			00628001
00090E	5820 D61C	0061C		705	L R2, LATAB		00629001
000912	9200 2000	00000		706	MVI 0(R2), 0	ZERO BEGINNING OF LAT	00630001
000916	D26A 2001	2000 00001	00000	707	MVC 1(LATBEG-1, R2), 0(R2)		00631001
00091C	4110 000F	0000F		708	LA 1, 15	ZERO	00632001
000920	41B0 204F	0004F		709	LA 11, 79(, R2)	REST	00633001
000924	D2FF B001	B000 00001	00000	710 TSTZER	MVC 1(256, 11), 0(11)	OF	00634001
00092A	41B0 B100	00100		711	LA 11, 256(, 11)	LAT	00635001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
00092E	4610 C924		00924	712	BCT	1,TSTZER	FOR	00636001
000932	D2AF B001 B000	00001	00000	713	MVC	1(176,11),0(11)	TEST	00637001
000938	4130 001C		0001C	714	LA	R3,LATNR		00638001
00093C	9280 2000		00000	715	MVI	0(R2),X'80'	TURN ON FIRST BIT IN LAT ENTRY	00639001
000940	4120 2004		00004	716	LA	R2,4(,R2)	STEP ADDR	00640001
000944	4630 C93C		0093C	717	BCT	R3,IN4	HANDLE NEXT ENTRY IF ANY	00641001
				718 *				00642001
				719 *				00643001
				720 *		START READ IN OF SOURCE PROGRAM, IF NECESSARY		00644001
000948	9140 D082		00082	721	TM	COMPLFGS+2,SPIC	SOURCE PROGRAM IN STORAGE ?	00645001
00094C	4780 C95C		0095C	722	BZ	IN6	NO, NO BRANCHES WILL BE TAKEN	00646001
000950	96F0 C95D		0095D	723	OI	IN6+1,X'F0'	YES, ALL BRANCHES WILL BE TAKEN	00647001
000954	96F0 C9B9		009B9	724	OI	IN9+1,X'F0'		00648001
000958	96F0 CA35		00A35	725	OI	IN14+1,X'F0'		00649001
				726 *				00650001
00095C	4700 C98E		0098E	727	IN6	NOP	BRANCH IF SOURCE PROG IN CORE	00651001
000960	5830 D068		00068	728	L	R3,AUT2DCB	R3 -> SYSUT2 DCB	00652001
				729 *				00653001
				730	READ	SRC1,SF,(3),(8)	READ FIRST SOURCE RECORD	00654001
000964				731+	CNOP	0,4		02-IHBRD
000964	4510 C97C		0097C	732+	BAL	1,*+24	LOAD DECB ADDRESS	02-IHBRD
000968	00000000			733+SRC1	DC	F'0'	EVENT CONTROL BLOCK	02-IHBRD
00096C	00			734+	DC	X'00'	TYPE FIELD	02-IHBRD
00096D	80			735+	DC	X'80'	TYPE FIELD	02-IHBRD
00096E	0000			736+	DC	AL2(0)	LENGTH	02-IHBRD
000970	00000000			737+	DC	A(0)	DCB ADDRESS	02-IHBRD
000974	00000000			738+	DC	A(0)	AREA ADDRESS	02-IHBRD
000978	00000000			739+	DC	A(0)	RECORD POINTER WORD	02-IHBRD
00097C	5031 0008		00008	740+	ST	3,8(1,0)	STORE DCB ADDRESS	02-IHBRD
000980	5081 000C		0000C	741+	ST	8,12(1,0)	STORE AREA ADDRESS	02-IHBRD
000984	58F1 0008		00008	742+	L	15,8(1,0)	LOAD DCB ADDRESS	02-IHBRD
000988	58F0 F030		00030	743+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR	02-IHBRD
00098C	05EF			744+	BALR	14,15	LINK TO RDWR ROUTINE	02-IHBRD
				745 *				00655001
00098E	0680			746	IN22	BCTR R8,0	INIT SOURCE POINTER	00656001
				747 *				00657001
				748 *		CONSTRUCT PBTAB3		00658001
				749 *				00659001
000990	4120 D278		00278	750	LA	R2,PBTAB2	START ADDR OF PBTAB2 IN WORKAREA	00660001
000994	4150 D630		00630	751	LA	R5,PBTAB3	START ADDR OF PBTAB3 IN WORKAR	00661001
000998	4840 D09E		0009E	752	LH	R4,PBN	GET NUMBER OF PRG BLOCKS	00662001
00099C	4140 4001		00001	753	LA	R4,1(,R4)		00663001
0009A0	D201 5000	2000	00000	754	IN8	MVC	0(2,R5),0(R2)	MOVE ONE PBTAB2 ENTRY
0009A6	D201 5002	DA50	00002	00A50	755	MVC	2(2,R5),KH0	ZERO REST OF ENTRY
0009AC	4120 2002		00002	756	LA	R2,2(,R2)	STEP ADDR	00666001
0009B0	4150 5004		00004	757	LA	R5,4(,R5)		00667001
0009B4	4640 C9A0		009A0	758	BCT	R4,IN8	MOVE NEXT IF NOT ALL MOVED	00668001
				759 *				00669001
				760 *		CHECK READ OF FIRST SOURCE RECORD IF NECESSARY		00670001
				761 *				00671001
0009B8	4700 C9CA		009CA	762	IN9	NOP	BRANCH IF SOURCE PROG IN CORE	00672001
				763 *				00673001
				764	CHECK	SRC1		00674001
0009BC	4110 C968		00968	765+	LA	1,SRC1	LOAD PARAMETER REG 1	02-IHBRD
0009C0	58E0 1008		00008	766+	L	14,8(0,1)	PICK UP DCB ADDR	01-CHECK
0009C4	58F0 E034		00034	767+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR	01-CHECK
0009C8	05EF			768+	BALR	14,15	LINK TO CHECK ROUTINE	01-CHECK
				769 *				00675001
0009CA	4120 0001		00001	770	IN10	LA	R2,1	INIT RECORD COUNT
0009CE	4220 DA59		00A59	771	STC	R2,NUMBBL	STORE IT	00677001
				772 *				00678001
				773 *		START READING OF OPTAB		00679001
				774 *				00680001
0009D2	9120 D082		00082	775	TM	COMPLFGS+2,NOPT	OPTAB EMPTY ?	00681001
0009D6	4710 CA34		00A34	776	BO	IN14	YES, BYPASS READING	00682001
0009DA	4120 CA34		00A34	777	LA	R2,IN14		00683001
0009DE	5020 D078		00078	778	ST	R2,EODUT3	GIVE ADDR OF EOD RTN TO DIR	00684001
0009E2	5820 D608		00608	779	L	R2,OPBUF1	GET ADDR OF FIRST BUFFER	00685001
0009E6	5840 D06C		0006C	780	L	R4,AUT3DCB	R4 -> SYSUT3 DCB	00686001
				781 *				00687001
				782	IN12	READ	OPTB1,SF,(4),(2),'S'	READ FIRST RECORD
0009EA	0700			783+	CNOP	0,4		02-IHBRD
0009EC	4510 CA04		00A04	784+IN12	BAL	1,*+24	LOAD DECB ADDRESS	02-IHBRD
0009F0	00000000			785+OPTB1	DC	F'0'	EVENT CONTROL BLOCK	02-IHBRD
0009F4	80			786+	DC	X'80'	TYPE FIELD	02-IHBRD
0009F5	80			787+	DC	X'80'	TYPE FIELD	02-IHBRD
0009F6	0000			788+	DC	AL2(0)	LENGTH	02-IHBRD
0009F8	00000000			789+	DC	A(0)	DCB ADDRESS	02-IHBRD
0009FC	00000000			790+	DC	A(0)	AREA ADDRESS	02-IHBRD
000A00	00000000			791+	DC	A(0)	RECORD POINTER WORD	02-IHBRD
000A04	5041 0008		00008	792+	ST	4,8(1,0)	STORE DCB ADDRESS	02-IHBRD
000A08	5021 000C		0000C	793+	ST	2,12(1,0)	STORE AREA ADDRESS	02-IHBRD
000A0C	58F1 0008		00008	794+	L	15,8(1,0)	LOAD DCB ADDRESS	02-IHBRD
000A10	58F0 F030		00030	795+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR	02-IHBRD
000A14	05EF			796+	BALR	14,15	LINK TO RDWR ROUTINE	02-IHBRD
				797 *				00689001
				798	CHECK	OPTB1		00690001
000A16	4110 C9F0		009F0	799+	LA	1,OPTB1	LOAD PARAMETER REG 1	02-IHBRD
000A1A	58E0 1008		00008	800+	L	14,8(0,1)	PICK UP DCB ADDR	01-CHECK
000A1E	58F0 E034		00034	801+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR	01-CHECK
000A22	05EF			802+	BALR	14,15	LINK TO CHECK ROUTINE	01-CHECK
				803 *				00691001
000A24	4700 CA34		00A34	804	IN13	NOP	BRANCH AFTER SECOND CHECK	00692001
000A28	5820 D60C		0060C	805	L	R2,OPBUF2	GET ADDR OF SECOND BUFFER	00693001
000A2C	96F0 CA25		00A25	806	OI	IN13+1,X'F0'		00694001
000A30	47F0 C9EC		009EC	807	B	IN12	READ SECOND RECORD	00695001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				808 *			00696001
				809 *	READ SECOND SOURCE RECORD IF ANY		00697001
				810 *			00698001
000A34	4700 CA7C		00A7C	811 IN14	NOP	IN15	00699001
000A38	4120 CA7C		00A7C	812	LA	R2, IN15	00700001
000A3C	5020 D074		00074	813	ST	R2, EODUT2	00701001
000A40	5820 D5FC		005FC	814	L	R2, IBUF2	00702001
				815 *			00703001
				816	READ	SRC2,SF,(3),(2)	00704001
000A44				817+	CNOP	0,4	02-IHBRD
000A44	4510 CA5C		00A5C	818+	BAL	1,*+24	02-IHBRD
000A48	00000000			819+SRC2	DC	F'0'	02-IHBRD
000A4C	00			820+	DC	X'00'	02-IHBRD
000A4D	80			821+	DC	X'80'	02-IHBRD
000A4E	0000			822+	DC	AL2(0)	02-IHBRD
000A50	00000000			823+	DC	A(0)	02-IHBRD
000A54	00000000			824+	DC	A(0)	02-IHBRD
000A58	00000000			825+	DC	A(0)	02-IHBRD
000A5C	5031 0008		00008	826+	ST	3,8(1,0)	02-IHBRD
000A60	5021 000C		0000C	827+	ST	2,12(1,0)	02-IHBRD
000A64	58F1 0008		00008	828+	L	15,8(1,0)	02-IHBRD
000A68	58F0 F030		00030	829+	L	15,48(0,15)	02-IHBRD
000A6C	05EF			830+	BALR	14,15	02-IHBRD
				831 *			00705001
				832	CHECK	SRC2	00706001
000A6E	4110 CA48		00A48	833+	LA	1,SRC2	02-IHBRD
000A72	58E0 1008		00008	834+	L	14,8(0,1)	01-CHECK
000A76	58F0 E034		00034	835+	L	15,52(0,14)	01-CHECK
000A7A	05EF			836+	BALR	14,15	01-CHECK
				837 *			00707001
000A7C	94F7 D082		00082	838 IN15	NI	COMPFLGS+2,255-NOSC	00708001
				839 *			00709001
				840 *	XCTL TO NEXT LOAD MODULE		00710001
				841 *			00711001
				842	XCTL	EP=IEX50000	00712001
000A80				843+	CNOP	0,4	02-IHBRD
000A80	45F0 CA94		00A94	844+	BAL	15,*+20	02-IHBRD
000A84	00000A8C			845+	DC	A(*+8)	02-IHBRD
000A88	00000000			846+	DC	A(0)	02-IHBRD
000A8C	C9C5E7F5F0F0F0F0			847+	DC	CL8'IEX50000'	02-IHBRD
000A94	0A07			848+	SVC	7	01-XCTL
				849 *			00713001
				850 *	DIRECTORY RETURN BEFORE GETMAIN		00714001
				851 *			00715001
				852 INERR1	XCTL	EP=IEX51ER2	00716001
000A96				853+INERR1	DS	0H	01-XCTL
000A96	0700			854+	CNOP	0,4	02-IHBRD
000A98	45F0 CAAC		00AAC	855+	BAL	15,*+20	02-IHBRD
000A9C	00000AA4			856+	DC	A(*+8)	02-IHBRD
000AA0	00000000			857+	DC	A(0)	02-IHBRD
000AA4	C9C5E7F5F1C5D9F2			858+	DC	CL8'IEX51ER2'	02-IHBRD
000AAC	0A07			859+	SVC	7	01-XCTL
				860 *			00717001
				861 *	DIRECTORY RETURN AFTER GETMAIN		00718001
				862 *			00719001
				863 INERR2	XCTL	EP=IEX51ER1	00720001
000AAE				864+INERR2	DS	0H	01-XCTL
000AAE	0700			865+	CNOP	0,4	02-IHBRD
000AB0	45F0 CAC4		00AC4	866+	BAL	15,*+20	02-IHBRD
000AB4	00000ABC			867+	DC	A(*+8)	02-IHBRD
000AB8	00000000			868+	DC	A(0)	02-IHBRD
000ABC	C9C5E7F5F1C5D9F1			869+	DC	CL8'IEX51ER1'	02-IHBRD
000AC4	0A07			870+	SVC	7	01-XCTL
				871 *			00721001
				872 *	CONSTANTS		00722001
				873 *			00723001
000AC6	1000			874 LLAT	DC	H'4096'	00724001
000AC8	0FFC			875 SHORT	DC	H'4092'	00725001
000ACA	0FF8			876 LONG	DC	H'4088'	00726001
				877 *			00727001
000AD0				878	LTORG		00728001
				879 *			00729001
000000		00000	00DA8	880 WORKAREA	DSECT		00730001
				881 *			00731001
				882	COPY	WORKAREA	00732001
				883=*			00001001
				884=*	WORKAREA - MAPPING CSECT IEX00001		00002001
				885=*			00003001
				886=*	ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT		00004001
				887=*			00005001
000000	0000000000000000			888=SAVEAREA	DC	18F'0'	00006001
				889=*			00007001
				890=*	DCB ADDRS		00008001
				891=*			00009001
000048				892=DCBTABLE	DC	0F'0'	00010001
000048	00000000			893=ALINDCB	DC	A(0)	00011001
00004C	00000000			894=	DC	A(0)	00012001
000050	00000000			895=	DC	A(0)	00013001
000054	00000000			896=	DC	A(0)	00014001
000058	00000000			897=ASYSDCB	DC	A(0)	00015001
00005C	00000000			898=APRTDCB	DC	A(0)	00016001
000060	00000000			899=APCHDCB	DC	A(0)	00017001
000064	00000000			900=AUT1DCB	DC	A(0)	00018001
000068	00000000			901=AUT2DCB	DC	A(0)	00019001
00006C	00000000			902=AUT3DCB	DC	A(0)	00020001
				903=*			00021001

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

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          904=*      END OF DATA EXIT ADDRS                                00022001
          905=*
000070 00000000      906=EODUT1 DC A(0)                                SYSUT1      00024001
000074 00000000      907=EODUT2 DC A(0)                                SYSUT2      00025001
000078 00000000      908=EODUT3 DC A(0)                                SYSUT3      00026001
00007C 00000000      909=EODIN  DC A(0)                                SYSIN       00027001
          910=*
          911=*      OPTION SWITCHES IN COMPFGLS                          00028001
          912=*
          913=*      ALLOCATION OF THE BIT POSITIONS IN COMPFGLS -          00031001
          914=*
          915=*      PURPOSE                                POSITION          00033001
          916=*      BYTE 1                                BYTE 2          00034001
          917=*      01234567                            01234567        00035001
          918=*
          919=*      COMPMODE (SYNTAX CHECK) X                          00037001
          920=*      SUBSCRIPT OPTIMIZATION X                          00038001
          921=*      WARNING ERROR X                                  00039001
          922=*      SERIOUS ERROR X                                  00040001
          923=*      TERMINATING ERROR X                              00041001
          924=*      PROCEDURE/PROGRAM X                              00042001
          925=*      LONG/SHORT PRECISION X                           00043001
          926=*      OPERAND X                                       00044001
          927=*
          928=*      NOSOURCE/SOURCE X                               00046001
          929=*      NOLOAD/LOAD X                                   00047001
          930=*      NODECK/DECK X                                   00048001
          931=*      ISO/EBCDIC X                                    00049001
          932=*      PROGRAM INTERRUPT X                             00050001
          933=*      TERMINATING PHASE ENTERED X                     00051001
          934=*      NO BUFFERS ASSIGNED X                           00052001
          935=*      NO COMPILATION POSSIBLE X                       00053001
          936=*
          937=*      SYSPRINT DOWN X                                 00055001
          938=*      WHOLE SOURCE PROG IN CORE X                     00056001
          939=*      NO OPTAB X                                       00057001
          940=*      SYSPRINT NOT OPENED X                           00058001
          941=*      ERROR UNRELATED TO SEMICOLON NR X               00059001
          942=*      NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT) X 00060001
          943=*      60 CHARACTER SET X                               00061001
          944=*      (RESERVED) X                                    00062001
          945=*
000080 00220000      946=COMPFGLS DC X'00220000' PARAMETERS AND SWITCHES 00064001
          947=*
          948=*      OPTION SWITCHES IN COMPFGLS                          00065001
          949=*
          00080      950=COMPMODE EQU X'80' SYNTAX CHECK MODE          00068001
          00040      951=SUBSCOPT EQU X'40' SUBSCRIPT OPTIMIZATION      00069001
          000FB      952=PGR EQU X'FB'                                00070001
          00004      953=PROC EQU X'04' PRECOMPILED PROCEDURE          00071001
          954=*
          000FD      955=SHRT EQU X'FD'                                00072001
          00002      956=LNG EQU X'02'                                00073001
          00001      957=OPERAND EQU X'01'                            00074001
          958=*
          959=*      ERROR SEVERITY INDICATORS IN COMPFGLS              00075001
          960=*
          00020      961=WERR EQU X'20' WARNING ERROR                  00076001
          00010      962=SERR EQU X'10' SERIOUS ERROR                 00077001
          00008      963=TERR EQU X'08' TERMINATING ERROR             00078001
          964=*
          965=*      OPTION SWITCHES IN COMPFGLS+1                      00079001
          966=*
          0007F      967=SRCE EQU X'7F'                                00080001
          00080      968=NSRCE EQU X'80'                                00081001
          969=*
          000BF      970=LOAD EQU X'BF'                                00082001
          00040      971=NLOAD EQU X'40'                                00083001
          972=*
          000DF      973=DECK EQU X'DF'                                00084001
          00020      974=NDECK EQU X'20'                                00085001
          975=*
          000EF      976=EBCDIC EQU X'EF'                                00086001
          00010      977=ISO EQU X'10'                                00087001
          978=*
          979=*      TERMINATION SWITCHES IN COMPFGLS+1                  00088001
          980=*
          00008      981=ERR EQU X'08' PROGRAM INTERRUPT HAS           00089001
          982=*      OCCURED IN COMPILER                                00090001
          00004      983=TERM EQU X'04' LAST PHASE HAS BEEN ENTERED    00091001
          00002      984=NOBUF EQU X'02' ERROR POOL IS IN WORKAREA     00092001
          985=*      NO SCE PROG BUFF 1                                00093001
          00001      986=NOGO EQU X'01' COMPILATION NOT POSSIBLE       00094001
          987=*      DO NOT START SCAN 1                               00095001
          00003      988=NOBUNOGO EQU X'03' NOBUF AND NOGO             00096001
          989=*
          990=*      SWITCHES IN COMPFGLS+2                              00097001
          991=*
          00080      992=PRT EQU X'80' SYSPRINT NOT AVAILABLE          00098001
          00040      993=SPIC EQU X'40' SOURCE PROGRAM IN STORAGE       00099001
          00020      994=NOPT EQU X'20' NO SUBSCRIPT OPTIMIZATION      00100001
          00010      995=PRTNO EQU X'10' SYSPRINT NOT OPENED           00101001
          00008      996=NOSC EQU X'08' SEMICOLON COUNTER NOT VALID    00102001
          997=*
          00004      998=NOTEST EQU X'04'                                00103001
          000FB      999=TEST EQU X'FB' EMBED SC COUNT IN CODE (DEFAULT) 00104001
          00110001
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D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1000=*			00118001
		00002		1001=SET60	EQU	X'02'	00119001
				1002=*		60 CHARACTER SET IS TO BE USED	00120001
				1003=*		MISCELLANEOUS CONTROL INFORMATION	00121001
				1004=*			00122001
000084	0000B000			1005=SIZE	DC	F'45056'	00123001
000088	00000000			1006=PICADD	DC	A(0)	00124001
00008C	00000000			1007=HDING	DC	F'0'	00125001
000090	00000000			1008=ERET	DC	F'0'	00126001
				1009=*		AND I/O ERRORS	00127001
000094	0000000C			1010=PAGECNT	DC	PL4'0'	00128001
000098	0000			1011=LINCNT	DC	H'0'	00129001
00009A	0038			1012=MAXLINES	DC	H'56'	00130001
00009C	0000			1013=SEMCNT	DC	H'0'	00131001
00009E	0032			1014=PBN	DC	H'50'	00132001
0000A0	0000			1015=KBN	DC	H'0'	00133001
		0001C		1016=LATNR	EQU	28	00134001
		0006C		1017=LATBEG	EQU	4*(LATNR-1)	00135001
0000A2	006C			1018=LN	DC	AL2(LATBEG)	00136001
0000A4	00000000			1019=PRPT	DC	F'0'	00137001
0000A8	00000000			1020=SAVOUTA	DC	F'0'	00138001
0000AC				1021=OUTAREAZ	DS	F	00139001
0000B0	40404040			1022=PIDENT	DC	CL4' '	00140001
0000B4	0000000C			1023=CARDCNT	DC	PL4'0'	00141001
0000B8	00000000			1024=PRTRTADD	DC	A(0)	00142001
				1025=*			00143001
				1026=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	00144001
				1027=*			00145001
0000BC	00000278			1028=ERRPOOL	DC	A(PRELPOOL)	00146001
0000C0	00000278			1029=NEXTERR	DC	A(PRELPOOL)	00147001
0000C4				1030=ENDPOOL	DS	F	00148001
0000C8				1031=SRCE1ADD	DS	F	00149001
0000CC				1032=SRCE1END	DS	F	00150001
0000D0				1033=SULTSTR	DS	F	00151001
				1034=*			00152001
				1035=*			00153001
				1036=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	00154001
				1037=*			00155001
0000D4				1038=INBLKS	DS	H	00156001
0000D6				1039=PRTBLKS	DS	H	00157001
0000D8				1040=LINBLKS	DS	H	00158001
0000DA				1041=PCHBLKS	DS	H	00159001
0000DC				1042=POOLS	DS	F	00160001
0000E0				1043=SRCE1S	DS	F	00161001
		000E0		1044=SRCE3S	EQU	SRCE1S	00162001
0000E4				1045=ITAB10S	DS	F	00163001
0000E8				1046=ITAB20S	DS	F	00164001
0000EC				1047=ITAB30S	DS	F	00165001
0000F0				1048=CRIDTAB	DS	F	00166001
0000F4				1049=SUTAB30S	DS	F	00167001
0000F8				1050=LVTAB30S	DS	F	00168001
0000FC				1051=OPTABS	DS	F	00169001
000100				1052=SUTAB40S	DS	F	00170001
000104				1053=LVTAB40S	DS	F	00171001
000108				1054=OOSTACKS	DS	F	00172001
				1055=*			00173001
				1056=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	00174001
				1057=*		EACH NEW PAGE	00175001
				1058=*			00176001
		0010C		1059=PAGEHEAD	EQU	*	00177001
00010C	4040404040404040			1060=PAGEHD1	DC	CL121' '	00178001
000185		00185	0010C	1061=	ORG	PAGEHD1	00179001
00010C	F1			1062=PAGEHD1C	DC	C'1'	00180001
00010D	4040404040404040			1063=	DC	CL10' '	00181001
000117	4040404040404040			1064=PAGEHD1D	DC	CL100' '	00182001
00017B		0017B	0017D	1065=	ORG	PAGEHD1+113	00183001
00017D	D7C1C7C5			1066=PAGEHD1P	DC	CL4'PAGE'	00184001
000181	40404040			1067=PAGENUMB	DC	CL4' '	00185001
000185		00185	00185	1068=	ORG		00186001
				1069=*			00187001
000185	4040404040404040			1070=PAGEHD2	DC	CL121' '	00188001
0001FE		001FE	00185	1071=	ORG	PAGEHD2	00189001
000185	40			1072=PAGEHD2C	DC	C' '	00190001
000186	4040404040404040			1073=	DC	CL10' '	00191001
000190	4040404040404040			1074=PAGEHD2D	DC	CL100' '	00192001
0001F4		001F4	001FE	1075=	ORG		00193001
				1076=*			00194001
0001FE	4040404040404040			1077=PAGEHD3	DC	CL121' '	00195001
000277		00277	001FE	1078=	ORG	PAGEHD3	00196001
0001FE	40			1079=PAGEHD3C	DC	C' '	00197001
0001FF	4040404040404040			1080=	DC	CL10' '	00198001
000209	4040404040404040			1081=PAGEHD3D	DC	CL100' '	00199001
00026D		0026D	00277	1082=	ORG		00200001
				1083=*			00201001
				1084=*			00202001
				1085=*		END OF STANDARD COMMON AREA	00203001
				1086=*			00204001
		00277		1087=STANDX	EQU	*	00205001
				1088=*			00206001
				1089=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL	00207001
				1090=*		PHASES AND PARTLY OVERLAY EACH OTHER	00208001
				1091=*			00209001
				1092=*		NAME OR PURPOSE	00210001
				1093=*		NEEDED BY PHASES	00211001
000277	00						
000278				1094=	DC	0F'0'	00212001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
000278	4040404040404040			1095=PRELPOOL	DC	236C' ',20C'X' PRELIMINARY ERROR POOL	IEX10	00213001
000378		00378	00416	1096=	ORG	PRELPOOL+414		00214001
				1097=*		DCB FOR SYSIN	11	00215001
				1098=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				1100+*		DATA CONTROL BLOCK		01-DCB
				1101+*				01-DCB
000416	0000							
000418				1102+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1104+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000418	0000000000000000			1106+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000428	00000000			1107+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1109+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00042C	00			1111+	DC	AL1(0)	BUFNO	01-DCB
00042D	000001			1112+	DC	AL3(1)	BUFCB	01-DCB
000430	0000			1113+	DC	AL2(0)	BUFL	01-DCB
000432	4000			1114+	DC	BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			1115+	DC	A(1)	IOBAD	01-DCB
				1117+*		FOUNDATION EXTENSION		01-DCB
000438	40			1119+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			1120+	DC	AL3(1)	EODAD	01-DCB
00043C	90			1121+	DC	BL1'10010000'	RECFM	01-DCB
00043D	000000			1122+	DC	AL3(0)	EXLST	01-DCB
				1124+*		FOUNDATION BLOCK		01-DCB
000440	E2E8E2C9D5404040			1126+	DC	CL8'SYSIN'	DDNAME	01-DCB
000448	02			1127+	DC	BL1'00000010'	OFLGS	01-DCB
000449	00			1128+	DC	BL1'00000000'	IFLG	01-DCB
00044A	5000			1129+	DC	BL2'0101000000000000'	MACR	01-DCB
				1131+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
00044C	00			1133+	DC	BL1'00000000'		RER1 01-DCB
00044D	000001			1134+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000450	00000001			1135+	DC	A(1)	SYNAD	01-DCB
000454	0000			1136+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			1137+	DC	AL2(0)	BLKSIZE	01-DCB
000458	00000000			1138+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			1139+	DC	A(1)	IOBA	01-DCB
000460	00			1140+	DC	AL1(0)	NCP	01-DCB
000461	000001			1141+	DC	AL3(1)	EOBR, EOBA	01-DCB
				1143+*		QSAM INTERFACE		01-DCB
000464	00000001			1145+	DC	A(1)	RECAD	01-DCB
000468	0000			1146+	DC	H'0'	QSW	01-DCB
00046A	0050			1147+	DC	AL2(80)	LRECL	01-DCB
00046C	00			1148+	DC	BL1'00000000'	EROPT	01-DCB
00046D	000001			1149+	DC	AL3(1)	CNTRL	01-DCB
000470	00000000			1150+	DC	F'0'	PRECL	01-DCB
000474	00000001			1151+	DC	A(1)	EOB	01-DCB
				1152=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)		00222001
				1153=*		EODAD=EODADIN (INSERTED BY IEX11)		00223001
000478		00478	00278	1154=	ORG	PRELPOOL		00224001
000278				1155=PB TAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50
000478				1156=	DS	0F		00225001
000478				1157=PB TAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20
000577		00577	00478	1158=	ORG	PB TAB1		00228001
000478				1159=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40
				1160=*			DCB FOR SYSUT1	11-30
				1161=SYSUT1	DCB	DDNAME=SYSUT1,		X00231001
				=		DSORG=PS,		X00232001
				=		MACRF=(R,W),		X00233001
				=		RECFM=F		00234001
				1163+*		DATA CONTROL BLOCK		01-DCB
				1164+*				01-DCB
000577	00							
000578				1165+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				1167+*		DIRECT ACCESS DEVICE INTERFACE		01-DCB
000578	0000000000000000			1169+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000588	00000000			1170+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				1172+*		COMMON ACCESS METHOD INTERFACE		01-DCB
00058C	00			1174+	DC	AL1(0)	BUFNO	01-DCB
00058D	000001			1175+	DC	AL3(1)	BUFCB	01-DCB
000590	0000			1176+	DC	AL2(0)	BUFL	01-DCB
000592	4000			1177+	DC	BL2'0100000000000000'	DSORG	01-DCB
000594	00000001			1178+	DC	A(1)	IOBAD	01-DCB

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	
				1180+*		FOUNDATION EXTENSION	01-DCB
000598 00				1182+	DC	BL1'0000000'	01-DCB
000599 000001				1183+	DC	AL3(1)	01-DCB
00059C 80				1184+	DC	BL1'1000000'	01-DCB
00059D 000000				1185+	DC	AL3(0)	01-DCB
				1187+*		FOUNDATION BLOCK	01-DCB
0005A0 E2E8E2E4E3F14040				1189+	DC	CL8'SYSUT1'	01-DCB
0005A8 02				1190+	DC	BL1'00000010'	01-DCB
0005A9 00				1191+	DC	BL1'00000000'	01-DCB
0005AA 2020				1192+	DC	BL2'0010000000100000'	01-DCB
				1194+*		BSAM-BPAM-QSAM INTERFACE	01-DCB
0005AC 00				1196+	DC	BL1'00000000'	01-DCB
0005AD 000001				1197+	DC	AL3(1)	01-DCB
0005B0 00000001				1198+	DC	A(1)	01-DCB
0005B4 0000				1199+	DC	H'0'	01-DCB
0005B6 0000				1200+	DC	AL2(0)	01-DCB
0005B8 00000000				1201+	DC	F'0'	01-DCB
0005BC 00000001				1202+	DC	A(1)	01-DCB
0005C0 00				1203+	DC	AL1(0)	01-DCB
0005C1 000001				1204+	DC	AL3(1)	01-DCB
				1206+*		BSAM-BPAM INTERFACE	01-DCB
0005C4 00000001				1208+	DC	A(1)	01-DCB
0005C8 0000				1209+	DC	H'0'	01-DCB
0005CA 0000				1210+	DC	AL2(0)	01-DCB
0005CC 00000001				1211+	DC	A(1)	01-DCB
				1212=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)	00235001
				1213=*		EODAD=EODAD1	00236001
				1214=*			00237001
0005D0				1215=	DS	0F	00238001
0005D0				1216=SPTAB	DS	CL255	00239001
0006D0				1217=	DS	0F	00240001
0006D0	006CD			1218=GPTAB	EQU	*-3	00241001
				1219=	DS	CL1510	00242001
				1220=*			00243001
				1221=*		END OF SYMLIB PART OF COMMON WORK AREA	00244001
				1222=*			00245001
				1223 *			00733001
000CB6	00CB6 00578			1224	ORG	SYSUT1	00734001
				1225 *			00735001
000578				1226 FSNMAX	DS	H	00736001
00057A				1227 LVCOUNT	DS	H	00737001
00057C				1228 SUCOUNT	DS	H	00738001
000580				1229 ZLEVEN	DS	F	00739001
000584				1230 ZSUTEN	DS	F	00740001
000588				1231 ZCOSTA	DS	255H	00741001
000786				1232 ZADSTA	DS	255H	00742001
000984				1233 TSTART	DS	F	00743001
000988				1234 SAVETAB	DS	F	00744001
00098C				1235 ZSTAD	DS	F	00745001
000990				1236 ZSORTSTA	DS	F	00746001
000994				1237 ZSUDAD	DS	F	00747001
000998				1238 ZSUDEN	DS	F	00748001
00099C				1239 ZLESTA	DS	F	00749001
0009A0				1240 ZOTAFILL	DS	F	00750001
0009A4				1241 ZOTAWRI	DS	F	00751001
0009A8				1242 ZOTMAX	DS	F	00752001
0009AC				1243 TABSIZE	DS	F	00753001
				1244 *			00754001
				1245 *		AREA USED BY COMPILATION PHASE	00755001
				1246 *			00756001
0009B0	009B0 00578			1247	ORG	SYSUT1	00757001
				1248 *			00758001
000578				1249 RETADR	DS	17F	00759001
0005BC				1250 PLACE14	DS	F	00760001
0005C0				1251 RUTI	DS	9F	00761001
0005E4				1252 RUTR	DS	4F	00762001
0005F4				1253 GPROLN	DS	H	00763001
0005F6				1254 KONSUM	DS	H	00764001
0005F8				1255 WORKPL	DS	F	00765001
				1256 IBUF1	EQU	SRCE1ADD	00766001
0005FC	000C8			1257 IBUF2	DS	A	00767001
000600				1258 SOURCEB	DS	A	00768001
000604				1259 RSRCB	DS	A	00769001
000608				1260 OPBUF1	DS	A	00770001
00060C				1261 OPBUF2	DS	A	00771001
000610				1262 OPBUFB	DS	A	00772001
000614				1263 ROPTB	DS	A	00773001
000618				1264 AOPTABE	DS	A	00774001
00061C				1265 LATAB	DS	A	00775001
				1266 APBTAB4	EQU	LATAB	00776001
000620	0061C			1267 SUTABCA	DS	A	00777001
000624				1268 STRETURN	DS	F	00778001
000628				1269 FREEMADR	DS	A	00779001
00062C				1270 FREEMSIZ	DS	F	00780001
				1271 *			00781001
000630				1272 PBTAB3	DS	1024C	00782001
				1273 *			00783001
000A30 0000000000000000				1274 IOTAB	DC	18X'00'	00784001
000A42 0000				1275 CII	DC	H'0'	00785001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000A44	0000			1276	CIR	DC H'0'	00786001
000A46	0000			1277	RII	DC H'0'	00787001
000A48	0000			1278	RIR	DC H'0'	00788001
000A4A	0000			1279	OPDPBN	DC H'0'	00789001
000A4C	0000			1280	OPDADR	DC H'0'	00790001
000A4E	0000			1281	OPDLN	DC H'0'	00791001
000A50	0000			1282	KH0	DC H'0'	00792001
000A52	00			1283	CFSN	DC X'00'	00793001
000A53	FF			1284	MAXFSN	DC X'FF'	00794001
000A54	F000			1285	CLEARDIS	DC X'F000'	00795001
000A56	0004			1286	ONEENTRY	DC H'4'	00796001
000A58		00A58	00A56	1287		ORG ONEENTRY	00797001
000A56	0008			1288		DC H'8'	00798001
000A58	10			1289	PRECMASK	DC X'10'	00799001
000A59		00A59	00A58	1290		ORG PRECMASK	00800001
000A58	00			1291		DC X'00'	00801001
000A59	00			1292	NUMBBL	DC X'00'	00802001
000A5A				1293		DS H	00803001
000A5C	0000			1294	SPBNST	DC H'0'	00804001
000A5E				1295		DS H	00805001
000A60	00FF			1296	GPBN	DC H'255'	00806001
000A62	0FFC			1297	MAXOVERF	DC H'4092'	00807001
000A64		00A64	00A62	1298		ORG MAXOVERF	00808001
000A62	0FF8			1299		DC H'4088'	00809001
000A64				1300	HALFW	DS H	00810001
000A66				1301	USPEI2	DS H	00811001
000A68				1302	USPEI4	DS H	00812001
000A6A				1303	WPLACE	DS H	00813001
000A6C				1304	XPLACE	DS H	00814001
000A6E				1305	YPLACE	DS H	00815001
000A70				1306	UPLACE	DS H	00816001
000A72				1307	VPLACE	DS C	00817001
000A73				1308	STRDNAME	DS 5C	00818001
000A78				1309	CBVTAB	DS 48C	00819001
000AA8				1310	SUTABC	DS 768C	00820001
000DA8		00DA8	00AA8	1311		ORG SUTABC	00821001
000AA8				1312	DSTAB	DS 608C	00822001
				1313	*		00823001
				1314	*	CHARACTER EQUATES	00824001
				1315	*		00825001
				1316		IEXCHAR	00826001
				1317+*			01-IEXCH
				1318+*		CHARACTER A - Z	01-IEXCH
				1319+*			01-IEXCH
00040				1320+XFA	EQU	X'40'	02-IEXCG
00041				1321+XFB	EQU	X'41'	02-IEXCG
00042				1322+XFC	EQU	X'42'	02-IEXCG
00043				1323+XFD	EQU	X'43'	02-IEXCG
00044				1324+XFE	EQU	X'44'	02-IEXCG
00045				1325+XFF	EQU	X'45'	02-IEXCG
00046				1326+XFG	EQU	X'46'	02-IEXCG
00047				1327+XFH	EQU	X'47'	02-IEXCG
00048				1328+XFI	EQU	X'48'	02-IEXCG
00049				1329+XFJ	EQU	X'49'	02-IEXCG
0004A				1330+XFK	EQU	X'4A'	02-IEXCG
0004B				1331+XFL	EQU	X'4B'	02-IEXCG
0004C				1332+XFM	EQU	X'4C'	02-IEXCG
0004D				1333+XFN	EQU	X'4D'	02-IEXCG
0004E				1334+XFO	EQU	X'4E'	02-IEXCG
0004F				1335+XFP	EQU	X'4F'	02-IEXCG
00050				1336+XFQ	EQU	X'50'	02-IEXCG
00051				1337+XFR	EQU	X'51'	02-IEXCG
00052				1338+XFS	EQU	X'52'	02-IEXCG
00053				1339+XFT	EQU	X'53'	02-IEXCG
00054				1340+XFU	EQU	X'54'	02-IEXCG
00055				1341+XFV	EQU	X'55'	02-IEXCG
00056				1342+XFW	EQU	X'56'	02-IEXCG
00057				1343+XFX	EQU	X'57'	02-IEXCG
00058				1344+XFY	EQU	X'58'	02-IEXCG
00059				1345+XFZ	EQU	X'59'	02-IEXCG
				1346+*			01-IEXCH
				1347+*		NATIONAL CHARACTERS	01-IEXCH
				1348+*			01-IEXCH
0005A				1349+XFDOLLAR	EQU	X'5A'	02-IEXCG
0005B				1350+XFUNDER	EQU	X'5B'	02-IEXCG
0005C				1351+XFHASH	EQU	X'5C'	02-IEXCG
0005D				1352+XFAT	EQU	X'5D'	02-IEXCG
				1353+*			01-IEXCH
				1354+*		NUMERIC 0 - 9	01-IEXCH
				1355+*			01-IEXCH
00030				1356+XF0	EQU	X'30'	02-IEXCG
00031				1357+XF1	EQU	X'31'	02-IEXCG
00032				1358+XF2	EQU	X'32'	02-IEXCG
00033				1359+XF3	EQU	X'33'	02-IEXCG
00034				1360+XF4	EQU	X'34'	02-IEXCG
00035				1361+XF5	EQU	X'35'	02-IEXCG
00036				1362+XF6	EQU	X'36'	02-IEXCG
00037				1363+XF7	EQU	X'37'	02-IEXCG
00038				1364+XF8	EQU	X'38'	02-IEXCG
00039				1365+XF9	EQU	X'39'	02-IEXCG
				1366+*			01-IEXCH
				1367+*		SPECIAL CHARS	01-IEXCH
				1368+*			01-IEXCH
00000				1369+XFPLUS	EQU	X'00'	02-IEXCG
00001				1370+XFMINUS	EQU	X'01'	02-IEXCG
00002				1371+XFASTER	EQU	X'02'	02-IEXCG

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		00003		1372+XFSLASH	EQU	X'03'	02-IEXCG
		00006		1373+XFLBRAC	EQU	X'06'	02-IEXCG
		00007		1374+XFCOLON	EQU	X'07'	02-IEXCG
		00008		1375+XFLSQBR	EQU	X'08'	02-IEXCG
		0000B		1376+XFSCOLON	EQU	X'0B'	02-IEXCG
		00010		1377+XFEQUAL	EQU	X'10'	02-IEXCG
		00011		1378+XFLT	EQU	X'11'	02-IEXCG
		00012		1379+XFGT	EQU	X'12'	02-IEXCG
		00020		1380+XFNOT	EQU	X'20'	02-IEXCG
		00022		1381+XFOR	EQU	X'22'	02-IEXCG
		00023		1382+XFAMPER	EQU	X'23'	02-IEXCG
		00025		1383+XFCOMMA	EQU	X'25'	02-IEXCG
		00026		1384+XFRBRAC	EQU	X'26'	02-IEXCG
		00028		1385+XFRSQBR	EQU	X'28'	02-IEXCG
		0002B		1386+XFLANK	EQU	X'2B'	02-IEXCG
		0002D		1387+XFPERIOD	EQU	X'2D'	02-IEXCG
		0002E		1388+XFQUOTE	EQU	X'2E'	02-IEXCG
				1389+*			01-IEEXCH
		0000C		1390+XFDQUOTE	EQU	X'0C'	02-IEXCG
				1391+*			01-IEEXCH
		0002C		1392+XFEXCLM	EQU	X'2C'	02-IEXCG
		0002C		1393+XFPERCT	EQU	X'2C'	02-IEXCG
				1394+*			01-IEEXCH
				1395+*	INTERNAL CONTROL CODES		01-IEEXCH
				1396+*			01-IEEXCH
		00005		1397+XFPOWER	EQU	X'05'	01-IEEXCH
		00016		1398+XFASSIGN	EQU	X'16'	01-IEEXCH
		00017		1399+XFGOTO	EQU	X'17'	01-IEEXCH
		00018		1400+XFFOR	EQU	X'18'	01-IEEXCH
		0001D		1401+XFIF	EQU	X'1D'	01-IEEXCH
		00027		1402+XFLABEL	EQU	X'27'	01-IEEXCH
		00029		1403+XFDELTA	EQU	X'29'	01-IEEXCH
		0002C		1404+XFEND	EQU	X'2C'	01-IEEXCH
		0002F		1405+XFZETA	EQU	X'2F'	01-IEEXCH
		0003E		1406+XFDECEPT	EQU	X'3E'	01-IEEXCH
				1407 *			00827001
				1408 *	REGISTER EQUATES		00828001
				1409 *			00829001
				1410	IEZREGS		00830001
		00000		1411+R0	EQU	0	01-IEZRE
		00001		1412+R1	EQU	1	01-IEZRE
		00002		1413+R2	EQU	2	01-IEZRE
		00003		1414+R3	EQU	3	01-IEZRE
		00004		1415+R4	EQU	4	01-IEZRE
		00005		1416+R5	EQU	5	01-IEZRE
		00006		1417+R6	EQU	6	01-IEZRE
		00007		1418+R7	EQU	7	01-IEZRE
		00008		1419+R8	EQU	8	01-IEZRE
		00009		1420+R9	EQU	9	01-IEZRE
		0000A		1421+R10	EQU	10	01-IEZRE
		0000B		1422+R11	EQU	11	01-IEZRE
		0000C		1423+R12	EQU	12	01-IEZRE
		0000D		1424+R13	EQU	13	01-IEZRE
		0000E		1425+R14	EQU	14	01-IEZRE
		0000F		1426+R15	EQU	15	01-IEZRE
				1427 *			00831001
000000				1428	END	IEX40000	00832001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
AOPTABE	4	00000618	FFFFFFFF	A	A		1264	660M 676M				
AUT2DCB	4	00000068	FFFFFFFF	A	A		901	728				
AUT3DCB	4	0000006C	FFFFFFFF	A	A		902	269 386 451 489 497 780				
CII	2	00000A42	FFFFFFFF	H	H		1275	686M				
CIR	2	00000A44	FFFFFFFF	H	H		1276	687M				
CLEARDIS	2	00000A54	FFFFFFFF	X	X		1285	688M				
COMPFLGS	4	00000080	FFFFFFFF	X	X		946	92 371M 424 437M 440M 623 626 652 657 673				
							691	721 775 838M				
COMPMODE	1	00000080			U		950	92				
EODUT2	4	00000074	FFFFFFFF	A	A		907	813M				
EODUT3	4	00000078	FFFFFFFF	A	A		908	778M				
ERET	4	00000090	FFFFFFFF	F	F		1008	127M 140M 620M 644M				
ERR	1	00000008			U		981	424				
FIRSTM	1	00000020			U		76	194 347 360				
FOR1	256	000005F8	00000001	X	X		609	103M 104M 309 315M 407 411M				
FOR2	256	000006F8	00000001	X	X		610	105M 122 316 402				
FOR4	2	000007FC	00000001	H	H		612	114M 115 117 121				
FREEMADR	4	00000628	FFFFFFFF	A	A		1269	645M				
FREEMSIZ	4	0000062C	FFFFFFFF	F	F		1270	635M				
FSNMAX	2	00000578	FFFFFFFF	H	H		1226	106 396 563				
FSTAB	255	00000478	FFFFFFFF	C	C		1159	167 187 206 313 342 412				
GPBN	2	00000A60	FFFFFFFF	H	H		1296	680 696M				
GPTAB	1	000006CD	FFFFFFFF	U			1218	108 118				
GP1	4	00000058	00000001	I			109	111B 120B 124B				
GP10	4	0000009E	00000001	I			126	113B				
IBUF1	4	000000C8	FFFFFFFF	U			1256	649				
IBUF2	4	000005FC	FFFFFFFF	A	A		1257	654M 814				
IEX40000	1	00000000	00000001	J			72	88U 1428				
IEX40001	4	00000804	00000001	I			619	426B				
INERR1	2	00000A96	00000001	H	H		853	619				
INERR2	2	00000AAE	00000001	H	H		864	643				
IN10	4	000009CA	00000001	I			770	762B				
IN12	4	000009EC	00000001	I			784	807B				
IN13	4	00000A24	00000001	I			804	806M				
IN14	4	00000A34	00000001	I			811	725M 776B 777 804B				
IN15	4	00000A7C	00000001	I			838	811B 812				
IN16	4	0000081C	00000001	I			626	624B				
IN17	4	0000082C	00000001	I			631	627B				
IN18	4	0000086E	00000001	I			657	653B				
IN19	4	00000892	00000001	I			666	658B				
IN22	2	0000098E	00000001	I			746	727B				
IN3	4	00000900	00000001	I			696	692B				
IN3A	4	000008B0	00000001	I			677	674B				
IN3B	6	000008CA	00000001	I			684	682M				
IN4	4	0000093C	00000001	I			715	717B				
IN6	4	0000095C	00000001	I			727	722B 723M				
IN8	6	000009A0	00000001	I			754	758B				
IN9	4	000009B8	00000001	I			762	724M				
IOTAB	1	00000A30	FFFFFFFF	X	X		1274	679				
KF0	4	000005F0	00000001	F	F		605	97 110 119 243 317 338 403 541				
KF86	4	000007F8	00000001	F	F		611	311 408				
KH0	2	00000A50	FFFFFFFF	H	H		1282	697 755				
KH1	2	00000802	00000001	H	H		613	107 112 310 319				
KH8	2	000005F4	00000001	H	H		606	131				
LASTM	1	00000030			U		78	201 213 357				
LATAB	4	0000061C	FFFFFFFF	A	A		1265	667M 705 1266				
LATBEG	1	0000006C			U		1017	707 1018				
LATNR	1	0000001C			U		1016	714 1017				
LLAT	2	00000AC6	00000001	H	H		874	633				
LNG	1	00000002			U		956	691				
LONG	2	00000ACA	00000001	H	H		876	690				
LVCOUNT	2	0000057A	FFFFFFFF	H	H		1227	248				
LVTAB30S	4	000000F8	FFFFFFFF	F	F		1050	250				
LVTYPE	4	000005EC	00000001	C	C		604	249				
MAXFSN	1	00000A53	FFFFFFFF	X	X		1284	675 685M				
MAXOVERF	2	00000A62	FFFFFFFF	H	H		1297	690M 695M 1298				
NOPT	1	00000020			U		994	371 437 440 626 657 673 775				
NOSC	1	00000008			U		996	838				
NOSUTAB	4	00000442	00000001	I			437	93B 98B				
NOSUTAB1	4	0000044A	00000001	I			440	229B				
NUMBBL	1	00000A59	FFFFFFFF	X	X		1292	771M				
OFFM	1	000000CF			U		79	359 363				
ONEENTRY	2	00000A56	FFFFFFFF	H	H		1286	689M 693M 1287				
OOSTACKS	4	00000108	FFFFFFFF	F	F		1054	631				
OPBUF8	4	00000610	FFFFFFFF	A	A		1262	661M				
OPBUF1	4	00000608	FFFFFFFF	A	A		1260	659M 779				
OPBUF2	4	0000060C	FFFFFFFF	A	A		1261	663M 805				
OPTABS	4	000000FC	FFFFFFFF	F	F		1051	129 239 241 453 476 628				
OPTB1	4	000009F0	00000001	F	F		785	799				
OPT1	6	00000272	00000001	I			292	327B 336B				
OPT10	4	0000037A	00000001	I			366	304B				
OPT2	6	00000282	00000001	I			296	302B				
OPT3	4	000002A4	00000001	I			303	293B				
OPT4	6	000002AC	00000001	I			305	367B				
OPT42	4	000002BA	00000001	I			309	320B				
OPT44	4	000002D2	00000001	I			315	312B				
OPT46	4	000002EA	00000001	I			322	318B				
OPT5	4	000002EE	00000001	I			323	328B 348B 361B 364B				
OPT6	4	00000306	00000001	I			332	295B 334B				
OPT7	6	0000031A	00000001	I			338	299B				
OPT71	2	00000324	00000001	I			340	297B				
OPT72	4	00000332	00000001	I			347	339B				
OPT8	4	0000033C	00000001	I			350	352B 356B				
OPT9	4	00000372	00000001	I			363	358B				
OTACHA	4	00000452	00000001	I			443	366B 376B 378B 480M				
OTACHA1	4	00000464	00000001	I			451	481B				
OTACHA2	4	000004B8	00000001	I			480	443B				



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
SUTABS6	2	00000152	00000001	I			195	217B				
SUTABS7	4	00000154	00000001	I			196	211B				
SUTABS8	4	00000172	00000001	I			205	200B				
SUTABS9	4	0000018E	00000001	I			213	198B				
SUTAB30S	4	000000F4	FFFFFFFF	F	F		1049	147				
SUTAB40S	4	00000100	FFFFFFFF	F	F		1052	128				
SUTYPE	4	000005E8	00000001	C	C		603	146				
SYSUT1	4	00000578	FFFFFFFF	F	F		1165	1224 1247				
TABSIZE	4	000009AC	FFFFFFFF	F	F		1243	132M 224	416			
TERMERR	2	0000042A	00000001	H	H		429	425B				
TERMIN	4	00000382	00000001	I			369	325B				
TERMINNO	4	00000392	00000001	I			374	370B				
TERMIN1	4	0000039E	00000001	I			377	375B				
TERMIN2	4	0000041E	00000001	I			424	126 438B				
TERM1	4	000003CA	00000001	I			396	139 372B	441B			
TERM12	4	000003D2	00000001	I			399	404B 409B	414B			
TERM15	4	00000410	00000001	I			416	401B				
TSTART	4	00000984	FFFFFFFF	F	F		1233	141M	148	159	219	237
TSTZER	6	00000924	00000001	I			710	712B	251	253	417	
WORKAREA	1	00000000	FFFFFFFF	J			880	91U				
ZADSTA	2	00000786	FFFFFFFF	H	H		1232	544M	545M	568	591	594M
ZCOSTA	2	00000588	FFFFFFFF	H	H		1231	541M	542M	543M	544	545
ZLESTA	4	0000099C	FFFFFFFF	F	F		1239	245M	262M	266	286	553
ZLEVEN	4	00000580	FFFFFFFF	F	F		1229	243	256	267		555M
ZOTAFILL	4	000009A0	FFFFFFFF	F	F		1240	240M	288	369	452	473
ZOTAWRI	4	000009A4	FFFFFFFF	F	F		1241	238M	472	473M		474M
ZOTMAX	4	000009A8	FFFFFFFF	F	F		1242	242M	245	258	260	303
ZSORTSTA	4	00000990	FFFFFFFF	F	F		1236	231M	261M	582	374	477M
ZSTAD	4	0000098C	FFFFFFFF	F	F		1235	221M	255M	546	581	
ZSUDAD	4	00000994	FFFFFFFF	F	F		1237	230M	287			
ZSUDEN	4	00000998	FFFFFFFF	F	F		1238	225M	228	324		
ZSUTEN	4	00000584	FFFFFFFF	F	F		1230	97	162	222	226	

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)												X390 3.1.04						2012/08/17 13.13	
0(0)	106M	107M	112M	128M	129M	130M	131M	132	308M	309M	310M	311	315	386M	392	416M	451M	465		
	493M	572M	592M	593M	594	639M														
1(1)	108M	109M	110	114	136M	141	273M	275N	276	313M	314	381M	382	390M	392N	393	398M	399M		
	400	402N	411N	412N	417M	421M	446M	447	457M	465N	466N	467N	468N	489M	494	501M	509N	510N		
	511N	516M	517	571M	572M	573	640M	645	651	708M	712M	732M	740N	741N	742N	765M	766	784M		
	792N	793N	794N	799M	800	818M	826N	827N	828N	833M	834									
2(2)	102M	103	121M	122N	126M	127	139M	140	167M	168	187M	188	206M	207	220M	221	223	237M		
	238	239M	240	241M	242	253M	254M	255	256M	257	258	260M	261	262	266M	267M	268	269M		
	275	306M	307M	309N	313N	315N	316M	316N	317	319M	340M	341M	342M	342N	343	402M	403	405N		
	406M	407M	408	410M	411	412M	413	452M	466	475M	476M	477	497M	509	550M	551M	552M	553N		
3(3)	555N	563M	564M	565N	583M	584M	585	588M	589M	590M	591N	594N	619M	620	621M	625M	629M	630M		
	632M	634M	635	639	705M	706	707	709	715	716M	750M	754	756M	770M	771	777M	778	779M		
	793	805M	812M	813	814M	827														
	115M	116M	117M	118M	118N	119	123	219M	220	224M	225	226M	227M	228	230	231	397M	405M		
4(4)	407N	453M	467	553M	554M	555	565M	569	591M	592	595M	596	622M	625	656N	680M	681M	682		
	714M	717M	728M	740	826															
	122M	123	286M	292	294	301	333	335M	396M	400	628M	629	630	662N	665N	675M	676	677M		
	678	679M	681	683	684	752M	753M	758M	780M	792										
5(5)	294M	296	298	300M	301	332M	333	335	643M	644	751M	754	755	757M						
6(6)	287M	292	296	298	305	323M	324	326	338	341	347	349	351	354	631M	632	666N	669M		
7(7)	149M	164M	170M	191M	210M	227	252M	349M	350M	351	353	357	359	360	363	525B	567M	569		
	571	575M	633M	634																
8(8)	147M	177M	178M	179	181	183	186	190	195	196M	197	199	202	205	209	250M	288M	303		
	305	307	322M	369	374	377	472M	474	475	527	568M	574	576M	582M	595	649M	650	741		
	746M																			
9(9)	146M	159M	160M	161	166	171	172M	173	177	181	183M	194	195M	199	201	202M	213	216		
	222M	223M	249M	257M	366M	376M	378M	478B	521	558	598	666M	667	668M						
10(A)	145M	163M	166M	167N	186M	187N	205M	206N	248M	524M	546M	548	551	557M	558	566M	573M	574		
	581M	586	589	596	597M	598	651M	654	655	656M	659	660	661	662M	663	664	665M	666		
11(B)	148M	161M	162M	173	179	197	232M	251M	263M	510	521	523	527M	528	557	572	583	593		
	597	709M	710	711M	713															
12(C)	88U	89M																		
13(D)	91U																			
14(E)	382M	383	384M	447M	448	449M	470M	495M	513M	517M	518	519M	744M	766M	767	768M	796M	800M		
	801	802M	830M	834M	835	836M														
15(F)	84B	89	233M	264M	383M	384B	431M	448M	449B	468M	469M	470B	494M	495N	511M	512M	513B	518M		
	519B	600B	742M	743M	744B	767M	768B	794M	795M	796B	801M	802B	828M	829M	830B	835M	836B	844M		
	855M	866M																		

X40 Dsect Cross Reference						PAGE 22		
Dsect	Length	Id	Defn	Con	Member	X390	3.1.04	2012/08/17 13.13
WORKAREA	00000DA8	FFFFFFFF	880		PRIMARY INPUT			

Con	Source	Members	X390	3.1.04	2012/08/17	13.13
1	SYS1.MACLIB	CHECK READ	CLOSE WRITE	DCB XCTL	FREEMAIN GETMAIN	IEZREGS IHBINNRA IHBINNRB IHBRDWS IHB01 POINT
2	SYSD.TOOLS.MACLIB					
3	SYSD.ALGOLF.ASM					
4	SYSD.ALGOLF.MACLIB	IEXCGEN	IEXCHAR	IEXENTRY	WORKAREA	
5	SYSD.ALGOLFRT.MACLIB					
6	SYS1.AMODGEN					



Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390	3.1.04	2012/08/17	13.13
88		USING	Ordinary	00000001	00000000	00001000	12	00ACA	866	IEX40000,R12				
91		USING	Ordinary	FFFFFFFF	00000000	00001000	13	00A9F	838	WORKAREA,R13				

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T1X40      STEPNAME: IEX40      PROCSTEP: X390

Primary input: lines      1 to      832 of SYSD.ALGOLF.ASM(IEX40)

SYSLIB library records read: 4393

SYSUT1 work file size: 141731 bytes

SYSUT2 work file size: 366038 bytes

SYSUT3 work file size: 66560 bytes

SYSLIN file records written: 53

TXA000I Return code 0, elapsed time 4.64 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX40000 000ACC 4

**IEX50**

**LEVEL**

**V2.M01**

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 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX50)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131323.RA000.T1X50.OBJECT
SYSPRINT	JES2.JOB09278.S00102
SYSUT1	SYS12230.T131323.RA000.T1X50.SYSUT1
SYSUT2	SYS12230.T131323.RA000.T1X50.SYSUT2
SYSUT3	SYS12230.T131323.RA000.T1X50.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement	X390 3.1.04 2012/08/17 13.13
2	*					00002001
3	*				COMPONENT ID - 360S-AL-531 ALGOL F COMPILER	00003001
4	*					00004001
5	*				FUNCTION/OPERATION -	00005001
6	*				THIS MODULE PERFORMS THE REAL TRANSLATION OF THE SOURCE	00006001
7	*				PROGRAM INTO SYSTEM/360 INSTRUCTIONS. THE SOURCE	00007001
8	*				PROGRAM IS AT MODIFICATION LEVEL 2 AND CONSISTS OF A	00008001
9	*				SEQUENCE OF ONE BYTE OPERATORS AND FIVE BYTE OPERANDS,	00009001
10	*				WHICH IS SCANNED SEQUENTIALLY. THE STATUS OF RECOGNITION	00010001
11	*				OF THE SOURCE PROGRAM IS DESCRIBED BY -	00011001
12	*				1. A SEQUENCE OF CONTEXTS (SEE BELOW)	00012001
13	*				2. A SEQUENCE OF STACKED OPERATORS (THE OPERATOR STACK)	00013001
14	*					00014001
15	*				THE ACTION OF THE COMPILER IS DETERMINED BY THE	00015001
16	*				OPERATOR PAIR STACK-SOURCE OPERATOR AND THE CURRENT	00016001
17	*				CONTEXT. THE OPERATOR PAIR DETERMINES AN ELEMENT IN A	00017001
18	*				DECISION MATRIX, WHICH IS DETERMINED BY THE CONTEXT. THE	00018001
19	*				MATRIX ELEMENTS REPRESENT ADDRESSES OF THE COMPILER	00019001
20	*				PROGRAMS, WHICH PERFORM THE ACTIONS REQUESTED BY ALL	00020001
21	*				POSSIBLE OPERATOR PAIRS.	00021001
22	*					00022001
23	*				THERE ARE THREE CONTEXTS, PROGRAM, STATEMENT, AND	00023001
24	*				EXPRESSION CONTEXT, AND THE CURRENT CONTEXT IS INDICATED	00024001
25	*				BY A REGISTER. SWITCHING ING FROM ONE CONTEXT TO	00025001
26	*				ANOTHER IS IN MOST CASES DETERMINED BY THE STACK-SOURCE	00026001
27	*				OPERATOR PAIR, IE THE COMPILER PROGRAM ACTIVATED JUST	00027001
28	*				PERFORMS THE CHANGE OF CONTEXT, BUT IN A FEW CASES THE	00028001
29	*				SOURCE OPERATOR ALONE DETERMINES THE NEW CONTEXT. IN	00029001
30	*				THIS LATTER CASE THE OPERATOR IS STACKED TOGETHER WITH A	00030001
31	*				CONTEXT OPERATOR, INDICATING THE PRECEDING CONTEXT.	00031001
32	*					00032001
33	*				BESIDES THE COMPILER PROGRAMS THERE ARE OTHER ROUTINES	00033001
34	*				PROVIDING DIFFERENT SERVICES. THE MOST IMPORTANT ARE	00034001
35	*				(THOSE MARKED WITH * ARE USED AS SUBROUTINES BY THE	00035001
36	*				COMPILER PROGRAMS) -	00036001
37	*					00037001
38	*				SUBSTART - SCAN TO NEXT OPERATOR IN SOURCE PROGRAM	00038001
39	*				COMP - CHOOSE COMPILER PROGRAM AND BRANCH	00039001
40	*				JBUFFER - READ A NEW SOURCE PROGRAM RECORD	00040001
41	*				*NXTOPT - GET NEXT ENTRY OF OPTAB	00041001
42	*				*SERR - GENERATE AN ERROR PATTERN	00042001
43	*				CPEND - NORMAL TERMINATION	00043001
44	*				CPERRI - ABNORMAL TERMINATION	00044001
45	*				*GENERATE - GENERATE TXT AND RLD RECORDS	00045001
46	*					00046001
47	*				A COMPILER PROGRAM IS ALWAYS FOLLOWED BY SUBSTART OR COMP	00047001
48	*				OR A BRANCH TO ANOTHER COMPILER PROGRAM	00048001
49	*					00049001
50	*				THE MODULE CONSISTS OF SEVEN CONTROL SECTIONS	00050001
51	*				IEX50000 - INITIALIZATION AND SUBROUTINES	00051001
52	*				IEX50001 - DECISION MATRIXES	00052001
53	*				IEX50002 - COMPILER PROGRAMS HANDLING FOR STATEMENTS	00053001
54	*				AND SUBSCRIPT OPTIMIZATION	00054001
55	*				IEX50003 - COMPILER PROGRAMS HANDLING BEGIN AND END OF	00055001
56	*				COMPOUND STATEMENTS AND BLOCKS, PROCEDURE	00056001
57	*				DECLARATIONS, ARRAY DECLARATIONS, SWITCH	00057001
58	*				DECLARATIONS, GOTO STATEMENTS, SUBSCRIPTED	00058001
59	*				VARIABLES AND SWITCH DESIGNATORS, SEMICOLON	00059001
60	*				COUNTER	00060001
61	*				IEX50004 - COMPILER PROGRAMS HANDLING ASSIGNMENTS,	00061001
62	*				PROCEDURE CALLS, STANDARD PROCEDURE CALLS	00062001
63	*				IEX50005 - COMPILER PROGRAMS HANDLING ERRONEOUS CASES,	00063001
64	*				BOOLEAN OPERATIONS, ARITHMETIC MINUS, IF,	00064001
65	*				THEN, ELSE	00065001
66	*				IEX50006 - COMPILER PROGRAM HANDLING ARITHMETICAL	00066001
67	*				OPERATIONS	00067001
68	*					00068001
69	*				ENTRY POINT -	00069001
70	*				IEX50000 - COMPILATION PHASE XCTL EP=IEX50	00070001
71	*				THE MODULE IS ENTERED FROM IEX40	00071001
72	*					00072001
73	*				INPUT -	00073001
74	*				THE SOURCE PROGRAM IS READ FROM SYSUT2	00074001
75	*				OPTAB IS READ FROM SYSUT3	00075001
76	*					00076001
77	*				OUTPUT -	00077001
78	*					00078001
79	*				THE MAIN PART OF THE OBJECT MODULE IS OUTPUT TO SYSLIN	00079001
80	*				AND/ OR SYSUPUNCH IF THE OPTIONS 'LOAD' AND/OR 'DECK' ARE	00080001
81	*				SPECIFIED	00081001
82	*					00082001
83	*				EXTERNAL ROUTINES - N/A	00083001
84	*					00084001
85	*				EXIT - NORMAL -	00085001
86	*				IF NO TERMINATING ERROR HAS OCCURRED, CONTROL IS GIVEN	00086001
87	*				TO THE TERMINATING MODULE BY MEANS OF XCTL EP=IEX51000	00087001
88	*					00088001
89	*				EXIT - ERROR -	00089001
90	*				IF A TERMINATING ERROR HAS OCCURED, CONTROL IS GIVEN TO	00090001
91	*				THE TERMINATING MODULE BY MEANS OF XCTL EP=IEX51ER1	00091001
92	*					00092001
93	*				TABLES/WORKAREAS -	00093001
94	*				SCPTAB - COMPILER PROGRAM ADDR TABLE USED BY ROUTINE	00094001
95	*				COMP	00095001
96	*				TXTT - INFORMATION FOR TXT RECORDS USED BY ROUTINE	00096001
97	*				GENERATE	00097001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				98 *	RLDT	- INFORMATION FOR RLD RECORDS USED BY ROUTINE	00098001
				99 *		GENERATE	00099001
				100 *	DECAREA	- DECISION MATRIXES USED BY ROUTINE COMP	00100001
				101 *			00101001
				102 *		THE PART OF COMMON WORKAREA STARTING AT SYSUT1 IS	00102001
				103 *		INITIALIZED BY THE PRECEDING LOAD MODULE AND USED BY	00103001
				104 *		THIS AND THE NEXT LOAD MODULE	00104001
				105 *			00105001
				106 *		THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN	00106001
				107 *		CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER	00107001
				108 *		IN PARTICULAR IT REQUIRES THE COMMON WORKAREA	00108001
				109 *			00109001
000000		00000	06286	110	IEX50000	CSECT	00110001
				111 *			00111001
				112 *	R6	REL ADDR IN OBJ PROGRAM	00112001
				113 *	R7	DISP IN OBJECT TIME STACK	00113001
				114 *	R8	SOURCE PROGRAM POINTER	00114001
				115 *	R9	OPERAND STACK POINTER	00115001
				116 *	R10	OPERATOR STACK POINTER	00116001
				117 *	R11	INDICATES CURRENT CONTEXT	00117001
				118 *	R12	BASE ADDR OF COMP PROGRAMS	00118001
				119 *			00119001
				120 *		OBJECT TIME REGISTER DEFINITIONS	00120001
				121 *			00121001
		00000		122	FPR0	EQU 0 *	00122001
		00002		123	FPR2	EQU 2 *	00123001
		00003		124	GPR4	EQU 3 * VARIABLE USE	00124001
		00005		125	GPRB	EQU 5 *	00125001
		00006		126	GPRC	EQU 6 *	00126001
		00008		127	ADR	EQU 8 FOR TRANSFER OF ADDRS	00127001
		0000A		128	CDSA	EQU 10 ADDRS CURRENT DSA	00128001
		00009		129	GDSA	EQU 9 ADDRS GLOBAL DSA	00129001
		0000B		130	PBT	EQU 11 ADDRS PROGRAM BLOCK TABLE	00130001
		0000C		131	LAT	EQU 12 ADDRS LABEL ADDR TABLE (LAT)	00131001
		0000D		132	FSA	EQU 13 ADDRS FIXED STORAGE AREA	00132001
		0000F		133	ENTRY	EQU 15 ENTRY PT OF LIBRARY SUBRTNS	00133001
		0000F		134	BRR	EQU 15 LINK REGISTER	00134001
				135 *			00135001
				136 *		INITIALIZATION	00136001
				137 *			00137001
				138 *		THIS ROUTINE PERFORMS THE REMAINING INITIALIZATION	00138001
				139 *		THE MAIN PART IS MADE IN IEX40001	00139001
				140 *			00140001
				141		IEXENTRY 'IEX50000 LEVEL 2.1 &SYSDATE &SYSTIME'	00141001
				142+*			01-IEXEN
000000	47F0 F026		00026	143+	B	38(,R15) BRANCH AROUND ID	01-IEXEN
000004	21			144+	DC	AL1(33) LENGTH OF IDENTIFIER	01-IEXEN
000005	C9C5E7F5F0F0F0F0			145+	DC	CL33'IEX50000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
						IDENTIFIER	01-IEXEN
				146 *			00142001
		R:F 00000		147	USING	IEX50000,R15 USE ENTRY POINT REG AS BASE	00143001
		R:D 00000		148	USING	WORKAREA,R13	00144001
000026	4150 F048		00048	149	LA	R5,SUBSTART LOAD BASE REG FOR SUBSTART	00145001
				150	DROP	R15	00146001
		R:5 00048		151	USING	SUBSTART,R5	00147001
00002A	4140 541A		00462	152	LA	R4,CPERR1 PROVIDE DIRECTORY	00148001
00002E	5040 D090		00090	153	ST	R4,ERET RETURN ADDR	00149001
000032	58B0 5194		001DC	154	L	R11,DECAADD LOAD ADDR OF CCT	00150001
000036	4140 50CA		00112	155	LA	R4,JB3 PROVIDE	00151001
00003A	5040 D074		00074	156	ST	R4,EODUT2 EOD ADDR	00152001
00003E	4140 514E		00196	157	LA	R4,NX4 FOR UT2	00153001
000042	5040 D078		00078	158	ST	R4,EODUT3 AND UT3	00154001
000046	0700			159	CNOP	0,8	00155001
				160 *			00156001
				161 *		START OF SUBROUTINE POOL	00157001
				162 *			00158001
				163 *		SCAN SOURCE INPUT TO NEXT OPERATOR	00159001
				164 *			00160001
000048	94FE D080		00080	165	SUBSTART	NI COMPFGLS,255-OPERAND	00161001
00004C	952F 8001		00001	166	ABC1	CLI 1(R8),XFZETA TEST SOURCE	00162001
000050	4740 5018		00060	167	BL	ABD3 OPERATOR	00163001
000054	4720 5020		00068	168	BH	ABD1 OPERAND	00164001
000058	4540 5084		000CC	169	BAL	R4,JBUFFER BUFFER CHANGE	00165001
00005C	47F0 5004		0004C	170	B	ABC1 CONTINUE	00166001
				171 *			00167001
000060	4180 8001		00001	172	ABD3	LA R8,1(,R8) INCR SOURCE PTR	00168001
000064	47F0 5060		000A8	173	B	COMP CHOOSE CP	00169001
				174 *			00170001
000068	9601 D080		00080	175	ABD1	OI COMPFGLS,OPERAND	00171001
00006C	4B90 5170		001B8	176	SH	R9,KH5 SOURCE OPERAND	00172001
000070	19A9			177	CR	R10,R9 TO	00173001
000072	47B0 53E0		00428	178	BNL	STACKOFL STACK	00174001
000076	D204 9000	8001 00000	00001	179	MVC	0(5,R9),1(R8)	00175001
00007C	4180 8005		00005	180	LA	R8,5(,R8) SOURCE REG INCREASE	00176001
000080	47F0 5004		0004C	181	B	ABC1 CONTINUE	00177001
				182 *			00178001
				183 *		AN OPERAND IS NOT ALLOWED IN SOURCE	00179001
				184 *			00180001
000084	952F 8001		00001	185	SPECTEST	CLI 1(R8),XFZETA SPECIAL TEST	00181001
000088	4740 5018		00060	186	BL	ABD3 OPERATOR	00182001
00008C	4720 5050		00098	187	BH	ABD5 OPERAND	00183001
000090	4540 5084		000CC	188	BAL	R4,JBUFFER BUFFER CHANGE	00184001
000094	47F0 503C		00084	189	B	SPECTEST	00185001
				190 *			00186001
000098	4188 0006		00006	191	ABD5	LA R8,6(R8) SOURCE REG INCREASE	00187001
00009C	4540 5318		00360	192	BAL	R4,SERR3	00188001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0000A0	00BF			193	ERROR	DC H'191'	00189001
				194	*		00190001
0000A2	0680			195	BCTR	R8,0	00191001
0000A4	47F0 503C		00084	196	B	SPECTEST	00192001
				197	*		00193001
				198	*	CHOOSE CP PROGRAM	00194001
				199	*		00195001
0000A8	1B11			200	COMP	SR R1,R1	00196001
0000AA	1821			201	LR	R2,R1	00197001
0000AC	4310 8000		00000	202	IC	R1,0(,R8)	00198001
0000B0	4311 B000		00000	203	IC	R1,0(R1,R11)	00199001
0000B4	4320 A000		00000	204	IC	R2,0(,R10)	00200001
0000B8	4322 B032		00032	205	IC	R2,50(R2,R11)	00201001
0000BC	1A12			206	AR	R1,R2	00202001
0000BE	4311 B064		00064	207	IC	R1,100(R1,R11)	00203001
0000C2	8910 0002		00002	208	SLL	R1,2(0)	00204001
0000C6	58C1 51A4		001EC	209	L	R12,SCPTAB(R1)	00205001
0000CA	07FC			210	BR	R12	00206001
				211	*		00207001
				212	*****		00208001
				213	*		00209001
				214	*	JBUFFER - READ INPUT BUFFER	00210001
				215	*		00211001
				216	*****		00212001
				217	*		00213001
				218	* CALL	BAL R4,JBUFFER (FROM SUBSTART)	00214001
				219	*	BAL R4,JBUFFER (FROM COMPILER PROGRAMS)	00215001
				220	*		00216001
				221	*	REGISTER DEFINITIONS	00217001
				222	*		00218001
				223	*	R3	00219001
				224	*	R2	00220001
				225	*	R8	00221001
				226	*		00222001
0000CC	5830 D068		00068	227	JBUFFER L	R3,AUT2DCB	00223001
0000D0	5820 D600		00600	228	L	R2,SOURCEB	00224001
0000D4	47F0 50A0		000E8	229	JB1	B JB2	00225001
				230	*		00226001
				231		CHECK SRCECO	00227001
0000D8	4110 50A4		000EC	232+	LA	1,SRCECO	02-IHBN
0000DC	58E0 1008		00008	233+	L	14,8(0,1)	01-CHECK
0000E0	58F0 E034		00034	234+	L	15,52(0,14)	01-CHECK
0000E4	05EF			235+	BALR	14,15	01-CHECK
				236	*		00228001
				237	JB2	READ SRCECO,SF,(R3),(R2)	00229001
				238+	CNOP	0,4	02-IHBRD
0000E6	0700			239+	JB2	BAL 1,*+24	02-IHBRD
0000E8	4510 50B8		00100	240+	SRCECO	DC F'0'	02-IHBRD
0000EC	00000000			241+	DC	X'00'	02-IHBRD
0000F0	00			242+	DC	X'80'	02-IHBRD
0000F1	80			243+	DC	AL2(0)	02-IHBRD
0000F2	0000			244+	DC	A(0)	02-IHBRD
0000F4	00000000			245+	DC	A(0)	02-IHBRD
0000F8	00000000			246+	DC	A(0)	02-IHBRD
0000FC	00000000			247+	ST	R3,8(1,0)	02-IHBRD
000100	5031 0008		00008	248+	ST	R2,12(1,0)	02-IHBRD
000104	5021 000C		0000C	249+	L	15,8(1,0)	02-IHBRD
000108	58F1 0008		00008	250+	L	15,48(0,15)	02-IHBRD
00010C	58F0 F030		00030	251+	BALR	14,15	02-IHBRD
000110	05EF			252	*		00230001
000112	5880 D604		00604	253	JB3	L R8,RSRCB	00231001
000116	5020 D604		00604	254	ST	R2,RSRCB	00232001
00011A	5080 D600		00600	255	ST	R8,SOURCEB	00233001
00011E	0680			256	BCTR	R8,0	00234001
000120	4330 DA59		00A59	257	IC	R3,NUMBBL	00235001
000124	4130 3001		00001	258	LA	R3,1(,R3)	00236001
000128	4230 DA59		00A59	259	STC	R3,NUMBBL	00237001
00012C	9200 508D		000D5	260	MVI	JB1+1,X'00'	00238001
000130	07F4			261	BR	R4	00239001
				262	*		00240001
				263	*****		00241001
				264	*		00242001
				265	*	NXTOPT - ACQUIRES NEXT ENTRY OF OPTAB	00243001
				266	*		00244001
				267	*****		00245001
				268	*		00246001
				269	* CALL	BAL R4,NXTOPT	00247001
				270	*		00248001
000132	5820 D610		00610	271	NXTOPT	L R2,OPBUFB	00249001
000136	5830 5168		001B0	272	L	R3,OPREL	00250001
00013A	4130 300E		0000E	273	LA	R3,14(,R3)	00251001
00013E	5930 D0FC		000FC	274	C	R3,OPTABS	00252001
000142	47B0 5108		00150	275	BNL	NX1	00253001
000146	1A23			276	AR	R2,R3	00254001
000148	5020 D618		00618	277	ST	R2,AOPTABE	00255001
00014C	47F0 5160		001A8	278	B	NX3	00256001
				279	*		00257001
000150	47F0 511A		00162	280	NX1	B NX2	00258001
				281	*		00259001
				282		CHECK OPTCO	00260001
000154	4110 5124		0016C	283+	LA	1,OPTCO	02-IHBN
000158	58E0 1008		00008	284+	L	14,8(0,1)	01-CHECK
00015C	58F0 E034		00034	285+	L	15,52(0,14)	01-CHECK
000160	05EF			286+	BALR	14,15	01-CHECK
				287	*		00261001
000162	5830 D06C		0006C	288	NX2	L R3,AUT3DCB	00262001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				289 *			00263001
				290	READ	OPTCO,SF,(R3),(R2),'S' READ OPTAB RECORD	00264001
000166	0700			291+	CNOP	0,4	02-IHBRD
000168	4510 5138		00180	292+	BAL	1,*+24	02-IHBRD
00016C	00000000			293+OPTCO	DC	F'0'	02-IHBRD
000170	80			294+	DC	X'80'	02-IHBRD
000171	80			295+	DC	X'80'	02-IHBRD
000172	0000			296+	DC	AL2(0)	02-IHBRD
000174	00000000			297+	DC	A(0)	02-IHBRD
000178	00000000			298+	DC	A(0)	02-IHBRD
00017C	00000000			299+	DC	A(0)	02-IHBRD
000180	5031 0008		00008	300+	ST	R3,8(1,0)	02-IHBRD
000184	5021 000C		0000C	301+	ST	R2,12(1,0)	02-IHBRD
000188	58F1 0008		00008	302+	L	15,8(1,0)	02-IHBRD
00018C	58F0 F030		00030	303+	L	15,48(0,15)	02-IHBRD
000190	05EF			304+	BALR	14,15	02-IHBRD
				305 *			00265001
000192	9200 5109		00151	306	MVI	NX1+1,X'00'	00266001
000196	5810 D614		00614	307 NX4	L	R1,ROPTB	00267001
00019A	5010 D610		00610	308	ST	R1,OPBUFB	00268001
00019E	5020 D614		00614	309	ST	R2,ROPTB	00269001
0001A2	5010 D618		00618	310	ST	R1,ADOPTABE	00270001
0001A6	1B33			311	SR	R3,R3	00271001
0001A8	5030 5168		001B0	312 NX3	ST	R3,OPREL	00272001
0001AC	07F4			313	BR	R4	00273001
				314 *			00274001
0001AE	0000						
0001B0	00000000			315 OPREL	DC	F'0'	00275001
				316 *			00276001
				317 *		CONSTANTS LOCATED IN SUBROUTINE POOL	00277001
				318 *			00278001
0001B4	0002			319 KH2	DC	H'2'	00279001
0001B6	0004			320 KH4	DC	H'4'	00280001
0001B8	0005			321 KH5	DC	H'5'	00281001
0001BA	0008			322 KH8	DC	H'8'	00282001
0001BC	0009			323 KH9	DC	H'9'	00283001
0001BE	000A			324 KH10	DC	H'10'	00284001
0001C0	000F			325 KH15	DC	H'15'	00285001
0001C2	0014			326 KH20	DC	H'20'	00286001
0001C4	0122			327 KH290	DC	H'290'	00287001
0001C6	0144			328 KH324	DC	H'324'	00288001
0001C8	0266			329 KH614	DC	H'614'	00289001
0001CA	91FF01000000			330 API	DC	X'91FF01000000'	00290001
				331 *			00291001
0001D0	00000003			332 TYPETEST	DC	F'3'	00292001
0001D4	0000			333 SWVAL	DC	H'0'	00293001
0001D6	0000			334 SWREL	DC	H'0'	00294001
0001D8	0000			335 GREGN	DC	H'0'	00295001
0001DA	0000						
0001DC				336	DC	0F'0'	00296001
0001DC	00000F8C			337 DECAADD	DC	A(DECAREA)	00297001
				338 *		ADDR OF DECISION AREA	00298001
						ADDR OF PROG CONTEXT COL VECTOR	00299001
0001E0	00000FFF			339 HEXFFF	DC	X'00000FFF'	00300001
0001E4	000010AE			340 STC	DC	A(ADRSTC)	00301001
0001E8	000011F2			341 EXC	DC	A(ADREXC)	00302001
				342 *			00303001
				343		*****	00304001
				344 *			00305001
				345 *		COMPILER PROGRAM ADDR TABLE	00306001
				346 *			00307001
				347		*****	00308001
				348 *			00309001
0001EC				349	DC	0F'0'	00310001
0001EC	0000233E000023A8			350 SCPTAB	DC	A(CP0,CP1,CP84,CP3)	00311001
0001FC	00000241C000042F4			351	DC	A(CP4,CP84,CP6,CP7)	00312001
00020C	00002618000042F4			352	DC	A(CP8,CP84,CP84,CP84)	00313001
00021C	0000330E000042F4			353	DC	A(CP12,CP84,CP84,CP84)	00314001
00022C	00002646000042FE			354	DC	A(CP16,CP17,CP18,CP19)	00315001
00023C	000033B8000035E8			355	DC	A(CP20,CP21,CP22,CP23)	00316001
00024C	000027020000271A			356	DC	A(CP24,CP25,CP26,CP27)	00317001
00025C	00004586000045C4			357	DC	A(CP28,CP29,CP30,CP31)	00318001
00026C	000042F400003656			358	DC	A(CP84,CP33,CP34,CP84)	00319001
00027C	0000273A000042F4			359	DC	A(CP36,CP84,CP38,CP84)	00320001
00028C	0000139200002B54			360	DC	A(CP40,CP41,CP84,CP43)	00321001
00029C	000042F4000016A4			361	DC	A(CP84,CP45,CP84,CP47)	00322001
0002AC	000042F400001BE6			362	DC	A(CP84,CP49,CP84,CP51)	00323001
0002BC	00002FC0000042F4			363	DC	A(CP52,CP84,CP54,CP84)	00324001
0002CC	0000305A0000365E			364	DC	A(CP56,CP57,CP84,CP59)	00325001
0002DC	000042F40000397C			365	DC	A(CP84,CP61,CP62,CP63)	00326001
0002EC	0000418C00004718			366	DC	A(CP64,CP65,CP66,CP67)	00327001
0002FC	000047A4000052A2			367	DC	A(CP68,CP69,CP70,CP71)	00328001
00030C	000047B8000047D8			368	DC	A(CP72,CP73,CP74,CP75)	00329001
00031C	0000484A00004A9A			369	DC	A(CP76,CP77,CP78,CP79)	00330001
00032C	0000502600001D48			370	DC	A(CP80,CP81,CP84,CP83)	00331001
00033C	000042F4000032B8			371	DC	A(CP84,CP85,CP86,CP87)	00332001
				372 *			00333001
				373 *		NON EXISTANT COMPILER PROGRAMS	00334001
				374 *			00335001
				375 *		CP2, CP5, CP9, CP10, CP11, CP13, CP14, CP15, CP32,	00336001
				376 *		CP35, CP37, CP39, CP42, CP44, CP46, CP48, CP50, CP53,	00337001
				377 *		CP55, CP58, CP60, CP82	00338001
				378 *			00339001
				379		*****	00340001
				380 *			00341001
				381 *		ERROR PATTERN GENERATION	00342001
				382 *			

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				383	*****	00343001
				384	*	00344001
				385	* CALL BAL R4,SERRX X=1, 2, 3, 4, SP	00345001
				386	DC H'N' N=MSG NUMBER	00346001
				387	*	00347001
				388	* ENTRY BOTH OPERATORS	00348001
				389	*	00349001
00034C	4130 0002		00002	390	SERR4 LA R3, 2	00350001
000350	4120 0006		00006	391	LA R2, 6 GET LENGTH OF ENTRY	00351001
000354	47F0 5320		00368	392	B ER2	00352001
				393	*	00353001
				394	*	00354001
				395	* ENTRY STACK OPERATOR	00355001
				396	SERR2 LA R3, 3	00356001
000358	4130 0003		00003	397	B ER1	00357001
00035C	47F0 531C		00364	398	*	00358001
				399	*	00359001
				400	* ENTRY SOURCE OPERATOR	00360001
				401	SERR3 LA R3, 1	00361001
000360	4130 0001		00001	402	ER1 LA R2, 5	00362001
000364	4120 0005		00005	403	ER2 L R15,NEXTERR GET LENGTH OF ENTRY	00363001
000368	58F0 D0C0		000C0	404	STC R2,0(,R15) GET ADDR OF POOL ENTRY	00364001
00036C	4220 F000		00000	405	LA R2, 4 INSERT LENGTH OF ENTRY	00365001
000370	4120 0004		00004	406	BCT R3, ER4 SET POINTER FOR OPERATOR INSERT	00366001
000374	4630 5342		0038A	407	*	00367001
				408	ER3 MVC EP212+3(1),0(R8) GET SOURCE OP	00368001
000378	D200 53D1 8000 00419		00000	409	OI EP212+3, X'80' PUT A TAG	00369001
000382	4310 53D1		00419	410	IC R1, EP212+3 INSERT SOURCE OPERATOR	00370001
000386	47F0 5346		0038E	411	B ER5	00371001
				412	*	00372001
00038A	4310 A000		00000	413	ER4 IC R1,0(,R10) FETCH STACK OPERATOR	00373001
00038E	4212 F000		00000	414	ER5 STC R1,0(R2,R15) INSERT OPERATOR	00374001
000392	4120 2001		00001	415	LA R2, 1(,R2) INCREASE POINTER	00375001
000396	4630 538C		003D4	416	BCT R3, ER6 STACK OR SOURCE, BRANCH	00376001
00039A	47F0 5330		00378	417	B ER3 BOTH	00377001
				418	*	00378001
				419	* SPECIAL ENTRY FOR MSG 214	00379001
				420	*	00380001
00039E	58F0 D0C0		000C0	421	SERRSP L R15,NEXTERR GET ADDR OF POOL ENTRY	00381001
0003A2	4830 DASC		00A5C	422	LH R3, SPBNST GET CURRENT PBN	00382001
0003A6	4E30 53D8		00420	423	CVD R3, ERDOUBLE BINARY	00383001
0003AA	F321 53D8 53DE 00420		00426	424	UNPK ERDOUBLE(3),ERDOUBLE+6(2) TO	00384001
0003B0	D300 53DA 53D8 00422		00420	425	MVZ ERDOUBLE+2(1),ERDOUBLE CHARACTER	00385001
0003B6	D202 F004 53D8 00004		00420	426	MVC 4(3,R15),ERDOUBLE MOVE TO ERROR PATTERN	00386001
0003BC	4120 0007		00007	427	LA R2, 7 SET LENGTH OF ENTRY	00387001
0003C0	4220 F000		00000	428	STC R2,0(,R15)	00388001
0003C4	47F0 538C		003D4	429	B ER6	00389001
				430	*	00390001
				431	* ENTRY NO OPERATOR	00391001
				432	*	00392001
0003C8	58F0 D0C0		000C0	433	SERR1 L R15,NEXTERR	00393001
0003CC	4120 0004		00004	434	LA R2, 4	00394001
0003D0	4220 F000		00000	435	STC R2,0(,R15)	00395001
0003D4	D201 F002 D09C 00002		0009C	436	ER6 MVC 2(2,R15),SEMCNT	00396001
0003DA	4330 4001		00001	437	IC R3, 1(,R4)	00397001
0003DE	4230 F001		00001	438	STC R3, 1(,R15)	00398001
0003E2	41F2 F000		00000	439	LA R15,0(R2,R15)	00399001
0003E6	50F0 D0C0		000C0	440	ST R15,NEXTERR	00400001
0003EA	59F0 D0C4		000C4	441	C R15,ENDPOOL	00401001
0003EE	47D0 53C2		0040A	442	BNH ER7	00402001
0003F2	D201 53D0 D09C 00418		0009C	443	MVC EP212+2(2),SEMCNT	00403001
0003F8	D203 F000 53CE 00000		00416	444	MVC 0(4,R15),EP212	00404001
0003FE	41F0 F004		00004	445	LA R15,4(0,R15)	00405001
000402	50F0 D0C0		000C0	446	ST R15,NEXTERR	00406001
000406	47F0 541A		00462	447	B CPERR1	00407001
				448	*	00408001
00040A	9680 D080		00080	449	ER7 OI COMPFLLGS,COMPmode	00409001
00040E	4130 0002		00002	450	LA R3, 2	00410001
000412	1A43			451	AR R4, R3	00411001
000414	07F4			452	BR R4	00412001
				453	*	00413001
000416	04D40000			454	EP212 DC X'04D40000'	00414001
00041A	000000000000					
000420	0000000000000000			455	ERDOUBLE DC D'0'	00415001
				456	*	00416001
				457	* OPERAND/OPERATOR STACK OVERFLOW	00417001
				458	*	00418001
				459	* CALL B STACKOFL	00419001
				460	*	00420001
000428	4540 5380		003C8	461	STACKOFL BAL R4,SERR1	00421001
00042C	00BA			462	DC H'186'	00422001
				463	*	00423001
00042E	47F0 541A		00462	464	B CPERR1	00424001
				465	*	00425001
				466	* NORMAL TERMINATION	00426001
				467	*	00427001
000432	9140 D082		00082	468	CPEND TM COMPFLLGS+2,SPIC	00428001
000436	4710 53F6		0043E	469	BO CPEND1	00429001
00043A	4540 508A		000CC	470	BAL R4,JBUFFER	00430001
00043E	91F0 5109		00151	471	CPEND1 TM NX1+1,X'F0'	00431001
000442	4710 5402		0044A	472	BO CPEND2	00432001
000446	4540 50EA		00132	473	BAL R4,NXTOPT	00433001
				474	*	00434001
				475	CPEND2 XCTL EP=IEX51000	00435001
00044A				476	+CPEND2 DS 0H	01-XCTL
00044A	0700			477	+ CNOP 0,4	02-IHBN

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00044C	45F0 5418		00460	478+	BAL	15,*,+20	BRANCH AROUND CONSTANTS
000450	00000458			479+	DC	A(*+8)	ADDR. OF PARM. LIST
000454	00000000			480+	DC	A(0)	DCB ADDRESS PARAMETER
000458	C9C5E7F5F1F0F0F0			481+	DC	CL8'IEX51000'	EP PARAMETER
000460	0A07			482+	SVC	7	ISSUE XCTL SVC
				483 *			
				484 *		DIRECTORY RETURN ADDR	
				485 *			
000462	91F0 508D	000D5		486	CPERR1	TM JB1+1,X'F0'	READ TO INPUT BUFFERS
000466	4710 5430		00478	487	BO	CPERR10	NO
				488 *			
				489	CHECK	SRCECO	CHECK LAST READ
00046A	4110 50A4	000EC		490+	LA	1,SRCECO	LOAD PARAMETER REG 1
00046E	58E0 1008	00008		491+	L	14,8(0,1)	PICK UP DCB ADDR
000472	58F0 E034	00034		492+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
000476	05EF			493+	BALR	14,15	LINK TO CHECK ROUTINE
				494 *			
000478	91F0 5109	00151		495	CPERR10	TM NX1+1,X'F0'	OPTAB READ
00047C	4710 5446		0048E	496	BO	CPERR11	NO
				497 *			
				498	CHECK	OPTCO	CHECK LAST READ
000480	4110 5124	0016C		499+	LA	1,OPTCO	LOAD PARAMETER REG 1
000484	58E0 1008	00008		500+	L	14,8(0,1)	PICK UP DCB ADDR
000488	58F0 E034	00034		501+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR
00048C	05EF			502+	BALR	14,15	LINK TO CHECK ROUTINE
				503 *			
				504	CPERR11	XCTL EP=IEX51ER1	ERROR MSG EDITING AND TERM
00048E				505+	CPERR11	DS 0H	
				506+	CNOP	0,4	
000490	45F0 545C	004A4		507+	BAL	15,*,+20	BRANCH AROUND CONSTANTS
000494	0000049C			508+	DC	A(*+8)	ADDR. OF PARM. LIST
000498	00000000			509+	DC	A(0)	DCB ADDRESS PARAMETER
00049C	C9C5E7F5F1C5D9F1			510+	DC	CL8'IEX51ER1'	EP PARAMETER
0004A4	0A07			511+	SVC	7	ISSUE XCTL SVC
				512 *			
0004A6				513	DC	0H'0'	
				514 *			
				515	*****		
				516 *			
				517 *		CONVERSION - INTEGER TO REAL	
				518 *			
				519	*****		
				520 *			
				521 *		GENERATES CALL OF CONVERSION ROUTINE FROM INTEGER TO	
				522 *		REAL AFTER LOCATING THE OPERAND	
				523 *		RESERVES ONE OBJECT STACK TIME ENTRY	
				524 *		SETS RIR	
				525 *		INTRODUCES OPERAND ADDRS INTO RUTR	
				526 *		ADJUSTS OPERAND	
				527 *			
				528 *	CALL	BAL R4,TRINRE	
				529 *			
0004A6	5040 D578	00578		530	TRINRE	ST R4,RETADR	STORE RETURN ADDR
0004AA	4140 54EE	00536		531	LA	R4,HQF21	
0004AE	4530 5CB4	00CFC		532	BAL	R3,ROUTIN15	
0004B2	1B11			533	SR	R1,R1	
0004B4	4319 0003	00003		534	IC	R1,3(R9)	PREPARE INSTRUCTION
0004B8	8810 0004	00004		535	SRL	R1,4	
0004BC	4120 0001	00001		536	LA	R2,1	
0004C0	8920 1000	00000		537	SLL	R2,0(R1)	
0004C4	4220 5485	004CD		538	STC	R2,HQD2+1	
0004C8	97FF 5485	004CD		539	XI	HQD2+1,X'FF'	
0004CC	9400 DA47	00A47		540	HQD2	NI RII+1,X'00'	
0004D0	4540 5AF2	00B3A		541	BAL	R4,ROUTINE8	RELILO
0004D4	D100 5497	DA72 004DF	00A72	542	MVN	HQG1+1(1),VPLACE	
0004DA	4520 559E	005E6		543	BAL	R2,GENTXT2	
0004DE	18E0			544	HQG1	LR R14,0	***GENERATE***
0004E0	9101 DA49	00A49		545	HQH1	TM RIR+1,X'01'	FPRO FREE ?
0004E4	4780 54A4	004EC		546	BZ	HQJ1	YES, BRANCH
0004E8	4540 5C64	00CAC		547	BAL	R4,ROUTIN14	STFPRO
0004EC	9101 DA46	00A46		548	HQJ1	TM RII,X'01'	ADR FREE ?
0004F0	4780 54B0	004F8		549	BZ	HQJ11	
0004F4	4540 5B46	00B8E		550	BAL	R4,ROUTIN10	
0004F8	4520 55A2	005EA		551	HQJ11	BAL R2,GENTXT4	CALL CONVERSION ROUTINE
				552 *	BAL	ADR,CNVIRD(0,FSA)	***GENERATE***
0004FC	4580 D120	00120		553	BAL	R8,X'120'(.13)	***NEW GENERATED ***
000500	9680 9000	00000		554	OI	0(R9),X'80'	ADJUST R9 ENTRY
000504	949F 9000	00000		555	NI	0(R9),X'9F'	
000508	9632 9001	00001		556	OI	1(R9),X'32'	
00050C	94FE 9001	00001		557	NI	1(R9),X'FE'	
000510	D200 9002	DA5D 00002	00A5D	558	MVC	2(1,R9),SPBNST+1	
000516	4A70 DA56	00A56		559	AH	R7,ONEENTRY	INCR OF 4(SHORT) OR 8(LONG)
00051A	4070 D5F8	005F8		560	STH	R7,WORKPL	
00051E	D201 9003	D5F8 00003	005F8	561	MVC	3(2,R9),WORKPL	INTRODUCE STACK ADDR
000524	5090 D5E4	005E4		562	ST	R9,RUTR	INTRODUCE R9 ADDR IN RUTR
000528	9601 DA49	00A49		563	OI	RIR+1,X'01'	SET RIR TO ONE
00052C	9200 DA45	00A45		564	MVI	CIR+1,0	CIR=0
000530	5840 D578	00578		565	L	R4,RETADR	LOAD RETURN ADDR
000534	07F4			566	BR	R4	
				567 *			
000536	D100 54FF	DA72 00547	00A72	568	HQF21	MVN HQG2+1(1),VPLACE	PREPARE INSTRUCTION
00053C	D201 5500	DA6A 00548	00A6A	569	MVC	HQG2+2(2),VPLACE	
000542	4520 55A2	005EA		570	BAL	R2,GENTXT4	
000546	58E0 0000	00000		571	HQG2	L R14,0(0,0)	***GENERATE***
00054A	47F0 5498	004E0		572	B	HQH1	
				573 *			

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				574	*****	00512001
				575	*	00513001
				576	CONVERSION - REAL TO INTEGER	00514001
				577	*	00515001
				578	*****	00516001
				579	*	00517001
				580	SUBROUTINE TO GENERATE CODE TO CALL REAL TO INTEGER	00518001
				581	CONVERSION ROUTINE	00519001
				582	*	00520001
				583	* CALL BAL R4,TRREIN	00521001
				584	*	00522001
				585	AT OBJECT TIME THE INTEGER VALUE IS IN R14 AFTER CONVERSION	00523001
				586	*	00524001
				587	BIT PATTERNS	00525001
				588	*	00526001
		000C0		589	OBJSTM EQU X'C0'	00527001
		00001		590	RADRFREM EQU X'01'	00528001
		00001		591	FPROOCM EQU X'01'	00529001
		00020		592	OPDVALUM EQU X'20'	00530001
		00040		593	OPDREGM EQU X'40'	00531001
				594	*	00532001
00054E	5040	5570	005B8	595	TRREIN ST R4,SAVTRREI	00533001
000552	9101	DA49	00A49	596	TM RIR+1,FPROOCM	00534001
000556	4780	5522	0056A	597	BZ TRREIN1	00535001
00055A	5990	D5E4	005E4	598	C R9,RUTR	00536001
00055E	4780	5568	005B0	599	BE TRREIN8	00537001
000562	4540	5C64	00CAC	600	BAL R4,ROUTIN14	00538001
000566	94FE	DA49	00A49	601	NI RIR+1,255-FPROOCM	00539001
00056A	4130	555C	005A4	602	TRREIN1 LA R3,TRREIN4	00540001
00056E	4540	5CB4	00CFC	603	BAL R4,ROUTIN15	00541001
000572	D100	553B	DA72 00583	604	TRREIN2 MVN TRREIN3+1(1),VPLACE	00542001
000578	D201	553C	DA6A 00584	605	MVC TRREIN3+2(2),WPLACE	00543001
00057E	4520	5594	005DC	606	BAL R2,GENTXTP4	00544001
000582	6800	0000	00000	607	TRREIN3 LD FPR0,0(0,0)	00545001
000586	9101	DA46	00A46	608	TRREIN6 TM RII,RADRFREM	00546001
00058A	4780	554E	00596	609	BZ TRREIN9	00547001
00058E	4540	5B46	00B8E	610	BAL R4,ROUTIN10	00548001
000592	94FE	DA46	00A46	611	NI RII,255-RADRFREM	00549001
000596	4520	55A2	005EA	612	TRREIN9 BAL R2,GENTXT4	00550001
				613	* BAL ADRCNVNDRDI(FSA,0)	00551001
00059A	458D	014C	0014C	614	BAL 8,X'14C'(13)	00552001
00059E	5840	5570	005B8	615	L R4,SAVTRREI	00553001
0005A2	07F4			616	BR R4	00554001
				617	*	00555001
0005A4	D100	5567	DA72 005AF	618	TRREIN4 MVN TRREIN5+1(1),VPLACE	00556001
0005AA	4520	5598	005E0	619	BAL R2,GENTXTP2	00557001
0005AE	2800			620	TRREIN5 LDR FPR0,0	00558001
0005B0	4540	5C08	00C50	621	TRREIN8 BAL R4,ROUTIN12	00559001
0005B4	47F0	553E	00586	622	B TRREIN6	00560001
				623	*	00561001
0005B8	00000000			624	SAVTRREI DC F'0'	00562001
				625	*	00563001
				626	*****	00564001
				627	*	00565001
				628	SUBROUTINE GENERATE	00566001
				629	*	00567001
				630	*****	00568001
				631	*	00569001
				632	GENERATE RLD RECORDS	00570001
				633	*	00571001
				634	* CALL L R2,	00572001
				635	BAL R14,GENRLD	00573001
				636	DC H' '	00574001
				637	DC H' '	00575001
				638	DC H' '	00576001
				639	---	00577001
				640	*	00578001
				641	GENERATE TXT RECORDS SIX DIFFERENT CALLS	00579001
				642	*	00580001
				643	BAL R2,GENTXT2	00581001
				644	RR FORMAT INSTRUCTION OR DATA 2 BYTES LONG	00582001
				645	---	00583001
				646	*	00584001
				647	BAL R2,GENTXTP2	00585001
				648	RR FORMAT FLOATING POINT LONG FORM INSTRUCTION	00586001
				649	---	00587001
				650	*	00588001
				651	BAL R2,GENTXT4	00589001
				652	INSTRUCTION(S) OR DATA 4 BYTES LONG	00590001
				653	---	00591001
				654	*	00592001
				655	BAL R2,GENTXTP4	00593001
				656	RX FORMAT FLOATING POINT LONG FORM INSTRUCTION	00594001
				657	---	00595001
				658	*	00596001
				659	BAL R2,GENTXT6	00597001
				660	INSTRUCTIONS OR DATA 6 BYTES LONG	00598001
				661	---	00599001
				662	*	00600001
				663	LA R2,	00601001
				664	BAL R14,GENTXT8	00602001
				665	DC H' '	00603001
				666	---	00604001
				667	*	00605001
				668	REGISTER DEFINITIONS	00606001
				669	*	00607001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				670 *	R1	OUTPUT RECORD POINTER	00608001
				671 *	R2	ADDR OF DATA	00609001
				672 *	R3	TYPE OF RECORD TO BE GENERATED	00610001
				673 *	R4	RETURN REGISTER	00611001
				674 *	R14	LENGTH OF DATA FROM CALL	00612001
				675 *	R15	LENGTH WITHIN RECORD	00613001
				676 *			00614001
				677 *	BIT PATTERNS		00615001
				678 *			00616001
		00000		679	SDENTRY EQU X'00'	SD ENTRY IDENTIFICATION	00617001
		00001		680	LDENTRY EQU X'01'	LD ENTRY IDENTIFICATION	00618001
		0000C		681	RLDFLAG EQU B'00001100'	FLAG USED IN RLD ENTRY	00619001
				682 *			00620001
				683 *	GENERATE RLD RECORDS		00621001
				684 *			00622001
0005BC	4140 E006		00006	685	GENRLD LA R4,6(,R14)	COMPUTE RETURN ADDR	00623001
0005C0	4130 56D0		00718	686	LA R3,RLDT	INDICATE RLD CALL	00624001
0005C4	48E0 E000		00000	687	LH R14,0(,R14)	LOAD LENGTH GIVEN IN CALL	00625001
0005C8	89E0 0001		00001	688	SLL R14,1	DOUBLE LENGTH	00626001
0005CC	47F0 55BA		00602	689	B GEN1	CONTINUE COMMON PART	00627001
				690 *			00628001
				691 *	GENERATE TXT RECORDS		00629001
				692 *			00630001
0005D0	4140 E002		00002	693	GENTXTS LA R4,2(,R14)	COMPUTE RETURN ADDR	00631001
0005D4	48E0 E000		00000	694	LH R14,0(,R14)	LOAD LENGTH GIVEN IN CALL	00632001
0005D8	47F0 55B6		005FE	695	B GEN2	CONTINUE TXT ENTRY	00633001
				696 *			00634001
				697 *	GENERATE RX OR RS INSTRUCTION, CHANGE PRECISION		00635001
				698 *			00636001
0005DC	9706 55AD		005F5	699	GENTXTP4 XI GENTXT6+7,X'06'	MODIFY LENGTH INSTRUCTION	00637001
				700 *			00638001
				701 *	GENERATE RR INSTRUCTION, CHANGE PRECISION		00639001
				702 *			00640001
0005E0	D600 2000 DA58	00000	00A58	703	GENTXTP2 OC 0(1,R2),PRECMASK	MODIFY INSTRUCTION, L OR S	00641001
				704 *			00642001
				705 *	GENERATE TXT RECORD,2		00643001
				706 *			00644001
0005E6	9706 55AD		005F5	707	GENTXT2 XI GENTXT6+7,X'06'	MODIFY LENGTH INSTRUCTION	00645001
				708 *			00646001
				709 *	GENERATE TXT RECORD,4		00647001
				710 *			00648001
0005EA	9702 55AD		005F5	711	GENTXT4 XI GENTXT6+7,X'02'	MODIFY LENGTH INSTRUCTION	00649001
				712 *			00650001
				713 *	GENERATE TXT RECORD,6		00651001
				714 *			00652001
0005EE	50E0 D5BC		005BC	715	GENTXT6 ST R14,PLACE14	SAVE LENGTH REGISTER	00653001
0005F2	41E0 0006		00006	716	LA R14,6	LENGTH = 2, 4 OR 6	00654001
0005F6	9206 55AD		005F5	717	MVI GENTXT6+7,X'06'	RESTORE MODIFIED INSTRUCTION	00655001
0005FA	4142 E000		00000	718	LA R4,0(R2,R14)	COMPUTE RETURN ADDR	00656001
0005FE	4130 56A4		006F2	719	GEN2 LA R3,TXTT	INDICATE TXT CALL	00657001
000602	5810 D0A8		000A8	720	GEN1 L R1,SAVOUTA	FETCH OLD OUTPUT RECORD ADDR	00658001
000606	9160 D081		00081	721	TM COMPFLGS+1,NLOAD+NDECK	LOAD OR DECK SPECIFIED ?	00659001
00060A	4710 560A		00652	722	BO GEN4A	NO, OUT OF GENERATE	00660001
00060E	9180 D080		00080	723	TM COMPFLGS,COMPmode	SYNTAX CHECK MODE ?	00661001
000612	4710 560A		00652	724	BO GEN4A		00662001
000616	D502 1001 3001	00001	00001	725	CLC 1(3,R1),1(R3)	RECORD RIGHT TYPE ?	00663001
00061C	4770 5610		00658	726	BNE GEN3	NO, CALL FOR NEW	00664001
000620	D501 100A 300C	0000A	0000C	727	CLC 10(2,R1),12(R3)	RECORD FILLED ?	00665001
000626	47B0 5610		00658	728	BNL GEN3	YES, CALL FOR NEW	00666001
00062A	41F0 0038		00038	729	GEN6 LA R15,56		00667001
00062E	4800 100A		0000A	730	LH R0,10(,R1)	R0 = LENGTH OF DATA IN REC	00668001
000632	1BF0			731	SR R15,R0	R15 = EMPTY POS LEFT IN RECORD	00669001
000634	19FE			732	CR R15,R14	ENOUGH SPACE LEFT ?	00670001
000636	4740 55F4		0063C	733	BL *+6	NO	00671001
00063A	18FE			734	LR R15,R14	YES, R15 = R14 FROM CALL	00672001
00063C	1AF0			735	AR R15,R0		00673001
00063E	40F0 100A		0000A	736	STH R15,10(,R1)	INSERT NEW LENGTH INTO RECORD	00674001
000642	1BF0			737	SR R15,R0		00675001
000644	1A10			738	AR R1,R0	START ADDR WITHIN RECORD	00676001
000646	1BEF			739	SR R14,R15	REMAINING LENGTH	00677001
000648	47F0 300E		0000E	740	B 14(,R3)	TO DIFFERENT MOVE ROUTINES	00678001
				741 *			00679001
00064C	12EE			742	GEN4 LTR R14,R14	MORE INFORMATION MUST BE MOVED ?	00680001
00064E	4720 5610		00658	743	BH GEN3	YES	00681001
000652	58E0 D5BC		005BC	744	GEN4A L R14,PLACE14	NO, RESTORE R14	00682001
000656	07F4			745	BR R4	RETURN	00683001
				746 *			00684001
				747 *	NEW OUTPUT RECORD		00685001
				748 *			00686001
000658	50E0 5700		00748	749	GEN3 ST R14,SAVELT	SAVE LENGTH	00687001
00065C	9160 D081		00081	750	TM COMPFLGS+1,NLOAD+NDECK	BOTH LOAD AND DECK SPECIFIED ?	00688001
000660	4780 5640		00688	751	BZ BOTH	YES	00689001
000664	9120 D081		00081	752	TM COMPFLGS+1,NDECK	DECK ONLY ?	00690001
000668	5810 D060		00060	753	L R1,APCHDCB	R1 -> SYSPUNCH DCB	00691001
00066C	4780 562C		00674	754	BZ PUT1	YES	00692001
000670	5810 D048		00048	755	PUT\$1 L R1,ALINDCB	R1 -> SYSLIN DCB	00693001
				756 *			00694001
				757	PUT1 PUT (R1)	PUT FOR SYSLIN AND SYSPUNCH	00695001
000674	1811			758	+PUT1 LR 1,R1	LOAD PARAMETER REG 1	02-IHBN
000676	58F0 1030		00030	759	+ L 15,48(0,1)	LOAD PUT ROUTINE ADDR	01-PUT
00067A	05EF			760	+ BALR 14,15	LINK TO PUT ROUTINE	01-PUT
				761 *			00696001
00067C	5010 D0A8		000A8	762	ST R1,SAVOUTA	SYSPUNCH OR SYSLIN ADDR	00697001
000680	58E0 5700		00748	763	L R14,SAVELT	RESTORE LENGTH	00698001
000684	47F0 5662		006AA	764	B PUNCHOUT	OUT OF ROUTINE PUNCH	00699001
				765 *			00700001



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000688	58E0 D0AC		000AC	766	BOTH	L R14,OUTAREA2	COPY SYSLIN DATA TO SYSPUNCH 00701001
00068C	5810 D0A8		000A8	767		L R1,SAVOUTA	00702001
000690	D24F E000	1000 00000	00000	768	MVC	0(80,R14),0(R1)	BUFFER 00703001
000696	5810 D060		00060	769	PUT2	R1,APCHDCB	R1 -> SYSPUNCH DCB 00704001
				770	*		00705001
				771	PUT	(R1)	PUT FOR SYSPUNCH WHEN BOTH HAS 00706001
00069A	1811			772+	LR	1,R1	LOAD PARAMETER REG 1 02-IHBIN
00069C	58F0 1030		00030	773+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
0006A0	05EF			774+	BALR	14,15	LINK TO PUT ROUTINE 01-PUT
				775	*		00707001
0006A2	5010 D0AC		000AC	776	ST	R1,OUTAREA2	BEEN SPECIFIED 00708001
0006A6	47F0 5628		00670	777	B	PUT\$1	GOTO PUT SYSLIN 00709001
				778	*		00710001
0006AA	D203 1000 3000	00000	00000	779	PUNCHOUT	MVC 0(4,R1),0(R3)	INSERT FIRST 4 BYTES 00711001
0006B0	9240 1004		00004	780	MVI	4(R1),C' '	INSERT ONE BLANK 00712001
0006B4	D242 1005 1004	00005	00004	781	MVC	5(67,R1),4(R1)	BLANK OUTPUT RECORD 00713001
0006BA	D203 1048 D0B0	00048	000B0	782	MVC	72(4,R1),PIDENT	INSERT PROGRAM IDENT 00714001
0006C0	FA31 D0B4 5704	000B4	0074C	783	AP	CARDCNT,KP1	STEP SEQUENCE NUMBER 00715001
0006C6	F333 104C D0B4	0004C	000B4	784	UNPK	76(4,R1),CARDCNT	UNPACK INTO RECORD 00716001
0006CC	96F0 104F		0004F	785	OI	79(R1),X'F0'	MAKE PRINTABLE 00717001
0006D0	D201 100A 3004	0000A	00004	786	MVC	10(2,R1),4(R3)	INSERT INITIAL LENGTH 00718001
0006D6	D205 100E 3006	0000E	00006	787	MVC	14(6,R1),6(R3)	INSERT ESID+R AND P 00719001
0006DC	D502 56AB 3001	006F3	00001	788	CLC	TXTT+1(3),1(R3)	TXT RECORD PROCESSED ? 00720001
0006E2	4770 55E2		0062A	789	BNE	GEN6	NO 00721001
0006E6	5061 0004		00004	790	ST	R6,4(R1)	YES INSERT R6 00722001
0006EA	9240 1004		00004	791	MVI	4(R1),C' '	00723001
0006EE	47F0 55E2		0062A	792	B	GEN6	00724001
				793	*		00725001
				794	*	TXT RECORD	00726001
				795	*		00727001
0006F2				796	DC	0H'0'	00728001
0006F2	02			797	TXTT	DC X'02'	RECORD CODE 00729001
0006F3	E3E7E3			798	DC	C'TXT'	IDENTIFICATION 00730001
0006F6	0000			799	DC	H'0'	INITIAL LENGTH 0 00731001
0006F8	0001			800	DC	H'1'	ESID 00732001
0006FA	40404040			801	DC	C' '	00733001
0006FE	0038			802	DC	H'56'	MAXIMUM LENGTH 00734001
				803	*		00735001
				804	*	MOVE TXT INFORMATION TO OUTAREA	00736001
				805	*		00737001
000700	06F0			806	GEN8	BCTR R15,0	DECR LENGTH 00738001
000702	42F0 56BF		00707	807	STC	R15,*+5	INSERT PROPER LENGTH TO MOVE 00739001
000706	D200 1010 2000	00010	00000	808	MVC	16(0,R1),0(R2)	MOVE DATA TO OUTAREA 00740001
00070C	416F 6001		00001	809	LA	R6,1(R15,R6)	INCREASE PROGRAM POINTER 00741001
000710	412F 2001		00001	810	LA	R2,1(R15,R2)	MODIFY DATA ADDR 00742001
000714	47F0 5604		0064C	811	B	GEN4	OUT OF MOVE TXT ROUTINE 00743001
				812	*		00744001
				813	*	RLD RECORD	00745001
				814	*		00746001
000718				815	DC	0H'0'	00747001
000718	02			816	RLDT	DC X'02'	RECORD CODE 00748001
000719	D9D3C4			817	DC	C'RLD'	IDENTIFICATION 00749001
00071C	0000			818	DC	H'0'	INITIAL LENGTH 0 00750001
00071E	4040			819	DC	C' '	00751001
000720	00010001			820	RANDP	DC H'1',H'1'	R AND P ESID ARE 1 AT START 00752001
000724	0038			821	DC	H'56'	MAXIMUM LENGTH IN RECORD 00753001
				822	*		00754001
				823	*	MOVE RLD INFORMATION TO OUTAREA	00755001
				824	*		00756001
000726	1AF1			825	GEN9	AR R15,R1	INDICATE LAST ENTRY 00757001
000728	D203 1010 56D8	00010	00720	826	GEN5	MVC 16(4,R1),RANDP	00758001
00072E	5020 1014		00014	827	ST	R2,20(,R1)	MOVE PROGRAM POINTER VALUE AND 00759001
000732	920C 1014		00014	828	MVI	20(R1),RLDFLAG	FLAG TO OUTAREA 00760001
000736	4110 1008		00008	829	LA	R1,8(,R1)	NEXT ENTRY 00761001
00073A	4120 2004		00004	830	LA	R2,4(,R2)	NEXT PROGRAM POINTER VALUE 00762001
00073E	191F			831	CR	R1,R15	LAST COLUMN FILLED 00763001
000740	4740 56E0		00728	832	BL	GEN5	NO, CONTINUE 00764001
000744	47F0 5604		0064C	833	B	GEN4	OUT OF MOVE RLD ROUTINE 00765001
				834	*		00766001
				835	*	VARIABLES AND CONSTANTS	00767001
				836	*		00768001
000748	00000000			837	SAVELT	DC F'0'	SAVE AREA FOR LENGTH 00769001
00074C	001C			838	KP1	DC PL2'1'	FOR INCREMENTING CARD COUNT 00770001
				839	*		00771001
				840	*	*****	00772001
				841	*		00773001
				842	*	SUBROUTINE CLEAR REGISTERS	00774001
				843	*		00775001
				844	*	*****	00776001
				845	*		00777001
				846	* CALL	BAL R4,CLEARRG	00778001
				847	*		00779001
				848	*	GENERATES STORE INSTRUCTIONS FOR ALL REGISTERS THAT	00780001
				849	*	CONTAIN VALID INFORMATION - SET CII, CIR, RII, RIR	00781001
				850	*		00782001
00074E	92FF DA61		00A61	851	CLEARRG	MVI GPBN+1,X'FF'	DESTROY GDSA 00783001
000752	5040 D578		00578	852	ST	R4,RETADR	STORE RETURN ADDR 00784001
000756	1BEE			853	SR	R14,R14	00785001
000758	06E0			854	BCTR	R14,0	00786001
00075A	06E0			855	BCTR	R14,0	00787001
00075C	4820 DA48		00A48	856	LH	R2,RIR	00788001
000760	41E0 E002		00002	857	KIF22	LA R14,2(,R14)	00789001
000764	1222			858	LTR	R2,R2	00790001
000766	4780 573C		00784	859	BZ	KIF21	YES, BRANCH 00791001
00076A	8C20 0001		00001	860	SRDL	R2,1	00792001
00076E	1233			861	LTR	R3,R3	00793001

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000770	47B0 5718		00760	862	BNM	KIF22	NO, BRANCH 00794001
000774	5020 D5B8		005B8	863	ST	R2, RETADR+64	00795001
000778	4540 5C66		00CAE	864	BAL	R4,ROUTIN13	00796001
00077C	5820 D5B8		005B8	865	L	R2, RETADR+64	00797001
000780	47F0 5718		00760	866	B	KIF22	00798001
				867	*		00799001
000784	9200 DA44	00A44		868	KIF21	MVI CIR,0	00800001
000788	9206 DA45	00A45		869	MVI	CIR+1,X'06'	00801001
00078C	D201 DA48	DA50 00A48	00A50	870	MVC	RIR(2),ZEROHW	00802001
000792	1BEE			871	SR	R14,R14	00803001
000794	06E0			872	BCTR	R14,0	00804001
000796	4820 DA46		00A46	873	LH	R2,R11	00805001
00079A	41E0 E001		00001	874	KIF25	LA R14,1(,R14)	00806001
00079E	1222			875	LTR	R2,R2	00807001
0007A0	4780 5776		007BE	876	BZ	KIF24	BRANCH IF YES 00808001
0007A4	8C20 0001		00001	877	SRDL	R2,1	00809001
0007A8	1233			878	LTR	R3,R3	00810001
0007AA	47B0 5752		0079A	879	BNM	KIF25	BRANCH IF NO 00811001
0007AE	5020 D5B8		005B8	880	ST	R2, RETADR+64	00812001
0007B2	4540 5B4E		00B96	881	BAL	R4,ROUTINE9	00813001
0007B6	5820 D5B8		005B8	882	L	R2, RETADR+64	00814001
0007BA	47F0 5752		0079A	883	B	KIF25	00815001
				884	*		00816001
0007BE	9200 DA42	00A42		885	KIF24	MVI CII,0	00817001
0007C2	9207 DA43	00A43		886	MVI	CII+1,X'07'	00818001
0007C6	D201 DA46	DA50 00A46	00A50	887	MVC	RII(2),ZEROHW	00819001
0007CC	5840 D578		00578	888	L	R4, RETADR	LOAD RETURN ADDR 00820001
0007D0	07F4			889	BR	R4	00821001
				890	*		00822001
				891	*	*****	00823001
				892	*		00824001
				893	*	OPERAND RECOGNIZER	00825001
				894	*		00826001
				895	*	*****	00827001
				896	*		00828001
				897	* CALL	BAL R4,OPDREC	00829001
				898	*		00830001
				899	*	CHECK IF OPERAND IN STACK IS A FORMAL PARAMETER OR A	00831001
				900	*	PROCEDURE WITHOUT PARAMETERS	00832001
				901	*	OPDREC GENERATES AN ACTUAL PARAMETER OR A PROCEDURE CALL	00833001
				902	*		00834001
				903	*	IF OPERAND IS A FORMAL PARAMETER CALLED BY VALUE LABEL	00835001
				904	*	OR ARRAY OPDREC GENERATES LOAD OF REGISTERS GDSA AND/OR ADR	00836001
				905	*		00837001
				906	*	ADDR DISPLACEMENTS	00838001
				907	*		00839001
		00001		908	TYP5	EQU 1	SECOND BYTE TYPE IN IDENTIFIER 00840001
		00003		909	NUMP	EQU 3	NO OF PARAMETERS IN IDENTIFIER 00841001
		00002		910	PBNP	EQU 2	DISP OF PBN IN IDENTIFIER 00842001
		00000		911	TYPF	EQU 0	FIRST BYTE TYPE IN IDENTIFIER 00843001
		00020		912	RUTIADR	EQU 4*8	ENTRY IN RUTI TABLE FOR ADR 00844001
				913	*		00845001
				914	*	BIT PATTERNS	00846001
				915	*		00847001
		00030		916	VARIAM	EQU X'30'	MASK FOR VARIABLE 00848001
		0007F		917	INTRVM	EQU X'7F'	INTERMEDIATE VALUE IN STACK 00849001
		00060		918	INTRRM	EQU X'60'	INTERMEDIATE VALUE ADDR IN REG 00850001
		000FF		919	DESTROY	EQU X'FF'	INDICATE THAT GDSA IS NOT VALID 00851001
		00004		920	ARRAYM	EQU X'04'	ARRAY IDENTIFIER MASK 00852001
		0000C		921	LABARRM	EQU X'0C'	LABEL OR ARRAY IDENTIFIER MASK 00853001
		00001		922	RIIADRM	EQU X'01'	RII MASK FOR RESERVATION OF ADR 00854001
		00030		923	FORMPM	EQU X'30'	FORMAL PARAMETER MASK 00855001
		000C0		924	PROC	EQU X'C0'	PROCEDURE MASK 00856001
		00040		925	STPROC	EQU X'40'	STANDARD PROCEDURE MASK 00857001
		000F0		926	PARAM	EQU X'F0'	NUMBER OF PARAMETER MASK 00858001
		00003		927	FUNCPM	EQU X'03'	FUNCTION PROCEDURE MASK 00859001
		00020		928	VALUEM	EQU X'20'	VALUE PARAMETER SPEC 00860001
		00080		929	REGADRM	EQU ADR*16	REGISTER ADR MASK 00861001
				930	*		00862001
0007D2	91C0 9000	00000		931	OPDREC	TM 0(R9),X'C0'	IDENTIFIER FROM ITAB ? 00863001
0007D6	07E4			932	BNOR	R4	NO, RETURN 00864001
0007D8	9130 9001	00001		933	TM	TYP5(R9),FORMPM	OPERAND FORMAL PARAMETER ? 00865001
0007DC	5040 58B4		008FC	934	ST	R4, SAVRT	SAVE RETURN ADDR 00866001
0007E0	4740 57D6		0081E	935	BM	OPDREC1	YES, FORMAL 00867001
0007E4	91C0 9001	00001		936	TM	TYP5(R9),PROC	PROCEDURE IDENTIFIER ? 00868001
0007E8	0784			937	BZR	R4	NO, RETURN 00869001
0007EA	9140 9001	00001		938	TM	TYP5(R9),STPROC	STANDARD PROCEDURE ? 00870001
0007EE	0784			939	BZR	R4	YES, RETURN 00871001
0007F0	91F0 9003	00003		940	TM	NUMP(R9),PARAM	PARAMETERLESS PROCEDURE ? 00872001
0007F4	0774			941	BNZR	R4	NO, RETURN 00873001
				942	*		00874001
				943	*	PARAMETERLESS PROCEDURE FOUND	00875001
				944	*		00876001
0007F6	4540 5706		0074E	945	BAL	R4,CLEARRG	CLEAR ALL OBJ TIME REGISTERS 00877001
0007FA	D201 5894	9003 008DC	00003	946	MVC	PPCODE+2(2),NUMP(R9)	INSERT DISPLACEMENT OF LABEL 00878001
000800	D200 5897	9002 008DF	00002	947	MVC	PPCODE+5(1),PBNP(R9)	INSERT PROGRAM BLOCK NUMBER 00879001
000806	4120 5892		008DA	948	LA	R2,PPCODE	GENERATE A PARAMETERLESS 00880001
00080A	45E0 5588		005D0	949	BAL	R14,GENTXTS	PROCEDURE 00881001
00080E	000C			950	DC	H'12'	CALL 00882001
000810	9103 9001	00001		951	TM	TYP5(R9),FUNCPM	FUNCTION PROCEDURE 00883001
000814	5840 58B4		008FC	952	L	R4, SAVRT	00884001
000818	0784			953	BZR	R4	NO, RETURN 00885001
				954	*		PARAMETERLESS FUNCTION 00886001
				955	*		PROC FOUND 00887001
00081A	47F0 5826		0086E	956	B	OPDREC4	00888001
				957	*		00889001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				958 *		FORMAL PARAMETER FOUND	00890001
				959 *			00891001
00081E	9120 9001	00001		960 OPDREC1	TM	TYP5(R9),VALUEM	00892001
000822	4710 585A		008A2	961	BO	OPDREC3	00893001
				962 *		FORMAL PARAMETER CALLED BY NAME	00894001
000826	4540 5706		0074E	963	BAL	R4,CLEARRG	00895001
00082A	1B33			964	SR	R3,R3	00896001
00082C	4330 9002		00002	965	IC	R3,PBNP(,R9)	00897001
000830	8930 0003		00003	966	SLL	R3,3	00898001
000834	4030 58A2		008EA	967	STH	R3,CAP+4	00899001
000838	4830 DA5C		00A5C	968	LH	R3,SPBNST	00900001
00083C	8930 0003		00003	969	SLL	R3,3	00901001
000840	4030 58A4		008EC	970	STH	R3,CAP+6	00902001
000844	D201 58A8	9003 008F0	00003	971	MVC	CAP+10(2),NUPM(R9)	00903001
00084A	4120 589E		008E6	972	LA	R2,CAP	00904001
00084E	45E0 5588		005D0	973	BAL	R14,GENTXTS	00905001
000852	000C			974	DC	H'12'	00906001
				975 *			00907001
000854	91C0 9001		00001	976	TM	TYP5(R9),PROCM	00908001
000858	4780 5826		0086E	977	BZ	OPDREC4	00909001
00085C	9180 58B8		00900	978	TM	PROCWPS,X'80'	00910001
000860	4710 5826		0086E	979	BO	OPDREC4	00911001
000864	4120 58AA		008F2	980	LA	R2,OPDREC6	00912001
000868	45E0 5588		005D0	981	BAL	R14,GENTXTS	00913001
00086C	000A			982	DC	H'10'	00914001
				983 *			00915001
00086E	4A70 DA56		00A56	984 OPDREC4	AH	R7,ONEENTRY	00916001
000872	4070 DA5E		00A5E	985	STH	R7,SPBNST+2	00917001
000876	D202 9002	DA5D 00002	00A5D	986	MVC	PBNP(3,R9),SPBNST+1	00918001
00087C	9760 9000		00000	987	XI	TYPF(R9),INTRRM	00919001
000880	9680 9003		00003	988	OI	NUPM(R9),REGADRM	00920001
000884	5090 D5E0		005E0	989	ST	R9,RUTI+RUTIADR	00921001
000888	9601 DA46		00A46	990	OI	RII,RIIADRM	00922001
00088C	5840 58B4		008FC	991	L	R4,SAVRT	00923001
000890	9104 9001		00001	992	TM	TYP5(R9),ARRAYM	00924001
000894	0714			993	BOR	R4	00925001
000896	9103 9001		00001	994	TM	TYP5(R9),X'03'	00926001
00089A	0784			995	BZR	R4	00927001
00089C	9200 9002		00002	996	MVI	PBNP(R9),X'00'	00928001
				997 *		INDICATE SPECIAL ADDR	00929001
				998 *		MAY POINT TO FCTVALST IN FSA	00930001
				999	BR	R4	00931001
0008A0	07F4			1000 *		ROUTINE 9 CHECK THIS	00932001
				1001 *		RETURN	00933001
				1002 *		FORMAL PARAMETER CALLED BY VALUE	00934001
0008A2	910C 9001		00001	1003 OPDREC3	TM	TYP5(R9),LABARRM	00935001
0008A6	07B4			1004	BNMR	R4	00936001
0008A8	4540 59F2		00A3A	1005	BAL	R4,ROUTINE3	00937001
0008AC	4A70 DA56		00A56	1006	AH	R7,ONEENTRY	00938001
0008B0	9104 9001		00001	1007	TM	TYP5(R9),ARRAYM	00939001
0008B4	4710 5826		0086E	1008	BO	OPDREC4	00940001
0008B8	4130 0004		00004	1009	LA	R3,4	00941001
0008BC	4A30 5A40		00A88	1010	AH	R3,GRD3+2	00942001
0008C0	4030 5888		008D0	1011	STH	R3,OPDREC5+2	00943001
0008C4	D100 5887	5A3F 008CF	00A87	1012	MVN	OPDREC5+1(1),GRD3+1	00944001
0008CA	4520 55A2		005EA	1013	BAL	R2,GENTXT4	00945001
0008CE	5890 0004		00004	1014 OPDREC5	L	GDSA,4(0,0)	00946001
0008D2	92FF DA61		00A61	1015	MVI	GPBN+1,DESTROY	00947001
0008D6	47F0 5826		0086E	1016	B	OPDREC4	00948001
				1017 *		INTERNAL NAME AND REG CONTROL	00949001
				1018 *		CONSTANTS AND VARIABLES	00950001
				1019 *			00951001
0008DA	588C 0000		00000	1020 PPCODE	L	ADR,0(LAT,0)	00952001
0008DE	9200 D0A9		000A9	1021	MVI	PROLPBN(FSA),0	00953001
0008E2	45F0 D0E0		000E0	1022	BAL	BRR,PROLOG(,FSA)	00954001
				1023 *			00955001
				1024 *		CALL ACTUAL PARAMETER, GENERATED CODE	00956001
				1025 *		DISPL, PBNP AND PBNC INSERTED	00957001
				1026 *			00958001
0008E6	45F0 D0D4		000D4	1027 CAP	BAL	BRR,CAP1(,FSA)	00959001
0008EA	0000			1028	DC	H'0'	00960001
0008EC	0000			1029	DC	H'0'	00961001
0008EE	588A 0000		00000	1030	L	ADR,0(CDSA,0)	00962001
0008F2	41ED 0090		00090	1031 OPDREC6	LA	R14,FCTVALST(FSA)	00963001
0008F6	19E8			1032	CR	R14,ADR	00964001
0008F8	477D 0220		00220	1033	BNE	OERR21(FSA)	00965001
				1034 *			00966001
0008FC	00000000			1035 SAVRT	DC	F'0'	00967001
000900	00			1036 PROCWPS	DC	X'00'	00968001
				1037 *		SAVE AREA FOR RETURN	00969001
				1038 *		SWITCH TO AVOID PARAMETERLESS	00970001
				1039		PROCEDURE CHECK	00971001
				1040 *		*****	00972001
				1041 *		SUBROUTINE MAXCHECK	00973001
				1042 *			00974001
				1043		*****	00975001
				1044 *			00976001
				1045 *		SUBROUTINE TO CHECK THAT OBJECT TIME STACK POINTER	00977001
				1046 *		VALUE IS LESS THAN MAX VALUE PLACED IN WORKPL BY CALLING	00978001
				1047 *		ROUTINE	00979001
				1048 *			00980001
				1049 * CALL	BAL	R4,MAXCH	00981001
				1050 *			00982001
000901	00						
000902	90F4 58F4		0093C	1051 MAXCH	STM	R15,R4,MCHSAV	00983001
000906	4840 D5F8		005F8	1052	LH	R4,WORKPL	00984001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00090A	4830 DA5C		00A5C	1053	LH	R3,SPBNST	CURRENT PBN FROM WORKAREA
00090E	8930 0002		00002	1054	SLL	R3,2	PBT DISPLACEMENT
000912	4943 D630		00630	1055	CH	R4,PBTAB3(R3)	R4 < MAX IN PBTAB3 ?
000916	47D0 58EC		00934	1056	BNH	MAXCH1	YES, RETURN
00091A	4043 D630		00630	1057	STH	R4,PBTAB3(R3)	INSERT R4 AS NEW MAX
00091E	4940 DA62		00A62	1058	CH	R4,MAXOVERF	OVERFLOW OF OBJECT TIME STACK ?
000922	47D0 58EC		00934	1059	BNH	MAXCH1	NO, RETURN
000926	1974			1060	CR	R7,R4	R7 ALREADY BEEN RESET ?
000928	4740 58EC		00934	1061	BL	MAXCH1	YES, NO ERROR MSG
00092C	1B77			1062	SR	R7,R7	NO, RESET R7 TO ZERO
00092E	4540 5356		0039E	1063	BAL	R4,SERRSP	ERROR PATTERN GENERATION
000932	00D6			1064	DC	H'214'	ERROR 214
				1065	*		
000934	98F4 58F4		0093C	1066	LM	R15,R4,MCHSAV	RESTORE REGISTERS
000938	07F4			1067	BR	R4	RETURN
				1068	*		
				1069	*	VARIABLES AND CONSTANTS	
				1070	*		
00093A	0000						
00093C	0000000000000000			1071	MCHSAV	DC 6F'0'	SAVE AREA FOR REGISTERS
				1072	*		
				1073	*	*****	
				1074	*		
				1075	*	SEMICOLON COUNTER HANDLING	
				1076	*		
				1077	*	*****	
				1078	*		
				1079	* CALL	BAL R4,SCHDL	
				1080	*		
				1081	*	SET SEMICOLON COUNTER AND MOVE SOURCE POINTER IN SOURCE	
				1082	*	STRING	
				1083	*		
				1084	*	GENERATES SEMICOLON TRACE IF OPTION SPECIFIED	
				1085	*		
000954	5040 5938		00980	1086	SCHDL	ST R4,SCHDLR	SAVE RETURN ADDR
000958	D201 D09C 8001 0009C		00001	1087	MVC	SEMCNT,1(R8)	STORE SEMICOLON NUMBER
00095E	4188 0002		00002	1088	LA	R8,2(R8)	STEP SOURCE POINTER
				1089	*		
				1090	*	GENERATE BRANCH TO TRACE ROUTINE	
				1091	*		
000962	D201 5930 D09C 00978 0009C		0009C	1092	MVC	SCHDL1(2),SEMCNT	SEMICOLON NUM TO GENERATED CODE
000968	9104 D082		00082	1093	TM	COMPLFGS+2,NOTEST	
00096C	4710 5932		0097A	1094	BO	SCHDL1+2	NO SEMICOLON TRACE GEN
000970	4520 55A6		005EE	1095	BAL	R2,GENTXT6	
000974	45FD 0100		00100	1096	BAL	BRR,TRACE(FSA)	**GENERATED CODE**
000978	0000			1097	SCHDL1	DC H'0'	**GENERATED CODE**
				1098	*		
00097A	5840 5938		00980	1099	L	R4,SCHDLR	
00097E	07F4			1100	BR	R4	
				1101	*		
000980	00000000			1102	SCHDLR	DC F'0'	SAVE RETURN ADDR
				1103	*		
				1104	*	*****	
				1105	*		
				1106	*	ROUTINE NUMBER 1	
				1107	*		
				1108	*	*****	
				1109	*		
				1110	* CALL	BAL R4,ROUTINE1	
				1111	*		
				1112	*	LOAD IN W-PLACE THE DISPLACEMENT OF AN OPERAND THAT IS	
				1113	*	NOT AN ADDR	
				1114	*	LOAD IN V-PLACE AA OR 99 DEPENDING ON WHERE THE	
				1115	*	VARIABLE, CONSTANT OR INTERMEDIATE RESULT IS AND	
				1116	*	GENERATES A LOADING OF GDSA IF NECESSARY	
				1117	*		
000984	D201 DA6A 9003 00A6A 00003		00003	1118	ROUTINE1	MVC WPLACE(2),3(R9)	MOVE DISPLACEMENT OF LO TO W
00098A	92AA DA72		00A72	1119	GPE2	MVI VPLACE,X'AA'	MOVE CDSA REG TO V
00098E	D500 9002 DA5D 00002 00A5D		00A5D	1120	CLC	2(1,R9),SPBNST+1	PBN OF LO CDSA ?
000994	0784			1121	BER	R4	YES, RETURN IF CURRENT DSA
000996	9299 DA72		00A72	1122	GPE3	MVI VPLACE,X'99'	MOVE GLOBAL DSA REG TO V
00099A	95FF DA61		00A61	1123	CLI	GPBN+1,X'FF'	C(GDSA) DESTROYED ?
00099E	4780 598E		009D6	1124	BE	GPC3	YES, BRANCH IF DESTROYED
0009A2	D500 DA60 9002 00A60 00002		00002	1125	CLC	GPBN(1),2(R9)	GDSA = PBN OF LO
0009A8	0784			1126	BER	R4	EQUAL, RETURN
0009AA	1B11			1127	GPC31	SR R1,R1	CLEAR R1
0009AC	5040 D57C		0057C	1128	ST	R4,RETADR+4	STORE RETURN ADDR
0009B0	D200 DA60 9002 00A60 00002		00002	1129	MVC	GPBN(1),2(R9)	KEEP NEW LOADED GDSA
0009B6	4310 9002		00002	1130	IC	R1,2(,R9)	LOAD IN R1 PBN OF LO
0009BA	8B10 0003		00003	1131	SLA	R1,3	MULTIPLY BY 8
0009BE	4010 D5F8		005F8	1132	STH	R1,WORKPL	PREPARE INSTRUCTION
0009C2	D201 5986 D5F8 009CE 005F8		005F8	1133	MVC	GPC4+2(2),WORKPL	
0009C8	4520 55A2		005EA	1134	BAL	R2,GENTXT4	GENERATE
0009CC	589B 0000		00000	1135	GPC4	L GDSA,0(PBT,0)	
0009D0	5840 D57C		0057C	1136	L	R4,RETADR+4	LOAD RETURN ADDR
0009D4	07F4			1137	BR	R4	RETURN
				1138	*		
0009D6	9200 DA61		00A61	1139	GPC3	MVI GPBN+1,0	RECONSTRUCT GDSA
0009DA	47F0 5962		009AA	1140	B	GPC31	
				1141	*		
				1142	*	*****	
				1143	*		
				1144	*	ROUTINE NUMBER 2	
				1145	*		
				1146	*	*****	
				1147	*		

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1148	* CALL	BAL R4,ROUTINE2	01080001
				1149	*		01081001
				1150	*	GENERATES A LOAD INSTRUCTION INTO THE FLOATING POINT	01082001
				1151	*	REGISTER SPECIFIED BY R14 OF AN OPERAND THAT IS AN ADDR	01083001
				1152	*	ADJUSTS THE OPERAND	01084001
				1153	*	STORES OPERAND STACK ADDR INTO RUTR	01085001
				1154	*		01086001
0009DE	5040 D580		00580	1155	ROUTINE2	ST R4, RETADR+8	01087001
0009E2	4190 9005		00005	1156	LA	R9,5(,R9)	01088001
0009E6	4540 59F2		00A3A	1157	BAL	R4,ROUTINE3	01089001
0009EA	89E0 0001		00001	1158	GQE3	SLL R14,1	01090001
0009EE	509E D5E4		005E4	1159	ST	R9,RUTR(R14)	01091001
0009F2	89E0 0003		00003	1160	SLL	R14,3	01092001
0009F6	42E0 59C3		00A0B	1161	STC	R14,GQD3+1	01093001
0009FA	D100 59C3	DA72 00A0B	00A72	1162	MVN	GQD3+1(1),VPLACE	01094001
000A00	D201 59C4	DA6A 00A0C	00A6A	1163	MVC	GQD3+2(2),WPLACE	01095001
000A06	4520 5594		005DC	1164	BAL	R2,GENTXTP4	01096001
000A0A	6800 0000		00000	1165	GQD3	LD 0,0(0,0)	01097001
000A0E	88E0 0004		00004	1166	GQF3	SRL R14,4	01098001
000A12	4B90 5170		001B8	1167	SH	R9,KH5	01099001
000A16	4070 D5F8		005F8	1168	STH	R7,WORKPL	01100001
000A1A	D201 9008	D5F8 00008	005F8	1169	MVC	8(2,R9),WORKPL	01101001
000A20	D300 9008	59C3 00008	00A0B	1170	MVZ	8(1,R9),GQD3+1	01102001
000A26	D200 9007	DA5D 00007	00A5D	1171	MVC	7(1,R9),SPBNST+1	01103001
000A2C	9680 9005		00005	1172	OI	5(R9),X'80'	01104001
000A30	949F 9005		00005	1173	NI	5(R9),X'9F'	01105001
000A34	5840 D580		00580	1174	L	R4,RETADR+8	01106001
000A38	07F4			1175	BR	R4	01107001
				1176	*		01108001
				1177	*****		01109001
				1178	*		01110001
				1179	*	ROUTINE NUMBER 3	01111001
				1180	*		01112001
				1181	*****		01113001
				1182	*		01114001
				1183	* CALL	BAL R4,ROUTINE3	01115001
				1184	*		01116001
				1185	*	LOAD IN W-PLACE ZERO	01117001
				1186	*	LOAD IN V-PLACE 88	01118001
				1187	*	GENERATE A LOADING OF ADR IF NECESSARY, IN THIS CASE	01119001
				1188	*	THE OPERAND IS AN ADDR	01120001
				1189	*		01121001
000A3A	5040 D584		00584	1190	ROUTINE3	ST R4, RETADR+12	01122001
000A3E	9140 9000		00000	1191	TM	0(R9),X'40'	01123001
000A42	4710 5A16		00A5E	1192	BO	GRC3	01124001
000A46	9200 DA46		00A46	1193	MVI	RII,0	01125001
000A4A	4B70 DA56		00A56	1194	GRE3	SH R7,ONEENTRY	01126001
000A4E	9288 DA72		00A72	1195	GRG2	MVI VPLACE,X'88'	01127001
000A52	D201 DA6A	DA50 00A6A	00A50	1196	MVC	WPLACE(2),ZEROHW	01128001
000A58	5840 D584		00584	1197	L	R4,RETADR+12	01129001
000A5C	07F4			1198	BR	R4	01130001
				1199	*		01131001
000A5E	9101 DA46		00A46	1200	GRC3	TM RII,X'01'	01132001
000A62	4780 5A2A		00A72	1201	BZ	GRD31	01133001
000A66	50E0 5A4C		00A94	1202	GRC4	ST R14,RETADR3	01134001
000A6A	4540 5B46		00B8E	1203	BAL	R4,ROUTIN10	01135001
000A6E	58E0 5A4C		00A94	1204	L	R14,RETADR3	01136001
000A72	4540 593C		00984	1205	GRD31	BAL R4,ROUTINE1	01137001
000A76	D201 5A40	DA6A 00A88	00A6A	1206	MVC	GRD3+2(2),WPLACE	01138001
000A7C	D100 5A3F	DA72 00A87	00A72	1207	MVN	GRD3+1(1),VPLACE	01139001
000A82	4520 55A2		005EA	1208	BAL	R2,GENTXT4	01140001
000A86	5880 0000		00000	1209	GRD3	L ADR,0(0,0)	01141001
000A8A	5090 D5E0		005E0	1210	ST	R9,RUTI+32	01142001
000A8E	47F0 5A02		00A4A	1211	B	GRE3	01143001
				1212	*		01144001
000A92	0000			1213	RETADR3	DC F'0'	01145001
000A94	00000000			1214	*		01146001
				1215	*****		01147001
				1216	*		01148001
				1217	*	ROUTINE NUMBER 4	01149001
				1218	*		01150001
				1219	*****		01151001
				1220	*		01152001
				1221	* CALL	BAL R4,ROUTINE4	01153001
				1222	*		01154001
				1223	*	GENERATES A LOAD INSTRUCTION INTO THE FLOATING POINT	01155001
				1224	*	REGISTER SPECIFIED BY R14 OF AN OPERAND THAT IS NOT AN ADDR	01156001
				1225	*	ADJUSTS THE OPERAND AND STORES THE OPERAND STACK ADDR	01157001
				1226	*	INTO RUTR	01158001
				1227	*		01159001
000A98	5040 D580		00580	1228	ROUTINE4	ST R4, RETADR+8	01160001
000A9C	4190 9005		00005	1229	LA	R9,5(,R9)	01161001
000AA0	4540 593C		00984	1230	BAL	R4,ROUTINE1	01162001
000AA4	9630 9001		00001	1231	OI	1(R9),X'30'	01163001
000AA8	47F0 59A2		009EA	1232	B	GQE3	01164001
				1233	*		01165001
				1234	*****		01166001
				1235	*		01167001
				1236	*	ROUTINE NUMBER 5	01168001
				1237	*		01169001
				1238	*****		01170001
				1239	*		01171001
				1240	* CALL	BAL R4,ROUTINE5	01172001
				1241	*		01173001
				1242	*	GENERATES A LOAD INSTRUCTION INTO A GENERAL PURPOSE	01174001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1243	*	REGISTER SPECIFIED BY R14 OF AN OPERAND THAT IS NOT AN ADDR	01175001
				1244	*	ADJUSTS THE OPERAND AND STORES THE OPERAND STACK ADDR	01176001
				1245	*	INTO RUTI	01177001
				1246	*		01178001
000AAC	5040 D580		00580	1247	ROUTINE5	ST R4,RETADR+8	01179001
000AB0	4190 9005		00005	1248	LA	R9,5(,R9)	01180001
000AB4	4540 593C		00984	1249	BAL	R4,ROUTINE1	01181001
000AB8	9630 9001	00001		1250	OI	1(R9),X'30'	01182001
000ABC	89E0 0002		00002	1251	GTE3	SLL R14,2	01183001
000AC0	509E D5C0		005C0	1252	ST	R9,RUTI(R14)	01184001
000AC4	89E0 0002		00002	1253	SLL	R14,2	01185001
000AC8	42E0 5A99		00AE1	1254	STC	R14,GTD3+1	01186001
000ACC	42E0 59C3		00A0B	1255	STC	R14,GQD3+1	01187001
000AD0	D100 5A99	DA72	00AE1	1256	MVN	GTD3+1(1),VPLACE	01188001
000AD6	D201 5A9A	DA6A	00AE2	1257	MVC	GTD3+2(2),VPLACE	01189001
000ADC	4520 55A2		005EA	1258	BAL	R2,GENTXT4	01190001
000AE0	5800 0000		00000	1259	GTD3	L 0,0(0,0)	01191001
000AE4	47F0 59C6		00A0E	1260	B	GQF3	01192001
				1261	*	***GENERATE***	01193001
				1262	*	BRANCH TO ENTRY PT IN RTN NO 2	01194001
				1263	*		01195001
				1264	*	ROUTINE NUMBER 6	01196001
				1265	*		01197001
				1266	*		01198001
				1267	*		01199001
				1268	* CALL	BAL R4,ROUTINE6	01200001
				1269	*		01201001
				1270	*	GENERATES A LOAD INSTRUCTION INTO A GENRAL PURPOSE	01202001
				1271	*	REGISTER SPECIFIED BY R14 OF AN OPERAND THAT IS AN ADDR	01203001
				1272	*	ADJUSTS THE OPERAND AND STORES THE OPERAND STACK ADDR	01204001
				1273	*	INTO RUTI	01205001
				1274	*		01206001
000AE8	5040 D580		00580	1275	ROUTINE6	ST R4,RETADR+8	01207001
000AEC	4190 9005		00005	1276	LA	R9,5(,R9)	01208001
000AF0	4540 59F2		00A3A	1277	BAL	R4,ROUTINE3	01209001
000AF4	47F0 5A74		00ABC	1278	B	GTE3	01210001
				1279	*	BRANCH TO ENTRY PT IN RTN NO 5	01211001
				1280	*		01212001
				1281	*		01213001
				1282	*	ROUTINE NUMBER 7	01214001
				1283	*		01215001
				1284	*		01216001
				1285	*		01217001
				1286	* CALL	BAL R4,ROUTINE7	01218001
				1287	*		01219001
				1288	*	LOADS INTO R14 THE NUMBER OF THE NEXT GENERAL PURPOSE	01220001
				1289	*	REGISTER TO BE USED ACCORDING TO CII	01221001
				1290	*	IF IT IS OCCUPIED IT BRANCHES TO ROUTINE NUMBER 9 THAT	01222001
				1291	*	GENERATES A STORE INSTRUCTION	01223001
				1292	*	CII AND RII ARE SET	01224001
				1293	*	RESERVES ONE OBJECT TIME STACK ENTRY	01225001
				1294	*		01226001
000AF8	1BEE			1295	ROUTINE7	SR R14,R14	01227001
000AFA	9507 DA43		00A43	1296	CLI	CII+1,X'07'	01228001
000AFE	4780 5AC2		00B0A	1297	BE	GVC2	01229001
000B02	43E0 DA43		00A43	1298	IC	R14,CII+1(0)	01230001
000B06	41E0 E001		00001	1299	LA	R14,1(,R14)	01231001
000B0A	42E0 DA43		00A43	1300	GVC2	STC R14,CII+1	01232001
000B0E	41F0 0001		00001	1301	LA	R15,1	01233001
000B12	89F0 E000		00000	1302	SLL	R15,0(R14)	01234001
000B16	42F0 5AD3		00B1B	1303	STC	R15,GVC21+1	01235001
000B1A	9100 DA47		00A47	1304	GVC21	TM RII+1,0	01236001
000B1E	4780 5AE6		00B2E	1305	BZ	GVE2	01237001
000B22	5040 D594		00594	1306	ST	R4,RETADR+28	01238001
000B26	4540 5B4E		00B96	1307	BAL	R4,ROUTINE9	01239001
000B2A	5840 D594		00594	1308	L	R4,RETADR+28	01240001
000B2E	D600 DA47	5AD3	00A47	1309	GVE2	OC RII+1(1),GVC21+1	01241001
000B34	4A70 DA56		00A56	1310	GVF2	AH R7,ONEENTRY	01242001
000B38	07F4			1311	BR	R4	01243001
				1312	*		01244001
				1313	*		01245001
				1314	*		01246001
				1315	*	ROUTINE NUMBER 8	01247001
				1316	*		01248001
				1317	*		01249001
				1318	*		01250001
				1319	* CALL	BAL R4,ROUTINE8	01251001
				1320	*		01252001
				1321	*	THE LAST GENERAL PURPOSE REGISTER RESERVED IS RELEASED	01253001
				1322	*	CII AND RII ARE SET	01254001
				1323	*	ONE OBJECT STACK ENTRY IS RELEASED	01255001
				1324	*		01256001
000B3A	1BEE			1325	ROUTINE8	SR R14,R14	01257001
000B3C	43E0 DA43		00A43	1326	IC	R14,CII+1	01258001
000B40	41F0 0001		00001	1327	LA	R15,1	01259001
000B44	89F0 E000		00000	1328	SLL	R15,0(R14)	01260001
000B48	42F0 5B09		00B51	1329	STC	R15,GWD51+1	01261001
000B4C	97FF 5B09		00B51	1330	XI	GWD51+1,X'FF'	01262001
000B50	9400 DA47		00A47	1331	GWD51	NI RII+1,0	01263001
000B54	4B70 DA56		00A56	1332	SH	R7,ONEENTRY	01264001
000B58	9500 DA43		00A43	1333	GWD5	CLI CII+1,0	01265001
000B5C	4780 5B30		00B78	1334	BE	GWD3	01266001
000B60	06E0			1335	BCTR	R14,0	01267001
000B62	42E0 DA43		00A43	1336	STC	R14,CII+1	01268001
000B66	88F0 0001		00001	1337	SRL	R15,1	01269001
000B6A	42F0 5B27		00B6F	1338	GWD6	STC R15,GWD4+1	01270001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000B6E	9100 DA47	00A47		1339	GWD4	TM RII+1,0	01271001
000B72	4780 5B10		00B58	1340		BZ GWD5	01272001
000B76	07F4			1341		BR R4	01273001
				1342	*		01274001
000B78	9207 DA43	00A43		1343	GWD3	MVI CII+1,X'07'	01275001
000B7C	41E0 0007		00007	1344		LA R14,7	01276001
000B80	9500 DA47	00A47		1345		CLI RII+1,0	01277001
000B84	0784			1346		BER R4	01278001
000B86	41F0 0080		00080	1347		LA R15,128	01279001
000B8A	47F0 5B22		00B6A	1348		B GWD6	01280001
				1349	*		01281001
				1350	*****		01282001
				1351	*		01283001
				1352	*	ROUTINE NUMBER 10	01284001
				1353	*		01285001
				1354	*****		01286001
				1355	*		01287001
				1356	* CALL	BAL R4,ROUTIN10	01288001
				1357	*		01289001
				1358	*	CLEAR RII OF ADR	01290001
				1359	*	LOADS 8 INTO R14	01291001
				1360	*	FALLS THROUGH TO ROUTINE NUMBER 9	01292001
				1361	*		01293001
000B8E	9200 DA46	00A46		1362	ROUTIN10	MVI RII,X'00'	01294001
000B92	48E0 5B12		001BA	1363		LH R14,KH8	01295001
				1364	*		01296001
				1365	*****		01297001
				1366	*		01298001
				1367	*	ROUTINE NUMBER 9	01299001
				1368	*		01300001
				1369	*****		01301001
				1370	*		01302001
				1371	* CALL	BAL R4,ROUTINE9	01303001
				1372	*		01304001
				1373	*	GENERATE CODE TO STORE GENERAL PURPOSE REGISTER	01305001
				1374	*	SPECIFIED BY R14 IF THE PBN IS NOT ZERO	01306001
				1375	*	IF THE PBN IS ZERO IT GENERATES A MOVE INSTRUCTION	01307001
				1376	*	THE OPERAND IS ADJUSTED	01308001
				1377	*		01309001
000B96	5040 D59C		0059C	1378	ROUTINE9	ST R4,RETADR+36	01310001
000B9A	89E0 0002		00002	1379		SLL R14,2	01311001
000B9E	41F0 D5C0		005C0	1380		LA R15,RUTI	01312001
000BA2	58FE F000		00000	1381		L R15,0(R14,R15)	01313001
000BA6	89E0 0002		00002	1382		SLL R14,2	01314001
000BAA	940F F003		00003	1383		NI 3(R15),X'0F'	01315001
000BAE	50F0 D5A8		005A8	1384		ST R15,RETADR+48	01316001
000BB2	91FF F002		00002	1385		TM 2(R15),X'FF'	01317001
000BB6	4780 5B8C		00BD4	1386		BZ GXC4	01318001
000BBA	41E0 E00A		0000A	1387		LA R14,10(,R14)	01319001
000BBE	42E0 5B85		00BCD	1388		STC R14,GXC3+1	01320001
000BC2	D201 5B86	F003	00BCE	00003		MVC GXC3+2(2),3(R15)	01321001
000BC8	4520 55A2		005EA	1390		BAL R2,GENTXT4	01322001
000BCC	500A 0000		00000	1391	GXC3	ST 0,0(CDSA,0)	01323001
000BD0	47F0 5C98		00CE0	1392		B HBC2	01324001
				1393	*		01325001
000BD4	D201 5B86	F003	00BFE	00003		MVC GXC5+2(2),3(R15)	01326001
000BDA	96A0 5B86		00BFE	1395		OI GXC5+2,X'A0'	01327001
000BDE	9207 5B85		00BFD	1396		MVI GXC5+1,X'07'	01328001
000BE2	9102 D080		00080	1397		TM COMFLGS,LNG	01329001
000BE6	4710 5BA6		00BEE	1398		BO GXC6	01330001
000BEA	9203 5B85		00BFD	1399		MVI GXC5+1,X'03'	01331001
000BEE	940F F000		00000	1400	GXC6	NI 0(R15),X'DF'	01332001
000BF2	D200 F002	DA5D	00A5D	1401		MVC 2(1,R15),SPBNST+1	01333001
000BF8	4520 55A6		005EE	1402		BAL R2,GENTXT6	01334001
000BFC	D203 A000	0000	00000	1403	GXC5	MVC 0(4,CDSA),0(ADR)	01335001
000C02	47F0 5C98		00CE0	1404		B HBC2	01336001
				1405	*		01337001
				1406	*****		01338001
				1407	*		01339001
				1408	*	ROUTINE NUMBER 11	01340001
				1409	*		01341001
				1410	*****		01342001
				1411	*		01343001
				1412	* CALL	BAL R4,ROUTIN11	01344001
				1413	*		01345001
				1414	*	LOADS INTO R14 THE NUMBER OF THE NEXT FLOATING POINT	01346001
				1415	*	REGISTER TO BE USED ACCORDING TO CIR	01347001
				1416	*	IF IT IS OCCUPIED IT CALLS ROUTINE NUMBER 13 THAT	01348001
				1417	*	GENERATES A STORE INSTRUCTION	01349001
				1418	*	CIR AND RIR ARE SET	01350001
				1419	*	ONE OBJECT TIME ENTRY IS RESERVED	01351001
				1420	*		01352001
000C06	1BEE			1421	ROUTIN11	SR R14,R14	01353001
000C08	9506 DA45		00A45	1422		CLI CIR+1,X'06'	01354001
000C0C	4780 5B00		00C18	1423		BE GZC2	01355001
000C10	43E0 DA45		00A45	1424		IC R14,CIR+1	01356001
000C14	41E0 E002		00002	1425		LA R14,2(,R14)	01357001
000C18	40E0 DA44		00A44	1426	GZC2	STH R14,CIR	01358001
000C1C	88E0 0001		00001	1427		SRL R14,1	01359001
000C20	41F0 0001		00001	1428		LA R15,1	01360001
000C24	89F0 E000		00000	1429		SLL R15,0(R14)	01361001
000C28	89E0 0001		00001	1430		SLL R14,1	01362001
000C2C	42F0 5BE9		00C31	1431		STC R15,GZC21+1	01363001
000C30	9100 DA49		00A49	1432	GZC21	TM RIR+1,0	01364001
000C34	4780 5BFC		00C44	1433		BZ GZE2	01365001
000C38	5040 D5A4		005A4	1434		ST R4,RETADR+44	01366001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000C3C	4540 5C66		00CAE	1435	BAL	R4,ROUTIN13	CALL ROUTIN13 01367001
000C40	5840 D5A4		005A4	1436	L	R4,RETADR+44	LOAD RETURN ADDR 01368001
000C44	D600 DA49	5BE9 00A49	00C31	1437	GZE2	RIR+1(1),GZC21+1	01369001
000C4A	4A70 DA56		00A56	1438	GZF2	R7,ONEENTRY	INCREASE R7 BY 4 OR 8 01370001
000C4E	07F4			1439	BR	R4	01371001
				1440	*		01372001
				1441	*		01373001
				1442	*		01374001
				1443	*	ROUTINE NUMBER 12	01375001
				1444	*		01376001
				1445	*		01377001
				1446	*		01378001
				1447	* CALL	BAL R4,ROUTIN12	01379001
				1448	*		01380001
				1449	*	THE LAST FLOATING POINT REGISTER RESERVED IS RELEASED	01381001
				1450	*	CIR AND RIR ARE SET	01382001
				1451	*	ONE OBJECT STACK ENTRY IS RELEASED	01383001
				1452	*		01384001
000C50	48E0 DA44		00A44	1453	ROUTIN12 LH	R14,CIR	LOAD INTO R14 CIR 01385001
000C54	41F0 0001		00001	1454	LA	R15,1	CLEAR RIR OF BLO 01386001
000C58	88E0 0001		00001	1455	SRL	R14,1	01387001
000C5C	89F0 E000		00000	1456	SLL	R15,0(R14)	01388001
000C60	42F0 5C21		00C69	1457	STC	R15,HAD4+1	01389001
000C64	97FF 5C21	00C69		1458	XI	HAD4+1,X'FF'	01390001
000C68	9400 DA49	00A49		1459	HAD4 NI	RIR+1,0	01391001
000C6C	4B70 DA56		00A56	1460	SH	R7,ONEENTRY	REDUCE R7 01392001
000C70	89E0 0001		00001	1461	SLL	R14,1	01393001
000C74	9500 DA45	00A45		1462	HAD1 CLI	CIR+1,0	ZERO ? 01394001
000C78	4780 5C4E		00C96	1463	BE	HAD3	YES, BRANCH 01395001
000C7C	4BE0 516C		001B4	1464	SH	R14,KH2	01396001
000C80	42E0 DA45		00A45	1465	STC	R14,CIR+1	01397001
000C84	88F0 0001		00001	1466	SRL	R15,1	01398001
000C88	42F0 5C45		00C8D	1467	HAD0 STC	R15,HAD2+1	01399001
000C8C	9100 DA49	00A49		1468	HAD2 TM	RIR+1,0	01400001
000C90	4780 5C2C		00C74	1469	BZ	HAD1	01401001
000C94	07F4			1470	BR	R4	01402001
				1471	*		01403001
000C96	9206 DA45	00A45		1472	HAD3 MVI	CIR+1,X'06'	SET CIR = 6 01404001
000C9A	48E0 DA44		00A44	1473	LH	R14,CIR	01405001
000C9E	9500 DA49	00A49		1474	CLI	RIR+1,0	ZERO ? 01406001
000CA2	0784			1475	BER	R4	YES, BRANCH 01407001
000CA4	41F0 0008		00008	1476	LA	R15,8	01408001
000CA8	47F0 5C40		00C88	1477	B	HAD0	01409001
				1478	*		01410001
				1479	*		01411001
				1480	*		01412001
				1481	*	ROUTINE NUMBER 14	01413001
				1482	*		01414001
				1483	*		01415001
				1484	*		01416001
				1485	* CALL	BAL R4,ROUTIN14	01417001
				1486	*		01418001
				1487	*	LOAD ZERO INTO R14	01419001
				1488	*	FALL THROUGH TO ROUTINE NUMBER 13	01420001
				1489	*		01421001
000CAC	1BEE			1490	ROUTIN14 SR	R14,R14	01422001
				1491	*		01423001
				1492	*		01424001
				1493	*		01425001
				1494	*	ROUTINE NUMBER 13	01426001
				1495	*		01427001
				1496	*		01428001
				1497	*		01429001
				1498	*	GENERATE CODE TO STORE FLOATING POINT REGISTER	01430001
				1499	*	SPECIFIED BY R14	01431001
				1500	*	THE OPERAND IS ADJUSTED	01432001
				1501	*		01433001
000CAE	5040 D59C		0059C	1502	ROUTIN13 ST	R4,RETADR+36	STORE RETURN ADDR 01434001
000CB2	89E0 0001		00001	1503	SLL	R14,1	MULTIPLY R14 BY 2 01435001
000CB6	41F0 D5E4		005E4	1504	LA	R15,RUTR	LOAD ADDR OF RUTR 01436001
000CBA	58FE F000		00000	1505	L	R15,0(R14,R15)	LOAD R9 ADDR OF OPERAND 01437001
000CBE	89E0 0003		00003	1506	SLL	R14,3	SHIFT REG NO TO OROARE INSTRUC 01438001
000CC2	41E0 E00A		0000A	1507	LA	R14,10(,R14)	INTRODUCE CDSA 01439001
000CC6	42E0 5C95		00CDD	1508	STC	R14,HBC3+1	01440001
000CCA	940F F003	00003		1509	NI	3(R15),X'0F'	01441001
000CCE	D201 5C96	F003 00CDE	00003	1510	MVC	HBC3+2(2),3(R15)	01442001
000CD4	50F0 D5A8		005A8	1511	ST	R15,RETADR+48	01443001
000CD8	4520 5594		005DC	1512	BAL	R2,GENTXTP4	01444001
000CDC	600A 0000		00000	1513	HBC3 STD	0,0(CDSA,0)	*** GENERATE *** 01445001
000CE0	58F0 D5A8		005A8	1514	HBC2 L	R15,RETADR+48	01446001
000CE4	97C0 F000	00000		1515	XI	0(R15),X'C0'	01447001
000CE8	D201 D5F8	F003 005F8	00003	1516	MVC	WORKPL(2),3(R15)	01448001
000CEE	4540 58BA		00902	1517	BAL	R4,MAXCH	01449001
000CF2	88E0 0004		00004	1518	SRL	R14,4	01450001
000CF6	5840 D59C		0059C	1519	L	R4,RETADR+36	LOAD RETURN ADDR 01451001
000CFA	07F4			1520	BR	R4	RETURN 01452001
				1521	*		01453001
				1522	*		01454001
				1523	*		01455001
				1524	*	ROUTINE NUMBER 15	01456001
				1525	*		01457001
				1526	*		01458001
				1527	*		01459001
				1528	* CALL	BAL R4,ROUTIN15	01460001
				1529	*		01461001
				1530	*	IF THE OPERAND IS AN ADDR BRANCH TO ROUTINE NUMBER 3	01462001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1531 *		IF THE OPERAND IS NOT AN ADDR AND IS IN A REGISTER GET	01463001
				1532 *		THE REGISTER NUMBER TO V-PLACE, ELSE IT BRANCHES TO	01464001
				1533 *		ROUTINE NUMBER 1	01465001
				1534 *			01466001
000CFC	9120 9000	00000		1535	ROUTIN15	TM 0(R9),X'20'	01467001
000D00	4710 59F2		00A3A	1536		BO ROUTINE3	01468001
000D04	9140 9000	00000		1537		TM 0(R9),X'40'	01469001
000D08	4780 5CD4		00D1C	1538		BZ ROUT151	01470001
000D0C	9180 9000	00000		1539		TM 0(R9),X'80'	01471001
000D10	4710 593C		00984	1540		BO ROUTINE1	01472001
000D14	4B70 DA56		00A56	1541		SH R7,ONEENTRY	01473001
000D18	47F0 593C		00984	1542		B ROUTINE1	01474001
				1543 *			01475001
000D1C	43F0 9003		00003	1544	ROUT151	IC R15,3(,R9) GET	01476001
000D20	88F0 0004		00004	1545		SRL R15,4 REG	01477001
000D24	42F0 DA72		00A72	1546		STC R15,VPLACE NUMBER	01478001
000D28	D300 DA72	9003 00A72	00003	1547		MVZ VPLACE(1),3(R9) TO VPLACE	01479001
000D2E	07F3			1548		BR R3 RETURN	01480001
				1549 *			01481001
				1550		*****	01482001
				1551 *			01483001
				1552 *		DECOMP	01484001
				1553 *			01485001
				1554		*****	01486001
				1555 *			01487001
				1556 *	CALL	BAL R4,DECOMP	01488001
				1557 *			01489001
				1558 *		DECOMPOSE OPERAND BY MOVING ITS PARTS INTO LOW ENDS OF	01490001
				1559 *		HALFWORDS	01491001
				1560 *			01492001
000D30	D200 DA4B	9002 00A4B	00002	1561	DECOMP	MVC OPDPBN+1(1),2(R9) MOVE PBN	01493001
000D36	D201 DA4C	9003 00A4C	00003	1562		MVC OPDADR(2),3(R9) MOVE ADDR	01494001
000D3C	4810 DA4C		00A4C	1563		LH R1,OPDADR	01495001
000D40	5410 5198		001E0	1564		N R1,HEXFFF	01496001
000D44	4010 DA4E		00A4E	1565		STH R1,OPDLN LABEL NUMBER	01497001
000D48	07F4			1566		BR R4	01498001
				1567 *			01499001
				1568		*****	01500001
				1569 *			01501001
				1570 *		STACKAPI	01502001
				1571 *			01503001
				1572		*****	01504001
				1573 *			01505001
				1574 *	CALL	BAL R4,STACKAPI	01506001
				1575 *			01507001
				1576 *		STACK ALL PURPOSE IDENTIFIER (API)	01508001
				1577 *			01509001
000D4A	4B90 5170		001B8	1578	STACKAPI	SH R9,KH5	01510001
000D4E	19A9			1579		CR R10,R9	01511001
000D50	47B0 53E0		00428	1580		BNL STACKOFL	01512001
000D54	D204 9000	5182 00000	001CA	1581		MVC 0(5,R9),API	01513001
000D5A	07F4			1582		BR R4	01514001
				1583 *			01515001
				1584		*****	01516001
				1585 *			* 01517001
				1586 *		PROGRAM BLOCK NUMBER HANDLING	* 01518001
				1587 *			* 01519001
				1588		*****	01520001
				1589 *			01521001
				1590 *	CALL	BAL R4,PBNHDL	01522001
				1591 *			01523001
				1592 *		PROGRAM BLOCK NUMBER HANDLING INSERTS NEW PBN IN	01524001
				1593 *		WORKAREA, SPBNST	01525001
				1594 *		SAVE R7 IN PB TAB2	01526001
				1595 *		INSERT NEW OBJECT TIME STACK POINTER VALUE TO R7	01527001
				1596 *			01528001
000D5C	1B22			1597	PBNHDL	SR R2,R2	01529001
000D5E	4320 8003		00003	1598		IC R2,3(,R8)	01530001
000D62	950D 8000	00000		1599		CLI 0(R8),X'0D'	01531001
000D66	4780 5D2A		00D72	1600		BE PBNHDL1 YES	01532001
000D6A	952A 8000	00000		1601		CLI 0(R8),X'2A'	01533001
000D6E	4770 5D32		00D7A	1602		BNE PBNHDL2 NO	01534001
				1603 *		(=BRANCH IF OPTR IS PI OR PHI)	01535001
				1604 *			01536001
				1605 *		OPERATOR IS BETA OR EPSILON	01537001
				1606 *			01538001
000D72	4320 8001		00001	1607	PBNHDL1	IC R2,1(,R8)	01539001
000D76	4180 8001		00001	1608		LA R8,1(,R8)	01540001
000D7A	4810 DA5C		00A5C	1609	PBNHDL2	LH R1,SPBNST STORE	01541001
000D7E	8910 0001		00001	1610		SLL R1,1 OLD	01542001
000D82	4071 D278		00278	1611		STH R7,PBTAB2(R1) P-VALUE	01543001
000D86	4220 DA5D		00A5D	1612		STC R2,SPBNST+1 INSERT NEW PBN	01544001
000D8A	8920 0001		00001	1613		SLL R2,1 GET DISP IN PB TAB2	01545001
000D8E	4872 D278		00278	1614		LH R7,PBTAB2(R2) LOAD NEW P VALUE	01546001
000D92	9180 D080	00000		1615		TM COMPF LGS,COMP MODE SYNTAX CHECK MODE ?	01547001
000D96	0714			1616		BOR R4 YES, RETURN	01548001
000D98	47F0 5706		0074E	1617		B CLEARRG CLEAR REGISTERS RETURN DIRECT	01549001
				1618 *			01550001
				1619		*****	01551001
				1620 *			01552001
				1621 *		PLPRST - PARAMETERLESS PROCEDURE STATEMENT HANDLING	01553001
				1622 *			01554001
				1623		*****	01555001
				1624 *			01556001
				1625 *	CALL	BAL R4,PLPRST	01557001
				1626 *			01558001

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				1627 *		CHECKS THAT OPERAND IS A PARAMETERLESS PROCEDURE	01559001
				1628 *			01560001
000D9C	5040 D624		00624	1629 PLPRST	ST	R4,STRETURN	01561001
000DA0	4540 5CE8		00D30	1630	BAL	R4,DECOMP	01562001
000DA4	91C0 9001	00001		1631	TM	1(R9),X'C0'	01563001
000DA8	4780 5D7C		00DC4	1632	BZ	PLPRST4	01564001
000DAC	4840 DA4C		00A4C	1633	LH	R4,OPDADR	01565001
000DB0	8840 000C		0000C	1634	SRL	R4,12	01566001
000DB4	1244			1635	LTR	R4,R4	01567001
000DB6	4780 5D86		00DCE	1636	BZ	PLPRST1	01568001
000DBA	4540 5380		003C8	1637 PLPRST0	BAL	R4,SERR1	01569001
000DBE	00BB			1638	DC	H'187'	01570001
				1639 *			01571001
000DC0	47F0 5DA2		00DEA	1640	B	PLPRST3	01572001
				1641 *			01573001
000DC4	4540 5318		00360	1642 PLPRST4	BAL	R4,SERR3	01574001
000DC8	00B7			1643	DC	H'183'	01575001
				1644 *			01576001
000DCA	47F0 5DA2		00DEA	1645	B	PLPRST3	01577001
				1646 *			01578001
000DCE	9180 D080	00080		1647 PLPRST1	TM	COMPLG5,COMPMODE	01579001
000DD2	4710 5DA2		00DEA	1648	BO	PLPRST3	01580001
000DD6	4540 578A		007D2	1649	BAL	R4,OPDREC	01581001
000DDA	9180 9003	00003		1650	TM	3(R9),REGADRM	01582001
000DDE	4780 5DA2		00DEA	1651	BZ	PLPRST3	01583001
000DE2	4B70 DA56		00A56	1652	SH	R7,ONEENTRY	01584001
000DE6	9701 DA46	00A46		1653	XI	RII,RIIADRM	01585001
000DEA	5840 D624		00624	1654 PLPRST3	L	R4,STRETURN	01586001
000DEE	07F4			1655	BR	R4	01587001
				1656 *			01588001
				1657	*****		01589001
				1658 *			01590001
				1659 *		SUBROUTINE - LOAD VPLACE, WPLACE	01591001
				1660 *			01592001
				1661	*****		01593001
				1662 *			01594001
				1663	* CALL	BAL R4,LDVWPLC	01595001
				1664 *			01596001
000DF0	5040 5E2C		00E74	1665 LDVWPLC	ST	R4,LDRET	01597001
000DF4	4540 578A		007D2	1666	BAL	R4,OPDREC	01598001
000DF8	9120 9000	00000		1667	TM	0(R9),X'20'	01599001
000DFC	4710 5DF2		00E3A	1668	BO	LDVW1	01600001
000E00	9140 9000	00000		1669	TM	0(R9),X'40'	01601001
000E04	4710 5DE6		00E2E	1670	BO	LDVW3	01602001
000E08	1B44			1671	SR	R4,R4	01603001
000E0A	4340 9003		00003	1672	IC	R4,3(R9)	01604001
000E0E	8840 0004		00004	1673	SRL	R4,4	01605001
000E12	8940 0001		00001	1674	SLL	R4,1	01606001
000E16	9101 9001	00001		1675	TM	1(R9),X'01'	01607001
000E1A	4780 5DE2		00E2A	1676	BZ	LDVW4	01608001
000E1E	8940 0001		00001	1677	SLL	R4,1	01609001
000E22	5094 D5C0		005C0	1678	ST	R9,RUTI(R4)	01610001
000E26	47F0 5DE6		00E2E	1679	B	LDVW3	01611001
				1680 *			01612001
000E2A	5094 D5E4		005E4	1681 LDVW4	ST	R9,RUTR(R4)	01613001
000E2E	4540 5706		0074E	1682 LDVW3	BAL	R4,CLEARRG	01614001
000E32	4540 593C		00984	1683	BAL	R4,ROUTINE1	01615001
000E36	47F0 5E26		00E6E	1684	B	LDVWR	01616001
				1685 *			01617001
000E3A	9500 9002	00002		1686 LDVW1	CLI	2(R9),X'00'	01618001
000E3E	4770 5E06		00E4E	1687	BNE	LDVW1A	01619001
000E42	5090 D5E0		005E0	1688	ST	R9,RUTI+32	01620001
000E46	9525 8000	00000		1689	CLI	0(R8),XFCOMMA	01621001
000E4A	4780 5DE6		00E2E	1690	BE	LDVW3	01622001
000E4E	9140 9000	00000		1691 LDVW1A	TM	0(R9),X'40'	01623001
000E52	4710 5E1C		00E64	1692	BO	LDVW2	01624001
000E56	9288 DA72	00A72		1693	MVI	VPLACE,X'88'	01625001
000E5A	D201 DA6A	DA50	00A6A	1694	MVC	WPLACE(2),ZEROWH	01626001
000E60	47F0 5E26		00E6E	1695	B	LDVWR	01627001
				1696 *			01628001
000E64	92AA DA72	00A72		1697 LDVW2	MVI	VPLACE,X'AA'	01629001
000E68	D201 DA6A	9003	00A6A	1698	MVC	WPLACE(2),3(R9)	01630001
000E6E	5840 5E2C		00E74	1699 LDVWR	L	R4,LDRET	01631001
000E72	07F4			1700	BR	R4	01632001
				1701 *			01633001
000E74	00000000			1702 LDRET	DC	F'0'	01634001
				1703 *			01635001
				1704	*****		01636001
				1705 *			01637001
				1706 *		SUBROUTINES FOR MOVING STACK POINTERS	01638001
				1707 *			01639001
				1708	*****		01640001
				1709 *			01641001
				1710 *		ENTRY FOR MOVING OPERATOR STACK PTR	01642001
				1711 *			01643001
000E78	41AA 0001	00001		1712 MOVEOPTK	LA	R10,1(R10)	01644001
000E7C	47F0 5E3C	00E84		1713	B	MOVERET	01645001
				1714 *			01646001
				1715 *		ENTRY FOR MOVING OPDSTACK POINTER	01647001
				1716 *			01648001
000E80	4B90 5170	001B8		1717 MOVEOPDK	SH	R9,KH5	01649001
000E84	19A9			1718 MOVERET	CR	R10,R9	01650001
000E86	47B0 53E0	00428		1719	BNL	STACKOFL	01651001
000E8A	07F4			1720	BR	R4	01652001
				1721 *			01653001
				1722	*****		01654001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1723	*		01655001
				1724	*	TARITHM	01656001
				1725	*		01657001
				1726	*****		01658001
				1727	*		01659001
				1728	* CALL	BAL R4,TARITHM	01660001
				1729	*		01661001
				1730	*	RETURN TO RETURN IF OPERAND INTEGER OR REAL	01662001
				1731	*	ELSE RETURN TO RETURN+4 AFTER ERROR MESSAGE 163 IS	01663001
				1732	*	GIVEN	01664001
				1733	*	CHECK FOR ARRAY OR PROCEDURE IDENTIFIER	01665001
				1734	*		01666001
		00010		1735	APIMASK	EQU X'10'	01667001
				1736	*		01668001
				1737	*	TEST IF OPERAND IS ARITHMETIC	01669001
				1738	*		01670001
000E8C	9110 9000	00000		1739	TARITHM	TM 0(R9),APIMASK	01671001
000E90	0714			1740	BOR	R4	01672001
000E92	9103 9001	00001		1741	TM	1(R9),X'03'	01673001
000E96	4740 5E64	00EAC		1742	BM	PROGARR	01674001
000E9A	5040 5570	005B8		1743	ST	R4,SAVTRREI	01675001
000E9E	4540 5310	00358		1744	BAL	R4,SERR2	01676001
000EA2	00A3			1745	DC	H'163'	01677001
				1746	*		01678001
000EA4	5840 5570	005B8		1747	L	R4,SAVTRREI	01679001
000EA8	47F4 0004	00004		1748	B	4(R4)	01680001
				1749	*		01681001
000EAC	4114 0004	00004		1750	PROGARR	LA R1,4(R4)	01682001
000EB0	5010 5570	005B8		1751	ST	R1,SAVTRREI	01683001
000EB4	47F0 5E9E	00EE6		1752	B	ARRTESTA	01684001
				1753	*		01685001
				1754	*****		01686001
				1755	*		01687001
				1756	*	LATRES	01688001
				1757	*		01689001
				1758	*****		01690001
				1759	*		01691001
				1760	* CALL	BAL R4,LATRES	01692001
				1761	*		01693001
				1762	*	RESERVE ONE ENTRY IN LABEL ADDR TABLE (LAT)	01694001
				1763	*	CHECK IF OVERFLOW	01695001
				1764	*		01696001
000EB8	4810 D0A2	000A2		1765	LATRES	LH R1, LN	01697001
000EBC	4110 1004	00004		1766	LA	R1,4(,R1)	01698001
000EC0	4010 D0A2	000A2		1767	STH	R1, LN	01699001
				1768	*		01700001
				1769	*	CHECK IF LAT OVERFLOW	01701001
				1770	*		01702001
000EC4	91F0 D0A2	000A2		1771	LATOVFLO	TM LN,X'F0'	01703001
000EC8	0784			1772	BZR	R4	01704001
000ECA	5040 5E2C	00E74		1773	ST	R4,LDRET	01705001
000ECE	4540 5380	003C8		1774	BAL	R4,SERR1	01706001
000ED2	00D8			1775	DC	H'216'	01707001
				1776	*		01708001
000ED4	4110 006C	0006C		1777	LA	R1,LATBEG	01709001
000ED8	4010 D0A2	000A2		1778	STH	R1, LN	01710001
000EDC	5840 5E2C	00E74		1779	L	R4,LDRET	01711001
000EE0	07F4			1780	BR	R4	01712001
				1781	*		01713001
				1782	*****		01714001
				1783	*		01715001
				1784	*	ARRAY AND PROCEDURE TEST	01716001
				1785	*		01717001
				1786	*****		01718001
				1787	*		01719001
				1788	* CALL	BAL R4,ARRTEST1	01720001
				1789	*		01721001
000EE2	5040 5570	005B8		1790	ARRTEST1	ST R4,SAVTRREI	01722001
				1791	*		01723001
				1792	*	ENTRY POINT FROM TARITHM	01724001
				1793	*		01725001
000EE6	9110 9000	00000		1794	ARRTESTA	TM 0(R9),APIMASK	01726001
000EEA	0714			1795	BOR	R4	01727001
000EEC	91C0 9001	00001		1796	TM	1(R9),X'C0'	01728001
000EF0	47B0 5E84	00EFC		1797	BNM	ARRTESTT	01729001
000EF4	9140 9001	00001		1798	TM	1(R9),X'40'	01730001
000EF8	4780 5EDA	00F22		1799	BZ	PROCTES1	01731001
000EFC	91C0 9000	00000		1800	ARRTESTT	TM 0(R9),X'C0'	01732001
000F00	07E4			1801	BNOR	R4	01733001
000F02	9104 9001	00001		1802	TM	1(R9),X'04'	01734001
000F06	4780 5ECE	00F16		1803	BZ	PROCTEST	01735001
000F0A	4540 5318	00360		1804	BAL	R4,SERR3	01736001
000F0E	00C4			1805	DC	H'196'	01737001
				1806	*		01738001
000F10	5840 5570	005B8		1807	ARRTEST3	L R4,SAVTRREI	01739001
000F14	07F4			1808	BR	R4	01740001
				1809	*		01741001
000F16	91C0 9001	00001		1810	PROCTEST	TM 1(R9),X'C0'	01742001
000F1A	0784			1811	BZR	R4	01743001
000F1C	91F0 9003	00003		1812	TM	3(R9),X'F0'	01744001
000F20	0784			1813	BZR	R4	01745001
000F22	4540 5380	003C8		1814	PROCTES1	BAL R4,SERR1	01746001
000F26	00BB			1815	DC	H'187'	01747001
				1816	*		01748001
000F28	47F0 5EC8	00F10		1817	B	ARRTEST3	01749001
				1818	*		01750001



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000F2C	5040 5F04		00F4C	1819	ARRTEST2	ST R4, RETARR2	01751001
000F30	4190 9005		00005	1820		LA R9, 5(,R9)	01752001
000F34	06A0			1821		BCTR R10,0	01753001
000F36	4540 5E9A		00EE2	1822		BAL R4, ARRTEST1	01754001
000F3A	41A0 A001		00001	1823		LA R10,1(,R10)	01755001
000F3E	4B90 5170		001B8	1824		SH R9, KH5	01756001
000F42	5840 5F04		00F4C	1825		L R4, RETARR2	01757001
000F46	47F0 5E9A		00EE2	1826		B ARRTEST1	01758001
				1827	*		01759001
000F4A	0000						
000F4C	00000000			1828	RETARR2	DC F'0'	01760001
				1829	*		01761001
				1830	*****		01762001
				1831	*		01763001
				1832	*	OPERAND TEST	01764001
				1833	*		01765001
				1834	*****		01766001
				1835	*		01767001
				1836	* CALL	BAL R4, OPDTEST	01768001
				1837	*		01769001
				1838	*	GIVE ERROR MESSAGE 162 IF OPERAND IS MISSING	01770001
				1839	*	STACK ALL PURPOSE IDENTIFIER	01771001
				1840	*	RETURN VIA R4 IF NO ERROR RETURN VIA R3	01772001
				1841	*		01773001
000F50	9101 D080	00080		1842	OPDTEST	TM COMPFLGS, OPERAND	01774001
000F54	0713			1843		BOR R3	01775001
000F56	5040 D624		00624	1844		ST R4, STRETURN	01776001
000F5A	4540 5304		0034C	1845		BAL R4, SERR4	01777001
000F5E	00A2			1846		DC H'162'	01778001
				1847	*		01779001
000F60	5840 D624		00624	1848		L R4, STRETURN	01780001
000F64	9601 D080		00080	1849		OI COMPFLGS, OPERAND	01781001
000F68	47F0 5D02		00D4A	1850		B STACKAPI	01782001
				1851	*		01783001
000F6C	5040 D578		00578	1852	ERR166	ST R4, RETADR	01784001
000F70	9101 D080		00080	1853		TM COMPFLGS, OPERAND	01785001
000F74	4780 5F38		00F80	1854		BZ BYB2	01786001
000F78	4190 9005		00005	1855		LA R9, 5(,R9)	01787001
000F7C	94FE D080		00080	1856		NI COMPFLGS, 255-OPERAND	01788001
000F80	4540 5380		003C8	1857	BYB2	BAL R4, SERR1	01789001
000F84	00A6			1858		DC H'166'	01790001
				1859	*		01791001
000F86	5840 D578		00578	1860		L R4, RETADR	01792001
000F8A	07F4			1861		BR R4	01793001
				1862	*		01794001

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				1864	*		01796001
				1865	*	DECISION MATRICIES	01797001
				1866	*		01798001
				1867	*	START OF DECISION AREA	01799001
				1868	*		01800001
				1869	*****		01801001
				1870	*		01802001
				1871	*	PROGRAM CONTEXT COLUMN VECTOR	01803001
				1872	*		01804001
				1873	*****		01805001
				1874	*		01806001
000F8C	0A0A0A0A0A0A0912			1875	DC	X'0A0A0A0A0A0A091207030B000002020A0A0A0A0A080404'	01807001
000FA5	121212120512060A			1876	DC	X'121212120512060A0A0A0A0A121201120C0D0E0F1110000000'	01808001
				1877	*		01809001
				1878	*****		01810001
				1879	*		01811001
				1880	*	PROGRAM CONTEXT ROW VECTOR	01812001
				1881	*		01813001
				1882	*****		01814001
				1883	*		01815001
000FBE	ABABABABABABABAB			1884	DC	X'ABABABABABABABABAB853926131313ABABABABAB72ABAB'	01816001
000FD7	ABABAB98ABABABAB			1885	DC	X'ABABAB98ABABABABABABAB00AB4C5FABABABABAB000030'	01817001
				1886	*		01818001
				1887	*****		01819001
				1888	*		01820001
				1889	*	PROGRAM CONTEXT MATRIX	01821001
				1890	*		01822001
				1891	*****		01823001
				1892	*		01824001
000FF0	0001045454545454			1893	DC	X'000104545454545454545454545454540354'	01825001
001003	0001040407074B07			1894	DC	X'0001040407074B0707074B191810545453544B'	01826001
001016	00011D1D06084B29			1895	DC	X'00011D1D06084B290C404B191C54541054544B'	01827001
001029	00011A1A06084B29			1896	DC	X'00011A1A06084B290C404B171C17171754544B'	01828001
00103C	00011A1A064B1129			1897	DC	X'00011A1A064B11290C404B121C12121254544B'	01829001
00104F	00011A1A06084B29			1898	DC	X'00011A1A06084B290C404B121C12121254544B'	01830001
001062	1B1E1A1A1B131429			1899	DC	X'1B1E1A1A1B131429151616141C14141454544B'	01831001
001075	5454545454545454			1900	DC	X'54545454545454545545454541C545454545454'	01832001
001088	00011D1D06084B29			1901	DC	X'00011D1D06084B290C404B1A1C54515454544B'	01833001
00109B	1F1E1F1F1F1F1F1F			1902	DC	X'1F1E1F1F1F1F1F1F1F1F1F1C1F1F1F545416'	01834001
				1903	*		01835001
				1904	*****		01836001
				1905	*		01837001
				1906	*	STATEMENT CONTEXT COLUMN VECTOR	01838001
				1907	*		01839001
				1908	*****		01840001
				1909	*		01841001
0010AE	090909090909010D			1910	ADRSTC	DC X'090909090909010D030F0F0C0F0F0F0F0A0A0A0A0A060F0F'	01842001
0010C7	0708070B000F0C0A			1911	DC	X'0708070B000F0C0A0A0A0A0A05020F040E0C0C0F0F000000'	01843001
				1912	*		01844001
				1913	*****		01845001
				1914	*		01846001
				1915	*	STATEMENT CONTEXT ROW VECTOR	01847001
				1916	*		01848001
				1917	*****		01849001
				1918	*		01850001
0010E0	D0D0D0D0D0D0D0B0			1919	DC	X'D0D0D0D0D0D0D0B03040D0D0D0D0D0D0D0D0D0D0D0D00060'	01851001
0010F9	8090A0D0D0D0D0D0			1920	DC	X'8090A0D0D0D0D0D0D0D0D0D0D0D0D02050D0C07010000033'	01852001
				1921	*		01853001
				1922	*****		01854001
				1923	*		01855001
				1924	*	STATEMENT CONTEXT MATRIX	01856001
				1925	*		01857001
				1926	*****		01858001
				1927	*		01859001
001112	22384B294B4B4B4B			1928	DC	X'22384B294B4B4B4B4B4B4B4B3E4B1C1B'	01860001
001122	22384B294B3B544B			1929	DC	X'22384B294B3B544B4B4B4B4B4B1B543B1B'	01861001
001132	224039294B394B4B			1930	DC	X'224039294B394B4B4B21214B1B4B1C1B'	01862001
001142	22404B2926264B4B			1931	DC	X'22404B2926264B4B4B214B4B1B4B1C1B'	01863001
001152	5454543454345454			1932	DC	X'5454543454345454545454541B543654'	01864001
001162	22403D294B3D4B4B			1933	DC	X'22403D294B3D4B4B4B21214B1B4B1C1B'	01865001
001172	4B4B4B294B4B284B			1934	DC	X'4B4B4B294B4B284B4B4B1B1B4B1C1B'	01866001
001182	22404B294B2B4B2B			1935	DC	X'22404B294B2B4B2B4B214B2B1B4B1C1B'	01867001
001192	22404B294B4B4B4B			1936	DC	X'22404B294B4B4B4B2D214B1B1B4B1C1B'	01868001
0011A2	22404B294B2F4B4B			1937	DC	X'22404B294B2F4B4B4B214B2F1B4B1C1B'	01869001
0011B2	22404B294B314B4B			1938	DC	X'22404B294B314B4B4B2121311B4B1C1B'	01870001
0011C2	22404B2933334B4B			1939	DC	X'22404B2933334B4B4B214B4B1B4B1C1B'	01871001
0011D2	22404B294B4B544B			1940	DC	X'22404B294B4B544B4B214B4B1B241C1B'	01872001
0011E2	224B4B4B4B4B4B4B			1941	DC	X'224B4B4B4B4B4B4B4B4B4B4B474B1C47'	01873001
				1942	*		01874001
				1943	*****		01875001
				1944	*		01876001
				1945	*	EXPRESSION CONTEXT COLUMN VECTOR	01877001
				1946	*		01878001
				1947	*****		01879001
				1948	*		01880001
0011F2	0B0B0C0C0C0D050F			1949	ADREXC	DC X'0B0B0C0C0C0D050F070F0F0F0F0F0F0E0E0E0E0F0F0F0F'	01881001
00120B	0F0F0F0F08090A00			1950	DC	X'0F0F0F0F08090A00020304010F060F0F0F0F0F0F0F0F0F0F000000'	01882001
				1951	*		01883001
				1952	*****		01884001
				1953	*		01885001
				1954	*	EXPRESSION CONTEXT ROW VECTOR	01886001
				1955	*		01887001
				1956	*****		01888001
				1957	*		01889001
001224	A0A0B0B0B0C050E0			1958	DC	X'A0A0B0B0B0C050E0E0E0E0E0E0E0E0D0D0D0D0D0E0E0E0'	01890001
00123D	E0E0E0E060708000			1959	DC	X'E0E0E0E06070800020304010E060E0E0E090E0E0E000003F'	01891001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				1960 *		01892001
				1961 *****		01893001
				1962 *		01894001
				1963 *	EXPRESSION CONTEXT MATRIX	01895001
				1964 *		01896001
				1965 *****		01897001
				1966 *		01898001
001256	4B4D4D4D4D404D29			1967	DC X'4B4D4D4D4D404D29494D4D4243434D'	01899001
001266	414C434343404C29			1968	DC X'414C434343404C29494C4C42434343C'	01900001
001276	414C4C4343404C29			1969	DC X'414C4C4343404C29494C4C42434343C'	01901001
001286	414C4C4C43404C29			1970	DC X'414C4C4C43404C29494C4C42434343C'	01902001
001296	414C4C4C4C404C29			1971	DC X'414C4C4C4C404C29494C4C42434343C'	01903001
0012A6	4143434343404429			1972	DC X'4143434343404429501B1B424343431B'	01904001
0012B6	4143434343404B29			1973	DC X'4143434343404B29414E56424343431B'	01905001
0012C6	4143434343404B29			1974	DC X'4143434343404B29494B57424343431B'	01906001
0012D6	4143434343404F29			1975	DC X'4143434343404F29414F48424343434F'	01907001
0012E6	4B3F3F3F3F403F29			1976	DC X'4B3F3F3F3F403F29493F3F3F3F433F3F'	01908001
0012F6	4B45454545404529			1977	DC X'4B454545454045294945454543434545'	01909001
001306	4B45454545404529			1978	DC X'4B454545454045294945454545434545'	01910001
001316	4B45454545404529			1979	DC X'4B454545454045294945454545454545'	01911001
001326	4B45454545404529			1980	DC X'4B454545454045294945454243434A45'	01912001
001336	4143434343404629			1981	DC X'4143434343404629464B464243434346'	01913001
				1982 *		01914001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				1984 *			01916001
				1985 *		THIS MODULE HAD ITS OWN INLINE VERSION OF THE WORKAREA	01917001
				1986 *		WHICH HAD ITS OWN VARIABLES APPENDED ONTO THE END LIKE	01918001
				1987 *		IEX40. THE INLINE VERSION HAS BEEN DELETED AND HAVE	01919001
				1988 *		INSTEAD INSERTED A COPY WORKAREA. THIS WILL NEED TO HAVE	01920001
				1989 *		ADDITIONAL VARIABLES APPENDED AS THEY ARE DISCOVERED BY	01921001
				1990 *		DISASSEMBLY AND PICKED UP FROM IEX40	01922001
				1991 *			01923001
000000		00000	00DA8	1992	WORKAREA	DSECT	01924001
				1993 *			01925001
				1994		COPY WORKAREA	01926001
				1995=*			00001001
				1996=*		WORKAREA - MAPPING CSECT IEX00001	00002001
				1997=*			00003001
				1998=*		ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT	00004001
				1999=*			00005001
000000	0000000000000000			2000=SAVEAREA	DC	18F'0'	00006001
				2001=*			00007001
				2002=*		DCB ADDRS	00008001
				2003=*			00009001
000048				2004=DCBTABLE	DC	0F'0'	00010001
000048	00000000			2005=ALINDCB	DC	A(0)	00011001
00004C	00000000			2006=	DC	A(0)	00012001
000050	00000000			2007=	DC	A(0)	00013001
000054	00000000			2008=	DC	A(0)	00014001
000058	00000000			2009=ASYSDCB	DC	A(0)	00015001
00005C	00000000			2010=APRTDCB	DC	A(0)	00016001
000060	00000000			2011=APCHDCB	DC	A(0)	00017001
000064	00000000			2012=AUT1DCB	DC	A(0)	00018001
000068	00000000			2013=AUT2DCB	DC	A(0)	00019001
00006C	00000000			2014=AUT3DCB	DC	A(0)	00020001
				2015=*			00021001
				2016=*		END OF DATA EXIT ADDRS	00022001
				2017=*			00023001
000070	00000000			2018=EODUT1	DC	A(0) SYSUT1	00024001
000074	00000000			2019=EODUT2	DC	A(0) SYSUT2	00025001
000078	00000000			2020=EODUT3	DC	A(0) SYSUT3	00026001
00007C	00000000			2021=EODIN	DC	A(0) SYSIN	00027001
				2022=*			00028001
				2023=*		OPTION SWITCHES IN COMPFLGS	00029001
				2024=*			00030001
				2025=*		ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -	00031001
				2026=*			00032001
				2027=*		PURPOSE	00033001
				2028=*		POSITION	00034001
				2029=*		BYTE 1 BYTE 2 BYTE 3	00035001
				2030=*		01234567 01234567 01234567	00036001
				2031=*		COMPMODE (SYNTAX CHECK) X	00037001
				2032=*		SUBSCRIPT OPTIMIZATION X	00038001
				2033=*		WARNING ERROR X	00039001
				2034=*		SERIOUS ERROR X	00040001
				2035=*		TERMINATING ERROR X	00041001
				2036=*		PROCEDURE/PROGRAM X	00042001
				2037=*		LONG/SHORT PRECISION X	00043001
				2038=*		OPERAND X	00044001
				2039=*			00045001
				2040=*		NOSOURCE/SOURCE X	00046001
				2041=*		NOLOAD/LOAD X	00047001
				2042=*		NODECK/DECK X	00048001
				2043=*		ISO/EBCDIC X	00049001
				2044=*		PROGRAM INTERRUPT X	00050001
				2045=*		TERMINATING PHASE ENTERED X	00051001
				2046=*		NO BUFFERS ASSIGNED X	00052001
				2047=*		NO COMPILATION POSSIBLE X	00053001
				2048=*			00054001
				2049=*		SYSPRINT DOWN X	00055001
				2050=*		WHOLE SOURCE PROG IN CORE X	00056001
				2051=*		NO OPTAB X	00057001
				2052=*		SYSPRINT NOT OPENED X	00058001
				2053=*		ERROR UNRELATED TO SEMICOLON NR X	00059001
				2054=*		NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT) X	00060001
				2055=*		60 CHARACTER SET X	00061001
				2056=*		(RESERVED) X	00062001
				2057=*			00063001
000080	00220000			2058=COMPFLGS	DC	X'00220000' PARAMETERS AND SWITCHES	00064001
				2059=*			00065001
				2060=*		OPTION SWITCHES IN COMPFLGS	00066001
				2061=*			00067001
000080				2062=COMPMODE	EQU	X'80' SYNTAX CHECK MODE	00068001
000040				2063=SUBSCOPT	EQU	X'40' SUBSCRIPT OPTIMIZATION	00069001
0000FB				2064=PGR	EQU	X'FB' PRECOMPILED PROCEDURE	00070001
000004				2065=PROC	EQU	X'04' PRECOMPILED PROCEDURE	00071001
				2066=*			00072001
0000FD				2067=SHRT	EQU	X'FD' SYNTAX CHECK MODE	00073001
000002				2068=LNG	EQU	X'02' SUBSCRIPT OPTIMIZATION	00074001
000001				2069=OPERAND	EQU	X'01' PRECOMPILED PROCEDURE	00075001
				2070=*			00076001
				2071=*		ERROR SEVERITY INDICATORS IN COMPFLGS	00077001
				2072=*			00078001
000020				2073=WERR	EQU	X'20' WARNING ERROR	00079001
000010				2074=SERR	EQU	X'10' SERIOUS ERROR	00080001
000008				2075=TERR	EQU	X'08' TERMINATING ERROR	00081001
				2076=*			00082001
				2077=*		OPTION SWITCHES IN COMPFLGS+1	00083001
				2078=*			00084001
00007F				2079=SRCE	EQU	X'7F' PRECOMPILED PROCEDURE	00085001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		00080		2080=NSRCE	EQU	X'80'	00086001
				2081=*			00087001
		000BF		2082=LOAD	EQU	X'BF'	00088001
		00040		2083=NLOAD	EQU	X'40'	00089001
				2084=*			00090001
		000DF		2085=DECK	EQU	X'DF'	00091001
		00020		2086=NDECK	EQU	X'20'	00092001
				2087=*			00093001
		000EF		2088=EBCDIC	EQU	X'EF'	00094001
		00010		2089=ISO	EQU	X'10'	00095001
				2090=*			00096001
				2091=*		TERMINATION SWITCHES IN COMPLGS+1	00097001
				2092=*			00098001
		00008		2093=ERR	EQU	X'08'	00099001
				2094=*		PROGRAM INTERRUPT HAS	00100001
						OCCURED IN COMPILER	00101001
		00004		2095=TERM	EQU	X'04'	00102001
		00002		2096=NOBUF	EQU	X'02'	00103001
				2097=*		NO SCE PROG BUFF 1	00104001
		00001		2098=NOGO	EQU	X'01'	00105001
				2099=*		DO NOT START SCAN 1	00106001
		00003		2100=NOBUNOGO	EQU	X'03'	00107001
				2101=*		NOBUF AND NOGO	00108001
				2102=*		SWITCHES IN COMPLGS+2	00109001
				2103=*			00110001
		00080		2104=PRT	EQU	X'80'	00111001
		00040		2105=SPIC	EQU	X'40'	00112001
		00020		2106=NOPT	EQU	X'20'	00113001
		00010		2107=PRTNO	EQU	X'10'	00114001
		00008		2108=NOSC	EQU	X'08'	00115001
				2109=*		SEMICOLON COUNTER NOT VALID	00116001
		00004		2110=NOTEST	EQU	X'04'	00117001
		000FB		2111=TEST	EQU	X'FB'	00118001
				2112=*		EMBED SC COUNT IN CODE (DEFAULT)	00119001
		00002		2113=SET60	EQU	X'02'	00120001
				2114=*		60 CHARACTER SET IS TO BE USED	00121001
				2115=*		MISCELLANEOUS CONTROL INFORMATION	00122001
				2116=*			00123001
000084	0000B000			2117=SIZE	DC	F'45056'	00124001
000088	00000000			2118=PICAADD	DC	A(0)	00125001
00008C	00000000			2119=HDING	DC	F'0'	00126001
000090	00000000			2120=ERET	DC	F'0'	00127001
				2121=*		AND I/O ERRORS	00128001
000094	0000000C			2122=PAGECNT	DC	PL4'0'	00129001
000098	0000			2123=LINCNT	DC	H'0'	00130001
00009A	0038			2124=MAXLINES	DC	H'56'	00131001
00009C	0000			2125=SEMCNT	DC	H'0'	00132001
00009E	0032			2126=PBN	DC	H'50'	00133001
0000A0	0000			2127=KBN	DC	H'0'	00134001
		0001C		2128=LATNR	EQU	28	00135001
		0006C		2129=LATBEG	EQU	4*(LATNR-1)	00136001
0000A2	006C			2130=LN	DC	AL2(LATBEG)	00137001
0000A4	00000000			2131=PRPT	DC	F'0'	00138001
0000A8	00000000			2132=SAVOUTA	DC	F'0'	00139001
0000AC				2133=OUTAREAZ	DS	F	00140001
0000B0	40404040			2134=PIDENT	DC	CL4' '	00141001
0000B4	0000000C			2135=CARDCNT	DC	PL4'0'	00142001
0000B8	00000000			2136=PRTRTADD	DC	A(0)	00143001
				2137=*			00144001
				2138=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE	00145001
				2139=*			00146001
0000BC	00000278			2140=ERRPOOL	DC	A(PRELPOOL)	00147001
0000C0	00000278			2141=NEXTERR	DC	A(PRELPOOL)	00148001
0000C4				2142=ENDPOOL	DS	F	00149001
0000C8				2143=SRCE1ADD	DS	F	00150001
0000CC				2144=SRCE1END	DS	F	00151001
0000D0				2145=SULTSTR	DS	F	00152001
				2146=*			00153001
				2147=*			00154001
				2148=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS	00155001
				2149=*			00156001
0000D4				2150=INBLKS	DS	H	00157001
0000D6				2151=PRTBLKS	DS	H	00158001
0000D8				2152=LINBLKS	DS	H	00159001
0000DA				2153=PCHBLKS	DS	H	00160001
0000DC				2154=POOLS	DS	F	00161001
0000E0				2155=SRCE1S	DS	F	00162001
		000E0		2156=SRCE3S	EQU	SRCE1S	00163001
0000E4				2157=ITAB10S	DS	F	00164001
0000E8				2158=ITAB20S	DS	F	00165001
0000EC				2159=ITAB30S	DS	F	00166001
0000F0				2160=CRIDTAB	DS	F	00167001
0000F4				2161=SUTAB30S	DS	F	00168001
0000F8				2162=LVTAB30S	DS	F	00169001
0000FC				2163=OPTABS	DS	F	00170001
000100				2164=SUTAB40S	DS	F	00171001
000104				2165=LVTAB40S	DS	F	00172001
000108				2166=OOSTACKS	DS	F	00173001
				2167=*			00174001
				2168=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF	00175001
				2169=*		EACH NEW PAGE	00176001
				2170=*			00177001
		0010C		2171=PAGEHEAD	EQU	*	00178001
00010C	4040404040404040			2172=PAGEHD1	DC	CL121' '	00179001
000185		00185	0010C	2173=	ORG	PAGEHD1	00180001
00010C	F1			2174=PAGEHD1C	DC	C'1'	00181001
00010D	4040404040404040			2175=	DC	CL10' '	00182001

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000117	4040404040404040			2176=PAGEHD1D	DC	CL100' '	PAGE TEXT HEADING	00182001
00017B		0017B	0017D	2177=	ORG	PAGEHD1+113		00183001
00017D	D7C1C7C5			2178=PAGEHD1P	DC	CL4'PAGE'	PAGE	00184001
000181	40404040			2179=PAGEUNMB	DC	CL4' '	PAGE COUNTER	00185001
000185		00185	00185	2180=	ORG			00186001
				2181=*				00187001
000185	4040404040404040			2182=PAGEHD2	DC	CL121' '	SECOND HEADLINE	00188001
0001FE		001FE	00185	2183=	ORG	PAGEHD2		00189001
000185	40			2184=PAGEHD2C	DC	C' '	ASA CNTL	00190001
000186	4040404040404040			2185=	DC	CL10' '	SPACER	00191001
000190	4040404040404040			2186=PAGEHD2D	DC	CL100' '	PAGE TEXT HEADING	00192001
0001F4		001F4	001FE	2187=	ORG			00193001
				2188=*				00194001
0001FE	4040404040404040			2189=PAGEHD3	DC	CL121' '	THIRD HEADLINE	00195001
000277		00277	001FE	2190=	ORG	PAGEHD3		00196001
0001FE	40			2191=PAGEHD3C	DC	C' '	ASA CNTL	00197001
0001FF	4040404040404040			2192=	DC	CL10' '	SPACER	00198001
000209	4040404040404040			2193=PAGEHD3D	DC	CL100' '	PAGE TEXT HEADING	00199001
00026D		0026D	00277	2194=	ORG			00200001
				2195=*				00201001
				2196=*				00202001
				2197=*		END OF STANDARD COMMON AREA		00203001
				2198=*				00204001
		00277		2199=STANDX	EQU	*		00205001
				2200=*				00206001
				2201=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL		00207001
				2202=*		PHASES AND PARTLY OVERLAY EACH OTHER		00208001
				2203=*				00209001
				2204=*		NAME OR PURPOSE	NEEDED BY PHASES	00210001
				2205=*				00211001
000277	00							
000278				2206=	DC	0F'0'		00212001
000278	4040404040404040			2207=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL	00213001
000378		00378	00416	2208=	ORG	PRELPOOL+414		00214001
				2209=*			DCB FOR SYSIN	11
				2210=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				2212+*			DATA CONTROL BLOCK	01-DCB
				2213+*				01-DCB
000416	0000							
000418				2214+SYSIN	DC	0F'0'	ORIGIN ON WORD BOUNDARY	01-DCB
				2216+*			DIRECT ACCESS DEVICE INTERFACE	01-DCB
000418	0000000000000000			2218+	DC	BL16'0'	FDAD,DVTBL	01-DCB
000428	00000000			2219+	DC	A(0)	KEYLE,DEVT,TRBAL	01-DCB
				2221+*			COMMON ACCESS METHOD INTERFACE	01-DCB
00042C	00			2223+	DC	AL1(0)	BUFNO	01-DCB
00042D	000001			2224+	DC	AL3(1)	BUFCB	01-DCB
000430	0000			2225+	DC	AL2(0)	BUFL	01-DCB
000432	4000			2226+	DC	BL2'0100000000000000'	DSORG	01-DCB
000434	00000001			2227+	DC	A(1)	IOBAD	01-DCB
				2229+*			FOUNDATION EXTENSION	01-DCB
000438	40			2231+	DC	BL1'01000000'	BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			2232+	DC	AL3(1)	EODAD	01-DCB
00043C	90			2233+	DC	BL1'10010000'	RECFM	01-DCB
00043D	000000			2234+	DC	AL3(0)	EXLST	01-DCB
				2236+*			FOUNDATION BLOCK	01-DCB
000440	E2E8E2C9D5404040			2238+	DC	CL8'SYSIN'	DDNAME	01-DCB
000448	02			2239+	DC	BL1'00000010'	OFLGS	01-DCB
000449	00			2240+	DC	BL1'00000000'	IFLG	01-DCB
00044A	5000			2241+	DC	BL2'0101000000000000'	MACR	01-DCB
				2243+*			BSAM-BPAM-QSAM INTERFACE	01-DCB
00044C	00			2245+	DC	BL1'00000000'		RER1 01-DCB
00044D	000001			2246+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
000450	00000001			2247+	DC	A(1)	SYNAD	01-DCB
000454	0000			2248+	DC	H'0'	CIND1, CIND2	01-DCB
000456	0000			2249+	DC	AL2(0)	BLKSIZE	01-DCB
000458	00000000			2250+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			2251+	DC	A(1)	IOBA	01-DCB
000460	00			2252+	DC	AL1(0)	NCP	01-DCB
000461	000001			2253+	DC	AL3(1)	EOBR, EOBA	01-DCB
				2255+*			QSAM INTERFACE	01-DCB
000464	00000001			2257+	DC	A(1)	RECAD	01-DCB
000468	0000			2258+	DC	H'0'	QSW	01-DCB
00046A	0050			2259+	DC	AL2(80)	LRECL	01-DCB
00046C	00			2260+	DC	BL1'00000000'	EROPT	01-DCB
00046D	000001			2261+	DC	AL3(1)	CNTRL	01-DCB
000470	00000000			2262+	DC	F'0'	PRECL	01-DCB
000474	00000001			2263+	DC	A(1)	EOB	01-DCB

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
				2264=*		SYNAD=SYNAD (ASSEMBLED IN IEX00001)			00222001
				2265=*		EODAD=EODADIN (INSERTED BY IEX11)			00223001
000478		00478	00278	2266=	ORG	PRELPOOL			00224001
000278				2267=PBTAB2	DS	CL510	PROGR. BLOCK TABLE 2	20-50	00225001
000478				2268=	DS	0F			00226001
000478				2269=PBTAB1	DS	CL255	PROGR. BLOCK TABLE 1	11-20	00227001
000577		00577	00478	2270=	ORG	PBTAB1			00228001
000478				2271=FSTAB	DS	CL255	FOR STATEMENT TABLE	30-40	00229001
				2272=*		DCB FOR SYSUT1		11-30	00230001
				2273=SYSUT1	DCB	DDNAME=SYSUT1,			X00231001
				=		DSORG=PS,			X00232001
				=		MACRF=(R,W),			X00233001
				=		RECFM=F			00234001
				2275+*					
				2276+*		DATA CONTROL BLOCK			01-DCB
000577 00									01-DCB
000578				2277+SYSUT1	DC	0F'0'	ORIGIN ON WORD BOUNDARY		01-DCB
				2279+*		DIRECT ACCESS DEVICE INTERFACE			01-DCB
000578 0000000000000000				2281+	DC	BL16'0'	FDAD,DVTBL		01-DCB
000588 00000000				2282+	DC	A(0)	KEYLE,DEV,TRBAL		01-DCB
				2284+*		COMMON ACCESS METHOD INTERFACE			01-DCB
00058C 00				2286+	DC	AL1(0)	BUFNO		01-DCB
00058D 000001				2287+	DC	AL3(1)	BUFCB		01-DCB
000590 0000				2288+	DC	AL2(0)	BUFL		01-DCB
000592 4000				2289+	DC	BL2'0100000000000000'	DSORG		01-DCB
000594 00000001				2290+	DC	A(1)	IOBAD		01-DCB
				2292+*		FOUNDATION EXTENSION			01-DCB
000598 00				2294+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY		01-DCB
000599 000001				2295+	DC	AL3(1)	EODAD		01-DCB
00059C 80				2296+	DC	BL1'10000000'	RECFM		01-DCB
00059D 000000				2297+	DC	AL3(0)	EXLST		01-DCB
				2299+*		FOUNDATION BLOCK			01-DCB
0005A0 E2E8E2E4E3F14040				2301+	DC	CL8'SYSUT1'	DDNAME		01-DCB
0005A8 02				2302+	DC	BL1'00000010'	OFLGS		01-DCB
0005A9 00				2303+	DC	BL1'00000000'	IFLG		01-DCB
0005AA 2020				2304+	DC	BL2'0010000000100000'	MACR		01-DCB
				2306+*		BSAM-BPAM-QSAM INTERFACE			01-DCB
0005AC 00				2308+	DC	BL1'00000000'		RER1	01-DCB
0005AD 000001				2309+	DC	AL3(1)	CHECK, GERR, PERR		01-DCB
0005B0 00000001				2310+	DC	A(1)	SYNAD		01-DCB
0005B4 0000				2311+	DC	H'0'	CIND1, CIND2		01-DCB
0005B6 0000				2312+	DC	AL2(0)	BLKSIZE		01-DCB
0005B8 00000000				2313+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW		01-DCB
0005BC 00000001				2314+	DC	A(1)	IOBA		01-DCB
0005C0 00				2315+	DC	AL1(0)	NCP		01-DCB
0005C1 000001				2316+	DC	AL3(1)	EOBR, EOBA		01-DCB
				2318+*		BSAM-BPAM INTERFACE			01-DCB
0005C4 00000001				2320+	DC	A(1)	EOBW		01-DCB
0005C8 0000				2321+	DC	H'0'	DIRCT		01-DCB
0005CA 0000				2322+	DC	AL2(0)	LRECL		01-DCB
0005CC 00000001				2323+	DC	A(1)	CNTRL, NOTE, POINT		01-DCB
				2324=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)			00235001
				2325=*		EODAD=EODAD1			00236001
				2326=*					00237001
0005D0				2327=	DS	0F			00238001
0005D0				2328=SPTAB	DS	CL255	SCOPE TABLE	11-30	00239001
0006D0				2329=	DS	0F			00240001
		006CD		2330=GPTAB	EQU	*-3	GROUP TABLE	11-30	00241001
0006D0				2331=	DS	CL1510			00242001
				2332=*					00243001
				2333=*		END OF SYMLIB PART OF COMMON WORK AREA			00244001
				2334=*					00245001
				2335	COPY	WAEXT			01927001
				2336=*					00001001
				2337=*		AREA USED BY COMPILATION PHASE			00002001
				2338=*					00003001
000CB6		00CB6	00578	2339=	ORG	SYSUT1			00004001
				2340=*					00005001
000578				2341=RETADR	DS	17F	SAVE AREA		00006001
0005BC				2342=PLACE14	DS	F	'-'		00007001
0005C0				2343=RUTI	DS	9F	GPR CONTROL		00008001
0005E4				2344=RUTR	DS	4F	FLREG CONTROL		00009001
0005F4				2345=GPROLN	DS	H	LABEL NR OF OBJ PRG ENTRY POINT		00010001
0005F6				2346=KONSUM	DS	H	WORKPLACE		00011001
0005F8				2347=WORKPL	DS	F	WORKPLACE		00012001
		000C8		2348=IBUF1	EQU	SRCE1ADD	ADDR OF FIRST SOURCE BUFFER		00013001
0005FC				2349=IBUF2	DS	A	'-' SECOND '-'		00014001
000600				2350=SOURCEB	DS	A	'-' CURRENT '-'		00015001
000604				2351=RSRCB	DS	A	'-' READ '-'		00016001
000608				2352=OPBUF1	DS	A	ADDR OF FIRST OPTAB BUFFER		00017001
00060C				2353=OPBUF2	DS	A	'-' SECOND '-'		00018001
000610				2354=OPBUF3	DS	A	'-' CURRENT '-'		00019001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
000614				2355=ROPTB	DS	A	''' READ	'''	00020001
000618				2356=AOPTABE	DS	A	ADDR OF CURRENT OPTAB ENTRY		00021001
00061C				2357=LATAB	DS	A	ADDR OF LABEL ADDR TABLE		00022001
		0061C		2358=APBTAB4	EQU	LATAB	ADDRESS OF PBTAB4		00023001
000620				2359=SUTABCA	DS	A	ADDR OF LAST USED SUTAB ENTRY		00024001
000624				2360=STRETURN	DS	F	RETURN ADDRESS		00025001
000628				2361=FREEEMADR	DS	A	ADDR FOR FREEMAIN IN 50000		00026001
00062C				2362=FREEEMSIZ	DS	F	SIZE	'''	00027001
000630				2364=PBTAB3	DS	1024C	PROGRAM BLOCK TABLE, 3RD VERS		00029001
000A30	0000000000000000			2366=IOTAB	DC	18X'00'	LIST OF DATA SETS		00031001
000A42	0000			2367=CII	DC	H'0'	REGISTER CONTROL		00032001
000A44	0000			2368=CIR	DC	H'0'	'''		00033001
000A46	0000			2369=RII	DC	H'0'	'''		00034001
000A48	0000			2370=RIR	DC	H'0'	'''		00035001
000A4A	0000			2371=OPDPBN	DC	H'0'	PROGRAM BLOCK NO (BYTE 2 OF OPD		00036001
000A4C	0000			2372=OPDADR	DC	H'0'	BYTES 3 AND 4 OF OPERAND		00037001
000A4E	0000			2373=OPDLN	DC	H'0'	LABEL NUMBER TIMES FOUR		00038001
000A50	0000			2374=ZEROHW	DC	H'0'	ZEROES		00039001
000A52	00			2375=CFSN	DC	X'00'	CURRENT FS NUMBER		00040001
000A53	FF			2376=MAXFSN	DC	X'FF'	MAX FS NUMBER		00041001
000A54	F000			2377=CLEARDIS	DC	X'F000'	FOR CLEARING OF DISPLACEM PART		00042001
000A56	0004			2378=ONEENTRY	DC	H'4'	SHORT, FOR INCR OF OT STACK PTR		00043001
000A58		00A58	00A56	2379=	ORG	ONEENTRY			00044001
000A56	0008			2380=	DC	H'8'	LONG	'''	00045001
000A58	10			2381=PRECMASK	DC	X'10'	SHORT, TO MODIFY INSTRUCTIONS		00046001
000A59		00A59	00A58	2382=	ORG	PRECMASK			00047001
000A58	00			2383=	DC	X'00'	LONG	'''	00048001
000A59	00			2384=NUMBBL	DC	X'00'	RECORD COUNTER		00049001
000A5A				2385=	DS	H			00050001
000A5C	0000			2386=SPBNST	DC	H'0'	CURRENT PBN		00051001
000A5E				2387=	DS	H	AND DISPLACEMENT		00052001
000A60	00FF			2388=GPBN	DC	H'255'	GLOBAL DSA CONTROL		00053001
000A62	0FFC			2389=MAXOVERF	DC	H'4092'	SHORT, TO CHECK OT STACK OVERFL		00054001
000A64		00A64	00A62	2390=	ORG	MAXOVERF			00055001
000A62	0FF8			2391=	DC	H'4088'	LONG	'''	00056001
000A64				2392=HALFW	DS	H	WORKPLACE		00057001
000A66				2393=USPEI2	DS	H	FOR ARRAY DECLA-		00058001
000A68				2394=USPEI4	DS	H	RATION HANDLING		00059001
000A6A				2395=WPLACE	DS	H	FOR INSTRUCTION GENERATION		00060001
000A6C				2396=XPLACE	DS	H			00061001
000A6E				2397=YPLACE	DS	H			00062001
000A70				2398=UPLACE	DS	H			00063001
000A72				2399=VPLACE	DS	C	'''		00064001
000A73				2400=STRDNAME	DS	5C	TO STORE OPERAND		00065001
000A78				2401=CBVTAB	DS	CL48	CALLED-BY-VALUE TABLE		00066001
000AA8				2402=SUTABC	DS	CL768	FOR SUBSCRIPT OPTIMIZATION		00067001
000DA8		00DA8	00AA8	2403=	ORG	SUTABC			00068001
000AA8				2404=DSTAB	DS	CL608	DATA SET TABLE		00069001
000D08		00D08	00000	2405=	ORG	SAVEAREA			01928001
				2406=	COPY	FSAREA	COPY RUNTIME DSECT		01929001
				2407=*					00001001
				2408=*		COMPONENT ID - 360S-LM-532 ALGOL F LIBRARY			00002001
				2409=*					00003001
				2410=*		STATUS - LEVEL 2.1			00004001
				2411=*					00005001
				2412=*****					00006001
				2413=*					00007001
				2414=*		COMMON DATA AREA			00008001
				2415=*					00009001
				2416=*		FSAREA			00010001
				2417=*					00011001
				2418=*****					00012001
				2419=*					00013001
				2420=*		DATA THAT IS IMMEDIATELY ACCESSIBLE TO ALL			00014001
				2421=*		MODULES DURING THE EXECUTION			00015001
				2422=*					00016001
				2423=*		ADDRESSED BY MEANS OF R13 OR (FOR THE LIBRARY			00017001
				2424=*		SUBROUTINES) BY R12			00018001
				2425=*					00019001
		00000		2426=FSAREA	EQU	*			00020001
				2427=*					00021001
				2428=*		SAVE AREAS			00022001
				2429=*					00023001
000000				2430=	DS	18F	STANDARD SAVE AREA		00024001
		00048		2431=ASAVE	EQU	*-FSAREA	ALTERNATE SAVE AREA USED BY		00025001
000048				2432=	DS	18F	CERTAIN SUBROUTINES		00026001
				2433=*					00027001
				2434=*		MISCELLANEOUS WORK AREAS AND CONSTANTS			00028001
				2435=*					00029001
		00090		2436=FCTVALST	EQU	*-FSAREA	TEMPORARY STORAGE FOR		00030001
000090				2437=	DS	D	FUNCTION VALUES		00031001
		00098		2438=ASTLOC	EQU	*-FSAREA	DISPL FOR ADDR OF STAND LOCTN		00032001
000098	00000090			2439=	DC	A(FSAREA+FCTVALST)			00033001
		0009C		2440=BRRST	EQU	*-FSAREA	TEMPORARY SAVE REG BRR		00034001
		0009C		2441=HW	EQU	BRRST	TEMPORARY HALFWORD STORAGE		00035001
00009C				2442=	DS	F			00036001
		000A0		2443=PROLREG	EQU	*-FSAREA	STORAGE FOR PBT AND LAT WHEN		00037001
0000A0				2444=	DS	2A	A PROCEDURE IS FORMAL PARAM		00038001
				2445=*					00039001
				2446=*		HALFWORD CONTAINING PBN OF CALLED BLOCK IN SECOND BYTE			00040001
				2447=*					00041001
0000A8				2448=	DS	0H			00042001
0000A8	00			2449=	DC	X'00'			00043001
		000A9		2450=PROLPBN	EQU	*-FSAREA	STORAGE FOR CALLED PBN		00044001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0000A9 00				2451=	DC	X'00'	00045001
		000AA		2452=EIGHT	EQU	*-FSAREA	00046001
0000AA 0008				2453=	DC	H'8'	00047001
				2454=*			00048001
0000AC				2455=	DS	0F	00049001
		000AC		2456=ADSTAB	EQU	*-FSAREA	00050001
0000AC				2457=	DS	A	00051001
		000B0		2458=ANOTTAB	EQU	*-FSAREA	00052001
0000B0				2459=	DS	A	00053001
				2460=*			00054001
		000B4		2461=IHIFSAST	EQU	*	00055001
		000B4		2462=PGOPSW	EQU	*-FSAREA	00056001
0000B4				2463=	DS	2F	00057001
		000BC		2464=FSAPICA	EQU	*-FSAREA	00058001
0000BC 00000000				2465=	DC	F'0'	00059001
		000C0		2466=SCRC5	EQU	*-FSAREA	00060001
0000C0				2467=	DS	H	00061001
		000C2		2468=DTSW	EQU	*-FSAREA	00062001
		000C2		2469=OPTSW	EQU	DTSW	00063001
0000C2 00				2470=	DC	X'00'	00064001
		000C3		2471=FSAERCD	EQU	*-FSAREA	00065001
0000C3				2472=	DS	C	00066001
				2473=*			00067001
				2474=*		RETURN ADDRESS STACK POINTERS DO NOT CHANGE ORDER	00068001
				2475=*			00069001
0000C4				2476=	DS	0F	00070001
		000C4		2477=IHIFSARS	EQU	*	00071001
		000C4		2478=RASSTART	EQU	*-FSAREA	00072001
0000C4				2479=	DS	F	00073001
		000C8		2480=RASPT	EQU	*-FSAREA	00074001
0000C8				2481=	DS	F	00075001
		000CC		2482=RASEND	EQU	*-FSAREA	00076001
0000CC				2483=	DS	F	00077001
		000D0		2484=RASPB	EQU	*-FSAREA	00078001
0000D0				2485=	DS	F	00079001
				2486=*			00080001
				2487=*		LIST OF BRANCH INSTRUCTIONS TO COMMONLY USED SUBROUTINES	00081001
				2488=*			00082001
0000D4				2489=BRLIST	DS	0F	00083001
		000D4		2490=CAP1	EQU	*-FSAREA	00084001
0000D4 4700 0000		00000		2491=	NOP	0	00085001
		000D8		2492=CAP2	EQU	*-FSAREA	00086001
0000D8 4700 0000		00000		2493=	NOP	0	00087001
		000DC		2494=PROLOGP	EQU	*-FSAREA	00088001
		000DC		2495=PROLOGFP	EQU	PROLOGP	00089001
0000DC 4700 0000		00000		2496=	NOP	0	00090001
		000E0		2497=PROLOG	EQU	*-FSAREA	00091001
0000E0 4700 0000		00000		2498=	NOP	0	00092001
		000E4		2499=RETPROG	EQU	*-FSAREA	00093001
0000E4 4700 0000		00000		2500=	NOP	0	00094001
		000E8		2501=EPILOGP	EQU	*-FSAREA	00095001
0000E8 4700 0000		00000		2502=	NOP	0	00096001
		000EC		2503=EPILOGB	EQU	*-FSAREA	00097001
0000EC 4700 0000		00000		2504=	NOP	0	00098001
		000F0		2505=EPILPR3	EQU	*-FSAREA	00099001
0000F0 4700 0000		00000		2506=	NOP	0	00100001
		000F4		2507=CSWE1	EQU	*-FSAREA	00101001
0000F4 4700 0000		00000		2508=	NOP	0	00102001
		000F8		2509=CSWE2	EQU	*-FSAREA	00103001
0000F8 4700 0000		00000		2510=	NOP	0	00104001
		000FC		2511=LOADPP	EQU	*-FSAREA	00105001
0000FC 4700 0000		00000		2512=	NOP	0	00106001
		00100		2513=TRACE	EQU	*-FSAREA	00107001
000100 D200 0000 0000		00000		2514=	MVC	0(0),0	00108001
000106 4700 0000		00000		2515=	NOP	0	00109001
00010A 4700 0000		00000		2516=	NOP	0	00110001
		0010E		2517=TERMNTE	EQU	*-FSAREA	00111001
00010E 4700 0000		00000		2518=	NOP	0	00112001
		00112		2519=BCR	EQU	*-FSAREA	00113001
000112 0700				2520=	BCR	0,0	00114001
		00114		2521=GETMSTO	EQU	*-FSAREA	00115001
000114 4700 0000		00000		2522=	NOP	0	00116001
				2523=*			00117001
		00118		2524=VALUCALL	EQU	*-FSAREA	00118001
000118 4700 0000		00000		2525=	NOP	0	00119001
		0011C		2526=IORLST	EQU	*-FSAREA	00120001
00011C 4700 0000		00000		2527=	NOP	0	00121001
				2528=*			00122001
		001CC		2529=FSAERR	EQU	X'1CC'	00123001
				2530=*		DISPL FOR ERROR LIST	00124001
				2531=*			00125001
				2532=*		DISPLACEMENTS FOR CERTAIN ERROR EXITS IN FSA	00126001
		0020C		2533=OUTOFB	EQU	FSAERR+4*16	00127001
000218				2534=NUMBIND	EQU	FSAERR+4*19	00128001
000208				2535=ARRAYBD	EQU	FSAERR+4*15	00129001
00026C				2536=ERROR40	EQU	FSAERR+4*40	00130001
000224				2537=OERR22	EQU	FSAERR+4*22	00131001
000210				2538=ENDLES	EQU	FSAERR+4*17	00132001
000220				2539=OERR21	EQU	FSAERR+4*21	00133001
				2540=*			00134001
				2541 *		FOR OP CODE GENERATION OFFSETS	01930001
				2542	COPY	IEX50002	01931001
						IEX50002 (RECOVERED)	

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

```
2544=* 00002001
2545=***** 00003001
2546=* 00004001
2547=* THIS SOURCE FOR IEX50002 WAS RECOVERED BY DISASSEMBLY OF 00005001
2548=* THE CSECT IEX50002 IN LOAD MODULE IEX50 00006001
2549=* 00007001
2550=***** 00008001
2551=* 00009001
001346 00000 06286 2552=IEX50000 CSECT 00010001
2553=* 00011001
2554=* NOTE - 00012001
2555=* ALL THE CP PROGRAMS IN THIS CSECT IEX50002 ESTABLISH 00013001
2556=* ADDRESSABILITY FOR BASE (R12) FROM THE FIRST CP IN THE 00014001
2557=* CSECT WHICH IS CP6 00015001
2558=* ALL SUBSEQUENT CPS OTHER THAN CP6 RESET BASE BACK TO 00016001
2559=* CP6 BY LOADING R12. THIS IS ONLY DONE IN IEX50002, NO 00017001
2560=* OTHER MODULES USE THIS TECHNIQUE 00018001
2561=* ROUTINES AND DATA AREAS ARE SHARED ACROSS ALL THE CPS 00019001
2562=* IN THIS CSECT WITH BRANCHES INTO AND OUT OF THE CPS 00020001
2563=* 00021001
2564=***** 00022001
2565=* 00023001
2566=* COMPILER PROGRAM - CP6 00024001
2567=* 00025001
2568=***** 00026001
2569=* 00027001
001346 0700 2570=* CNOP 0,8 00028001
R:C 01348 2571=* USING CP6,R12 00029001
001348 9101 D080 00080 2572=CP6 TM COMPFLGS,OPERAND 00030001
00134C 4780 C012 0135A 2573=* BZ CP6A 00031001
001350 4540 5304 0034C 2574=* BAL R4,SERR4 00032001
00135A 00A4 2575=* DC H'164' ERROR 164 00033001
2576=* 00034001
001356 4190 9005 00005 2577=* LA R9,5(,R9) 00035001
00135A 4540 5E30 00E78 2578=CP6A BAL R4,MOVEOPTK 00036001
00135E D200 A000 8000 00000 2579=* MVC 0(1,R10),0(R8) 00037001
001364 418B 0122 00122 2580=* LA R11,290(R11) 00038001
001368 9518 A000 00000 2581=CP6B CLI 0(R10),X'18' 00039001
00136C 0775 2582=* BNER R5 -, RETURN TO SUBSTART 00040001
00136E 4890 5176 0018E 2583=* SH R9,KH10 00041001
001372 4540 5E38 00E80 2584=* BAL R4,MOVEOPDK 00042001
001376 1B11 2585=* SR R1,R1 00043001
001378 4310 DA52 00A52 2586=* IC R1,CFSN 00044001
00137C 4219 0000 00000 2587=* STC R1,0(R9) 00045001
001380 4111 0001 00001 2588=* LA R1,1(R1) 00046001
001384 4210 DA52 00A52 2589=* STC R1,CFSN 00047001
001388 4311 D477 00477 2590=* IC R1,SYSDIN+95(R1) 00048001
00138C 4219 0001 00001 2591=* STC R1,1(R9) 00049001
001390 07F5 2592=* BR R5 RETURN TO SUBSTART 00050001
2593=* 00051001
2594=***** 00052001
2595=* 00053001
2596=* 00054001
2597=* COMPILER PROGRAM - CP40 00055001
2598=***** 00056001
2599=* 00057001
001392 58C0 51BC 00204 2600=CP40 L R12,SCPTAB+4*6 R12 -> CP6 00058001
001396 4140 C086 013CE 2601=* LA R4,CP40A 00059001
00139A 4530 5F08 00F50 2602=* BAL R3,OPDTEST 00060001
00139E 9108 9000 00000 2603=* TM 0(R9),X'08' 00061001
0013A2 4710 C06E 013B6 2604=* BO CP40B 00062001
0013A6 91C0 9001 00001 2605=* TM 1(R9),X'C0' 00063001
0013AA 4780 C07A 013C2 2606=* BZ CP40C 00064001
0013AE 9110 9000 00000 2607=* TM 0(R9),X'10' 00065001
0013B2 4710 C07A 013C2 2608=* BO CP40C 00066001
0013B6 4540 5380 003C8 2609=CP40B BAL R4,SERR1 00067001
0013BA 00BE 2610=* DC H'190' ERROR 190 00068001
2611=* 00069001
0013BC D204 9000 5182 00000 001CA 2612=CP40E MVC 0(5,R9),API 00070001
0013C2 4540 5E44 00E8C 2613=CP40C BAL R4,TARITHM 00071001
0013C6 47F0 C086 013CE 2614=* B CP40A +00 NO ERROR 00072001
0013CA 47F0 C074 013BC 2615=* B CP40E +04 ERROR 163 00073001
2616=* 00074001
0013CE 4540 5E30 00E78 2617=CP40A BAL R4,MOVEOPTK 00075001
0013D2 922D A000 00000 2618=* MVI 0(R10),X'2D' 00076001
0013D6 9180 D080 00080 2619=* TM COMPFLGS,COMPmode SYNTAX CHECK MODE ? 00077001
0013DA 0715 2620=* BOR R5 YES, RETURN TO SUBSTART 00078001
0013DC 9130 9001 00001 2621=* TM 1(R9),X'30' 00079001
0013E0 4780 C0CE 01416 2622=* BNM CP40F 00080001
0013E4 9120 9001 00001 2623=* TM 1(R9),X'20' 00081001
0013E8 4710 C0CE 01416 2624=* BO CP40F 00082001
0013EC 4540 593C 00984 2625=* BAL R4,ROUTINE1 00083001
0013F0 4810 DA6A 00A6A 2626=* LH R1,WPLACE 00084001
0013F4 4111 0004 0000A 2627=* LA R1,4(R1) 00085001
0013F8 4010 C18E 014D6 2628=* STH R1,CP40G+2 00086001
0013FC D300 C18E DA72 014D6 00A72 2629=* MVZ CP40G+2(1),VPLACE 00087001
001402 4120 C18C 014D4 2630=* LA R2,CP40G 00088001
001406 45E0 5588 005D0 2631=* BAL R14,GENTXTS 00089001
00140A 0008 2632=* DC H'8' GENERATE 8 BYTES 00090001
2633=* 00091001
00140C 4540 578A 007D2 2634=* BAL R4,OPDREC 00092001
001410 D200 9002 DA5D 00002 2635=* MVC 2(1,R9),SPBNST+1 00093001
001416 4540 5706 0074E 2636=CP40F BAL R4,CLEARRG 00094001
00141A 4540 CBA8 01EF0 2637=* BAL R4,CP40H 00095001
00141E D201 9007 9009 00007 2638=* MVC 7(2,R9),9(R9) 00096001
001424 4540 CBA8 01EF0 2639=CP40I BAL R4,CP40H 00097001
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Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
001428	4A70 DA56		00A56	2640=	AH	R7,ONEENTRY	00098001
00142C	4070 D5F8		005F8	2641=	STH	R7,WORKPL	00099001
001430	D201 900B	D5F8 0000B	005F8	2642=	MVC	11(2,R9),WORKPL	00100001
001436	910C 9006	00006		2643=	TM	6(R9),X'0C'	00101001
00143A	4780 C182		014CA	2644=	BZ	CP40J	00102001
00143E	5810 D618		00618	2645=CP40K	L	R1,AOPTABE	00103001
001442	D500 1000	9005 00000	00005	2646=	CLC	0(1,R1),5(R9)	00104001
001448	4720 C122		0146A	2647=	BH	CP40M	00105001
00144C	4780 C110		01458	2648=	BE	CP40L	00106001
001450	4540 50EA		00132	2649=	BAL	R4,NXTOPT	00107001
001454	47F0 C0F6		0143E	2650=	B	CP40K	00108001
				2651=*			00109001
001458	9602 9006	00006		2652=CP40L	OI	6(R9),X'02'	00110001
00145C	9200 CFEC	02334		2653=	MVI	WA2_B,X'00'	00111001
001460	D201 CFF4	DA50 0233C	00A50	2654=	MVC	WA2_C,ZEROHW	00112001
001466	45E0 CE70		02188	2655=	BAL	R14,CP40Q	00113001
00146A	9108 9006	00006		2656=CP40M	TM	6(R9),X'08'	00114001
00146E	4710 C12E		01476	2657=	BO	CP40R	00115001
001472	47F0 C158		014A0	2658=	B	CP40S	00116001
				2659=*			00117001
001476	4A70 DA56		00A56	2660=CP40R	AH	R7,ONEENTRY	00118001
00147A	4070 D5F8		005F8	2661=	STH	R7,WORKPL	00119001
00147E	91F0 9006	00006		2662=	TM	6(R9),X'F0'	00120001
001482	4780 C17A		014C2	2663=	BZ	CP40T	00121001
001486	4710 C146		0148E	2664=	BO	CP40U	00122001
00148A	4A70 DA56		00A56	2665=	AH	R7,ONEENTRY	00123001
00148E	4070 D5FA		005FA	2666=CP40U	STH	R7,WORKPL+2	00124001
001492	D203 900D	D5F8 0000D	005F8	2667=CP40V	MVC	13(4,R9),WORKPL	00125001
001498	4710 C172		014BA	2668=	BO	CP40W	00126001
00149C	4A70 DA56		00A56	2669=	AH	R7,ONEENTRY	00127001
0014A0	9102 9006	00006		2670=CP40S	TM	6(R9),X'02'	00128001
0014A4	4780 C172		014BA	2671=	BZ	CP40W	00129001
0014A8	4A70 DA56		00A56	2672=	AH	R7,ONEENTRY	00130001
0014AC	4070 D5F8		005F8	2673=	STH	R7,WORKPL	00131001
0014B0	D201 9011	D5F8 00011	005F8	2674=	MVC	17(2,R9),WORKPL	00132001
0014B6	45E0 CBCC		01F14	2675=	BAL	R14,CP40X	00133001
0014BA	5060 CFE8		02330	2676=CP40W	ST	R6,WA2_A+2	00134001
0014BE	47F0 C182		014CA	2677=	B	CP40J	00135001
				2678=*			00136001
0014C2	4400 C14A		01492	2679=CP40T	EX	R0,CP40V	00137001
0014C6	9200 9012	00012		2680=	MVI	18(R9),0	00138001
0014CA	4070 D5F8		005F8	2681=CP40J	STH	R7,WORKPL	00139001
0014CE	4540 58BA		00902	2682=	BAL	R4,MAXCH	00140001
0014D2	07F5			2683=	BR	R5	00141001
				2684=*			00142001
0014D4	9108 A000	00000		2685=CP40G	TM	0(R10),X'08'	*** GENERATED CODE *** 00143001
0014D8	471D 0224		00224	2686=	BO	548(R13)	*** GENERATED CODE *** 00144001
				2687=*			00145001
				2688=*****			00146001
				2689=*			00147001
				2690=*	COMPILER PROGRAM - CP43		00148001
				2691=*			00149001
				2692=*****			00150001
				2693=*			00151001
0014DC	58C0 51BC		00204	2694=CP43	L	R12,SCPTAB+4*6	R12 -> CP6 00152001
0014E0	4140 CB54		01E9C	2695=	LA	R4,CP43A	00153001
0014E4	4530 5F08		00F50	2696=	BAL	R3,OPDTEST	00154001
0014E8	4540 5E44		00E8C	2697=	BAL	R4,TARITHM	00155001
0014EC	47F0 C1AC		014F4	2698=	B	CP43B	+00 00156001
0014F0	47F0 CB54		01E9C	2699=	B	CP43A	+04 ERROR 00157001
				2700=*			00158001
0014F4	9180 D080	00080		2701=CP43B	TM	COMPFLGS,COMPMODE	SYNTAX CHECK MODE ? 00159001
0014F8	4710 CB54		01E9C	2702=	BO	CP43A	YES, BRANCH 00160001
0014FC	181A			2703=	LR	R1,R10	00161001
0014FE	0610			2704=	BCTR	R1,R0	00162001
001500	9518 1000	00000		2705=	CLI	0(R1),X'18'	00163001
001504	4770 C1C8		01510	2706=	BNE	CP43C	00164001
001508	91F2 900B	0000B		2707=	TM	11(R9),X'F2'	00165001
00150C	4780 C334		0167C	2708=	BZ	CP43D	00166001
001510	5810 C358		016A0	2709=CP43C	L	R1,CP43E	00167001
001514	58C0 51F4		0023C	2710=	L	R12,SCPTAB+4*20	R12 -> CP20 00168001
001518	9216 A000	00000		2711=	MVI	0(R10),X'16'	00169001
00151C	07F1			2712=	BR	R1	00170001
				2713=*			00171001
00151E	41AA 0001	00001		2714=DJH1E43	LA	R10,1(R10)	ENTRY FROM CP20 VIA ADCON 00172001
001522	922D A000	00000		2715=	MVI	0(R10),X'2D'	00173001
001526	9180 9000	00000		2716=	TM	0(R9),X'80'	00174001
00152A	4710 C1EA		01532	2717=	BO	CP43F	00175001
00152E	4A70 DA56		00A56	2718=	AH	R7,ONEENTRY	00176001
001532	951C 8000	00000		2719=CP43F	CLI	0(R8),X'1C'	00177001
001536	4780 C2DA		01622	2720=	BE	CP43G	00178001
00153A	9519 8000	00000		2721=	CLI	0(R8),X'19'	00179001
00153E	4780 C27C		015C4	2722=	BE	CP43H	00180001
001542	951B 8000	00000		2723=	CLI	0(R8),X'1B'	00181001
001546	4780 C2A6		015EE	2724=	BE	CP43P	00182001
00154A	9601 9006	00006		2725=	OI	6(R9),X'01'	00183001
00154E	D201 C212	9007 0155A	00007	2726=	MVC	CP43I+2(2),7(R9)	00184001
001554	4520 55A2		005EA	2727=	BAL	R2,GENTXT4	00185001
001558	58FC 0000	00000		2728=CP43I	L	R15,0(R12)	*** GENERATED CODE *** 00186001
00155C	91F0 9006	00006		2729=	TM	6(R9),X'F0'	00187001
001560	4780 C25C		015A4	2730=	BZ	CP43J	00188001
001564	45E0 C244		0158C	2731=	BAL	R14,CP43K	00189001
001568	D201 C352	900B 0169A	0000B	2732=	MVC	CP43L1+2(2),11(R9)	00190001
00156E	4120 C34A		01692	2733=	LA	R2,CP43L	00191001
001572	45E0 5588		005D0	2734=	BAL	R14,GENTXTS	00192001
001576	000C			2735=	DC	H'12'	GENERATE 12 BYTES 00193001

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Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0016A8	4140 CB86		01ECE	2831=	LA	R4,CP45A	00289001
0016AC	4530 5F08		00F50	2832=	BAL	R3,OPDTEST	00290001
0016B0	4540 5E44		00E8C	2833=	BAL	R4,TARITHM	00291001
0016B4	47F0 C374		016BC	2834=	B	CP45B	00292001
0016B8	47F0 CB86		01ECE	2835=	B	CP45A	00293001
				2836=*			00294001
0016BC	9180 D080	00080		2837=CP45B	TM	COMPFLGS,COMPmode	00295001
0016C0	4710 CB86		01ECE	2838=	BO	CP45A	00296001
0016C4	4540 578A		007D2	2839=	BAL	R4,OPDREC	00297001
0016C8	91F0 900B	0000B		2840=	TM	11(R9),X'F0'	00298001
0016CC	4780 CB86		01ECE	2841=	BZ	CP45A	00299001
0016D0	9102 9001	00001		2842=	TM	1(R9),X'02'	00300001
0016D4	4710 C474		017BC	2843=	BO	CP45C	00301001
0016D8	4540 CC28		01F70	2844=	BAL	R4,CP45D	00302001
0016DC	4520 55A2		005EA	2845=	BAL	R2,GENTXT4	00303001
0016E0	58E0 0000		00000	2846=	L	R14,0	00304001
0016E4	92EE C3A5	016ED		2847=	MVI	CP45F+1,X'EE'	00305001
0016E8	4520 559E		005E6	2848=	BAL	R2,GENTXT2	00306001
0016EC	12E0			2849=CP45F	LTR	R14,R0	00307001
0016EE	D201 C4F0	9014 01838	00014	2850=CP45G	MVC	CP45H+2(2),20(R9)	00308001
0016F4	91F0 900B	0000B		2851=	TM	11(R9),X'F0'	00309001
0016F8	4740 C48E		017D6	2852=	BM	CP45K	00310001
0016FC	4199 0005		00005	2853=	LA	R9,5(R9)	00311001
001700	4540 CBA8		01EF0	2854=	BAL	R4,CP40H	00312001
001704	4B90 5170		001B8	2855=	SH	R9,KH5	00313001
001708	D201 C4F4	900E 0183C	0000E	2856=	MVC	CP45I+2(2),14(R9)	00314001
00170E	D201 C4F8	9010 01840	00010	2857=	MVC	CP45J+2(2),16(R9)	00315001
001714	96A0 C4F8	01840		2858=	OI	CP45J+2,X'A0'	00316001
001718	4120 C4E0		01828	2859=	LA	R2,CP45L	00317001
00171C	45E0 5588		005D0	2860=	BAL	R14,GENTXT5	00318001
001720	001C			2861=	DC	H'28'	00319001
				2862=*			00320001
001722	9102 9001	00001		2863=CP45M	TM	1(R9),X'02'	00321001
001726	4710 C3F2		0173A	2864=	BO	CP45N	00322001
00172A	9102 9006	00006		2865=	TM	6(R9),X'02'	00323001
00172E	4780 C44E		01796	2866=	BZ	CP45P	00324001
001732	4520 55A2		005EA	2867=	BAL	R2,GENTXT4	00325001
001736	4580 0120		00120	2868=	BAL	R8,288(R13,0)	00326001
00173A	9102 9006	00006		2869=CP45N	TM	6(R9),X'02'	00327001
00173E	4780 C44E		0178E	2870=	BZ	CP45Q	00328001
001742	91F0 900B	0000B		2871=	TM	11(R9),X'F0'	00329001
001746	4740 C4BC		01804	2872=	BM	CP45R	00330001
00174A	4540 CBEC		01F34	2873=CP45S	BAL	R4,CP45T	00331001
00174E	4520 5594		005DC	2874=	BAL	R2,GENTXTP4	00332001
001752	6A00 0000		00000	2875=CP45U	AD	R0,0	00333001
001756	D201 C41A	C40C 01762	01754	2876=	MVC	CP45V+2(2),CP45U+2	00334001
00175C	4520 5594		005DC	2877=	BAL	R2,GENTXTP4	00335001
001760	6000 0000		00000	2878=CP45V	STD	R0,0	00336001
001764	91F0 900B	0000B		2879=CP45W	TM	11(R9),X'F0'	00337001
001768	4740 C56A		018B2	2880=	BM	CP45X	00338001
00176C	D201 C430	9010 01778	00010	2881=	MVC	CP45XA+2(2),16(R9)	00339001
001772	4520 55A6		005EE	2882=	BAL	R2,GENTXT6	00340001
001776	58FA 0000		00000	2883=CP45XA	L	R15,0(R10)	00341001
00177A	07FF			2884=	BR	R15	00342001
				2885=*			00343001
00177C	D201 D5F8	900E 005F8	0000E	2886=	MVC	WORKPL(2),14(R9)	00344001
001782	4540 CB9A		01EE2	2887=	BAL	R4,CP45XB	00345001
001786	92FF DA61	00A61		2888=	MVI	GPBN+1,X'FF'	00346001
00178A	47F0 CB86		01ECE	2889=	B	CP45A	00347001
				2890=*			00348001
00178E	4520 55A2		005EA	2891=CP45Q	BAL	R2,GENTXT4	00349001
001792	4580 014C		0014C	2892=	BAL	R8,332(R13,0)	00350001
001796	91F0 900B	0000B		2893=CP45P	TM	11(R9),X'F0'	00351001
00179A	4740 C4CE		01816	2894=	BM	CP45XC	00352001
00179E	4540 CBEC		01F34	2895=CP45XD	BAL	R4,CP45T	00353001
0017A2	4520 55A2		005EA	2896=	BAL	R2,GENTXT4	00354001
0017A6	5AE0 0000		00000	2897=CP45XF	A	R14,0	00355001
0017AA	D201 C46E	C460 017B6	017A8	2898=	MVC	CP45XG+2(2),CP45XF+2	00356001
0017B0	4520 55A2		005EA	2899=	BAL	R2,GENTXT4	00357001
0017B4	50E0 0000		00000	2900=CP45XG	ST	R14,0	00358001
0017B8	47F0 C41C		01764	2901=	B	CP45W	00359001
				2902=*			00360001
0017BC	4540 CC28		01F70	2903=CP45C	BAL	R4,CP45D	00361001
0017C0	4520 5594		005DC	2904=	BAL	R2,GENTXTP4	00362001
0017C4	6800 0000		00000	2905=	LD	R0,0	00363001
0017C8	9200 C489	017D1		2906=	MVI	CP45XH+1,0	00364001
0017CC	4520 5598		005E0	2907=	BAL	R2,GENTXTP2	00365001
0017D0	2200			2908=CP45XH	LTDR	R0,R0	00366001
0017D2	47F0 C3A6		016EE	2909=	B	CP45G	00367001
				2910=*			00368001
0017D6	9120 900B	0000B		2911=CP45K	TM	11(R9),X'20'	00369001
0017DA	4710 C4AE		017F6	2912=	BO	CP45XI	00370001
0017DE	4520 55A6		005EE	2913=	BAL	R2,GENTXT6	00371001
0017E2	4780 0210		00210	2914=	BZ	528(R13)	00372001
0017E6	05F0			2915=	BALR	R15,R0	00373001
0017E8	4120 C4EA		01832	2916=	LA	R2,CP45XJ	00374001
0017EC	45E0 5588		005D0	2917=	BAL	R14,GENTXT5	00375001
0017F0	0008			2918=	DC	H'8'	00376001
				2919=*			00377001
0017F2	47F0 C3DA		01722	2920=	B	CP45M	00378001
				2921=*			00379001
0017F6	4120 C4E0		01828	2922=CP45XI	LA	R2,CP45L	00380001
0017FA	45E0 5588		005D0	2923=	BAL	R14,GENTXT5	00381001
0017FE	0012			2924=	DC	H'18'	00382001
				2925=*			00383001
001800	47F0 C3DA		01722	2926=	B	CP45M	00384001



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				2927=*			00385001
001804	D201 C4C8 9012 01810	00012		2928=CP45R	MVC	CP45XK+2(2),18(R9)	00386001
00180A	4520 5594	005DC		2929=	BAL	R2,GENTXTP4	00387001
00180E	600A 0000	00000		2930=CP45XK	STD	R0,0(R10)	00388001
001812	47F0 CB86	01ECE		2931=	B	CP45A	00389001
				2932=*			00390001
001816	D201 C4DA 9012 01822	00012		2933=CP45XC	MVC	CP45XL+2(2),18(R9)	00391001
00181C	4520 55A2	005EA		2934=	BAL	R2,GENTXT4	00392001
001820	50EA 0000	00000		2935=CP45XL	ST	R14,0(R10)	00393001
001824	47F0 CB86	01ECE		2936=	B	CP45A	00394001
				2937=*			00395001
001828	05F0			2938=CP45L	BALR	R15,R0	00396001
00182A	477F 0008	00008		2939=	BNZ	8(R15)	00397001
00182E	1BF0			2940=	SR	R15,R15	00398001
001830	06F0			2941=	BCTR	R15,R0	00399001
001832	89F0 0001	00001		2942=CP45XJ	SLL	R15,1	00400001
001836	50FA 0000	00000		2943=CP45H	ST	R15,0(R10)	00401001
00183A	58FC 0000	00000		2944=CP45I	L	R15,0(R12)	00402001
00183E	9780 A000	00000		2945=CP45J	XI	0(R10),X'80'	00403001
001842	074F			2946=	BMR	R15	00404001
				2947=*			00405001
				2948=*****			00406001
				2949=*			00407001
				2950=*	COMPILER PROGRAM - CP47		00408001
				2951=*			00409001
				2952=*****			00410001
				2953=*			00411001
001844	58C0 51BC	00204		2954=CP47	L	R12,SCPTAB+4*6	00412001
001848	4140 CB5C	01EA4		2955=	LA	R4,CP47A	00413001
00184C	4530 5F08	00F50		2956=	BAL	R3,OPDTEST	00414001
001850	4540 5E44	00E8C		2957=	BAL	R4,TARITHM	00415001
001854	47F0 C514	0185C		2958=	B	CP47B	00416001
001858	47F0 CB5C	01EA4		2959=	B	CP47A	00417001
				2960=*			00418001
00185C	9180 D080	00080		2961=CP47B	TM	COMPFLGS,COMPmode	00419001
001860	4710 CB5C	01EA4		2962=	BO	CP47A	00420001
001864	91F0 9010	00010		2963=	TM	16(R9),X'F0'	00421001
001868	4780 C752	01A9A		2964=	BZ	CP47C	00422001
00186C	4540 578A	007D2		2965=	BAL	R4,OPDREC	00423001
001870	951C 8000	00000		2966=	CLI	0(R8),X'1C'	00424001
001874	4770 C54A	01892		2967=	BNE	CP47D	00425001
001878	9102 9010	00010		2968=	TM	16(R9),X'02'	00426001
00187C	4710 C54A	01892		2969=	BO	CP47D	00427001
001880	D201 C548 9019 01890	00019		2970=	MVC	CP47E+2(2),25(R9)	00428001
001886	96A0 C548	01890		2971=	OI	CP47E+2,X'A0'	00429001
00188A	4520 55A2	005EA		2972=	BAL	R2,GENTXT4	00430001
00188E	97E0 A000	00000		2973=CP47E	XI	0(R10),X'E0'	00431001
001892	91F0 9010	00010		2974=CP47D	TM	16(R9),X'F0'	00432001
001896	4740 C608	01950		2975=	BM	CP47F	00433001
00189A	4199 0005	00005		2976=	LA	R9,5(R9)	00434001
00189E	9102 9006	00006		2977=	TM	6(R9),X'02'	00435001
0018A2	4710 C5D2	0191A		2978=	BO	CP47G	00436001
0018A6	4540 CBEC	01F34		2979=	BAL	R4,CP45T	00437001
0018AA	4520 55A2	005EA		2980=	BAL	R2,GENTXT4	00438001
0018AE	58E0 0000	00000		2981=	L	R14,0	00439001
0018B2	4890 5170	00188		2982=CP45X	SH	R9,KH5	00440001
0018B6	9102 9001	00001		2983=	TM	1(R9),X'02'	00441001
0018BA	4710 C5A2	018EA		2984=	BO	CP47GA	00442001
0018BE	4540 CC28	01F70		2985=	BAL	R4,CP45D	00443001
0018C2	4520 55A2	005EA		2986=	BAL	R2,GENTXT4	00444001
0018C6	59E0 0000	00000		2987=	C	R14,0	00445001
0018CA	47F0 C58C	018D4		2988=	B	CP47H	00446001
				2989=*			00447001
0018CE	4520 559E	005E6		2990=	BAL	R2,GENTXT2	00448001
0018D2	19E0			2991=	CR	R14,R0	00449001
0018D4	D201 C598 9019 018E0	00019		2992=CP47H	MVC	CP47I+2(2),25(R9)	00450001
0018DA	4520 55A2	005EA		2993=	BAL	R2,GENTXT4	00451001
0018DE	438A 0000	00000		2994=CP47I	IC	R8,0(R10)	00452001
0018E2	4199 0005	00005		2995=	LA	R9,5(R9)	00453001
0018E6	47F0 C8D8	01C20		2996=	B	CP47J	00454001
				2997=*			00455001
0018EA	9140 9000	00000		2998=CP47GA	TM	0(R9),X'40'	00456001
0018EE	4710 C724	01A6C		2999=	BO	CP47K	00457001
0018F2	4540 CC28	01F70		3000=	BAL	R4,CP45D	00458001
0018F6	4520 5594	005DC		3001=	BAL	R2,GENTXTP4	00459001
0018FA	6820 0000	00000		3002=	LD	R2,0	00460001
0018FE	47F0 C5C0	01908		3003=	B	CP47L	00461001
				3004=*			00462001
001902	4520 5598	005E0		3005=	BAL	R2,GENTXTP2	00463001
001906	2820			3006=	LDR	R2,R0	00464001
001908	4520 55A2	005EA		3007=CP47L	BAL	R2,GENTXT4	00465001
00190C	458D 0120	00120		3008=	BAL	R8,288(R13)	00466001
001910	4520 5598	005E0		3009=	BAL	R2,GENTXTP2	00467001
001914	2902			3010=	CDR	R0,R2	00468001
001916	47F0 C58C	018D4		3011=	B	CP47H	00469001
				3012=*			00470001
00191A	4540 CBEC	01F34		3013=CP47G	BAL	R4,CP45T	00471001
00191E	4520 5594	005DC		3014=	BAL	R2,GENTXTP4	00472001
001922	6860 0000	00000		3015=	LD	R6,0	00473001
001926	4890 5170	00188		3016=	SH	R9,KH5	00474001
00192A	9102 9001	00001		3017=	TM	1(R9),X'02'	00475001
00192E	4710 C5EE	01936		3018=	BO	CP47M	00476001
001932	4540 545E	004A6		3019=	BAL	R4,TRINRE	00477001
001936	4540 CC28	01F70		3020=CP47M	BAL	R4,CP45D	00478001
00193A	4520 5594	005DC		3021=	BAL	R2,GENTXTP4	00479001
00193E	6960 0000	00000		3022=	CD	R6,0	00480001

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001942	47F0 C58C		018D4	3023= 3024=*	B	CP47H	00481001 00482001
001946	4520 5598		005E0	3025= 3026=	BAL CDR	R2,GENTXTP2 R6,R0	00483001 00484001
00194C	47F0 C58C		018D4	3027= 3028=*	B	CP47H	00485001 00486001
001950	D201 C658	9019	019A0	00019	MVC	CP47N+2(2),25(R9)	00487001
001956	4810 DA56			00A56	LH	R1,ONEENTRY	00488001
00195A	4A10 C658		019A0	3031=	AH	R1,CP47N+2	00489001
00195E	4010 C658		019A0	3032=	STH	R1,CP47N+2	00490001
001962	9102 9001		00001	3033=	TM	1(R9),X'02'	00491001
001966	4710 C62E		01976	3034=	BO	CP47P	00492001
00196A	9102 900B		0000B	3035=	TM	11(R9),X'02'	00493001
00196E	4780 C62E		01976	3036=	BZ	CP47P	00494001
001972	4540 545E		004A6	3037=	BAL	R4,TRINRE	00495001
001976	4540 CC28		01F70	3038=CP47P	BAL	R4,CP45D	00496001
00197A	47F0 C6FC		01A44	3039= 3040=*	B	CP47Q	00497001 00498001
00197E	0000			3041=	DC	X'0000'	00499001
001980	0000			3042=CP47R	DC	X'0000'	00500001
001982	4700 0000		00000	3043=	NOP	0	00501001
001986	47F0 C644		0198C	3044= 3045=*	B	CP47S	00502001 00503001
00198A	0000			3046= 3047=*	DC	X'0000'	00504001 00505001
00198C	9102 9001		00001	3048=CP47S	TM	1(R9),X'02'	00506001
001990	D300 C657	9003	0199F	00003	MVZ	CP47N+1(1),3(R9)	00507001
001996	4710 C6EA		01A32	3050=	BO	CP47T	00508001
00199A	4520 55A2		005EA	3051=	BAL	R2,GENTXT4	00509001
00199E	500A 0000		00000	3052=CP47N	ST	R0,0(R10)	00510001
0019A2	92C0 9000		00000	3053=CP47U	MVI	0(R9),X'C0'	00511001
0019A6	D201 9003	C658	00003	019A0	MVC	3(2,R9),CP47N+2	00512001
0019AC	D200 9002	DA5D	00002	00A5D	MVC	2(1,R9),SPBNST+1	00513001
0019B2	92FF DA61		00A61	3056=	MVI	GPBN+1,X'FF'	00514001
0019B6	4199 0005		00005	3057=	LA	R9,5(R9)	00515001
0019BA	9102 9006		00006	3058=	TM	6(R9),X'02'	00516001
0019BE	4710 C6DA		01A22	3059=	BO	CP47V	00517001
0019C2	4540 CBEC		01F34	3060=	BAL	R4,CP45T	00518001
0019C6	4520 55A2		005EA	3061=	BAL	R2,GENTXT4	00519001
0019CA	58E0 0000		00000	3062=	L	R14,0	00520001
0019CE	4110 000C		0000C	3063=CP47W	LA	R1,12	00521001
0019D2	91FF DA61		00A61	3064=	TM	GPBN+1,X'FF'	00522001
0019D6	4710 C69A		019E2	3065=	BO	CP47Y	00523001
0019DA	4111 0004		00004	3066=	LA	R1,4(R1)	00524001
0019DE	92FF DA61		00A61	3067=	MVI	GPBN+1,X'FF'	00525001
0019E2	4120 C744		01A8C	3068=CP47Y	LA	R2,CP47ZB	00526001
0019E6	4010 C750		01A98	3069=	STH	R1,CP47ZA+2	00527001
0019EA	D201 C74C	9010	01A94	00010	MVC	CP47ZC+2(2),16(R9)	00528001
0019F0	45E0 5588		005D0	3071=	BAL	R14,GENTXTS	00529001
0019F4	000E			3072= 3073=*	DC	H'14'	00530001 00531001
0019F6	9102 9006		00006	3074=	TM	6(R9),X'02'	00532001
0019FA	4710 C6C8		01A10	3075=	BO	CP47ZD	00533001
0019FE	D201 C6C2	9012	01A0A	00012	MVC	CP47ZE+2(2),18(R9)	00534001
001A04	4520 55A2		005EA	3077=	BAL	R2,GENTXT4	00535001
001A08	58EA 0000		00000	3078=CP47ZE	L	R14,0(R10)	00536001
001A0C	47F0 C456		0179E	3079= 3080=*	B	CP45XD	00537001 00538001
001A10	D201 C6D4	9012	01A1C	00012	MVC	CP47ZF+2(2),18(R9)	00539001
001A16	4520 5594		005DC	3082=CP47ZG	BAL	R2,GENTXTP4	00540001
001A1A	680A 0000		00000	3083=CP47ZF	LD	R0,0(R10)	00541001
001A1E	47F0 C402		0174A	3084= 3085=*	B	CP45S	00542001 00543001
001A22	4540 CBEC		01F34	3086=CP47V	BAL	R4,CP45T	00544001
001A26	4520 5594		005DC	3087=	BAL	R2,GENTXTP4	00545001
001A2A	6800 0000		00000	3088=	LD	R0,0	00546001
001A2E	47F0 C686		019CE	3089= 3090=*	B	CP47W	00547001 00548001
001A32	D202 C6F5	C657	01A3D	0199F	MVC	CP47ZH+1(3),CP47N+1	00549001
001A38	4520 5594		005DC	3092=	BAL	R2,GENTXTP4	00550001
001A3C	600A 0000		00000	3093=CP47ZH	STD	R0,0(R10)	00551001
001A40	47F0 C65A		019A2	3094= 3095=*	B	CP47U	00552001 00553001
001A44	4810 DA56		00A56	3096=CP47Q	LH	R1,ONEENTRY	00554001
001A48	0610			3097=	BCTR	R1,R0	00555001
001A4A	4210 C71B		01A63	3098=	STC	R1,CP47ZI+1	00556001
001A4E	D201 C71E	C638	01A66	01980	MVC	CP47ZI+4(2),CP47R	00557001
001A54	D201 C71C	C658	01A64	019A0	MVC	CP47ZI+2(2),CP47N+2	00558001
001A5A	96A0 C71C		01A64	3101=	OI	CP47ZI+2,X'A0'	00559001
001A5E	4520 55A6		005EE	3102=	BAL	R2,GENTXT6	00560001
001A62	D200 A000	0000	00000	3103=CP47ZI	MVC	0(1,R10),0	00561001
001A68	47F0 C65A		019A2	3104= 3105=*	B	CP47U	00562001 00563001
001A6C	9102 900B		0000B	3106=CP47K	TM	11(R9),X'02'	00564001
001A70	4710 C734		01A7C	3107=	BO	CP47ZJ	00565001
001A74	4520 55A2		005EA	3108=	BAL	R2,GENTXT4	00566001
001A78	4580 0120		00120	3109=	BAL	R8,288(R13)	00567001
001A7C	4540 CC28		01F70	3110=CP47ZJ	BAL	R4,CP45D	00568001
001A80	4520 5594		005DC	3111=	BAL	R2,GENTXTP4	00569001
001A84	6900 0000		00000	3112=	CD	R0,0	00570001
001A88	47F0 C58C		018D4	3113= 3114=*	B	CP47H	00571001 00572001
001A8C	05F0			3115=CP47ZB	BALR	R15,R0	00573001
001A8E	41FF 000C		0000C	3116=	LA	R15,12(R15)	00574001
001A92	50FA 0000		00000	3117=CP47ZC	ST	R15,0(R10)	00575001
001A96	47FF 0000		00000	3118=CP47ZA	B	0(R15)	00576001

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						3119=*	
001A9A	4199 0005		00005		3120=CP47C	LA R9,5(R9)	00577001
001A9E	9270 C767	01AAF			3121=	MVI CP47ZK+1,X'70'	00578001
001AA2	92E7 C773	01ABB			3122=	MVI CP47ZL+1,X'E7'	00579001
001AA6	4540 CC28		01F70		3123=	BAL R4,CP45D	00580001
001AAA	4520 55A2		005EA		3124=	BAL R2,GENTXT4	00581001
001AAE	5800 0000		00000		3125=CP47ZK	L R0,0	00582001
001AB2	47F0 C76E		01AB6		3126=	B CP47ZM	00583001
					3127=*		00584001
001AB6	4520 559E		005E6		3128=CP47ZM	BAL R2,GENTXT2	00585001
001ABA	12E0				3129=CP47ZL	LTR R14,R0	00586001
001ABC	9104 D082	00082			3130=	TM COMPFLLGS+2,NOTEST	00587001
001AC0	4710 C784		01ACC		3131=	BO CP47ZN	00588001
001AC4	4520 55A2		005EA		3132=	BAL R2,GENTXT4	00589001
001AC8	478D 0210		00210		3133=	BZ 528(R13)	00590001
001ACC	9102 900B	0000B			3134=CP47ZN	TM 11(R9),X'02'	00591001
001AD0	4780 C79A		01AE2		3135=	BZ CP47ZP	00592001
001AD4	D201 C798	9012 01AE0	00012		3136=	MVC CP47ZQ+2(2),18(R9)	00593001
001ADA	4520 55A2		005EA		3137=	BAL R2,GENTXT4	00594001
001ADE	50EA 0000		00000		3138=CP47ZQ	ST R14,0(R10)	00595001
001AE2	4890 5170		001B8		3139=CP47ZP	SH R9,KH5	00596001
001AE6	4540 CC28		01F70		3140=	BAL R4,CP45D	00597001
001AEA	4520 55A2		005EA		3141=	BAL R2,GENTXT4	00598001
001AEE	5AE0 0000		00000		3142=	A R14,0	00599001
001AF2	47F0 C7B4		01AFC		3143=	B CP47ZR	00600001
					3144=*		00601001
001AF6	4520 559E		005E6		3145=	BAL R2,GENTXT2	00602001
001AFA	1AE0				3146=	AR R14,R0	00603001
001AFC	4199 000A		0000A		3147=CP47ZR	LA R9,10(R9)	00604001
001B00	4540 CC28		01F70		3148=	BAL R4,CP45D	00605001
001B04	4520 55A2		005EA		3149=	BAL R2,GENTXT4	00606001
001B08	5BE0 0000		00000		3150=	S R14,0	00607001
001B0C	47F0 C7CE		01B16		3151=	B CP47ZS	00608001
					3152=*		00609001
001B10	4520 559E		005E6		3153=	BAL R2,GENTXT2	00610001
001B14	1BE0				3154=	SR R14,R0	00611001
001B16	D200 C7DD	C773 01B25	01ABB		3155=CP47ZS	MVC CP47ZT+1(1),CP47ZL+1	00612001
001B1C	4520 55A6		005EE		3156=	BAL R2,GENTXT6	00613001
001B20	8EE0 0020		00020		3157=	SRDA R14,32	00614001
001B24	1DE0				3158=CP47ZT	DR R14,R0	00615001
001B26	4520 559E		005E6		3159=	BAL R2,GENTXT2	00616001
001B2A	180F				3160=	LR R0,R15	00617001
001B2C	951C 8000	00000			3161=	CLI 0(R8),X'1C'	00618001
001B30	4780 C804		01B4C		3162=	BE CP43X	00619001
001B34	9601 9006	00006			3163=	OI 6(R9),X'01'	00620001
001B38	D201 C7FC	9007 01B44	00007		3164=	MVC CP47ZU+2(2),7(R9)	00621001
001B3E	4520 55A6		005EE		3165=	BAL R2,GENTXT6	00622001
001B42	58FC 0000		00000		3166=CP47ZU	L R15,0(R12)	00623001
001B46	05FF				3167=	BALR R15,R15	00624001
001B48	47F0 CB64		01EAC		3168=	B CP47ZW	00625001
					3169=*		00626001
001B4C	4540 CBBC		01F04		3170=CP43X	BAL R4,CP43Y	00627001
001B50	4010 C812		01B5A		3171=	STH R1,CP47ZV+2	00628001
001B54	4520 55A2		005EA		3172=	BAL R2,GENTXT4	00629001
001B58	58FC 0000		00000		3173=CP47ZV	L R15,0(R12)	00630001
001B5C	D201 D5F8	9007 005F8	00007		3174=	MVC WORKPL(2),7(R9)	00631001
001B62	4540 CB9A		01EE2		3175=	BAL R4,CP45XB	00632001
001B66	D201 C82A	900B 01B72	0000B		3176=	MVC CP47YA+2(2),11(R9)	00633001
001B6C	4520 55A2		005EA		3177=	BAL R2,GENTXT4	00634001
001B70	50FA 0000		00000		3178=CP47YA	ST R15,0(R10)	00635001
001B74	9108 9006	00006			3179=	TM 6(R9),X'08'	00636001
001B78	4780 CB64		01EAC		3180=	BZ CP47ZW	00637001
001B7C	4540 5AB0		00AF8		3181=	BAL R4,ROUTINE7	00638001
001B80	4070 DA5E		00A5E		3182=	STH R7,SPBNST+2	00639001
001B84	D202 9011	DA5D 00011	00A5D		3183=	MVC 17(3,R9),SPBNST+1	00640001
001B88	D201 900F	CB52 0000F	01E9A		3184=	MVC 15(2,R9),CP47YB	00641001
001B90	4520 55A2		005EA		3185=	BAL R2,GENTXT4	00642001
001B94	1200				3186=	LTR R0,R0	00643001
001B96	07DF				3187=	BNPR R15	00644001
001B98	9102 9006	00006			3188=	TM 6(R9),X'02'	00645001
001B9C	9210 CCCC	02014			3189=	MVI CP47YC,X'10'	00646001
001BA0	4710 CC52		01F9A		3190=	BO CP47YD	00647001
001BA4	4540 CBA8		01EF0		3191=CP47YE	BAL R4,CP40H	00648001
001BA8	4540 CB94		01EDC		3192=	BAL R4,CP47YF	00649001
001BAC	4119 000F		0000F		3193=CP47YG	LA R1,15(R9)	00650001
001BB0	5010 D5C0		005C0		3194=	ST R1,RUTI	00651001
001BB4	47F0 CB64		01EAC		3195=	B CP47ZW	00652001
					3196=*		00653001
001BB8	4540 CBA8		01EF0		3197=CP47YH	BAL R4,CP40H	00654001
001BBC	4010 C87E		01BC6		3198=	STH R1,CP47YI+2	00655001
001BC0	4520 55A6		005EE		3199=	BAL R2,GENTXT6	00656001
001BC4	58FC 0000		00000		3200=CP47YI	L R15,0(R12)	00657001
001BC8	07FF				3201=	BR R15	00658001
					3202=*		00659001
001BCA	4540 CBA8		01EF0		3203=	BAL R4,CP40H	00660001
001BCE	4540 CB94		01EDC		3204=	BAL R4,CP47YF	00661001
001BD2	47F0 CF3A		02282		3205=	B CP47YJ	00662001
					3206=*		00663001
001BD6	5810 D61C		0061C		3207=CP47YK	L R1,LATAB	00664001
001BDA	4A10 C87E		01BC6		3208=	AH R1,CP47YI+2	00665001
001BDE	5061 0000		00000		3209=	ST R6,0(R1)	00666001
001BE2	47F0 C864		01BAC		3210=	B CP47YJ	00667001
					3211=*		00668001
					3212=*****		00669001
					3213=*		00670001
					3214=*	COMPILER PROGRAM - CP49	00671001
							00672001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
				3215=*					00673001
				3216=*****					00674001
				3217=*					00675001
001BE6	58C0 51BC		00204	3218=CP49	L	R12,SCPTAB+4*6	R12 -> CP6		00676001
001BEA	4140 CB60		01EA8	3219=	LA	R4,CP49A			00677001
001BEE	4530 5F08		00F50	3220=	BAL	R3,OPDTEST			00678001
001BF2	4540 5E9A		00EE2	3221=	BAL	R4,ARRTEST1			00679001
001BF6	9103 9001	00001		3222=	TM	1(R9),X'03'			00680001
001BFA	4710 C8C0		01C08	3223=	BO	CP49B			00681001
001BFE	4540 5310		00358	3224=	BAL	R4,SERR2			00682001
001C02	00B6			3225=	DC	H'182'	ERROR 182		00683001
				3226=*					00684001
001C04	47F0 CB60		01EA8	3227=	B	CP49A			00685001
				3228=*					00686001
001C08	9180 D080	00080		3229=CP49B	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?		00687001
001C0C	4710 CB60		01EA8	3230=	BO	CP49A	YES, BRANCH		00688001
001C10	4540 578A		007D2	3231=	BAL	R4,OPDREC			00689001
001C14	4540 CC28		01F70	3232=	BAL	R4,CP45D			00690001
001C18	4520 55A2		005EA	3233=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00691001
001C1C	9101 0000	00000		3234=	TM	0,X'01'	*** GENERATED CODE ***		00692001
001C20	4199 0005		00005	3235=CP47J	LA	R9,5(R9)			00693001
001C24	9102 9006	00006		3236=	TM	6(R9),X'02'			00694001
001C28	4780 C93A		01C82	3237=	BZ	CP49C			00695001
001C2C	D201 C8F0	9011 01C38	00011	3238=	MVC	CP49D+2(2),17(R9)			00696001
001C32	4520 55A2		005EA	3239=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00697001
001C36	58FA 0000		00000	3240=CP49D	L	R15,0(R10)	*** GENERATED CODE ***		00698001
001C3A	951B A000	00000		3241=	CLI	0(R10),X'1B'			00699001
001C3E	4780 C906		01C4E	3242=	BE	CP49E			00700001
001C42	4520 55A2		005EA	3243=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00701001
001C46	448D 0112		00112	3244=	EX	R8,274(R13)	*** GENERATED CODE ***		00702001
001C4A	47F0 C90C		01C54	3245=	B	CP49F			00703001
				3246=*					00704001
001C4E	4520 559E		005E6	3247=CP49E	BAL	R2,GENTXT2	GENERATE 2 BYTES		00705001
001C52	071F			3248=	BOR	R15	*** GENERATED CODE ***		00706001
001C54	951C 8000	00000		3249=CP49F	CLI	0(R8),X'1C'			00707001
001C58	4770 C92A		01C72	3250=	BNE	CP49H			00708001
001C5C	4540 CB8C		01F04	3251=	BAL	R4,CP43Y			00709001
001C60	4010 C922		01C6A	3252=	STH	R1,CP49G+2			00710001
001C64	4520 55A6		005EE	3253=	BAL	R2,GENTXT6	GENERATE 6 BYTES		00711001
001C68	58FC 0000		00000	3254=CP49G	L	R15,0(R12)	*** GENERATED CODE ***		00712001
001C6C	07FF			3255=	BR	R15	*** GENERATED CODE ***		00713001
				3256=*					00714001
001C6E	47F0 C998		01CE0	3257=	B	CP49_X			00715001
				3258=*					00716001
001C72	45E0 CBCC		01F14	3259=CP49H	BAL	R14,CP40X			00717001
001C76	5060 CFE8		02330	3260=CP49I	ST	R6,WA2_A+2			00718001
001C7A	9601 9006	00006		3261=	OI	6(R9),X'01'			00719001
001C7E	47F0 CB64		01EAC	3262=	B	CP47ZW			00720001
				3263=*					00721001
001C82	951C 8000	00000		3264=CP49C	CLI	0(R8),X'1C'			00722001
001C86	4780 C96E		01CB6	3265=	BE	CP49J			00723001
001C8A	D201 C94E	9007 01C96	00007	3266=	MVC	CP49K+2(2),7(R9)			00724001
001C90	4520 55A2		005EA	3267=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00725001
001C94	58FC 0000	00000		3268=CP49K	L	R15,0(R12)	*** GENERATED CODE ***		00726001
001C98	951B A000	00000		3269=	CLI	0(R10),X'1B'			00727001
001C9C	4780 C964		01CAC	3270=	BE	CP49L			00728001
001CA0	4520 55A2		005EA	3271=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00729001
001CA4	448D 0112		00112	3272=	EX	R8,274(R13)	*** GENERATED CODE ***		00730001
001CA8	47F0 C96A		01CB2	3273=	B	CP49M			00731001
				3274=*					00732001
001CAC	4520 559E		005E6	3275=CP49L	BAL	R2,GENTXT2	GENERATE 2 BYTES		00733001
001CB0	071F			3276=	BOR	R15	*** GENERATED CODE ***		00734001
001CB2	47F0 C92E		01C76	3277=CP49M	B	CP49I			00735001
				3278=*					00736001
001CB6	4540 CBBC		01F04	3279=CP49J	BAL	R4,CP43Y			00737001
001CBA	4010 C97C		01CC4	3280=	STH	R1,CP49N+2			00738001
001CBE	4520 55A2		005EA	3281=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00739001
001CC2	58FC 0000	00000		3282=CP49N	L	R15,0(R12)	*** GENERATED CODE ***		00740001
001CC6	951B A000	00000		3283=	CLI	0(R10),X'1B'			00741001
001CCA	4780 C992		01CDA	3284=	BE	CP49P			00742001
001CCE	4520 55A2		005EA	3285=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00743001
001CD2	448D 0112		00112	3286=	EX	R8,274(R13)	*** GENERATED CODE ***		00744001
001CD6	47F0 C998		01CE0	3287=	B	CP49_X			00745001
				3288=*					00746001
001CDA	4520 559E		005E6	3289=CP49P	BAL	R2,GENTXT2	GENERATE 2 BYTES		00747001
001CDE	078F			3290=	BER	R15	*** GENERATED CODE ***		00748001
001CE0	D201 D5F8	9007 005F8	00007	3291=CP49_X	MVC	WORKPL(2),7(R9)			00749001
001CE6	4540 CB9A		01EE2	3292=	BAL	R4,CP45XB			00750001
001CEA	9102 9006	00006		3293=	TM	6(R9),X'02'			00751001
001CEE	4780 CB64		01EAC	3294=	BZ	CP47ZW			00752001
001CF2	9200 CCCC	02014		3295=	MVI	CP47YC,X'00'			00753001
001CF6	47F0 CC52		01F9A	3296=	B	CP47YD			00754001
				3297=*					00755001
001CFA	D201 C9F8	9011 01D40	00011	3298=CP49Q	MVC	CP49R+2(2),17(R9)			00756001
001D00	4120 C9F0		01D38	3299=	LA	R2,CP49S			00757001
001D04	9101 CFEC	02334		3300=	TM	WA2_B,X'01'			00758001
001D08	4710 C9D2		01D1A	3301=	BO	CP49T			00759001
001D0C	9208 C9F5	01D3D		3302=	MVI	CP49U+3,X'08'	UPDATE GENERATED CODE		00760001
001D10	45E0 5588		005D0	3303=	BAL	R14,GENTXTS	GENERATE 10 BYTES		00761001
001D14	000A			3304=	DC	H'10'			00762001
				3305=*					00763001
001D16	47F0 CB64		01EAC	3306=	B	CP47ZW			00764001
				3307=*					00765001
001D1A	4540 CBA8		01EF0	3308=CP49T	BAL	R4,CP40H			00766001
001D1E	4010 C9FC		01D44	3309=	STH	R1,CP49V+2			00767001
001D22	920E C9F5	01D3D		3310=	MVI	CP49U+3,X'0E'			00768001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
001D26	45E0 5588		005D0	3311=	BAL	R14,GENTXTS	GENERATE 16 BYTES 00769001
001D2A	0010			3312=	DC	H'16'	00770001
				3313=*			00771001
001D2C	47F0 CF3A		02282	3314=	B	CP47YJ	00772001
				3315=*			00773001
001D30	4540 CB94		01EDC	3316=CP49W	BAL	R4,CP47YF	00774001
001D34	47F0 CB64		01EAC	3317=	B	CP47ZW	00775001
				3318=*			00776001
001D38	05E0			3319=CP49S	BALR	R14,R0	*** GENERATED CODE *** 00777001
001D3A	41EE 0000	00000		3320=CP49U	LA	R14,0(R14)	*** GENERATED CODE *** 00778001
001D3E	50EA 0000	00000		3321=CP49R	ST	R14,0(R10)	*** GENERATED CODE *** 00779001
001D42	58FC 0000	00000		3322=CP49V	L	R15,0(R12)	*** GENERATED CODE *** 00780001
001D46	07FF			3323=	BR	R15	*** GENERATED CODE *** 00781001
				3324=*			00782001
				3325=*****			00783001
				3326=*			00784001
				3327=*	COMPILER PROGRAM - CP81		00785001
				3328=*			00786001
				3329=*****			00787001
				3330=*			00788001
001D48	58C0 518C		00204	3331=CP81	L	R12,SCPTAB+4*6	R12 -> CP6 00789001
001D4C	9101 D080	00080		3332=	TM	COMPFLGS,OPERAND	00790001
001D50	4710 CA34		01D7C	3333=	BO	CP81A	00791001
001D54	9180 D080	00080		3334=CP81B	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 00792001
001D58	4780 CA40		01D88	3335=	BZ	CP81C	NO, BRANCH 00793001
001D5C	06A0			3336=CP81D	BCTR	R10,R0	00794001
001D5E	1B11			3337=	SR	R1,R1	00795001
001D60	9102 9006	00006		3338=	TM	6(R9),X'02'	00796001
001D64	4780 CA2A		01D72	3339=	BZ	CP81E	00797001
001D68	D201 D5F8	9017 005F8	00017	3340=	MVC	WORKPL(2),23(R9)	00798001
001D6E	4810 D5F8		005F8	3341=	LH	R1,WORKPL	00799001
001D72	4191 9014		00014	3342=CP81E	LA	R9,20(R1,R9)	00800001
001D76	92FF DA61	00A61		3343=	MVI	GPBN+1,X'FF'	00801001
001D7A	07F5			3344=	BR	R5	RETURN TO SUBSTART 00802001
				3345=*			00803001
001D7C	4540 5D54		00D9C	3346=CP81A	BAL	R4,PLPRST	00804001
001D80	4199 0005		00005	3347=	LA	R9,5(R9)	00805001
001D84	47F0 CA0C		01D54	3348=	B	CP81B	00806001
				3349=*			00807001
001D88	D201 D5F8	900B 005F8	0000B	3350=CP81C	MVC	WORKPL(2),11(R9)	00808001
001D8E	4870 D5F8		005F8	3351=	LH	R7,WORKPL	00809001
001D92	4870 DA56		00A56	3352=	SH	R7,ONEENTRY	00810001
001D96	9120 9000	00000		3353=	TM	0(R9),X'20'	00811001
001D9A	4780 CA5A		01DA2	3354=	BZ	CP81F	00812001
001D9E	4870 DA56		00A56	3355=	SH	R7,ONEENTRY	00813001
001DA2	9102 9006	00006		3356=CP81F	TM	6(R9),X'02'	00814001
001DA6	4780 CAEA		01E32	3357=	BZ	CP81G	00815001
001DAA	4110 DA9F		00A9F	3358=	LA	R1,CBVTAB+39	### CHECK ### 00816001
001DAE	5820 D620		00620	3359=	L	R2,SUTABCA	00817001
001DB2	1912			3360=CP81H	CR	R1,R2	00818001
001DB4	4780 CA82		01DCA	3361=	BE	CP81I	00819001
001DB8	D500 2000	9005 00000	00005	3362=	CLC	0(1,R2),5(R9)	00820001
001DBE	4740 CA82		01DCA	3363=	BL	CP81I	00821001
001DC2	4820 5174		0018C	3364=	SH	R2,KH9	00822001
001DC6	47F0 CA6A		01DB2	3365=	B	CP81H	00823001
				3366=*			00824001
001DCA	5020 D620		00620	3367=CP81I	ST	R2,SUTABCA	00825001
001DCE	920A CAD7	01E1F		3368=	MVI	CP81J+1,X'0A'	00826001
001DD2	91F0 9006	00006		3369=	TM	6(R9),X'F0'	00827001
001DD6	4770 CA96		01DDE	3370=	BNZ	CP81K	00828001
001DDA	921A CAD7	01E1F		3371=	MVI	CP81J+1,X'1A'	00829001
001DDE	D201 D5F8	9017 005F8	00017	3372=CP81K	MVC	WORKPL(2),23(R9)	00830001
001DE4	48E0 D5F8		005F8	3373=	LH	R14,WORKPL	00831001
001DE8	41EE 9014		00014	3374=	LA	R14,20(R14,R9)	00832001
001DEC	9104 9006	00006		3375=	TM	6(R9),X'04'	00833001
001DF0	4710 CAEA		01E32	3376=	BO	CP81G	00834001
001DF4	4BE0 5170		00188	3377=CP81L	SH	R14,KH5	00835001
001DF8	91FF E002	00002		3378=	TM	2(R14),X'FF'	00836001
001DFC	4780 CAEA		01E32	3379=	BZ	CP81G	00837001
001E00	9170 CAD7	01E1F		3380=	TM	CP81J+1,X'70'	00838001
001E04	47E0 CAC4		01E0C	3381=	BNO	CP81M	00839001
001E08	41E9 0019		00019	3382=	LA	R14,25(R9)	00840001
001E0C	9140 E000	00000		3383=CP81M	TM	0(R14),X'40'	00841001
001E10	4780 CADA		01E22	3384=	BZ	CP81N	00842001
001E14	D201 CAD8	E003 01E20	00003	3385=	MVC	CP81J+2(2),3(R14)	00843001
001E1A	4520 55A2		005EA	3386=	BAL	R2,GENTXT4	GENERATE 4 BYTES 00844001
001E1E	580A 0000	00000		3387=CP81J	L	R0,0(R10)	*** GENERATED CODE *** 00845001
001E22	4810 CAD6		01E1E	3388=CP81N	LH	R1,CP81J	00846001
001E26	4111 0010		00010	3389=	LA	R1,16(R1)	00847001
001E2A	4010 CAD6		01E1E	3390=	STH	R1,CP81J	00848001
001E2E	47F0 CAAC		01DF4	3391=	B	CP81L	00849001
				3392=*			00850001
001E32	9207 DA43	00A43		3393=CP81G	MVI	CII+1,X'07'	00851001
001E36	D201 DA46	DA50 00A46	00A50	3394=	MVC	RII(2),ZEROHW	00852001
001E3C	9108 9006	00006		3395=	TM	6(R9),X'08'	00853001
001E40	4710 CB20		01E68	3396=	BO	CP81P	00854001
001E44	9105 9006	00006		3397=	TM	6(R9),X'05'	00855001
001E48	4780 CA14		01D5C	3398=	BZ	CP81D	00856001
001E4C	D201 CB10	900B 01E58	0000B	3399=CP81Q	MVC	CP81R+2(2),11(R9)	00857001
001E52	4520 55A6		005EE	3400=	BAL	R2,GENTXT6	GENERATE 6 BYTES 00858001
001E56	58FA 0000	00000		3401=CP81R	L	R15,0(R10)	*** GENERATED CODE *** 00859001
001E5A	07FF			3402=	BR	R15	*** GENERATED CODE *** 00860001
				3403=*			00861001
001E5C	4540 CB8C		01F04	3404=	BAL	R4,CP43Y	00862001
001E60	4540 CB9E		01EE6	3405=	BAL	R4,CP81S	00863001
001E64	47F0 CA14		01D5C	3406=	B	CP81D	00864001

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Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
001FB4	D300 2002	CFF0 00002	02338	3502=CP81WJ	MVZ	2(1,R2),CP81WL	00960001
001FBA	4110 DA9F		00A9F	3503=	LA	R1,CBVTAB+39	00961001
001FBE	4111 0009		00009	3504=CP81WM	LA	R1,9(R1)	00962001
001FC2	5910 D620		00620	3505=	C	R1,SUTABCA	00963001
001FC6	4720 CD12		0205A	3506=	BH	CP81WN	00964001
001FCA	D502 200B	1001 0000B	00001	3507=	CLC	11(3,R2),1(R1)	00965001
001FD0	4770 CC76		01FBE	3508=	BNE	CP81WM	00966001
001FD4	D500 2000	1000 00000	00000	3509=	CLC	0(1,R2),0(R1)	00967001
001FDA	4770 CE5C		021A4	3510=	BNE	CP81WP	00968001
001FDE	D100 CFF0	200A 02338	0000A	3511=CP81WQ	MVN	CP81WL(1),10(R2)	00969001
001FE4	1B33			3512=	SR	R3,R3	00970001
001FE6	4330 CFF0		02338	3513=	IC	R3,CP81WL	00971001
001FEA	5840 CFD4		0231C	3514=	L	R4,CP81WR	00972001
001FEE	8840 3000		00000	3515=	SRL	R4,0(R3)	00973001
001FF2	4040 D5F8		005F8	3516=	STH	R4,WORKPL	00974001
001FF6	D601 1007	D5F8 00007	005F8	3517=	OC	7(2,R1),WORKPL	00975001
001FFC	8930 0002		00002	3518=	SLL	R3,2	00976001
002000	4133 0014		00014	3519=	LA	R3,20(R3)	00977001
002004	4A32 0002		00002	3520=	AH	R3,2(R2)	00978001
002008	4032 0002		00002	3521=	STH	R3,2(R2)	00979001
00200C	4530 CEC2		0220A	3522=	BAL	R3,CP81WS	00980001
002010	0007			3523=	DC	H'7'	00981001
				3524=*			00982001
002012	1A1B			3525=	AR	R1,R11	00983001
				3526=*			00984001
002014	0040			3527=CP47YC	DC	X'0040'	00985001
002016	D501 DA50	2005 00A50	00005	3528=	CLC	ZER0HW(2),5(R2)	00986001
00201C	4780 CC4E		01F96	3529=	BE	CP81WI	00987001
002020	9102 9019		00019	3530=	TM	25(R9),X'02'	00988001
002024	4780 CCEE		02036	3531=	BZ	CP81WT	00989001
002028	4530 CEC2		0220A	3532=	BAL	R3,CP81WS	00990001
				3533=*			00991001
00202C	0004			3534=	DC	X'0004'	00992001
00202E	1A1B			3535=	AR	R1,R11	00993001
				3536=*			00994001
002030	8080			3537=	DC	X'8080'	00995001
				3538=*			00996001
002032	47F0 CC4E		01F96	3539=	B	CP81WI	00997001
				3540=*			00998001
002036	9602 9019		00019	3541=CP81WT	OI	25(R9),X'02'	00999001
00203A	9180 200A		0000A	3542=	TM	10(R2),X'80'	01000001
00203E	4780 CD04		0204C	3543=	BZ	CP81WU	01001001
002042	4520 559E		005E6	3544=	BAL	R2,GENTXT2	01002001
002046	1B88			3545=	SR	R8,R8	01003001
002048	5820 CFD8		02320	3546=	L	R2,CP81WV	01004001
00204C	4530 CEC2		0220A	3547=CP81WU	BAL	R3,CP81WS	01005001
				3548=*			01006001
002050	0004			3549=	DC	X'0004'	01007001
				3550=*			01008001
002052	181B			3551=	LR	R1,R11	01009001
				3552=*			01010001
002054	8080			3553=	DC	X'8080'	01011001
				3554=*			01012001
002056	47F0 CC4E		01F96	3555=	B	CP81WI	01013001
				3556=*			01014001
00205A	4130 DDA8		00DA8	3557=CP81WN	LA	R3,SUTABC+L'SUTABC	01015001
00205E	1913			3558=	CR	R1,R3	01016001
002060	4780 CC4E		01F96	3559=	BNL	CP81WI	01017001
002064	5010 D620		00620	3560=	ST	R1,SUTABCA	01018001
002068	D202 1001	200B 00001	0000B	3561=	MVC	1(3,R1),11(R2)	01019001
00206E	D201 1007	DA50 00007	00A50	3562=	MVC	7(2,R1),ZER0HW	01020001
002074	4130 0004		00004	3563=	LA	R3,4	01021001
002078	4A32 0002		00002	3564=	AH	R3,2(R2)	01022001
00207C	4030 CFEE		02336	3565=	STH	R3,WA2_B+2	01023001
002080	D200 CFED	2001 02335	00001	3566=	MVC	WA2_B+1(1),1(R2)	01024001
002086	D200 1000	9005 00000	00005	3567=CP81YA	MVC	0(1,R1),5(R9)	01025001
00208C	9012 CFD8		02320	3568=CP81WK	STM	R1,R2,CP81WV	01026001
002090	D501 CFF4	5170 0233C	001E8	3569=	CLC	WA2_C,KH5	01027001
002096	4780 CD9E		020E6	3570=	BE	CP81YB	01028001
00209A	9102 9019		00019	3571=	TM	25(R9),X'02'	01029001
00209E	4780 CD96		020DE	3572=	BZ	CP81YC	01030001
0020A2	4540 593C		00984	3573=	BAL	R4,ROUTINE1	01031001
0020A6	D201 CE4E	DA6A 02196	00A6A	3574=	MVC	CP81YD+2(2),WPLACE	01032001
0020AC	D300 CE4E	DA72 02196	00A72	3575=	MVZ	CP81YD+2(1),VPLACE	01033001
0020B2	D300 CE51	CCCC 02199	02014	3576=	MVZ	CP81YE+1(1),CP47YC	01034001
0020B8	4120 CE4A		02192	3577=	LA	R2,CP81YF	01035001
0020BC	45E0 5588		005D0	3578=	BAL	R14,GENTXTS	01036001
0020C0	0008			3579=	DC	H'8'	01037001
				3580=*			01038001
0020C2	9108 9006		00006	3581=	TM	6(R9),X'08'	01039001
0020C6	4780 CD96		020DE	3582=	BZ	CP81YC	01040001
0020CA	9201 CFEC		02334	3583=	MVI	WA2_B,X'01'	01041001
0020CE	D201 CE56	900D 0219E	0000D	3584=	MVC	CP81YG+2(2),13(R9)	01042001
0020D4	4120 CE52		0219A	3585=	LA	R2,CP81YH	01043001
0020D8	45E0 5588		005D0	3586=	BAL	R14,GENTXTS	01044001
0020DC	000A			3587=	DC	H'10'	01045001
				3588=*			01046001
0020DE	9104 9006		00006	3589=CP81YC	TM	6(R9),X'04'	01047001
0020E2	4710 CE20		02168	3590=	BO	CP81YI	01048001
0020E6	9101 9014		00014	3591=CP81YB	TM	20(R9),X'01'	01049001
0020EA	4710 CE36		0217E	3592=	BO	CP81YJ	01050001
0020EE	9170 CCCC		02014	3593=	TM	CP47YC,X'70'	01051001
0020F2	4710 CE20		02168	3594=	BO	CP81YI	01052001
0020F6	4540 5AB0		00AF8	3595=	BAL	R4,ROUTINE7	01053001
0020FA	89E0 0004		00004	3596=	SLL	R14,4	01054001
0020FE	42E0 CCCC		02014	3597=	STC	R14,CP47YC	01055001



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002102	47F0 CDC2		0210A	3598=	B	CP81YK	01056001
				3599=*			01057001
002106	4A70 DA56		00A56	3600=CP81YL	AH	R7,ONEENTRY	01058001
00210A	45E0 CE70		021B8	3601=CP81YK	BAL	R14,CP40Q	01059001
00210E	4070 DA5E		00A5E	3602=	STH	R7,SPBNST+2	01060001
002112	D202 901B DA5D 0001B		00A5D	3603=	MVC	27(3,R9),SPBNST+1	01061001
002118	D300 901C CCCC 0001C		02014	3604=	MVZ	28(1,R9),CP47YC	01062001
00211E	4137 0004		00004	3605=	LA	R3,4(R7)	01063001
002122	4030 CE5A		021A2	3606=	STH	R3,CP81YM+2	01064001
002126	4177 0008		00008	3607=	LA	R7,8(R7)	01065001
00212A	4B70 DA56		00A56	3608=	SH	R7,ONEENTRY	01066001
00212E	1B33			3609=	SR	R3,R3	01067001
002130	4330 CCCC		02014	3610=	IC	R3,CP47YC	01068001
002134	8830 0002		00002	3611=	SRL	R3,2	01069001
002138	4149 0019		00019	3612=	LA	R4,25(R9)	01070001
00213C	5043 D5C0		005C0	3613=	ST	R4,RUTI(R3)	01071001
002140	9812 CFD8		02320	3614=	LM	R1,R2,CP81WV	01072001
002144	4133 D5C1		005C1	3615=	LA	R3,RUTI+1(R3)	01073001
002148	D202 1004 3000 00004		00000	3616=	MVC	4(3,R1),0(R3)	01074001
00214E	D200 CE17 CCCC 0215F		02014	3617=	MVC	CP81YNA+1(1),CP47YC	01075001
002154	1B31			3618=	LR	R3,R1	01076001
002156	4110 CFED		02335	3619=	LA	R1,WA2_B+1	01077001
00215A	4540 CE8E		021D6	3620=	BAL	R4,CP81YN	01078001
00215E	5800 0000		00000	3621=CP81YNA	L	R0,0	01079001
002162	1B13			3622=	LR	R1,R3	01080001
002164	47F0 CC96		01FDE	3623=	B	CP81WQ	01081001
				3624=*			01082001
002168	1BEE			3625=CP81YI	SR	R14,R14	01083001
00216A	43E0 CCCC		02014	3626=	IC	R14,CP47YC	01084001
00216E	88E0 0004		00004	3627=	SRL	R14,4	01085001
002172	4540 5B4E		00B96	3628=	BAL	R4,ROUTINE9	01086001
002176	9101 9014	00014		3629=	TM	20(R9),X'01'	01087001
00217A	4780 CDBE		02106	3630=	BZ	CP81YL	01088001
00217E	91F0 9006	00006		3631=CP81YJ	TM	6(R9),X'F0'	01089001
002182	4770 C9B2		01CFA	3632=	BNZ	CP49Q	01090001
002186	9101 CFEC	02334		3633=	TM	WA2_B,X'01'	01091001
00218A	4710 C870		01BB8	3634=	BO	CP47YH	01092001
00218E	47F0 C85C		01BA4	3635=	B	CP47YE	01093001
				3636=*			01094001
002192	1B8F			3637=CP81YF	LR	R15,R8	01095001
002194	5CE0 0000		00000	3638=CP81YD	M	R14,0	01096001
002198	1A0F			3639=CP81YE	AR	R0,R15	01097001
00219A	1B8F			3640=CP81YH	LR	R15,R8	01098001
00219C	5CEA 0000		00000	3641=CP81YG	M	R14,0(R10)	01099001
0021A0	50FA 0000		00000	3642=CP81YM	ST	R15,0(R10)	01100001
0021A4	D203 D5F8 1003 005F8		00003	3643=CP81WP	MVC	WORKPL(4),3(R1)	01101001
0021AA	5830 D5F8		005F8	3644=	L	R3,WORKPL	01102001
0021AE	D202 CFED 3002 02335		00002	3645=	MVC	WA2_B+1(3),2(R3)	01103001
0021B4	47F0 CD3E		02086	3646=	B	CP81YA	01104001
				3647=*			01105001
0021B8	4540 5E38		00E80	3648=CP40Q	BAL	R4,MOVEOPDK	01106001
0021BC	D213 9000 9005 00000		00005	3649=	MVC	0(20,R9),5(R9)	01107001
0021C2	4830 CFF4		0233C	3650=	LH	R3,WA2_C	01108001
0021C6	4133 0005		00005	3651=	LA	R3,5(R3)	01109001
0021CA	4030 CFF4		0233C	3652=	STH	R3,WA2_C	01110001
0021CE	D204 9014 CFF1 00014		02339	3653=	MVC	20(5,R9),CP81YQ	01111001
0021D4	07FE			3654=	BR	R14	01112001
				3655=*			01113001
0021D6	9024 CFD8		02320	3656=CP81YN	STM	R2,R4,CP81WV	01114001
0021DA	5090 CFE4		0232C	3657=	ST	R9,CP81YR+2	01115001
0021DE	1B91			3658=	LR	R9,R1	01116001
0021E0	4B90 516C		001B4	3659=	SH	R9,KH2	01117001
0021E4	4540 593C		00984	3660=	BAL	R4,ROUTINE1	01118001
0021E8	5820 CFE0		02328	3661=	L	R2,CP81YS+2	01119001
0021EC	D201 2002 DA6A 00002		00A6A	3662=	MVC	2(2,R2),WPLACE	01120001
0021F2	D300 2002 DA72 00002		00A72	3663=	MVZ	2(1,R2),VPLACE	01121001
0021F8	45E0 5588		005D0	3664=	BAL	R14,GENTXTS	01122001
0021FC	0004			3665=	DC	H'4'	01123001
				3666=*			01124001
0021FE	9824 CFD8		02320	3667=	LM	R2,R4,CP81WV	01125001
002202	5890 CFE4		0232C	3668=	L	R9,CP81YR+2	01126001
002206	47F4 0004		00004	3669=	B	4(R4)	01127001
				3670=*			01128001
00220A	1B12			3671=CP81WS	LR	R1,R2	01129001
00220C	4A13 0000		00000	3672=	AH	R1,0(R3)	01130001
002210	D501 DA50 1001 00A50		00001	3673=	CLC	ZEROWH(2),1(R1)	01131001
002216	4783 0006		00006	3674=	BE	6(R3)	01132001
00221A	D200 CEE3 3005 0222B		00005	3675=	MVC	CP81YT+1(1),5(R3)	01133001
002220	D201 CF12 3003 0225A		00003	3676=	MVC	CP81YU(2),3(R3)	01134001
002226	960F CF13		0225B	3677=	OI	CP81YU+1,X'0F'	01135001
00222A	9100 200A		0000A	3678=CP81YT	TM	10(R2),X'00'	01136001
00222E	4710 CEF0		02238	3679=	BO	CP81YV	01137001
002232	D200 CF12 3002 0225A		00002	3680=	MVC	CP81YU(1),2(R3)	01138001
002238	D501 516E 1001 0016E		00001	3681=CP81YV	CLC	366(2,R5),1(R1)	01139001
00223E	4780 CF1C		02264	3682=	BE	CP81YW	01140001
002242	4540 CE8E		021D6	3683=	BAL	R4,CP81YN	01141001
002246	58F0 0000		00000	3684=	L	R15,0	01142001
00224A	4112 0001		00001	3685=	LA	R1,1(R2)	01143001
00224E	4540 CE8E		021D6	3686=	BAL	R4,CP81YN	01144001
002252	5CE0 0000		00000	3687=	M	R14,0	01145001
002256	4520 559E		005E6	3688=	BAL	R2,GENTXT2	01146001
00225A	1A0F			3689=CP81YU	AR	R0,R15	01147001
00225C	9823 CFD8		02320	3690=	LM	R2,R3,CP81WV	01148001
002260	47F3 0006		00006	3691=	B	6(R3)	01149001
				3692=*			01150001
002264	4112 0001		00001	3693=CP81YW	LA	R1,1(R2)	01151001

GENERATE CODE  
GENERATE 4 BYTES

GENERATE 2 BYTES  
\*\*\* GENERATED CODE \*\*\*

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002268	D201 CF32	CF12	0227A	0225A	3694=	MVC CP81ZA(2),CP81YU	01152001
00226E	9640 CF32		0227A		3695=	OI CP81ZA,X'40'	01153001
002272	94F0 CF33		0227B		3696=	NI CP81ZA+1,X'F0'	01154001
002276	4540 CE8E			021D6	3697=	BAL R4,CP81YN	01155001
00227A	5800 0000			00000	3698=	L R0,0	01156001
00227E	47F3 0006			00006	3699=	B 6(R3)	01157001
					3700=*		01158001
002282	D201 D5F8	9017	005F8	00017	3701=	CP47YJ MVC WORKPL(2),23(R9)	01159001
002288	4810 D5F8			005F8	3702=	LH R1,WORKPL	01160001
00228C	4111 900F			0000F	3703=	LA R1,15(R1,R9)	01161001
002290	9102 1000		00000		3704=	TM 0(R1),X'02'	01162001
002294	4780 CFAE			022F6	3705=	BZ CP81ZC	01163001
002298	5010 CFD8			02320	3706=	ST R1,CP81WV	01164001
00229C	D201 D5F8	1003	005F8	00003	3707=	MVC WORKPL(2),3(R1)	01165001
0022A2	940F D5F8		005F8		3708=	NI WORKPL,X'0F'	01166001
0022A6	4820 D5F8			005F8	3709=	LH R2,WORKPL	01167001
0022AA	4020 CFCA			02312	3710=	STH R2,CP81ZD+2	01168001
0022AE	4020 CFD2			0231A	3711=	STH R2,CP81ZE+2	01169001
0022B2	4142 0008			00008	3712=	LA R4,8(R2)	01170001
0022B6	4B40 DA56			00A56	3713=	SH R4,ONEENTRY	01171001
0022BA	4040 D5F8			005F8	3714=	STH R4,WORKPL	01172001
0022BE	4540 58BA			00902	3715=	BAL R4,MAXCH	01173001
0022C2	4122 0004			00004	3716=	LA R2,4(R2)	01174001
0022C6	9140 1000			00000	3717=	TM 0(R1),X'40'	01175001
0022CA	4710 CF9C			022E4	3718=	BO CP81ZF	01176001
0022CE	4020 CF96			022DE	3719=	STH R2,CP81ZG+2	01177001
0022D2	D300 CF95	1003	022DD	00003	3720=	MVZ CP81ZG+1(1),3(R1)	01178001
0022D8	4520 55A2			005EA	3721=	BAL R2,GENTXT4	01179001
0022DC	5A0A 0000			00000	3722=	CP81ZG A R0,0(R10)	01180001
0022E0	47F0 CFAA			022F2	3723=	B CP81ZH	01181001
					3724=*		01182001
0022E4	4020 CFCE			02316	3725=	CP81ZF STH R2,CP81ZI+2	01183001
0022E8	4120 CFC8			02310	3726=	LA R2,CP81ZD	01184001
0022EC	45E0 5588			005D0	3727=	BAL R14,GENTXTS	01185001
0022F0	000C				3728=	DC H'12'	01186001
					3729=*		01187001
0022F2	5810 CFD8			02320	3730=	CP81ZH L R1,CP81WV	01188001
0022F6	4B10 5170			001B8	3731=	CP81ZC SH R1,KH5	01189001
0022FA	91FF 1002		00002		3732=	TM 2(R1),X'FF'	01190001
0022FE	4770 CF48			02290	3733=	BNZ CP81ZB	01191001
002302	91F0 9006		00006		3734=	TM 6(R9),X'F0'	01192001
002306	4780 C88E			01BD6	3735=	BZ CP47YK	01193001
00230A	47F0 C9E8			01D30	3736=	B CP49W	01194001
					3737=*		01195001
00230E	0000						
002310					3738=	DC 0F'0'	01196001
002310	58EA 0000		00000		3739=	CP81ZD L R14,0(R10)	01197001
002314	5AEA 0000		00000		3740=	CP81ZI A R14,0(R10)	01198001
002318	50EA 0000		00000		3741=	CP81ZE ST R14,0(R10)	01199001
00231C	00008000				3742=	CP81WR DC X'00008000'	01200001
002320	4770 4252		00252		3743=	CP81WV BNZ 594(,R4)	01201001
002324	1BFF				3744=	SR R15,R15	01202001
002326	50F0 C6D0		01A18		3745=	CP81YS ST R15,CP47ZG+2	01203001
00232A	5860 C020		01368		3746=	CP81YR L R6,CP6B	01204001
00232E	D203 6000	C0DC	00000	000DC	3747=	WA2_A MVC 0(4,R6),220(R12)	01205001
002334	47F0 4266			00266	3748=	WA2_B B 614(,R4)	01206001
002338	00				3749=	CP81WL DC X'00'	01207001
002339	80				3750=	CP81YQ DC X'80'	01208001
00233A	31				3751=	DC X'31'	01209001
00233B	00				3752=	DC X'00'	01210001
00233C	0000				3753=	WA2_C DC H'0'	01211001
					3754=*		01212001
					3755=*****		01213001
					3756=*		01214001
					3757=*	END OF IEX50002	01215001
					3758=*		01216001
					3759=*****		01217001
					3760=*		01218001
					3761	COPY IEX5000C	01932001
						IEX50003 (RECOVERED) INIT	

Active USINGS: IEX50000+X'1348',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				3763=*		00002001
				3764=*****		00003001
				3765=*		00004001
				3766=*	THIS SOURCE FOR THE START OF IEX50003 WAS RECOVERED BY	00005001
				3767=*	DISASSEMBLY OF THE LOAD MODULE	00006001
				3768=*		00007001
				3769=*****		00008001
				3770=*		00009001
				3771=*		00010001
				3772=*****		00011001
				3773=*		00012001
				3774=*	COMPILER PROGRAM - CP0	00013001
				3775=*		00014001
				3776=*****		00015001
				3777=*		00016001
		R:C 0233E		3778=	USING CP0,R12	00017001
00233E	9101 D080	00080		3779=CP0	TM COMPFGLS,OPERAND	00018001
002342	4780 C03A		02378	3780=	BZ CP0D	00019001
002346	9525 A000		00000	3781=	CLI 0(R10),X'25'	00020001
00234A	4780 C030		0236E	3782=	BE CP0C	00021001
00234E	4540 5304		0034C	3783=	BAL R4,SERR4	00022001
002352	00A4			3784=	DC H'164'	00023001
				3785=*		00024001
002354	4190 9005		00005	3786=CP0A	LA R9,5(,R9)	00025001
002358	4540 5E30		00E78	3787=CP0B	BAL R4,MOVEOPTK	00026001
00235C	D200 A000	8000 00000	00000	3788=	MVC 0(1,R10),0(R8)	00027001
002362	950C 8000		00000	3789=	CLI 0(R8),X'0C'	00028001
002366	0785			3790=	BER R5	00029001
002368	4540 5D14		00D5C	3791=	BAL R4,PBNHDL	00030001
00236C	07F5			3792=	BR R5	00031001
				3793=*		00032001
00236E	4540 5380		003C8	3794=CP0C	BAL R4,SERR1	00033001
002372	00AD			3795=	DC H'173'	00034001
				3796=*		00035001
002374	47F0 C016		02354	3797=	B CP0A	00036001
				3798=*		00037001
002378	950D 8000		00000	3799=CP0D	CLI 0(R8),X'0D'	00038001
00237C	4770 C01A		02358	3800=	BNE CP0B	00039001
002380	9180 D080		00080	3801=	TM COMPFGLS,COMPMODE	00040001
002384	4710 C01A		02358	3802=	BO CP0B	00041001
002388	4540 5706		0074E	3803=	BAL R4,CLEARRG	00042001
00238C	D200 C063	8001 023A1	00001	3804=	MVC CP0E+1(1),1(R8)	00043001
002392	4120 C062		023A0	3805=	LA R2,CP0E	00044001
002396	45E0 5588		005D0	3806=	BAL R14,GENTXTS	00045001
00239A	0008			3807=	DC H'8'	00046001
				3808=*		00047001
00239C	47F0 C01A		02358	3809=	B CP0B	00048001
				3810=*		00049001
0023A0	9200 D0A9		000A9	3811=CP0E	MVI SAVOUTA+1,X'00'	00050001
0023A4	45FD 00E0		000E0	3812=	BAL R15,PROLOG(R13,0)	00051001
				3813=*		00052001
				3814=*****		00053001
				3815=*		00054001
				3816=*	COMPILER PROGRAM - CP1	00055001
				3817=*		00056001
				3818=*****		00057001
				3819=*		00058001
		R:C 023A8		3820=	USING CP1,R12	00059001
0023A8	9101 D080		00080	3821=CP1	TM COMPFGLS,OPERAND	00060001
0023AC	4780 C04C		023F4	3822=	BZ CP1A	00061001
0023B0	9180 D080		00080	3823=	TM COMPFGLS,COMPMODE	00062001
0023B4	4710 C02E		023D6	3824=	BO CP1B	00063001
0023B8	9508 9001		00001	3825=	CLI 1(R9),X'08'	00064001
0023BC	4770 C04C		023F4	3826=	BNE CP1A	00065001
0023C0	4540 5706		0074E	3827=	BAL R4,CLEARRG	00066001
0023C4	D201 D5F8	9003 005F8	00003	3828=	MVC WORKPL(2),3(R9)	00067001
0023CA	4810 D5F8		005F8	3829=	LH R1,WORKPL	00068001
0023CE	5A10 D61C		0061C	3830=	A R1,LATAB	00069001
0023D2	5060 1000		00000	3831=	ST R6,0(,R1)	00070001
0023D6	950D A000		00000	3832=CP1B	CLI 0(R10),X'0D'	00071001
0023DA	4740 C046		023EE	3833=	BL CP1C	00072001
0023DE	950F A000		00000	3834=	CLI 0(R10),X'0F'	00073001
0023E2	4780 C046		023EE	3835=	BNL CP1C	00074001
0023E6	4540 5E30		00E78	3836=	BAL R4,MOVEOPTK	00075001
0023EA	9208 A000		00000	3837=	MVI 0(R10),X'0B'	00076001
0023EE	4190 9005		00005	3838=CP1C	LA R9,5(,R9)	00077001
0023F2	07F5			3839=	BR R5	00078001
				3840=*		00079001
0023F4	58C0 52F4		0033C	3841=CP1A	L R12,SCPTAB+4*84	00080001
0023F8	07FC			3842=	BR R12	00081001
				3843=*		00082001
				3844=*****		00083001
				3845=*		00084001
				3846=*	COMPILER PROGRAM - CP3	00085001
				3847=*		00086001
				3848=*****		00087001
				3849=*		00088001
		R:C 023FA		3850=	USING CP3,R12	00089001
0023FA	9101 D080		00080	3851=CP3	TM COMPFGLS,OPERAND	00090001
0023FE	4710 C01C		02416	3852=	BO CP3A	00091001
002402	9104 D080		00080	3853=	TM COMPFGLS,PROC	00092001
002406	4710 C018		02412	3854=	BO CP3B	00093001
00240A	4520 55A2		005EA	3855=	BAL R2,GENTXT4	00094001
00240E	47FD 010E		0010E	3856=	B TERMTE(FSA)	00095001
				3857=*		00096001
002412	47F0 53EA		00432	3858=CP3B	B CPEND	00097001

Active USINGS: IEX50000+X'23FA',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
002416	58C0 52F4		0033C	3859=*					00098001
00241A	07FC			3860=CP3A	L	R12,SCPTAB+4*84	R12 -> CP84		00099001
				3861=	BR	R12			00100001
				3862=*					00101001
				3863=*****					00102001
				3864=*					00103001
				3865=*	COMPILER PROGRAM - CP4				00104001
				3866=*					00105001
				3867=*****					00106001
				3868=*					00107001
		R:C 0241C		3869=	USING	CP4,R12			00108001
00241C	9101 D080	00080		3870=CP4	TM	COMPFLGS,OPERAND			00109001
002420	4780 C012		0242E	3871=	BZ	CP4A			00110001
002424	4540 5304		0034C	3872=	BAL	R4,SERR4			00111001
002428	00A4			3873=	DC	H'164'	ERROR 164		00112001
				3874=*					00113001
00242A	4199 0005		00005	3875=	LA	R9,5(R9)			00114001
00242E	4540 5E30		00E78	3876=CP4A	BAL	R4,MOVEOPTK			00115001
002432	D200 A000	8000 00000	00000	3877=	MVC	0(1,R10),0(R8)			00116001
002438	9509 8000		00000	3878=	CLI	0(R8),X'09'			00117001
00243C	4780 C1CE		025EA	3879=	BE	CP4B			00118001
002440	4B90 5170		001B8	3880=	SH	R9,KH5			00119001
002444	4540 5E38		00E80	3881=	BAL	R4,MOVEOPDK			00120001
002448	9500 DA5D		00A5D	3882=	CLI	SPBNST+1,0			00121001
00244C	4780 C04C		02468	3883=	BE	CP4C			00122001
002450	4540 5E70		00EB8	3884=	BAL	R4,LATRES			00123001
002454	4010 C048		02464	3885=	STH	R1,CP4D+2	UPDATE GENERATED CODE		00124001
002458	D201 9003	C048 00003	02464	3886=	MVC	3(2,R9),CP4D+2			00125001
00245E	4520 55A6		005EE	3887=	BAL	R2,GENTXT6	GENERATE 6 BYTES		00126001
002462	58FC 0000		00000	3888=CP4D	L	R15,0(R12)	*** GENERATED CODE ***		00127001
002466	07FF			3889=	BR	R15	*** GENERATED CODE ***		00128001
				3890=*					00129001
002468	950A 8000		00000	3891=CP4C	CLI	0(R8),X'0A'			00130001
00246C	0785			3892=	BER	R5	RETURN TO SUBSTART		00131001
00246E	4540 5D14		00D5C	3893=	BAL	R4,PBNHDL			00132001
002472	4540 C198		025B4	3894=	BAL	R4,CP4E			00133001
002476	D204 9005	DA73 00005	00A73	3895=	MVC	5(5,R9),STRDNAME			00134001
00247C	4199 0005		00005	3896=	LA	R9,5(R9)			00135001
002480	4540 5CE8		00D30	3897=	BAL	R4,DECOMP			00136001
002484	D204 9000	DA73 00000	00A73	3898=	MVC	0(5,R9),STRDNAME			00137001
00248A	4B90 5170		001B8	3899=	SH	R9,KH5			00138001
00248E	D201 DA64	5178 00A64	001C0	3900=	MVC	HALFW,KH15			00139001
002494	58F0 D61C		0061C	3901=	L	R15,LATAB			00140001
002498	4AF0 DA4E		00A4E	3902=	AH	R15,OPDLN			00141001
00249C	506F 0000		00000	3903=	ST	R6,0(R15)			00142001
0024A0	9180 D080		00080	3904=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?		00143001
0024A4	4710 C094		024B0	3905=	BO	CP4F	YES, BRANCH		00144001
0024A8	9506 8000		00000	3906=	CLI	0(R8),XFLBRAC			00145001
0024AC	4780 C0A8		024C4	3907=	BE	CP4G			00146001
0024B0	94FE D080		00080	3908=CP4F	NI	COMPFLGS,255-OPERAND	TURN OFF OPERAND FLAG		00147001
0024B4	9529 8000		00000	3909=CP4H	CLI	0(R8),XFDELTA			00148001
0024B8	4780 5060		000A8	3910=	BE	COMP			00149001
0024BC	4540 C198		025B4	3911=	BAL	R4,CP4E			00150001
0024C0	47F0 C098		024B4	3912=	B	CP4H			00151001
				3913=*					00152001
0024C4	4540 C198		025B4	3914=CP4G	BAL	R4,CP4E			00153001
0024C8	D201 C0B6	DA73 024D2	00A73	3915=	MVC	CP4I(2),STRDNAME			00154001
0024CE	4520 559E		005E6	3916=	BAL	R2,GENTXT2	GENERATE 4 BYTES		00155001
0024D2	0000			3917=CP4I	DC	X'0000'	*** GENERATED CODE ***		00156001
0024D4	9200 DAA5		00AA5	3918=	MVI	CBVTAB+45,X'00'			00157001
0024D8	9120 DA74		00A74	3919=	TM	STRDNAME+1,X'20'			00158001
0024DC	4780 C0DA		024F6	3920=	BZ	CP4J			00159001
0024E0	9280 DAA5		00AA5	3921=	MVI	CBVTAB+45,X'80'			00160001
0024E4	D201 DAA6	DA73 00AA6	00A73	3922=	MVC	CBVTAB+46(2),STRDNAME			00161001
0024EA	9108 DA74		00A74	3923=	TM	STRDNAME+1,X'08'			00162001
0024EE	4780 C0DA		024F6	3924=	BZ	CP4J			00163001
0024F2	92C0 DAA5		00AA5	3925=	MVI	CBVTAB+45,X'C0'			00164001
0024F6	D22C DA78	DA7B 00A78	00A7B	3926=CP4J	MVC	CBVTAB(45),CBVTAB+3			00165001
0024FC	48F0 DA64		00A64	3927=	LH	R15,HALFW			00166001
002500	06F0			3928=	BCTR	R15,R0			00167001
002502	40F0 DA64		00A64	3929=	STH	R15,HALFW			00168001
002506	9525 8000		00000	3930=	CLI	0(R8),XFCOMMA			00169001
00250A	4780 C0A8		024C4	3931=	BE	CP4G			00170001
00250E	48F0 DA64		00A64	3932=	LH	R15,HALFW			00171001
002512	12FF			3933=	LTR	R15,R15			00172001
002514	4780 C104		02520	3934=	BZ	CP4K			00173001
002518	9200 DAA5		00AA5	3935=	MVI	CBVTAB+45,X'00'			00174001
00251C	47F0 C0DA		024F6	3936=	B	CP4J			00175001
				3937=*					00176001
002520	48F0 DA64		00A64	3938=CP4K	LH	R15,HALFW			00177001
002524	41F0 F001		00001	3939=	LA	R15,1(,R15)			00178001
002528	40F0 DA64		00A64	3940=	STH	R15,HALFW			00179001
00252C	4BF0 5178		001C0	3941=	SH	R15,KH15			00180001
002530	4720 C094		024B0	3942=	BP	CP4F			00181001
002534	9180 DA78		00A78	3943=	TM	CBVTAB,X'80'			00182001
002538	4780 C18E		025AA	3944=	BZ	CP4L			00183001
00253C	48F0 DA4A		00A4A	3945=	LH	R15,OPDPBN			00184001
002540	89F0 0003		00003	3946=	SLL	R15,3			00185001
002544	40F0 C1E0		025FC	3947=	STH	R15,CP4ZA			00186001
002548	40F0 C1E2		025FE	3948=	STH	R15,CP4ZB			00187001
00254C	1BFF			3949=	SR	R15,R15			00188001
00254E	9103 9006		00006	3950=	TM	6(R9),X'03'			00189001
002552	4780 C13E		0255A	3951=	BZ	CP4M			00190001
002556	41F0 F001		00001	3952=	LA	R15,1(,R15)			00191001
00255A	4AF0 DA64		00A64	3953=CP4M	AH	R15,HALFW			00192001
00255E	89F0 0003		00003	3954=	SLL	R15,3			00193001



Active USINGS: IEX50000+X'241C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002562	41F0 F010		00010	3955=	LA	R15,16(,R15)	00194001
002566	40F0 C1E6		02602	3956=	STH	R15,CP4N+2	00195001
00256A	40F0 C1EC		02608	3957=	STH	R15,CP4ZC	00196001
00256E	40F0 C1D6		025F2	3958=	STH	R15,CP4P+2	00197001
002572	41F0 F004		00004	3959=	LA	R15,4(,R15)	00198001
002576	40F0 C1DA		025F6	3960=	STH	R15,CP4Q+2	00199001
00257A	4120 C1DC		025F8	3961=	LA	R2,CP4R	00200001
00257E	45E0 5588		005D0	3962=	BAL	R14,GENTXTS	00201001
002582	000C			3963=	DC	H'12'	00202001
				3964=*		GENERATE 12 BYTES	00203001
002584	9140 DA78	00A78		3965=	TM	CBVTAB,X'40'	00204001
002588	4780 C17E		0259A	3966=	BZ	CP4S	00205001
00258C	4120 C1D4		025F0	3967=	LA	R2,CP4P	00206001
002590	45E0 5588		005D0	3968=	BAL	R14,GENTXTS	00207001
002594	0008			3969=	DC	H'8'	00208001
				3970=*		GENERATE 8 BYTES	00209001
002596	47F0 C18E		025AA	3971=	B	CP4L	00210001
				3972=*			00211001
00259A	D201 C1EE	DA79 0260A	00A79	3973=CP4S	MVC	CP4ZF(2),CBVTAB+1	00212001
0025A0	4120 C1E8		02604	3974=	LA	R2,CP4T	00213001
0025A4	45E0 5588		005D0	3975=	BAL	R14,GENTXTS	00214001
0025A8	0008			3976=	DC	H'8'	00215001
				3977=*		GENERATE 8 BYTES	00216001
0025AA	D22C DA78	DA7B 00A78	00A7B	3978=CP4L	MVC	CBVTAB(45),CBVTAB+3	00217001
0025B0	47F0 C104		02520	3979=	B	CP4K	00218001
0025B4	5040 D624		00624	3980=CP4E	ST	R4,STRETURN	00219001
0025B8	D201 DA76	DA50 00A76	00A50	3981=	MVC	STRDNAME+3(2),ZEROHW	00220001
0025BE	952F 8001	00001		3982=CP4V	CLI	1(R8),XZFZETA	00221001
0025C2	4740 C1C4		025E0	3983=	BL	CP4U	00222001
0025C6	4720 C1B6		025D2	3984=	BH	CP4W	00223001
0025CA	4540 5084		000CC	3985=	BAL	R4,JBUFFER	00224001
0025CE	47F0 C1A2		025BE	3986=	B	CP4V	00225001
				3987=*			00226001
0025D2	D204 DA73	8001 00A73	00001	3988=CP4W	MVC	STRDNAME(5),1(R8)	00227001
0025D8	4180 8005		00005	3989=	LA	R8,5(,R8)	00228001
0025DC	47F0 C1A2		025BE	3990=	B	CP4V	00229001
				3991=*			00230001
0025E0	4180 8001		00001	3992=CP4U	LA	R8,1(,R8)	00231001
0025E4	58F0 D624		00624	3993=	L	R15,STRETURN	00232001
0025E8	07FF			3994=	BR	R15	00233001
				3995=*			00234001
0025EA	58B0 519C		001E4	3996=CP4B	L	R11,STC	00235001
0025EE	07F5			3997=	BR	R5	00236001
				3998=*		RETURN TO SUBSTART	00237001
0025F0	508A 0000		00000	3999=CP4P	ST	R8,0(R10)	00238001
0025F4	509A 0000		00000	4000=CP4Q	ST	R9,0(R10)	00239001
0025F8	45FD 00D4		000D4	4001=CP4R	BAL	R15,CAP1(R13)	00240001
0025FC	0000			4002=CP4ZA	DC	X'0000'	00241001
0025FE	0000			4003=CP4ZB	DC	X'0000'	00242001
002600	588A 0000		00000	4004=CP4N	L	R8,0(R10)	00243001
002604	45FD 0118		00118	4005=CP4T	BAL	R15,VALUCALL(R13)	00244001
002608	0000			4006=CP4ZC	DC	X'0000'	00245001
00260A	0000			4007=CP4ZF	DC	X'0000'	00246001
				4008=*		*** GENERATED CODE ***	00247001
				4009=		*****	00248001
				4010=*			00249001
				4011=*		COMPILER PROGRAM - CP7	00250001
				4012=*			00251001
				4013=		*****	00252001
				4014=*			00253001
		R:C 0260C		4015=	USING	CP7,R12	00254001
00260C	4540 5E30		00E78	4016=CP7	BAL	R4,MOVEOPTK	00255001
002610	920B A000	00000		4017=	MVI	0(R10),X'0B'	00256001
002614	47F0 5060		000A8	4018=	B	COMP	00257001
				4019=*			00258001
				4020=		*****	00259001
				4021=*			00260001
				4022=*		COMPILER PROGRAM - CP8	00261001
				4023=*			00262001
				4024=		*****	00263001
				4025=*			00264001
		R:C 02618		4026=	USING	CP8,R12	00265001
002618	9101 D080	00080		4027=CP8	TM	COMPFLGS,OPERAND	00266001
00261C	4710 C020		02638	4028=	BO	CP8A	00267001
002620	4540 5E30		00E78	4029=CP8B	BAL	R4,MOVEOPTK	00268001
002624	9226 A000	00000		4030=	MVI	0(R10),XFRBRAC	00269001
002628	41B0 B266		00266	4031=	LA	R11,614(,R11)	00270001
00262C	9180 D080	00080		4032=	TM	COMPFLGS,COMPMODE	00271001
002630	0715			4033=	BOR	R5	00272001
002632	4540 5706		0074E	4034=	BAL	R4,CLEARRG	00273001
002636	07F5			4035=	BR	R5	00274001
				4036=*		RETURN TO SUBSTART	00275001
002638	4540 5318		00360	4037=CP8A	BAL	R4,SERR3	00276001
00263C	00B1			4038=	DC	H'177'	00277001
				4039=*		ERROR 177	00278001
00263E	4190 9005		00005	4040=	LA	R9,5(,R9)	00279001
002642	47F0 C008		02620	4041=	B	CP8B	00280001
				4042=*			00281001
				4043=		*****	00282001
				4044=*			00283001
				4045=*		COMPILER PROGRAM - CP16	00284001
				4046=*			00285001
				4047=		*****	00286001
				4048=*			00287001
		R:C 02646		4049=	USING	CP16,R12	00288001
002646	9101 D080	00080		4050=CP16	TM	COMPFLGS,OPERAND	00289001

Active USINGS: IEX50000+X'2646',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00264A	4780 C014		0265A	4051=	BZ	CP16A	00290001
00264E	4540 5D54		00D9C	4052=	BAL	R4,PLPRST	00291001
002652	4199 0005		00005	4053=	LA	R9,5(R9)	00292001
002656	94FE D080	00080		4054=	NI	COMPFLGS,255-OPERAND	00293001
00265A	952C 8000	00000		4055=CP16A	CLI	0(R8),XFEND	00294001
00265E	4770 C020		02666	4056=	BNE	CP16B	00295001
002662	46A0 503C		00084	4057=	BCT	R10,SPECTEST	00296001
002666	9180 D080	00080		4058=CP16B	TM	COMPFLGS,COMPMode	00297001
00266A	4710 C040		02686	4059=	BO	CP16C	00298001
00266E	950D A000	00000		4060=	CLI	0(R10),X'0D'	00299001
002672	4780 C0A0		026E6	4061=	BE	CP16D	00300001
002676	9180 9006	00006		4062=	TM	6(R9),X'80'	00301001
00267A	4780 C0B0		026F6	4063=	BZ	CP16E	00302001
00267E	4520 55A2		005EA	4064=	BAL	R2,GENTXT4	00303001
002682	47FD 00E8		000E8	4065=	B	232(R13)	00304001
				4066=*			00305001
002686	950D A000	00000		4067=CP16C	CLI	0(R10),X'0D'	00306001
00268A	4780 C08C		026D2	4068=	BE	CP16F	00307001
00268E	9500 8001	00001		4069=	CLI	1(R8),XFPLUS	00308001
002692	4780 C068		026AE	4070=	BE	CP16G	00309001
002696	9180 D080	00080		4071=	TM	COMPFLGS,COMPMode	00310001
00269A	4710 C068		026AE	4072=	BO	CP16G	00311001
00269E	4540 5CE8		00D30	4073=	BAL	R4,DECOMP	00312001
0026A2	4840 DA4E		00A4E	4074=	LH	R4,OPDLN	00313001
0026A6	58F0 D61C		0061C	4075=	L	R15,LATAB	00314001
0026AA	5064 F000		00000	4076=	ST	R6,0(R4,R15)	00315001
0026AE	4199 0005		00005	4077=CP16G	LA	R9,5(R9)	00316001
0026B2	4110 0004		00004	4078=	LA	R1,4	00317001
0026B6	950F A000	00000		4079=CP16H	CLI	0(R10),X'0F'	00318001
0026BA	4770 C07C		026C2	4080=	BNE	CP16I	00319001
0026BE	4111 0004		00004	4081=	LA	R1,4(R1)	00320001
0026C2	8910 000C		0000C	4082=CP16I	SLL	R1,12	00321001
0026C6	4319 0003		00003	4083=	IC	R1,3(R9)	00322001
0026CA	8810 0004		00004	4084=	SRL	R1,4	00323001
0026CE	4199 0005		00005	4085=	LA	R9,5(R9)	00324001
0026D2	48F0 DA5C		00A5C	4086=CP16F	LH	R15,SPBNST	00325001
0026D6	89F0 0002		00002	4087=	SLL	R15,2	00326001
0026DA	401F D632		00632	4088=	STH	R1,PBTAB3+2(R15)	00327001
0026DE	4540 5D14		00D5C	4089=	BAL	R4,PBNHDL	00328001
0026E2	46A0 503C		00084	4090=	BCT	R10,SPECTEST	00329001
0026E6	4520 55A2		005EA	4091=CP16D	BAL	R2,GENTXT4	00330001
0026EA	45FD 00EC		000EC	4092=	BAL	R15,EPILOGB(FSA)	00331001
0026EE	4810 DA50		00A50	4093=	LH	R1,ZEROWH	00332001
0026F2	47F0 C08C		026D2	4094=	B	CP16F	00333001
				4095=*			00334001
0026F6	4110 0014		00014	4096=CP16E	LA	R1,20	00335001
0026FA	4199 0005		00005	4097=	LA	R9,5(R9)	00336001
0026FE	47F0 C070		026B6	4098=	B	CP16H	00337001
				4099=*			00338001
				4100=*****			00339001
				4101=*			00340001
				4102=*	COMPILER PROGRAM - CP24		00341001
				4103=*			00342001
				4104=*****			00343001
				4105=*			00344001
		R:C 02702		4106=	USING	CP24,R12	00345001
002702	9101 D080	00080		4107=CP24	TM	COMPFLGS,OPERAND	00346001
002706	4780 C012		02714	4108=	BZ	CP24A	00347001
00270A	4540 5318		00360	4109=	BAL	R4,SERR3	00348001
00270E	00B1			4110=	DC	H'177'	00349001
				4111=*			00350001
002710	4190 9005		00005	4112=	LA	R9,5(,R9)	00351001
002714	4540 590C		00954	4113=CP24A	BAL	R4,SCHDL	00352001
002718	07F5			4114=	BR	R5	00353001
				4115=*			00354001
				4116=*****			00355001
				4117=*			00356001
				4118=*	COMPILER PROGRAM - CP25		00357001
				4119=*			00358001
				4120=*****			00359001
				4121=*			00360001
		R:C 0271A		4122=	USING	CP25,R12	00361001
00271A	9101 D080	00080		4123=CP25	TM	COMPFLGS,OPERAND	00362001
00271E	4780 C010		0272A	4124=	BZ	CP25A	00363001
002722	4540 5D54		00D9C	4125=	BAL	R4,PLPRST	00364001
002726	4190 9005		00005	4126=	LA	R9,5(,R9)	00365001
00272A	4540 5E30		00E78	4127=CP25A	BAL	R4,MOVEOPTK	00366001
00272E	D200 A000	8000 00000	00000	4128=	MVC	0(1,R10),0(R8)	00367001
002734	4540 590C		00954	4129=	BAL	R4,SCHDL	00368001
002738	07F5			4130=	BR	R5	00369001
				4131=*			00370001
				4132=*****			00371001
				4133=*			00372001
				4134=*	COMPILER PROGRAM - CP36		00373001
				4135=*			00374001
				4136=*****			00375001
				4137=*			00376001
		R:C 0273A		4138=	USING	CP36,R12	00377001
00273A	4140 C010		0274A	4139=CP36	LA	R4,CP36A	00378001
00273E	4530 5F08		00F50	4140=	BAL	R3,OPDTEST	00379001
002742	4540 5E44		00E8C	4141=	BAL	R4,TARITHM	00380001
002746	47F0 C020		0275A	4142=	B	CP36B	00381001
				4143=*			00382001
00274A	4190 9005		00005	4144=CP36A	LA	R9,5(,R9)	00383001
00274E	4540 5E30		00E78	4145=	BAL	R4,MOVEOPTK	00384001
002752	D200 A000	8000 00000	00000	4146=	MVC	0(1,R10),0(R8)	00385001

Active USINGS: IEX50000+X'273A',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002758	07F5			4147=	BR	R5	RETURN TO SUBSTART 00386001
				4148=*			00387001
00275A	9180 D080	00080		4149=CP36B	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 00388001
00275E	4710 C010		0274A	4150=	BO	CP36A	YES, BRANCH 00389001
002762	4540 578A		007D2	4151=	BAL	R4,OPDREC	00390001
002766	9101 9001	00001		4152=	TM	1(R9),X'01'	00391001
00276A	4710 C070		027AA	4153=	BO	CP36C	00392001
00276E	4540 5506		0054E	4154=	BAL	R4,TRREIN	00393001
002772	D201 C044	9008 0277E	00008	4155=	MVC	CP36D+2(2),8(R9)	00394001
002778	4520 55A2		005EA	4156=	BAL	R2,GENTXT4	GENERATE 4 BYTES 00395001
00277C	50EA 0000		00000	4157=CP36D	ST	R14,0(R10)	*** GENERATED CODE *** 00396001
002780	47F0 C05C		02796	4158=	B	CP36E	00397001
				4159=*			00398001
002784	1BEE			4160=CP36F	SR	R14,R14	00399001
002786	43E9 0003		00003	4161=	IC	R14,3(R9)	00400001
00278A	88E0 0004		00004	4162=	SRL	R14,4	00401001
00278E	4540 5B4E		00B96	4163=	BAL	R4,ROUTINE9	00402001
002792	4540 5AF2		00B3A	4164=	BAL	R4,ROUTINE8	00403001
002796	4A70 DA56		00A56	4165=CP36E	AH	R7,ONEENTRY	00404001
00279A	4A70 DA56		00A56	4166=	AH	R7,ONEENTRY	00405001
00279E	4070 D5F8		005F8	4167=	STH	R7,WORKPL	00406001
0027A2	4540 58BA		00902	4168=	BAL	R4,MAXCH	00407001
0027A6	47F0 C010		0274A	4169=	B	CP36A	00408001
				4170=*			00409001
0027AA	4130 C04A		02784	4171=CP36C	LA	R3,CP36F	00410001
0027AE	4540 5CB4		00CFC	4172=	BAL	R4,ROUTIN15	00411001
0027B2	91A0 9000	00000		4173=	TM	0(R9),X'A0'	00412001
0027B6	4780 C05C		02796	4174=	BZ	CP36E	00413001
0027BA	D401 C09E	DA54 027D8	00A54	4175=	NC	CP36G+2(2),CLEARDIS	UPDATE GENERATED CODE 00414001
0027C0	D601 C09E	9008 027D8	00008	4176=	OC	CP36G+2(2),8(R9)	00415001
0027C6	D201 C0A0	DA6A 027DA	00A6A	4177=	MVC	CP36G+4(2),WPLACE	00416001
0027CC	D300 C0A0	DA72 027DA	00A72	4178=	MVZ	CP36G+4(1),VPLACE	00417001
0027D2	4520 55A6		005EE	4179=	BAL	R2,GENTXT6	GENERATE 6 BYTES 00418001
0027D6	D203 A000	0000 00000	00000	4180=CP36G	MVC	0(4,R10),0	*** GENERATED CODE *** 00419001
0027DC	47F0 C05C		02796	4181=	B	CP36E	00420001
				4182=*			00421001
				4183=*****			00422001
				4184=*			00423001
				4185=*	COMPILER PROGRAM - CP38		00424001
				4186=*			00425001
				4187=*****			00426001
				4188=*			00427001
		R:C 027E0		4189=	USING	CP38,R12	00428001
0027E0	4140 C080		02860	4190=CP38	LA	R4,CP38A	00429001
0027E4	4530 5F08		00F50	4191=	BAL	R3,OPDTEST	00430001
0027E8	4540 5E44		00E8C	4192=	BAL	R4,TARITHM	00431001
0027EC	47F0 C010		027F0	4193=	B	CP38B	00432001
0027F0	9110 9014	00014		4194=CP38B	TM	20(R9),X'10'	00433001
0027F4	4710 C080		02860	4195=	BO	CP38A	00434001
0027F8	9108 9015	00015		4196=	TM	21(R9),X'08'	00435001
0027FC	4780 C078		02858	4197=	BZ	CP38C	00436001
002800	9528 8000	00000		4198=	CLI	0(R8),XFRSQBR	00437001
002804	4770 C06C		0284C	4199=	BNE	CP38F	00438001
002808	9180 D080	00080		4200=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 00439001
00280C	4780 C188		02968	4201=	BZ	CP38D	NO, BRANCH 00440001
002810	47F0 C1C2		029A2	4202=	B	CP38E	00441001
				4203=*			00442001
002814	92A0 9014	00014		4204=CP38G	MVI	20(R9),X'A0'	00443001
002818	9403 9015	00015		4205=	NI	21(R9),X'03'	00444001
00281C	9630 9015	00015		4206=	OI	21(R9),X'30'	00445001
002820	4199 0014		00014	4207=CP38H	LA	R9,20(R9)	00446001
002824	9601 D080	00080		4208=	OI	COMPFLGS,OPERAND	00447001
002828	4BA0 516C		001B4	4209=	SH	R10,KH2	00448001
00282C	D500 A001	B063 00001	00063	4210=	CLC	1(1,R10),99(R11)	00449001
002832	4780 503C		00084	4211=	BE	SPECTEST	00450001
002836	4180 B144		00144	4212=	LA	R11,324(,R11)	00451001
00283A	D500 A001	B063 00001	00063	4213=	CLC	1(1,R10),99(R11)	00452001
002840	4780 503C		00084	4214=	BE	SPECTEST	00453001
002844	4BB0 5180		001C8	4215=	SH	R11,KH614	00454001
002848	47F0 503C		00084	4216=	B	SPECTEST	00455001
				4217=*			00456001
00284C	4540 5380		003C8	4218=CP38F	BAL	R4,SERR1	00457001
002850	00B4			4219=	DC	H'180'	ERROR 180 00458001
				4220=*			00459001
002852	D204 9014	5182 00014	001CA	4221=	MVC	20(5,R9),API	00460001
002858	9180 D080	00080		4222=CP38C	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 00461001
00285C	4780 C0F2		028D2	4223=	BZ	CP38J	NO, BRANCH 00462001
002860	948F D080	00080		4224=CP38A	NI	COMPFLGS,255-NLOAD	00463001
002864	9528 8000	00000		4225=	CLI	0(R8),XFRSQBR	00464001
002868	4770 C0BC		0289C	4226=	BNE	CP38K	00465001
00286C	9130 9015	00015		4227=	TM	21(R9),X'30'	00466001
002870	4740 C21A		029FA	4228=	BM	CP38L	00467001
002874	D500 9012	9011 00012	00011	4229=	CLC	18(1,R9),17(R9)	00468001
00287A	4770 C0AA		0288A	4230=	BNE	CP38M	00469001
00287E	9180 D080	00080		4231=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 00470001
002882	4780 C23A		02A1A	4232=	BZ	CP38N	NO, BRANCH 00471001
002886	47F0 C034		02814	4233=	B	CP38G	00472001
				4234=*			00473001
00288A	9110 9014	00014		4235=CP38M	TM	20(R9),X'10'	00474001
00288E	4710 C040		02820	4236=	BO	CP38H	00475001
002892	4540 5380		003C8	4237=	BAL	R4,SERR1	00476001
002896	00B3			4238=	DC	H'179'	ERROR 179 00477001
				4239=*			00478001
002898	47F0 C034		02814	4240=	B	CP38G	00479001
				4241=*			00480001
00289C	4190 9005	00005		4242=CP38K	LA	R9,5(,R9)	00481001

Active USINGS: IEX50000+X'27E0',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
0028A0	1B11			4243=	SR	R1,R1			00482001
0028A2	4310 900D		0000D	4244=	IC	R1,13(,R9)			00483001
0028A6	4110 1001		00001	4245=	LA	R1,1(,R1)			00484001
0028AA	4210 900D		0000D	4246=	STC	R1,13(,R9)			00485001
0028AE	9180 D080	00080		4247=	TM	COMPFLGS,COMP MODE	SYNTAX CHECK MODE ?		00486001
0028B2	0715			4248=	BOR	R5	YES, RETURN TO SUBSTART		00487001
0028BA	9501 900E	0000E		4249=	CLI	14(R9),X'01'			00488001
0028B8	0775			4250=	BNER	R5	NO, BRANCH TO SUBSTART		00489001
0028BA	D201 D5F8 9003 005F8	00003		4251=	MVC	WORKPL(2),3(R9)			00490001
0028C0	4800 D5F8	005F8		4252=	LH	R0,WORKPL			00491001
0028C4	8900 100F	0000F		4253=	SLL	R0,15(R1)			00492001
0028C8	1200			4254=	LTR	R0,R0			00493001
0028CA	07B5			4255=	BNMR	R5	NO, BRANCH TO SUBSTART		00494001
0028CC	9640 D080	00080		4256=	OI	COMPFLGS,SUBSCOPT			00495001
0028D0	07F5			4257=	BR	R5	RETURN TO SUBSTART		00496001
				4258=*					00497001
0028D2	9140 D080	00080		4259=CP38J	TM	COMPFLGS,SUBSCOPT			00498001
0028D6	4710 C0FE		028DE	4260=	BO	CP380			00499001
0028DA	4540 C2EC		02ACC	4261=	BAL	R4,CP38P			00500001
0028DE	9130 9015	00015		4262=CP380	TM	21(R9),X'30'			00501001
0028E2	4199 0014		00014	4263=	LA	R9,20(R9)			00502001
0028E6	4740 C112		028F2	4264=	BM	CP38Q			00503001
0028EA	4540 593C		00984	4265=	BAL	R4,ROUTINE1			00504001
0028EE	47F0 C126		02906	4266=	B	CP38R			00505001
				4267=*					00506001
0028F2	4540 59F2		00A3A	4268=CP38Q	BAL	R4,ROUTINE3			00507001
0028F6	4A70 DA56		00A56	4269=	AH	R7,ONEENTRY			00508001
0028FA	9201 DA46	00A46		4270=	MVI	RII,X'01'			00509001
0028FE	5090 D5E0	005E0		4271=	ST	R9,RUTI+32			00510001
002902	92A8 9000	00000		4272=	MVI	0(R9),X'A8'			00511001
002906	4890 517A		001C2	4273=CP38R	SH	R9,KH20			00512001
00290A	1B11			4274=	SR	R1,R1			00513001
00290C	4319 0010		00010	4275=	IC	R1,16(R9)			00514001
002910	4111 0004		00004	4276=	LA	R1,4(R1)			00515001
002914	4219 0010		00010	4277=	STC	R1,16(R9)			00516001
002918	9140 D080	00080		4278=	TM	COMPFLGS,SUBSCOPT			00517001
00291C	4710 C080		02860	4279=	BO	CP38A			00518001
002920	4A10 DA6A		00A6A	4280=	AH	R1,WPLACE			00519001
002924	4010 C154		02934	4281=	STH	R1,CP38S+2	UPDATE GENERATED CODE		00520001
002928	D100 C153 DA72 02933	00A72		4282=	VMN	CP38S+1(1),VPLACE			00521001
00292E	4520 55A2		005EA	4283=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00522001
002932	5CE0 0000	00000		4284=CP38S	M	R14,0	*** GENERATED CODE ***		00523001
002936	9140 900A	0000A		4285=	TM	10(R9),X'40'			00524001
00293A	4710 C16E		0294E	4286=	BO	CP38T			00525001
00293E	D300 C169 900D 02949	0000D		4287=	MVZ	CP38U+1(1),13(R9)			00526001
002944	4520 559E	005E6		4288=	BAL	R2,GENTXT2	GENERATE 2 BYTES		00527001
002948	1A0F			4289=CP38U	AR	R0,R15	*** GENERATED CODE ***		00528001
00294A	47F0 C080		02860	4290=	B	CP38A			00529001
				4291=*					00530001
00294E	D201 C342 900D 02B22	0000D		4292=CP38T	MVC	CP38V+2(2),13(R9)			00531001
002954	D201 C346 900D 02B26	0000D		4293=	MVC	CP38W+2(2),13(R9)			00532001
00295A	4120 C340		02B20	4294=	LA	R2,CP38V			00533001
00295E	45E0 5588		005D0	4295=	BAL	R14,GENTXTS			00534001
002962	0008			4296=	DC	H'8'	GENERATE 8 BYTES		00535001
				4297=*					00536001
002964	47F0 C080		02860	4298=	B	CP38A			00537001
				4299=*					00538001
002968	4540 C2EC		02ACC	4300=CP38D	BAL	R4,CP38P			00539001
00296C	4540 5706		0074E	4301=	BAL	R4,CLEARRG			00540001
002970	9130 9015	00015		4302=	TM	21(R9),X'30'			00541001
002974	4740 C1DA		029BA	4303=	BM	CP38X			00542001
002978	1B11			4304=	SR	R1,R1			00543001
00297A	4319 0016		00016	4305=	IC	R1,22(R9)			00544001
00297E	8910 0003		00003	4306=	SLL	R1,3			00545001
002982	4010 C34A		02B2A	4307=	STH	R1,CP38AA+2	UPDATE GENERATED CODE		00546001
002986	D201 C34E 9017 02B2E	00017		4308=	MVC	CP38AB+2(2),23(R9)			00547001
00298C	940F C34E		02B2E	4309=	NI	CP38AB+2,X'0F'			00548001
002990	4120 C348		02B28	4310=	LA	R2,CP38AA			00549001
002994	45E0 5588		005D0	4311=	BAL	R14,GENTXTS			00550001
002998	000C			4312=	DC	H'12'	GENERATE 12 BYTES		00551001
				4313=*					00552001
00299A	4A70 DA56		00A56	4314=	AH	R7,ONEENTRY			00553001
00299E	9601 DA46	00A46		4315=	OI	RII,X'01'			00554001
0029A2	D201 9014 C36E 00014	02B4E		4316=CP38E	MVC	20(2,R9),CP38YA			00555001
0029A8	4070 DA5E		00A5E	4317=	STH	R7,SPBNST+2			00556001
0029AC	9680 DA5E	00A5E		4318=	OI	SPBNST+2,X'80'			00557001
0029B0	D202 9016 DA5D 00016	00A5D		4319=	MVC	22(3,R9),SPBNST+1			00558001
0029B6	47F0 C040		02820	4320=	B	CP38H			00559001
				4321=*					00560001
0029BA	1817			4322=CP38X	LR	R1,R7			00561001
0029BC	4A10 DA56		00A56	4323=	AH	R1,ONEENTRY			00562001
0029C0	4010 C1F6		029D6	4324=	STH	R1,CP38AC+2	UPDATE GENERATED CODE		00563001
0029C4	4010 C20A		029EA	4325=	STH	R1,CP38AD+2			00564001
0029C8	4010 D5F8		005F8	4326=	STH	R1,WORKPL			00565001
0029CC	4540 58BA		00902	4327=	BAL	R4,MAXCH			00566001
0029D0	4520 55A2		005EA	4328=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00567001
0029D4	50FA 0000	00000		4329=CP38AC	ST	R15,0(R10)	*** GENERATED CODE ***		00568001
0029D8	4199 0014		00014	4330=	LA	R9,20(R9)			00569001
0029DC	4540 578A		007D2	4331=	BAL	R4,OPDREC			00570001
0029E0	4890 517A		001C2	4332=	SH	R9,KH20			00571001
0029E4	4520 55A2		005EA	4333=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00572001
0029E8	58FA 0000	00000		4334=CP38AD	L	R15,0(R10)	*** GENERATED CODE ***		00573001
0029EC	4120 C350		02B30	4335=	LA	R2,CP38AE			00574001
0029F0	45E0 5588		005D0	4336=	BAL	R14,GENTXTS			00575001
0029F4	0004			4337=	DC	H'4'	GENERATE 4 BYTES		00576001
				4338=*					00577001





Active USINGS: IEX50000+X'27E0',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement	X390 3.1.04 2012/08/17 13.13
				4435=	*****	00674001
				4436=*		00675001
				4437=*	COMPILER PROGRAM - CP41	00676001
				4438=*		00677001
				4439=	*****	00678001
				4440=*		00679001
		R:C 02B54		4441=	USING CP41,R12	00680001
002B54	4140 C010		02B64	4442=CP41	LA R4,CP41A	00681001
002B58	4530 5F08		00F50	4443=	BAL R3,OPDTEST	00682001
002B5C	9104 9001	00001		4444=	TM 1(R9),X'04'	00683001
002B60	4780 C070		02BC4	4445=	BZ CP41B	00684001
002B64	D200 C04F	A000 02BA3	00000	4446=CP41A	MVC CP41C+1(1),0(R10)	00685001
002B6A	4540 5E30		00E78	4447=	BAL R4,MOVEOPTK	00686001
002B6E	D200 A000	B063 00000	00063	4448=	MVC 0(1,R10),99(R11)	00687001
002B74	5880 5194		001DC	4449=	L R11,DECAADD	00688001
002B78	4180 B122		00122	4450=	LA R11,290(,R11)	00689001
002B7C	4890 5178		001C0	4451=	SH R9,KH15	00690001
002B80	4540 5E30		00E78	4452=	BAL R4,MOVEOPTK	00691001
002B84	D200 A000	8000 00000	00000	4453=	MVC 0(1,R10),0(R8)	00692001
002B8A	9110 900F		0000F	4454=	TM 15(R9),X'10'	00693001
002B8E	4710 C07A		02BCE	4455=	BO CP41D	00694001
002B92	9108 9010	00010		4456=	TM 16(R9),X'08'	00695001
002B96	4780 C07A		02BCE	4457=	BZ CP41D	00696001
002B9A	4110 0006		00006	4458=	LA R1,6	00697001
002B9E	4121 C1D3		02D27	4459=CP41E	LA R2,CP41Z-1(R1)	00698001
002BA2	9500 2000	00000		4460=CP41C	CLI 0(R2),0	00699001
002BA6	0785			4461=	BER R5	00700001
002BA8	4610 C04A		02B9E	4462=	BCT R1,CP41E	00701001
002BAC	4540 5380		003C8	4463=	BAL R4,SERR1	00702001
002BB0	00B5			4464=	DC H'181'	00703001
				4465=*		00704001
002BB2	D204 900F	5182 0000F	001CA	4466=	MVC 15(5,R9),API	00705001
002BB8	07F5			4467=	BR R5	00706001
				4468=*		00707001
002BBA	D204 9000	5182 00000	001CA	4469=CP41G	MVC 0(5,R9),API	00708001
002BC0	47F0 C010		02B64	4470=	B CP41A	00709001
				4471=*		00710001
002BC4	4540 5318		00360	4472=CP41B	BAL R4,SERR3	00711001
002BC8	00B8			4473=	DC H'184'	00712001
				4474=*		00713001
002BCA	47F0 C066		02BBA	4475=	B CP41G	00714001
				4476=*		00715001
002BCE	9200 9005	00005		4477=CP41D	MVI 5(R9),X'00'	00716001
002BD2	D208 9006	9005 00006	00005	4478=	MVC 6(9,R9),5(R9)	00717001
002BD8	9201 900D	0000D		4479=	MVI 13(R9),X'01'	00718001
002BDC	1811			4480=	SR R1,R1	00719001
002BDE	4310 9012		00012	4481=	IC R1,18(,R9)	00720001
002BE2	8810 0004		00004	4482=	SRL R1,4	00721001
002BE6	4110 1001		00001	4483=	LA R1,1(,R1)	00722001
002BEA	4219 000C		0000C	4484=	STC R1,12(R9)	00723001
002BEE	940F 9012	00012		4485=	NI 18(R9),X'0F'	00724001
002BF2	9180 D080	00000		4486=	TM COMPFLOGS,COMPMODE	00725001
002BF6	0715			4487=	BOR R5	00726001
002BF8	9210 900B	0000B		4488=	MVI 11(R9),X'10'	00727001
002BFC	9130 9010	00010		4489=	TM 16(R9),X'30'	00728001
002C00	4780 C0C8		02C1C	4490=	BNM CP41H	00729001
002C04	4A70 DA56		00A56	4491=	AH R7,ONEENTRY	00730001
002C08	4190 900F		0000F	4492=	LA R9,15(,R9)	00731001
002C0C	4540 578A		007D2	4493=	BAL R4,OPDREC	00732001
002C10	4890 5178		001C0	4494=	SH R9,KH15	00733001
002C14	4B70 DA56		00A56	4495=	SH R7,ONEENTRY	00734001
002C18	4B70 DA56		00A56	4496=	SH R7,ONEENTRY	00735001
002C1C	9101 DA46	00A46		4497=CP41H	TM R11,X'01'	00736001
002C20	4710 C0E0		02C34	4498=	BO CP41I	00737001
002C24	41E0 0008		00008	4499=	LA R14,8	00738001
002C28	4A70 DA56		00A56	4500=	AH R7,ONEENTRY	00739001
002C2C	9601 DA46	00A46		4501=	OI R11,X'01'	00740001
002C30	47F0 C0E4		02C38	4502=	B CP41J	00741001
				4503=*		00742001
002C34	4540 5AB0		00AF8	4504=CP41I	BAL R4,ROUTINE7	00743001
002C38	4129 0005		00005	4505=CP41J	LA R2,5(R9)	00744001
002C3C	89E0 0002		00002	4506=	SLL R14,2	00745001
002C40	502E D5C0		005C0	4507=	ST R2,RUTI(R14)	00746001
002C44	89E0 0002		00002	4508=	SLL R14,2	00747001
002C48	42E0 C1CF		02D23	4509=	STC R14,CP41K+1	00748001
002C4C	4070 DA5E		00A5E	4510=	STH R7,SPBNST+2	00749001
002C50	D300 DA5E	C1CF 00A5E	02D23	4511=	MOVZ SPBNST+2(1),CP41K+1	00750001
002C56	D202 9007	DA5D 00007	00A5D	4512=	MVC 7(3,R9),SPBNST+1	00751001
002C5C	D201 9005	C1E2 00005	02D36	4513=	MVC 5(2,R9),CP41L	00752001
002C62	D400 9006	9010 00006	00010	4514=	NC 6(1,R9),16(R9)	00753001
002C68	9630 9006	00006		4515=	OI 6(R9),X'30'	00754001
002C6C	9130 9010	00010		4516=	TM 16(R9),X'30'	00755001
002C70	4740 C1C0		02D14	4517=	BM CP41M	00756001
002C74	4130 DA9F		00A9F	4518=	LA R3,CBVTAB+39	00757001
002C78	1818			4519=	LR R1,R8	00758001
002C7A	5B10 D600		00600	4520=	S R1,SOURCEB	00759001
002C7E	4010 DA5A		00A5A	4521=	STH R1,NUMBBL+1	00760001
002C82	4133 0009		00009	4522=CP41P	LA R3,9(R3)	00761001
002C86	5930 D620		00620	4523=	C R3,SUTABCA	00762001
002C8A	47D0 C156		02CAA	4524=	BNH CP41N	00763001
002C8E	5090 C1DC		02D30	4525=	ST R9,CP41Q	00764001
002C92	4190 900F		0000F	4526=	LA R9,15(,R9)	00765001
002C96	4540 593C		00984	4527=	BAL R4,ROUTINE1	00766001
002C9A	4110 0004		00004	4528=	LA R1,4	00767001
002C9E	4A10 DA6A		00A6A	4529=	AH R1,WPLACE	00768001
002CA2	4010 DA6A		00A6A	4530=	STH R1,WPLACE	00769001

Active USINGS: IEX50000+X'2B54',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002CA6	47F0 C1AC		02D00	4531=	B	CP415	00770001
				4532=*			00771001
002CAA	D502 3001 DA59 00001	00A59	02C82	4533=CP41N	CLC	1(3,R3),NUMBBL	00772001
002CB0	4770 C12E		02C82	4534=	BNE	CP41P	00773001
002CB4	D204 9000 3004 00000	00004	00004	4535=	MVC	0(5,R9),4(R3)	00774001
002CBA	9201 900E	0000E		4536=	MVI	14(R9),X'01'	00775001
002CBE	9180 9003	00003		4537=	TM	3(R9),X'80'	00776001
002CC2	4780 C176		02CCA	4538=	BZ	CP41R	00777001
002CC6	9640 D080	00080		4539=	OI	COMPFLGS,SUBSCOPT	00778001
002CCA	D202 D5F9 9000 005F9	00000	00000	4540=CP41R	MVC	WORKPL+1(3),0(R9)	00779001
002CD0	5810 D5F8	005F8		4541=	L	R1,WORKPL	00780001
002CD4	9140 1000	00000		4542=	TM	0(R1),X'40'	00781001
002CD8	4710 C1A2		02CF6	4543=	BO	CP41U	00782001
002CDC	4311 0003		00003	4544=	IC	R1,3(R1)	00783001
002CE0	8A10 0004	00004		4545=	SRA	R1,4	00784001
002CE4	4210 C19F		02CF3	4546=	STC	R1,CP41V+1	00785001
002CE8	D300 C19F C1CF 02CF3	02D23		4547=	MVZ	CP41V+1(1),CP41K+1	UPDATE GENERATED INSTRUCTION GENERATE 2 BYTES
002CEE	4520 559E	005E6		4548=	BAL	R2,GENTXT2	00787001
002CF2	1800			4549=CP41V	LR	R0,R0	*** GENERATED CODE *** 00788001
002CF4	07F5			4550=	BR	R5	RETURN TO SUBSTART 00789001
				4551=*			00790001
002CF6	5090 C1DC		02D30	4552=CP41U	ST	R9,CP41Q	00791001
002CFA	1891			4553=	LR	R9,R1	00792001
002CFC	4540 593C		00984	4554=	BAL	R4,ROUTINE1	00793001
002D00	5890 C1DC		02D30	4555=CP41S	L	R9,CP41Q	00794001
002D04	D201 C1D0 DA6A 02D24	00A6A		4556=	MVC	CP41K+2(2),WPLACE	00795001
002D0A	D300 C1D0 DA72 02D24	00A72		4557=	MVZ	CP41K+2(1),VPLACE	00796001
002D10	47F0 C1CA		02D1E	4558=	B	CP41X	00797001
				4559=*			00798001
002D14	4A70 DA56		00A56	4560=CP41M	AH	R7,ONEENTRY	00799001
002D18	D201 C1D0 C1E0 02D24	02D34		4561=	MVC	CP41K+2(2),CP41W	UPDATE GENERATED CODE GENERATE 4 BYTES
002D1E	4520 55A2	005EA		4562=CP41X	BAL	R2,GENTXT4	00801001
002D22	5800 0000	00000		4563=CP41K	L	R0,0	*** GENERATED CODE *** 00802001
002D26	07F5			4564=	BR	R5	RETURN TO SUBSTART 00803001
				4565=*			00804001
002D28	1E1F2E170629			4566=CP41Z	DC	X'1E1F2E170629'	00805001
002D2E	0000						
002D30	00000000			4567=CP41Q	DC	F'0'	SAVE AREA FOR R9 00806001
002D34	8004			4568=CP41W	DC	X'8004'	CODE UPDATES 00807001
002D36	A003			4569=CP41L	DC	X'A003'	CODE UPDATES 00808001
				4570=*			00809001
				4571=*****			00810001
				4572=*			00811001
				4573=*	END OF SOURCE RECOVERED FROM DISASMBLY		00812001
				4574=*			00813001
				4575=*****			00814001
				4576=*			00815001
				4577	COPY IEX50003	IEX50003 CONTINUATION	01933001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				4579=*		00002001
				4580=*****		00003001
				4581=*		00004001
				4582=*	COMPILER PROGRAM - CP51	00005001
				4583=*		00006001
				4584=*****		00007001
				4585=*		00008001
				4586=*	UPPER BOUND HANDLING	00009001
				4587=*	CONTEXT STATEMENT	00010001
				4588=*	SOURCE OPERATOR COMMA, RIGHT BRACKET	00011001
				4589=*	STACK OPERATOR	00012001
				4590=*	OPERANDS UPPER BOUNDARY	00013001
				4591=*	LOWER BOUNDARY IN STACK	00014001
				4592=*	ARRAY IDENTIFIER	00015001
				4593=*		00016001
				4594=*	BIT PATTERNS	00017001
				4595=*		00018001
		00003		4596=BOOTYPEM EQU X'03'	BOOLEAN TYPE MASK	00019001
		00002		4597=REALTYPM EQU X'02'	REAL TYPE	00020001
				4598=*		00021001
		R:C 02D38		4599=*	USING CP51,R12	00022001
002D38	4140 C010		02D48	4600=CP51	LA R4,EQD2	00023001
002D3C	4530 5F08		00F50	4601=	BAL R3,OPDTEST	00024001
002D40	4540 5E44		00E8C	4602=	BAL R4,TARITHM	00025001
002D44	47F0 C068		02DA0	4603=	B EQD1	00026001
				4604=*		00027001
002D48	4190 9005		00005	4605=EQD2	LA R9,5(,R9)	00028001
002D4C	9528 8000		00000	4606=EQD3	CLI 0(R8),XFRSQBR	00029001
002D50	4780 C01E		02D56	4607=	BE EQD4	00030001
002D54	06A5			4608=	BCTR R10,R5	00031001
002D56	4190 900A		0000A	4609=EQD4	LA R9,10(,R9)	00032001
002D5A	4BA0 516C		001B4	4610=	SH R10,KH2	00033001
002D5E	D201 D5F6	9000 005F6	00000	4611=	MVC KONSUM,0(R9)	00034001
002D64	4A90 D5F6		005F6	4612=	AH R9,KONSUM	00035001
002D68	4190 9005		00005	4613=ETB3	LA R9,5(,R9)	00036001
002D6C	94FE D080		00080	4614=	NI COMPLFGS,255-OPERAND	00037001
002D70	952F 8001		00001	4615=ETE3	CLI 1(R8),XFZETA	00038001
002D74	D201 5190	DA50 001D8	00A50	4616=	MVC GREGN(2),ZEROHW	00039001
002D7A	4740 C052		02D8A	4617=	BL ETF2	00040001
002D7E	4720 C060		02D98	4618=	BH ETF4	00041001
002D82	4540 5084		000CC	4619=	BAL R4,JBUFFER	00042001
002D86	47F0 C038		02D70	4620=	B ETE3	00043001
				4621=*		00044001
002D8A	4180 8001		00001	4622=ETF2	LA R8,1(,R8)	00045001
002D8E	9525 8000		00000	4623=	CLI 0(R8),XFCCOMMA	00046001
002D92	4770 5060		000A8	4624=	BNE COMP	00047001
002D96	07F5			4625=ETH2	BR R5	00048001
				4626=*		00049001
002D98	4540 5380		003C8	4627=ETF4	BAL R4,SERR1	00050001
002D9C	00BF			4628=	DC H'191'	00051001
002D9E	07F5			4629=	BR R5	00052001
				4630=*		00053001
002DA0	9180 D080		00080	4631=EQD1	TM COMPLFGS,COMPmode	00054001
002DA4	4710 C010		02D48	4632=	BO EQD2	00055001
002DA8	4540 578A		007D2	4633=	BAL R4,OPDREC	00056001
002DAC	9101 9001		00001	4634=	TM 1(R9),X'01'	00057001
002DB0	4710 C0A8		02DE0	4635=	BO EQG1	00058001
002DB4	4540 5506		0054E	4636=	BAL R4,TRREIN	00059001
				4637=*		00060001
002DB8	4A70 DA56		00A56	4638=	AH R7,ONEENTRY	00061001
002DBC	4070 D5F8		005F8	4639=	STH R7,WORKPL	00062001
002DC0	4540 58BA		00902	4640=	BAL R4,MAXCH	00063001
002DC4	4070 C096		02DCE	4641=	STH R7,EQF2+2	00064001
002DC8	4520 55A2		005EA	4642=	BAL R2,GENTXT4	00065001
002DCC	50EA 0000		00000	4643=EQF2	ST R14,0(CDSA,0)	00066001
002DD0	D201 9000	C2FE 00000	03036	4644=	MVC 0(2,R9),INTEGTYP	00067001
002DD6	4070 DA5E		00A5E	4645=	STH R7,SPBNST+2	00068001
002DDA	D202 9002	DA5D 00002	00A5D	4646=	MVC 2(3,R9),SPBNST+1	00069001
002DE0	4540 5E38		00E80	4647=EQG1	BAL R4,MOVEOPDK	00070001
002DE4	D204 9000	900A 00000	0000A	4648=	MVC 0(5,R9),10(R9)	00071001
002DEA	92C0 900A		0000A	4649=	MVI 10(R9),X'C0'	00072001
002DEE	9231 900B		0000B	4650=	MVI 11(R9),X'31'	00073001
002DF2	D200 900C	DA5D 0000C	00A5D	4651=	MVC 12(1,R9),SPBNST+1	00074001
002DF8	D201 900D	DA66 0000D	00A66	4652=	MVC 13(2,R9),USPEI2	00075001
002DFE	D201 A000	C276 00000	02FAE	4653=	MVC 0(2,R10),FORMINUS	00076001
002E04	4540 5E30		00E78	4654=	BAL R4,MOVEOPTK	00077001
002E08	5080 C280		02FB8	4655=	ST R8,HHSOURCE	00078001
002E0C	4180 C278		02FB0	4656=	LA R8,HTRICK	00079001
002E10	4180 B144		00144	4657=	LA R11,324(,R11)	00080001
002E14	5810 C284		02FBC	4658=	L R1,ADHYZB1	00081001
002E18	58C0 52B8		00300	4659=	L R12,SCPTAB+4*69	00082001
002E1C	07F1			4660=	BR R1	00083001
				4661=*		00084001
				4662=*	RETURN FROM CP20 AFTER ASSIGNMENT OF UPPER-LOWER	00085001
				4663=*	BOUNDRY+1 TO SMF	00086001
				4664=*		00087001
002E1E	5880 C280		02FB8	4665=DERE2	L R8,HHSOURCE	00088001
002E22	9104 D082		00082	4666=	TM COMPLFGS+2,NOTEST	00089001
002E26	4710 C0FA		02E32	4667=	BO ERE2	00090001
				4668=*		00091001
002E2A	4520 55A2		005EA	4669=	BAL R2,GENTXT4	00092001
002E2E	4700 D208		00208	4670=	BNH ARRAYBD(,FSA)	00093001
002E32	4810 DA66		00A66	4671=ERE2	LH R1,USPEI2	00094001
002E36	4110 1004		00004	4672=	LA R1,4(,R1)	00095001
002E3A	4010 DA66		00A66	4673=	STH R1,USPEI2	00096001
002E3E	9525 8000		00000	4674=	CLI 0(R8),XFCCOMMA	00097001



Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
002E42	4770 C128		02E60	4675=	BNE	ERE3	NO		00098001
002E46	D201 9000 C2FE 00000		03036	4676=	MVC	0(2,R9),INTEGTYP	OPERAND INTEGER VALUE		00099001
002E4C	4A70 DA56		00A56	4677=	AH	R7,ONEENTRY			00100001
002E50	4070 DA5E		00A5E	4678=	STH	R7,SPBNST+2	CURRENT PBN AND NEXT OBJECT		00101001
002E54	D202 9002 DA5D 00002		00A5D	4679=	MVC	2(3,R9),SPBNST+1	TIME STACK DISPLACEMENT TO		00102001
002E5A	4B70 DA56		00A56	4680=	SH	R7,ONEENTRY	OPERAND IN STACK		00103001
002E5E	07F5			4681=	BR	R5	SCAN TO NEXT OPERATOR		00104001
				4682=*					00105001
				4683=*		LAST BOUND PAIR IN THIS ARRAY			00106001
				4684=*					00107001
002E60	4190 9005		00005	4685=	ERE3	LA R9,5(,R9)	REMOVE ONE OPERAND		00108001
002E64	9201 C153	02E8B		4686=	MVI	ERJ4+3,X'01'	DETERMINE AND INSERT		00109001
002E68	9103 9001	00001		4687=	TM	1(R9),BOOTYPEM	Z=8,4 OR 1 INTO		00110001
002E6C	4710 C14A		02E82	4688=	BO	ERJ41	LOAD		00111001
002E70	D201 C152 DA56 02E8A		00A56	4689=	MVC	ERJ4+2(2),ONEENTRY	GPRA		00112001
002E76	9102 9001	00001		4690=	TM	1(R9),REALTYPM	INSTRUCTION		00113001
002E7A	4710 C14A		02E82	4691=	BO	ERJ41			00114001
002E7E	9204 C153	02E8B		4692=	MVI	ERJ4+3,X'04'	UPDATE GENERATED CODE		00115001
002E82	4520 55A6		005EE	4693=	ERJ41	BAL R2,GENTXT6	GENERATE 6 BYTES		00116001
				4694=*			*** GENERATED CODE ***		00117001
002E86	1B66			4695=	SR	GPRC,GPRC	CLEAR REG		00118001
002E88	4130 0000		00000	4696=	ERJ4	LA GPRA,0(0,0)	LOAD GPRA INSTRUCTION		00119001
				4697=*			*** GENERATED CODE ***		00120001
002E8C	1B11			4698=	SR	R1,R1	CALCULATE		00121001
002E8E	4310 DA69		00A69	4699=	IC	R1,USPEI4+1	LENGTH OF SMF P-PART		00122001
002E92	4210 C267	02F9F		4700=	STC	R1,ESE4+1	NUMBER OF SUBSCRIPTS TO CODE		00123001
002E96	4110 1001	00001		4701=	LA	R1,1,(R1)			00124001
002E9A	8910 0002	00002		4702=	SLL	R1,2	INSERT		00125001
002E9E	0610			4703=	BCTR	R1,0	IN CODE FOR COPY OF		00126001
002EA0	4210 C233	02F6B		4704=	STC	R1,ESF4+1	SMF		00127001
002EA4	4810 DA66	00A66		4705=	ESB1	LH R1,USPEI2			00128001
002EA8	4010 C186	02EBE		4706=	STH	R1,ESD1+2	DISP IN SMF TO INSTRUCTION		00129001
002EAC	4B10 516E	001B6		4707=	SH	R1,KH4	NEXT ENTRY IN SMF		00130001
002E80	4010 DA66	00A66		4708=	STH	R1,USPEI2	CALCULATED DOWNWARDS		00131001
002EB4	4010 C274	02FAC		4709=	STH	R1,ESK1+2	INSERT IN CODE		00132001
002EB8	4520 55A2	005EA		4710=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00133001
002EBC	503A 0000	00000		4711=	ESD1	ST GPRA,0(CDSA,0)	*** GEN CODE *** STORE OF P(4)		00134001
002EC0	4810 DA68	00A68		4712=	LH	R1,USPEI4	REDUCE DIMENSION		00135001
002EC4	0610			4713=	BCTR	R1,0	COUNT		00136001
002EC6	1211			4714=	LTR	R1,R1	CODE FOR LAST ENTRY P(1) GEN ?		00137001
002EC8	4740 C1AE	02EE6		4715=	BL	ESC2	YES		00138001
002ECC	4010 DA68	00A68		4716=	STH	R1,USPEI4	STORE DIMENSION VALUE		00139001
002ED0	4070 C26E	02FA6		4717=	STH	R7,ESH1+2	INSERT DISPL OF LOWER BOUND		00140001
002ED4	4B70 DA56	00A56		4718=	SH	R7,ONEENTRY	RELEASE OBJECT TIME STACK		00141001
002ED8	4120 C26A	02FA2		4719=	LA	R2,ESE1	GENERATE CODE FOR		00142001
002EDC	45E0 5588	005D0		4720=	BAL	R14,GENTXTS	DETERMINE OF SMF		00143001
002EE0	000C			4721=	DC	H'12'	GENERATE 12 BYTES		00144001
				4722=*					00145001
002EE2	47F0 C16C	02EA4		4723=	B	ESB1	CONTINUE TO NEXT ENTRY IN SMF		00146001
				4724=*					00147001
002EE6	4190 9005		00005	4725=	ESC2	LA R9,5(,R9)	REMOVE ARRAY IDENTIFIER		00148001
002EEA	06A0			4726=	BCTR	R10,0	REMOVE ARRAY OPERATOR		00149001
002EEC	D201 DA68 9000 00A68 00000		00000	4727=	MVC	USPEI4(2),0(R9)	NUMBER OF PREVIOUSLY		00150001
				4728=*			STACKED ARRAY IDENT TO WORKAR		00151001
002EF2	48E0 DA66	00A66		4729=	ESE21	LH R14,USPEI2			00152001
002EF6	40E0 C256	02F8E		4730=	ESE22	STH R14,ESE3+2	SMF DISPL FOR LAST ELEMENT+1		00153001
002EFA	48E0 516E	001B6		4731=	SH	R14,KH4			00154001
002EFE	40E0 C248	02F80		4732=	STH	R14,ESJ2+2	SMF DISPL FOR FIRST ELEMENT		00155001
002F02	48E0 516E	001B6		4733=	SH	R14,KH4			00156001
002F06	40E0 C250	02F88		4734=	STH	R14,ESC3+2	SMF DISPL FOR ZERO ELEMENT		00157001
002F0A	48E0 516E	001B6		4735=	SH	R14,KH4	SMF DISPL FOR START OF SMF		00158001
002F0E	40E0 C260	02F98		4736=	STH	R14,ESE5+8	TO CODE		00159001
002F12	40E0 C25A	02F92		4737=	STH	R14,ESE5+2			00160001
002F16	D300 C25A C25C 02F92	02F94		4738=	MVZ	ESE5+2(1),ESE5+4			00161001
002F1C	D201 C268 C25A 02FA0	02F92		4739=	MVC	ESE4+2(2),ESE5+2			00162001
002F22	4120 C240	02F78		4740=	LA	R2,ESE2	GENERATE CODE FOR RESERVATION		00163001
002F26	45E0 5588	005D0		4741=	BAL	R14,GENTXTS	OF MAIN STORAGE FOR ARRAY		00164001
002F2A	002A			4742=	DC	Y(ESE4-ESE2+4)	LENGTH OF GENERATED CODE		00165001
				4743=*			STACKED ARRAY IDENT TO WORKAREA		00166001
002F2C	4810 DA68	00A68		4744=	LH	R1,USPEI4	ANY ARRAY IDENT WITH SAME		00167001
002F30	4B10 5170	001B8		4745=	SH	R1,KH5	DIMENSIONS LEFT IN STACK ?		00168001
002F34	4740 C030	02D68		4746=	BM	ETB3	NO		00169001
002F38	4010 DA68	00A68		4747=	STH	R1,USPEI4	SAVE NUMBER OF ARRAYS LEFT		00170001
002F3C	4190 9005	00005		4748=	LA	R9,5(,R9)	CLEAR OPERAND		00171001
002F40	D401 C236 DA54 02F6E	00A54		4749=	NC	ESF4+4(2),CLEARDIS	SMF+16 OF ORIGINAL ARRAY		00172001
002F46	D601 C236 C186 02F6E	02EBE		4750=	OC	ESF4+4(2),ESD1+2	INSERTED AS DISPLACEMENT		00173001
002F4C	D201 D5F8 9003 005F8 00003		00003	4751=	MVC	WORKPL(2),3(R9)			00174001
002F52	940F D5F8 005F8		005F8	4752=	NI	WORKPL,X'0F'			00175001
002F56	4810 D5F8	005F8		4753=	LH	R1,WORKPL			00176001
002F5A	41E0 1010	00010		4754=	LA	R14,16(,R1)			00177001
002F5E	40E0 C234	02F6C		4755=	STH	R14,ESF4+2	NEW SMF DISP +16		00178001
002F62	96A0 C234	02F6C		4756=	OI	ESF4+2,CDSA*16	REGISTER CDSA TO CODE		00179001
002F66	4520 55A6	005EE		4757=	BAL	R2,GENTXT6	GENERATE 6 BYTES		00180001
002F6A	D200 A000 A000 00000		00000	4758=	ESF4	MVC 0(0,CDSA),0(CDSA)	*** GENERATED CODE ***		00181001
002F70	4B0E 516E	001B6		4759=	SH	R14,KH4	NEW USPEI4 TO R1=SMF-DISP+12		00182001
002F74	47F0 C1BE	02EF6		4760=	B	ESE22			00183001
				4761=*					00184001
				4762=*		CODE FOR RESERVATION OF MAIN STORAGE FOR ARRAY			00185001
				4763=*					00186001
002F78	1803			4764=	ESE2	LR 0,GPRA	*** GENERATED CODE ***		00187001
002F7A	458D 0114	00114		4765=	BAL	ADR,GETMSTO(FSA)	CALL GETMAIN ROUTINE IN FSA		00188001
002F7E	501A 0000	00000		4766=	ESJ2	ST 1,0(CDSA,0)			00189001
002F82	18E1			4767=	LR	R14,1			00190001
002F84	1B16			4768=	SR	1,GPRC			00191001
002F86	501A 0000	00000		4769=	ESC3	ST 1,0(CDSA,0)			00192001
002F8A	1AE3			4770=	AR	R14,GPRA			00193001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
002F8C	50EA 0000		00000	4771=ESE3	ST	R14,0(CDSA,0)	00194001
002F90	D203 A000 A00C	00000	0000C	4772=ESE5	MVC	0(4,CDSA),12(CDSA)	00195001
002F96	4180 0000		00000	4773=	LA	ADR,0(0)	00196001
002F9A	508A 000C		0000C	4774=	ST	ADR,12(CDSA)	00197001
002F9E	9200 A000	00000		4775=ESE4	MVI	0(CDSA),0	00198001
002FA2	1853			4776=ESE1	LR	GPRB,GPRA	00199001
002FA4	5C4A 0000		00000	4777=ESH1	M	GPRB-1,0(CDSA,0)	00200001
002FA8	1A65			4778=	AR	GPRC,GPRB	00201001
002FAA	5C2A 0000		00000	4779=ESK1	M	GPRA-1,0(CDSA,0)	00202001
				4780=*			00203001
				4781=*		CONSTANTS AND VARIABLES	00204001
				4782=*			00205001
002FAE	2D01			4783=FORMINUS	DC	X'2D01'	00206001
002FB0	00			4784=HTRICK	DC	X'00'	00207001
002FB1	C801000004			4785=	DC	X'C801000004'	00208001
002FB6	1C			4786=	DC	X'1C'	00209001
002FB7	00						
002FB8	00000000			4787=HHSOURCE	DC	F'0'	00210001
002FBC	000058C4			4788=ADDHZB1	DC	A(DHZB1)	00211001
				4789=*			00212001
				4790=*			00213001
				4791=*			00214001
				4792=*		COMPILER PROGRAM - CP52	00215001
				4793=*			00216001
				4794=*			00217001
				4795=*			00218001
				4796=*		ARRAY DECLARATION, BEGINNING	00219001
				4797=*		CONTEXT STATEMENT	00220001
				4798=*		SOURCE OPERATOR LEFT BRACKET, COMMA	00221001
				4799=*		STACK OPERATOR ARRAY	00222001
				4800=*		OPERAND ARRAY IDENTIFIER	00223001
				4801=*			00224001
				4802=	USING	CP52,R12	00225001
002FC0	9525 8000	R:C 02FC0	00000	4803=CP52	CLI	0(R8),XFCOMMA	00226001
002FC4	4770 C016		02FD6	4804=	BNE	EWf1	00227001
002FC8	48E0 5190		001D8	4805=	LH	R14,GREGN	00228001
002FCC	41EE 0005		00005	4806=	LA	R14,5(R14)	00229001
002FD0	40E0 5190		001D8	4807=	STH	R14,GREGN	00230001
002FD4	07F5			4808=	BR	R5	00231001
				4809=*		RETURN TO SUBSTART	00232001
002FD6	4540 5E30		00E78	4810=EWf1	BAL	R4,MOVEOPTK	00233001
002FDA	922C A000		00000	4811=	MVI	0(R10),X'2C'	00234001
002FDE	4890 5176		001BE	4812=	SH	R9,KH10	00235001
002FE2	19A9			4813=	CR	R10,R9	00236001
002FE4	47B0 53E0		00428	4814=	BNL	STACKOFL	00237001
002FEB	D204 9005 900A	00005	0000A	4815=	MVC	5(5,R9),10(R9)	00238001
002FEE	D201 900A 5190	0000A	001D8	4816=	MVC	10(2,R9),GREGN	00239001
				4817=*		NUMBER OF ARRAY IDENTIFIERS-1	00240001
				4818=*		TO OPERAND STACK	00241001
				4819=*			00242001
				4820=*		CALCULATE AND SAVE NUMBER OF SUBSCRIPTS IN USPEI4	00243001
002FF4	1B11			4821=	SR	R1,R1	00244001
002FF6	4319 0008		00008	4822=	IC	R1,8(R9)	00245001
002FFA	8810 0004		00004	4823=	SRL	R1,4	00246001
002FFE	4111 0001		00001	4824=	LA	R1,1(R1)	00247001
003002	4010 DA68		00A68	4825=	STH	R1,USPEI4	00248001
				4826=*			00249001
				4827=*		CALCULATE AND SAVE SMF DISPL +16 IN USPEI2	00250001
				4828=*			00251001
003006	D201 DA66 9008	00A66	00008	4829=	MVC	USPEI2(2),8(R9)	00252001
00300C	940F DA66		00A66	4830=	NI	USPEI2,X'0F'	00253001
003010	4810 DA66		00A66	4831=	LH	R1,USPEI2	00254001
003014	4111 0010		00010	4832=	LA	R1,16(R1)	00255001
003018	4010 DA66		00A66	4833=	STH	R1,USPEI2	00256001
00301C	D201 9000 C076	00000	00306	4834=	MVC	0(2,R9),INTEGTYP	00257001
003022	4A70 DA56		00A56	4835=	AH	R7,ONEENTRY	00258001
003026	4070 DA5E		00A5E	4836=	STH	R7,SPBNST+2	00259001
00302A	D202 9002 DA5D	00002	00A5D	4837=	MVC	2(3,R9),SPBNST+1	00260001
003030	4B70 DA56		00A56	4838=	SH	R7,ONEENTRY	00261001
003034	07F5			4839=	BR	R5	00262001
				4840=*			00263001
				4841=*		CONSTANTS AND VARIABLES	00264001
				4842=*			00265001
003036	4031			4843=INTEGTYP	DC	X'4031'	00266001
				4844=*		INTEGER TYPE VARIABLE	00267001
				4845=*			00268001
				4846=*			00269001
				4847=*		COMPILER PROGRAM - CP54	00270001
				4848=*			00271001
				4849=*			00272001
				4850=*			00273001
				4851=*		ARRAY DECLARATION, TERMINATION	00274001
				4852=*		CONTEXT STATEMENT	00275001
				4853=*		SOURCE OPERATOR DELTA	00276001
				4854=*		STACK OPERATOR ARRAY	00277001
				4855=*		OPERAND NONE	00278001
				4856=*			00279001
				4857=	USING	CP54,R12	00280001
003038	9101 D080	R:C 03038	00080	4858=CP54	TM	COMPLGLS,OPERAND	00281001
00303C	4710 C014		0304C	4859=	BO	FAC2	00282001
003040	06A0			4860=FAE2	BCTR	R10,0	00283001
003042	4540 590C		00954	4861=	BAL	R4,SCHDL	00284001
003046	4BB0 517C		001C4	4862=	SH	R11,KH290	00285001
00304A	07F5			4863=	BR	R5	00286001
				4864=*		RETURN TO SUBSTART	00287001
00304C	4540 5304		0034C	4865=FAC2	BAL	R4,SERR4	00288001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
003050	00A4			4866=	DC	H'164'	ERROR 164		00289001
003052	4190 9005		00005	4867=	LA	R9,5(,R9)	CLOPD		00290001
003056	47F0 C008		03040	4868=	B	FAE2			00291001
				4869=*					00292001
				4870=	*****				00293001
				4871=*					00294001
				4872=*	COMPILER PROGRAM - CP56				00295001
				4873=*					00296001
				4874=	*****				00297001
				4875=*					00298001
				4876=*	DESIGNATIONAL EXPRESSIONS				00299001
				4877=*	CONTEXT	STATEMENT			00300001
				4878=*	SOURCE OPERATOR	(			00301001
				4879=*	STACK OPERATOR	GOTO, SWITCH =			00302001
				4880=*	OPERAND	NONE			00303001
				4881=*					00304001
		R:C 0305A		4882=	USING	CP56,R12			00305001
00305A	9101 D080		00080	4883=CP56	TM	COMPFLGS,OPERAND	OPDT		00306001
00305E	4710 C018		03072	4884=	BO	FEB2			00307001
003062	41B0 B144		00144	4885=FEC1	LA	R11,324(,R11)	CSW(EXP)		00308001
003066	4540 5E30		00E78	4886=	BAL	R4,MOVEOPTK	OPTH(SOURCE)		00309001
00306A	D200 A000 8000 00000		00000	4887=	MVC	0(1,R10),0(R8)			00310001
003070	07F5			4888=	BR	R5	RETURN TO SUBSTART		00311001
				4889=*					00312001
003072	4540 5304		0034C	4890=FEB2	BAL	R4,SERR4			00313001
003076	00A4			4891=	DC	H'164'	ERROR 164		00314001
003078	4190 9005		00005	4892=	LA	R9,5(,R9)	CLOPD		00315001
00307C	94FE D080		00080	4893=	NI	COMPFLGS,255-OPERAND	RESET OPERAND		00316001
003080	47F0 C008		03062	4894=	B	FEC1			00317001
				4895=*					00318001
				4896=	*****				00319001
				4897=*					00320001
				4898=*	COMPILER PROGRAM - CP59				00321001
				4899=*					00322001
				4900=	*****				00323001
				4901=*					00324001
				4902=*	SWITCH LIST HANDLING				00325001
				4903=*	CONTEXT	STATEMENT			00326001
				4904=*	SOURCE OPERATOR	COMMA, DELTA			00327001
				4905=*	STACK OPERATOR	SWITCH =			00328001
				4906=*	OPERANDS	DESIGNATIONAL OPERAND (NTH PARAMETER)			00329001
				4907=*		PARAMETERCOUNT AND PRPOINT (N-1 ENTRIES)			00330001
				4908=*		SWITCH IDENTIFIER			00331001
				4909=*		LABEL OPERAND			00332001
				4910=*					00333001
		R:C 03084		4911=	USING	CP59,R12			00334001
003084	4140 C082		03106	4912=CP59	LA	R4,FKJ2	RETURN IF OPERAND MISSING		00335001
003088	4530 5F08		00F50	4913=	BAL	R3,OPDTEST	OPERAND TEST		00336001
00308C	9108 9001		00001	4914=	TM	1(R9),X'08'	OPERAND A LABEL ?		00337001
003090	4780 C168		031EC	4915=	BZ	FKC2	NO, BRANCH TO ERROR 175		00338001
003094	9110 9000		00000	4916=	TM	0(R9),APIMASK			00339001
003098	4710 C082		03106	4917=	BO	FKJ2	SWITCH IDENTIFIER ?		00340001
00309C	9104 9001		00001	4918=	TM	1(R9),X'04'	YES, ERROR		00341001
0030A0	4710 C168		031EC	4919=	BO	FKC2	SYNTAX CHECK MODE ?		00342001
0030A4	9180 D080		00080	4920=	TM	COMPFLGS,COMPmode	YES, BRANCH		00343001
0030A8	4710 C082		03106	4921=	BO	FKJ2	OPERAND RECOGNIZER		00344001
0030AC	4540 578A		007D2	4922=	BAL	R4,OPDREC	DESIGNATIONAL EXPRESSION ?		00345001
0030B0	9180 9003		00003	4923=	TM	3(R9),ADR*16	YES, BRANCH		00346001
0030B4	4710 C154		031D8	4924=	BO	FKH2			00347001
				4925=*					00348001
				4926=*	GENERATE LLC (LOAD LABEL COMMON)				00349001
				4927=*					00350001
0030B8	D100 C046 9003 030CA		00003	4928=	MVN	FKG15+2(1),3(R9)			00351001
0030BE	D200 C047 9004 030CB		00004	4929=	MVC	FKG15+3(1),4(R9)			00352001
0030C4	4520 55A2		005EA	4930=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00353001
0030C8	588C 0000		00000	4931=FKG15	L	ADR,0(LAT)	*** GENERATED CODE ***		00354001
0030CC	1BFF			4932=	SR	R15,R15			00355001
0030CE	43F0 9002		00002	4933=	IC	R15,2(,R9)			00356001
0030D2	49F0 DA5C		00A5C	4934=	CH	R15,SPBNST	CURRENT BLOCK ?		00357001
0030D6	4770 C060		030E4	4935=	BNE	FKG14	NO		00358001
0030DA	4520 559E		005E6	4936=	BAL	R2,GENTXT2	GENERATE 2 BYTES		00359001
				4937=*			LOAD GDSA WITH CDSA		00360001
0030DE	189A			4938=	LR	GDSA,CDSA	*** GENERATED CODE ***		00361001
0030E0	47F0 C070		030F4	4939=	B	FKH1			00362001
				4940=*					00363001
0030E4	89F0 0003		00003	4941=FKG14	SLL	R15,3			00364001
0030E8	40F0 C06E		030F2	4942=	STH	R15,FKG16+2			00365001
0030EC	4520 55A2		005EA	4943=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00366001
0030F0	589B 0000		00000	4944=FKG16	L	GDSA,0(PBT)	*** GENERATED CODE ***		00367001
0030F4	4520 55A2		005EA	4945=FKH1	BAL	R2,GENTXT4	GENERATE 4 BYTES		00368001
				4946=*			GENERATE BRANCH TO CSWE ROUTINE		00369001
0030F8	47FD 00F8		000F8	4947=	B	CSWE2(FSA)	*** GENERATED CODE ***		00370001
				4948=*					00371001
0030FC	5060 D5F8		005F8	4949=	ST	R6,WORKPL	NEXT THUNK ADDR		00372001
003100	D202 9002 D5F9 00002		005F9	4950=	MVC	2(3,R9),WORKPL+1	TO OPERAND STCK		00373001
003106	43F0 9006		00006	4951=FKJ2	IC	R15,6(,R9)			00374001
00310A	41F0 F005		00005	4952=	LA	R15,5(,R15)	UPDATE SLSWE		00375001
00310E	42F0 9001		00001	4953=	STC	R15,1(,R9)	STORE IN STACK		00376001
003112	9200 9000		00000	4954=	MVI	0(R9),0			00377001
003116	9529 8000		00000	4955=	CLI	0(R8),XFDELTA	OPERATOR DELTA ?		00378001
00311A	0775			4956=	BNER	R5	NO, BRANCH TO SUBSTART		00379001
00311C	1BFF			4957=FKF3	SR	R15,R15			00380001
00311E	43F0 9001		00001	4958=	IC	R15,1(,R9)	R15 = NR OF ELEMENTS * 5		00381001
003122	41FF 9005		00005	4959=	LA	R15,5(R15,R9)	R15 POINTS AT SWITCH ID		00382001
003126	50F0 D5F8		005F8	4960=	ST	R15,WORKPL			00383001
00312A	50F0 C178		031FC	4961=	ST	R15,STENTRY			00384001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
00312E	D201 DA64 F003	00A64	00003	4962=	MVC	HALFW,3(R15)	GET		00385001
003134	48E0 DA64	00A64		4963=	LH	R14,HALFW	LABEL		00386001
003138	54E0 5198		001E0	4964=	N	R14,HEXFFF	NUMBER		00387001
00313C	5AE0 D61C		0061C	4965=	A	R14,LATAB	GET LAT ENTRY OF SWITCH		00388001
003140	5060 E000		00000	4966=	ST	R6,0(R14)	STORE PRPOINT IN LAT		00389001
003144	1B11			4967=FKF41	SR	R1,R1			00390001
003146	4310 F003		00003	4968=	IC	R1,3(R15)	GET		00391001
00314A	8810 0004		00004	4969=	SRL	R1,4	ELEMENT		00392001
00314E	4110 1001		00001	4970=	LA	R1,1(,R1)	COUNT		00393001
003152	4010 C0EA		0316E	4971=	STH	R1,FKF42+2	STORE IN GENERATED CODE		00394001
003156	9102 E003	00003		4972=	TM	3(R14),X'02'	LIST ON WORD BOUNDRY ?		00395001
00315A	4780 C0E4		03168	4973=	BZ	FKF42A	YES		00396001
00315E	4520 559E		005E6	4974=	BAL	R2,GENTXT2	GENERATE 2 BYTES		00397001
003162	0700			4975=	NOPR	0	*** GENERATED CODE ***		00398001
003164	506E 0000		00000	4976=	ST	R6,0(R14)	ADJUST LAT ENTRY		00399001
003168	4520 55A2		005EA	4977=FKF42A	BAL	R2,GENTXT4	GENERATE 4 BYTES		00400001
				4978=*			GENERATE ELEMENT COUNT		00401001
00316C	00000000			4979=FKF42	DC	H'0',H'0'	*** GENERATED CODE ***		00402001
003170	D201 DA64 9000	00A64	00000	4980=	MVC	HALFW,0(R9)	INITIALIZE PARAM COUNT		00403001
				4981=*					00404001
				4982=*		GENERATE ONE THUNK ADDR			00405001
				4983=*					00406001
003176	58F0 C178		031FC	4984=FKF45	L	R15,STENTRY			00407001
00317A	48F0 5170		001B8	4985=	SH	R15,KH5			00408001
00317E	50F0 C178		031FC	4986=	ST	R15,STENTRY			00409001
003182	5060 C17C		03200	4987=	ST	R6,FKF48	SAVE PRPOINT		00410001
003186	D202 C10D F002	03191	00002	4988=	MVC	FKF46+1(3),2(R15)			00411001
00318C				4989=	CNOP	0,4			00412001
00318C	4520 55A2		005EA	4990=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00413001
003190	00000000			4991=FKF46	DC	F'0'	*** GENERATED CODE ***		00414001
003194	5820 C17C		03200	4992=	L	R2,FKF48			00415001
003198	45E0 5574		005BC	4993=	BAL	R14,GENRLD	GENERATE RLD RECORD		00416001
00319C	0004			4994=	DC	H'4'			00417001
00319E	0001			4995=	DC	H'1'			00418001
0031A0	0001			4996=	DC	H'1'			00419001
				4997=*					00420001
0031A2	48F0 DA64		00A64	4998=	LH	R15,HALFW	DECREASE		00421001
0031A6	48F0 5170		001B8	4999=	SH	R15,KH5	PARAM		00422001
0031AA	40F0 DA64		00A64	5000=	STH	R15,HALFW	COUNT		00423001
0031AE	4720 C0F2		03176	5001=	BP	FKF45	COUNT ~ ZERO, BRANCH		00424001
0031B2	58F0 D5F8		005F8	5002=	L	R15,WORKPL			00425001
0031B6	4190 F00F		0000F	5003=	LA	R9,15(,R15)	CLEAR OPERAND STACK		00426001
0031BA	D201 DA64 F008	00A64	00008	5004=	MVC	HALFW,8(R15)	GET		00427001
0031C0	48F0 DA64		00A64	5005=	LH	R15,HALFW	LAT		00428001
0031C4	5AF0 D61C		0061C	5006=	A	R15,LATAB	ENTRY		00429001
0031C8	506F 0000		00000	5007=	ST	R6,0(R15)	STORE PRPOINT IN LAT		00430001
0031CC	06A0			5008=	BCTR	R10,0	CLOPT		00431001
0031CE	4540 590C		00954	5009=	BAL	R4,SCHDL	SEMIC COUNTER HANDLING		00432001
0031D2	5880 5194		001DC	5010=	L	R11,DECAADD	SWITCH TO PROGRAM CONTEXT		00433001
0031D6	07F5			5011=	BR	R5	RETURN TO SUBSTART		00434001
				5012=*					00435001
0031D8	4B70 DA56		00A56	5013=FKH2	SH	R7,ONEENTRY			00436001
0031DC	9200 DA46	00A46		5014=	MVI	RII,0	REGISTER ADR FREE		00437001
0031E0	47F0 C070		030F4	5015=	B	FKH1			00438001
				5016=*					00439001
0031E4	4540 5D02		00D4A	5017=FKB25	BAL	R4,STACKAPI	INTRODUCE API		00440001
0031E8	47F0 C082		03106	5018=	B	FKJ2			00441001
				5019=*					00442001
0031EC	4540 5310		00358	5020=FKC2	BAL	R4,SERR2			00443001
0031F0	00AF			5021=	DC	H'175'	ERROR 175		00444001
0031F2	4199 0005		00005	5022=	LA	R9,5(R9)	PREPARE FOR INSERTING API		00445001
0031F6	47F0 C160		031E4	5023=	B	FKB25			00446001
				5024=*					00447001
				5025=*		WORKAREAS			00448001
				5026=*					00449001
0031FA	0000								
0031FC	00000000			5027=STENTRY	DC	F'0'	WORK AREA		00450001
003200	00000000			5028=FKF48	DC	F'0'			00451001
				5029=*					00452001
				5030=*****					00453001
				5031=*					00454001
				5032=*		COMPILER PROGRAM - CP62			00455001
				5033=*					00456001
				5034=*****					00457001
				5035=*					00458001
				5036=*	GOTO	STATEMENT			00459001
				5037=*	CONTEXT	STATEMENT			00460001
				5038=*	SOURCE OPERATOR	EPSILON, ETA, ;, END, ELSE			00461001
				5039=*	STACK OPERATOR	GOTO			00462001
				5040=*	OPERAND	DESIGNATIONAL OPERAND			00463001
				5041=*					00464001
		R:C	03204	5042=	USING	CP62,R12			00465001
003204	4140 C07E		03282	5043=CP62	LA	R4,FXJ1	RETURN IF OPERAND MISSING		00466001
003208	4530 5F08		00F50	5044=	BAL	R3,OPDTEST	OPERAND TEST		00467001
00320C	9108 9001	00001		5045=	TM	1(R9),X'08'	OPD LABEL ?		00468001
003210	4780 C08E		03292	5046=	BZ	FXC2	NO, BRANCH		00469001
003214	9104 9001	00001		5047=	TM	1(R9),X'04'			00470001
003218	4710 C08E		03292	5048=	BO	FXC2			00471001
00321C	9180 D080	00080		5049=	TM	COMPLG5,COMPmode	SYNTAX CHECK MODE ?		00472001
003220	4710 C07E		03282	5050=	BO	FXJ1	YES, BRANCH		00473001
003224	4540 578A		007D2	5051=	BAL	R4,OPDREC			00474001
003228	9180 9003	00003		5052=	TM	3(R9),ADR*16	DESIGNATIONAL EXPRESSION ?		00475001
00322C	4710 C0A0		032A4	5053=	BO	FXE4	YES, BRANCH		00476001
003230	D500 DA5D 9002	00ASD	00002	5054=	CLC	SPBNST+1(1),2(R9)	CURRENT PBN ?		00477001
003236	4770 C050		03254	5055=	BNE	FXG3	NO, BRANCH		00478001
00323A	D100 C048 9003	0324C	00003	5056=	MVN	FXH15+2(1),3(R9)			00479001

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
003240	D200 C049	9004	0324D	00004	5057=	MVC FXH15+3(1),4(R9)	00480001
003246	4520 55A6			005EE	5058=	BAL R2,GENTXT6	00481001
					5059=*	GENERATE 6 BYTES	00482001
						GENERATE BRANCH TO LABEL	00483001
00324A	58FC 0000			00000	5060=FXH15	L BRR,0(LAT)	00484001
00324E	07FF				5061=	BRR	00485001
003250	47F0 C07E			03282	5062=	B FXJ1	00486001
					5063=*		00487001
					5064=*	GENERATE LLC (LOAD LABEL COMMON)	00488001
					5065=*		00489001
00325A	D100 C062	9003	03266	00003	5066=FXG3	MVN FXG35+2(1),3(R9)	00490001
00325A	D200 C063	9004	03267	00004	5067=	MVC FXG35+3(1),4(R9)	00491001
003260	4520 55A2			005EA	5068=	BAL R2,GENTXT4	00492001
00326A	588C 0000			00000	5069=FXG35	L ADR,0(LAT)	00493001
003268	1BFF				5070=	SR R15,R15	00494001
00326A	43F9 0002			00002	5071=	IC R15,2(R9)	00495001
00326E	89F0 0003			00003	5072=	SLL R15,3	00496001
003272	40F0 C078			0327C	5073=	STH R15,FXG36+2	00497001
003276	4520 55A2			005EA	5074=	BAL R2,GENTXT4	00498001
00327A	589B 0000			00000	5075=FXG36	L GDSA,0(PBT)	00499001
00327E	47F0 C0A8			032AC	5076=	B FXH2	00500001
					5077=*		00501001
003282	4190 9005			00005	5078=FXJ1	LA R9,5(,R9)	00502001
003286	94FE D080		00080		5079=	NI COMPFGLS,255-OPERAND	00503001
00328A	92FF DA61		00A61		5080=	MVI GPBN+1,X'FF'	00504001
00328E	46A0 5060			000A8	5081=	BCT R10,COMP	00505001
003292	9110 9000			00000	5082=FXC2	TM 0(R9),APIMASK	00506001
003296	4710 C07E			03282	5083=	BO FXJ1	00507001
00329A	4540 5310			00358	5084=	BAL R4,SERR2	00508001
00329E	00AF				5085=	DC H'175'	00509001
					5086=*	ERROR 175	00510001
0032A0	47F0 C07E			03282	5087=	B FXJ1	00511001
					5088=*		00512001
0032A4	4B70 DA56			00A56	5089=FXE4	SH R7,ONEENTRY	00513001
0032A8	9701 DA46		00A46		5090=	XI RII,RIIADRM	00514001
					5091=*		00515001
					5092=*	GENERATE UNCONDITIONAL JUMP TO COMMON LABEL 'UJTCL'	00516001
					5093=*		00517001
0032AC	4520 55A2			005EA	5094=FXH2	BAL R2,GENTXT4	00518001
0032B0	47FD 00E4			000E4	5095=	B RETPROG(FSA)	00519001
0032B4	47F0 C07E			03282	5096=	B FXJ1	00520001
					5097=*		00521001
					5098=	*****	00522001
					5099=*		00523001
					5100=*	COMPILER PROGRAM - CP85	00524001
					5101=*		00525001
					5102=	*****	00526001
					5103=*		00527001
					5104=*	BEGIN OF SWITCH LIST	00528001
					5105=*	CONTEXT	00529001
					5106=*	SOURCE OPERATOR	00530001
					5107=*	STACK OPERATOR	00531001
					5108=*	OPERANDS	00532001
					5109=*		00533001
					5110=*		00534001
					5111=*		00535001
					5112=	USING CP85,R12	00536001
0032B8	4540 5E38			R:C 032B8	5113=CP85	BAL R4,MOVEOPDK	00537001
0032BC	D201 9000			00E80	5114=	MVC 0(2,R9),ZEROHW	00538001
0032C2	5060 D5F8			005F8	5115=	ST R6,WORKPL	00539001
0032C6	D202 9002			D5F9 00002	5116=	MVC 2(3,R9),WORKPL+1	00540001
0032CC	58B0 519C			001E4	5117=	L R11,STC	00541001
0032D0	D201 900D			D0A2 0000D	5118=	MVC 13(2,R9),LN	00542001
0032D6	922E A000			00000	5119=	MVI 0(R10),X'2E'	00543001
0032DA	07F5				5120=	BR R5	00544001
					5121=*		00545001
					5122=	*****	00546001
					5123=*		00547001
					5124=*	COMPILER PROGRAM - CP34	00548001
					5125=*		00549001
					5126=	*****	00550001
					5127=*		00551001
					5128=*	IF IN STATEMENT CONTEXT	00552001
					5129=*	CONTEXT	00553001
					5130=*	SOURCE OPERATOR	00554001
					5131=*	STACK OPERATOR	00555001
					5132=*		00556001
					5133=*		00557001
					5134=*		00558001
					5135=*	OPERAND	00559001
					5136=*		00560001
					5137=	USING CP34,R12	00561001
0032DC	9101 D080			R:C 032DC	5138=CP34	TM COMPFGLS,OPERAND	00562001
0032E0	4780 C012			00080	5139=	BZ CKD1	00563001
0032E4	4540 5304			032EE	5140=	BAL R4,SERR4	00564001
0032E8	00A4			0034C	5141=	DC H'164'	00565001
					5142=*		00566001
0032EA	4190 9005			00005	5143=	LA R9,5(,R9)	00567001
0032EE	4540 5E30			00E78	5144=CKD1	BAL R4,MOVEOPTK	00568001
0032F2	D200 A000			8000 00000	5145=	MVC 0(1,R10),0(R8)	00569001
0032F8	41B0 B144			00144	5146=	LA R11,324(,R11)	00570001
0032FC	951D A000			00000	5147=	CLI 0(R10),X'1D'	00571001
003300	0775				5148=	BNER R5	00572001
003302	9180 D080			00080	5149=	TM COMPFGLS,COMPmode	00573001
003306	0715				5150=	BOR R5	00574001
003308	4540 5706			0074E	5151=	BAL R4,CLEARRG	00575001
00330C	07F5				5152=	BR R5	

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				5153=*		00576001
				5154=*****		00577001
				5155=*		00578001
				5156=*	END OF IEX50003	00579001
				5157=*		00580001
				5158=*****		00581001
				5159=*		00582001
				5160	COPY IEX50004 IEX50004	01934001



Active USINGS: IEX50000+X'32DC',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				5162=*			00002001
				5163=*	CP12, CP19, CP20, CP21, CP22, CP23, CP33, CP57, CP61		00003001
				5164=*	CP64, CP71, CP83, CP84		00004001
				5165=*			00005001
				5166=*	DEFINITIONS WITHIN CSECT IEX50004		00006001
				5167=*			00007001
	00008			5168=NOASSIGN	EQU X'08'		00008001
	00040			5169=INREGBIT	EQU X'40'		00009001
	00140			5170=ENTIER	EQU X'140'	OFFSET INTO FSA FOR ENTIER RTN	00010001
				5171=*			00011001
				5172=*****			00012001
				5173=*			00013001
				5174=*	COMPILER PROGRAM - CP12		00014001
				5175=*			00015001
				5176=*****			00016001
				5177=*			00017001
				5178=*	ASSIGNMENT		00018001
				5179=*	CONTEXT	PROGRAM	00019001
				5180=*	SOURCE OPERATOR	=	00020001
				5181=*	STACK OPERATOR	BEGIN, ;, THENS, ELSES, DO	00021001
				5182=*	OPERAND	LEFT SIDE VARIABLE	00022001
				5183=*			00023001
		R:C 0330E		5184=	USING CP12,R12		00024001
00330E	9101 D080		00080	5185=CP12	TM COMPFLLGS,OPERAND	OPDT ?	00025001
003312	4780 C066		03374	5186=	BZ AWC2	NO, BRANCH	00026001
				5187=*			00027001
				5188=*	ENTRY FROM CP21		00028001
				5189=*			00029001
003316	9108 9000		00000	5190=AWD1	TM 0(R9),X'08'	ASSIGNMENT POSSIBLE ?	00030001
00331A	4710 C074		03382	5191=	BO AWD2	NO, BRANCH TO AWD2	00031001
00331E	9140 9000		00000	5192=	TM 0(R9),INREGBIT	OPD IN REGISTER ?	00032001
003322	4780 C05A		03368	5193=	BZ AWJ1	YES, BRANCH	00033001
003326	91C0 9001		00001	5194=	TM 1(R9),X'C0'	OPD TYPE PROCEDURE IDENT ?	00034001
00332A	4710 C082		03390	5195=	BO AWF2	YES, BRANCH	00035001
00332E	9120 9001		00001	5196=	TM 1(R9),X'20'	OPD CALLED BY NAME ?	00036001
003332	4710 C05A		03368	5197=	BO AWJ1	NO, BRANCH IF NOT	00037001
003336	9180 D080		00080	5198=	TM COMPFLLGS,COMPmode	SYNTAX CHECK MODE ?	00038001
00333A	4710 C05A		03368	5199=	BO AWJ1	YES, BRANCH	00039001
				5200=*			00040001
				5201=*	GENERATE ASSIGNMENT CONTROL		00041001
				5202=*			00042001
00333E	4540 593C		00984	5203=	BAL R4,ROUTINE1	LOAD VPLACE,WPLACE	00043001
003342	4810 DA6A		00A6A	5204=	LH R1,WPLACE		00044001
003346	4110 1004		00004	5205=	LA R1,4(,R1)		00045001
00334A	4010 C09C		033AA	5206=	STH R1,AWE45+2		00046001
00334E	D300 C09C	DA72 033AA	00A72	5207=	MVZ AWE45+2(1),VPLACE	INSERT REG INTO CODE	00047001
003354	4120 C09A		033A8	5208=	LA R2,AWE45		00048001
003358	45E0 5588		005D0	5209=	BAL R14,GENTXTS		00049001
00335C	0008			5210=	DC H'8'	GENERATE 8 BYTES	00050001
				5211=*			00051001
00335E	4540 578A		007D2	5212=	BAL R4,OPDREC		00052001
003362	D200 9002	DA5D 00002	00A5D	5213=	MVC 2(1,R9),SPBNST+1	CURRENT BLOCK, NEVER FCTVA	00053001
				5214=*		ALWAYS ADDR, NEVER VALUE	00054001
003368	4540 5E30		00E78	5215=AWJ1	BAL R4,MOVEOPTK	OPTH(SOURCE)	00055001
00336C	D200 A000	8000 00000	00000	5216=	MVC 0(1,R10),0(R8)		00056001
003372	07F5			5217=	BR R5		00057001
				5218=*			00058001
003374	4540 5318		00360	5219=AWC2	BAL R4,SERR3		00059001
003378	00B0			5220=	DC H'176'	ERROR 176	00060001
				5221=*			00061001
				5222=*	ENTRY FROM CP21		00062001
				5223=*			00063001
00337A	4540 5D02		00D4A	5224=AWC4	BAL R4,STACKAPI		00064001
00337E	47F0 C05A		03368	5225=	B AWJ1		00065001
				5226=*			00066001
003382	4540 5380		003C8	5227=AWD2	BAL R4,SERR1		00067001
003386	00BE			5228=	DC H'190'	ERROR 190	00068001
				5229=*			00069001
003388	4199 0005		00005	5230=	LA R9,5(R9)	TO PREPARE STACKAPI	00070001
00338C	47F0 C06C		0337A	5231=	B AWC4	BRANCH	00071001
				5232=*			00072001
				5233=*	CHANGE INT NAME TO OBJECT STACK NAME		00073001
				5234=*			00074001
003390	92C0 9000		00000	5235=AWF2	MVI 0(R9),X'C0'		00075001
003394	9403 9001		00001	5236=	NI 1(R9),X'03'		00076001
003398	9630 9001		00001	5237=	OI 1(R9),X'30'		00077001
00339C	9200 9003		00003	5238=	MVI 3(R9),X'00'		00078001
0033A0	9218 9004		00004	5239=	MVI 4(R9),X'18'	DISPL IS 24	00079001
0033A4	47F0 C05A		03368	5240=	B AWJ1		00080001
				5241=*			00081001
0033A8	9108 A000		00000	5242=AWE45	TM 0(CDSA),X'08'	*** GENERATED CODE ***	00082001
0033AC	471D 0224		00224	5243=	BO OERR22(FSA)	*** GENERATED CODE ***	00083001
				5244=*			00084001
				5245=*****			00085001
				5246=*			00086001
				5247=*	COMPILER PROGRAM - CP19		00087001
				5248=*			00088001
				5249=*****			00089001
				5250=*			00090001
				5251=*	IF IN ASSIGNMENT STATEMENT		00091001
				5252=*	CONTEXT	PROGRAM	00092001
				5253=*	SOURCE OPERATOR	IF	00093001
				5254=*	STACK OPERATOR	=	00094001
				5255=*	OPERAND	NONE	00095001
				5256=*			00096001
		R:C 033B0		5257=	USING CP19,R12		00097001



Active USINGS: IEX50000+X'33B0',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0033B0	41B0 B122		00122	5258=CP19	LA	R11,290(,R11)	CSW(STC)
0033B4	47F0 5060		000A8	5259=	B	COMP	COMPARE
				5260=*			00100001
				5261=*****			00101001
				5262=*			00102001
				5263=*	COMPILER PROGRAM - CP20		00103001
				5264=*			00104001
				5265=*****			00105001
				5266=*			00106001
				5267=*	ASSIGNMENT		00107001
				5268=*	CONTEXT	PROGRAM	00108001
				5269=*	SOURCE OPERATOR	;, EPSILON, ETA, END, ELSE	00109001
				5270=*	STACK OPERATOR	=	00110001
				5271=*	OPERAND	RIGHT SIDE OPERAND	00111001
				5272=*			00112001
		R:C 033B8		5273=	USING	CP20,R12	00113001
0033B8	4140 C034		033EC	5274=CP20	LA	R4,BIG2	00114001
0033BC	4530 5F08		00F50	5275=	BAL	R3,OPDTEST	00115001
0033C0	4540 5E9A		00EE2	5276=	BAL	R4,ARRTEST1	00116001
0033C4	9103 9001	00001		5277=	TM	1(R9),X'03'	OPD BOOL, REAL OR INTEGER ?
0033C8	4780 C15E		03516	5278=	BZ	BIE3	NO, ERROR
0033CC	9104 9001	00001		5279=BIC2	TM	1(R9),X'04'	00119001
0033D0	4710 C168		03520	5280=	BO	BIE32	00120001
0033D4	9180 D080	00080		5281=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?
0033D8	4710 C0C2		0347A	5282=	BO	BIE4	YES, BRANCH
0033DC	9140 9000	00000		5283=	TM	0(R9),INREGBIT	OPD IN REGISTER ?
0033E0	4780 C0BA		03472	5284=	BZ	BID4	YES, BRANCH
0033E4	4540 578A		007D2	5285=	BAL	R4,OPDREC	OPERAND RECOGNIZER
0033E8	47F0 C0BA		03472	5286=	B	BID4	00126001
				5287=*			00127001
				5288=*	ENTRY FROM CP69		00128001
				5289=*			00129001
0033EC	06A0			5290=BIG2	BCTR	R10,0	CLEAR OPERATOR
0033EE	9518 A000	00000		5291=	CLI	0(R10),X'18'	'FOR' ?
0033F2	4770 C04C		03404	5292=	BNE	BIJ2	NO, BRANCH
0033F6	4190 9005	00005		5293=	LA	R9,5(,R9)	RELEASE OPERAND
0033FA	5810 C22C		035E4	5294=	L	R1,ADMPCP43	R1 -> CP43 ENTRY POINT
0033FE	58C0 51BC		00204	5295=	L	R12,SCPTAB+4*6	R12 -> CP6 FOR ADRESSABILITY
003402	07F1			5296=	BR	R1	BRANCH TO CP 43
				5297=*			00136001
				5298=BIJ2	CLI	0(R10),X'2C'	ARRAY BRACKET ?
003404	952C A000	00000		5299=	BNE	BIK2	NO, BRANCH
003408	4770 C062		0341A	5300=	LA	R9,5(,R9)	CLEAR OPERAND
00340C	4190 9005	00005		5301=	L	R1,ADERE2	R1 -> CP51 ENTRY POINT
003410	5810 C228		035E0	5302=	L	R12,SCPTAB+4*51	R12 -> CP51
003414	58C0 5270		002B8	5303=	BR	R1	BRANCH TO CP51 ENTRY POINT
003418	07F1			5304=*			00144001
00341A	9516 A000	00000		5305=BIK2	CLI	0(R10),XFASSIGN	OPERATOR IS 'ASSIGN' ?
00341E	4780 C076		0342E	5306=	BE	BIK1	YES, BRANCH
003422	94FE D080	00080		5307=BIK5	NI	COMPFLGS,255-OPERAND	RESET OPERAND
003426	4190 900A	0000A		5308=	LA	R9,10(,R9)	CLEAR OPERAND TWICE
00342A	47F0 5060	000A8		5309=	B	COMP	BRANCH TO COMP
				5310=*			00150001
				5311=*	RESTORE R7, RII, RIR, CII, CIR		00151001
				5312=*			00152001
00342E	4870 C216		035CE	5313=BIK1	LH	R7,STRDP	00153001
003432	D207 DA42	C218 00A42	035D0	5314=	MVC	CII(8),STRDCIRI	00154001
003438	D204 9005	9000 00005	00000	5315=	MVC	5(5,R9),0(R9)	MOVE LAST OPD TO NEXT LAST SPOT
00343E	4190 9005	00005		5316=	LA	R9,5(,R9)	CLEAR OPERAND
003442	9101 DA46	00A46		5317=	TM	RII,RIIADRM	ADR OCCUPIED ?
003446	4780 C09E		03456	5318=	BZ	BIK3	NO
00344A	5990 D5E0		005E0	5319=	C	R9,RUTI+32	00159001
00344E	4770 C09E		03456	5320=	BNE	BIK3	00160001
003452	9200 DA46	00A46		5321=	MVI	RII,0	RELEASE 'ADR' IN REG USE TABLE
003456	9120 9000	00000		5322=BIK3	TM	0(R9),X'20'	00162001
00345A	4780 C014		033CC	5323=	BZ	BIC2	00163001
00345E	9140 9000	00000		5324=	TM	0(R9),X'40'	00164001
003462	4710 C014		033CC	5325=	BO	BIC2	00165001
003466	9201 DA46	00A46		5326=	MVI	RII,X'01'	00166001
00346A	5090 D5E0		005E0	5327=	ST	R9,RUTI+32	00167001
00346E	47F0 C014		033CC	5328=	B	BIC2	00168001
				5329=*			00169001
003472	9108 9005	00005		5330=BID4	TM	5(R9),NOASSIGN	TEST NO ASSIGNMENT BIT
003476	4710 C156		0350E	5331=	BO	BIE31	ERROR IF NO ASSIGNMENT BIT
00347A	9103 9001	00001		5332=BIE4	TM	1(R9),X'03'	TEST TYPE BITS
00347E	4780 C15E		03516	5333=	BZ	BIE3	ERROR IF ZEROES IN TYPE FIELD
003482	4740 C130		034E8	5334=	BM	BIAE2	BRANCH MIXED (=NOT BOOLEAN)
003486	9103 9006	00006		5335=	TM	6(R9),X'03'	NEXT LAST OPD BOOLEAN ?
00348A	47E0 C14A		03502	5336=	BNO	BIE34	BRANCH IF NOT BOOLEAN
00348E	9180 D080	00080		5337=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?
003492	4710 C034		033EC	5338=	BO	BIG2	YES, BRANCH
				5339=*			00178001
				5340=*	GENERATE BOOLEAN ASSIGN		00179001
				5341=*			00180001
003496	91C0 9000	00000		5342=BIG5	TM	0(R9),X'C0'	00181001
00349A	47E0 C190		03548	5343=	BNO	BIBG1	00182001
00349E	9130 9001	00001		5344=	TM	1(R9),X'30'	TEST IF RIGHT OPD BOOL CONST
0034A2	4770 C190		03548	5345=	BNZ	BIBG1	BRANCH IF NOT A CONSTANT
				5346=*			00185001
				5347=*	GENERATE ASSIGN, RIGHT OPD BOOL CON		00186001
				5348=*			00187001
0034A6	4540 C20A		035C2	5349=BIAH16	BAL	R4,SAVECIRI	00188001
0034AA	4190 9005	00005		5350=	LA	R9,5(,R9)	00189001
0034AE	9120 9000	00000		5351=	TM	0(R9),X'20'	00190001
0034B2	4710 C128		034E0	5352=	BO	BIAH161	00191001
0034B6	4540 593C		00984	5353=	BAL	R4,ROUTINE1	00192001
							00193001

Active USINGs: IEX50000+X'33B8',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object	Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
0034BA	4890	5170		001B8	5354=	BIAH162	SH R9,KH5			00194001
0034BE	D201	C122	DA6A	034DA	00A6A	5355=	MVC BIAH18+2(2),WPLACE			00195001
0034C4	D300	C122	DA72	034DA	00A72	5356=	MVZ BIAH18+2(1),VPLACE			00196001
0034CA	9401	9004		00004		5357=	NI 4(R9),X'01'			00197001
0034CE	D200	C121	9004	034D9	00004	5358=	MVC BIAH18+1(1),4(R9)	INSERT CONSTANT TO CODE		00198001
0034D4	4520	55A2		005EA	5359=	BAL R2,GENTXT4		GENERATE 4 BYTES		00199001
0034D8	9200	0000		00000	5360=	BIAH18	MVI 0(0),X'00'	*** GENERATED CODE ***		00200001
0034DC	47F0	C034		033EC	5361=		B BIG2			00201001
					5362=	*				00202001
0034E0	4540	59F2		00A3A	5363=	BIAH161	BAL R4,ROUTINE3			00203001
0034E4	47F0	C102		034BA	5364=		B BIAH162			00204001
					5365=	*				00205001
0034E8	9103	9006		00006	5366=	BIAE2	TM 6(R9),X'03'	LAST OPD NONBOOLEAN		00206001
0034EC	4740	C174		0352C	5367=		BM BIBA1	BR IF MIXED, ERROR OTHERWISE		00207001
0034F0	9110	9005		00005	5368=		TM 5(R9),APIMASK	BLO AN API ?		00208001
0034F4	4710	C034		033EC	5369=		BO BIG2	YES, BRANCH		00209001
0034F8	4540	5380		003C8	5370=	BIE33	BAL R4,SERR1			00210001
0034FC	00C1				5371=		DC H'193'	ERROR 193		00211001
					5372=	*				00212001
0034FE	47F0	C034		033EC	5373=		B BIG2			00213001
					5374=	*				00214001
003502	9110	9000		00000	5375=	BIE34	TM 0(R9),APIMASK	LO AN API ?		00215001
003506	4710	C034		033EC	5376=		BO BIG2	YES, BRANCH		00216001
00350A	47F0	C140		034F8	5377=		B BIE33			00217001
					5378=	*				00218001
00350E	9110	9005		00005	5379=	BIE31	TM 5(R9),APIMASK	BLO AN API ?		00219001
003512	4710	C034		033EC	5380=		BO BIG2	YES, BRANCH		00220001
003516	4540	5380		003C8	5381=	BIE3	BAL R4,SERR1			00221001
00351A	00C0				5382=		DC H'192'	ERROR 192		00222001
					5383=	*				00223001
00351C	47F0	C034		033EC	5384=		B BIG2			00224001
					5385=	*				00225001
003520	9110	9000		00000	5386=	BIE32	TM 0(R9),APIMASK	LO AN API ?		00226001
003524	4710	C034		033EC	5387=		BO BIG2	YES, BRANCH		00227001
003528	47F0	C15E		03516	5388=		B BIE3			00228001
					5389=	*				00229001
00352C	9180	D080		00080	5390=	BIBA1	TM COMPFLGS,COMPmode	SYNTAX CHECK MODE ?		00230001
003530	4710	C034		033EC	5391=		BO BIG2	YES, BRANCH		00231001
003534	9102	9006		00006	5392=		TM 6(R9),X'02'	NEXT LAST OPD 'REAL' ?		00232001
003538	4780	C19E		03556	5393=		BZ BICA1	NO, BRANCH		00233001
00353C	9102	9001		00001	5394=		TM 1(R9),X'02'	LAST OPERAND 'REAL' ?		00234001
003540	4710	C190		03548	5395=		BO BIBG1	YES, BRANCH		00235001
003544	4540	545E		004A6	5396=		BAL R4,TRINRE	GENERATE INTEGER REAL CONVERSION		00236001
					5397=	*				00237001

Active USINGS: IEX50000+X'33B8',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0035DC	000058C4			5450=	ADHZB1	DC A(DHZB1)	00290001
0035E0	00002E1E			5451=	ADERE2	DC A(DERE2)	00291001
0035E4	0000151E			5452=	AJMPCP43	DC A(DJH1E43)	00292001
				5453=	*	ENTRY TO CP51, BASE CP51	00293001
				5454=	*****	ENTRY TO CP43, BASE CP6	00294001
				5455=	*		00295001
				5456=	*	COMPILER PROGRAM - CP21	00296001
				5457=	*		00297001
				5458=	*****		00298001
				5459=	*		00299001
				5460=	*	MULTIPLE ASSIGNMENT	00300001
				5461=	*	CONTEXT PROGRAM	00301001
				5462=	*	SOURCE OPERATOR =	00302001
				5463=	*	STACK OPERATOR =	00303001
				5464=	*	OPERAND LEFT SIDE VARIABLE	00304001
				5465=	*		00305001
		R:C 035E8		5466=	CP21,R12		00306001
0035E8	9101 D080	00080		5467=	CP21	TM COMPFGLS,OPERAND	00307001
0035EC	4780 C038		03620	5468=	BZ BKB2	NO, BRANCH	00308001
0035F0	4300 9001		00001	5469=	IC R0,1(,R9)	LOAD R0,R9+1	00309001
0035F4	4310 9006		00006	5470=	IC R1,6(,R9)	LOAD R1,R9+6	00310001
0035F8	5400 5188		00100	5471=	N R0,TYPETEST	CLEAR FIRST 30 BITS OF GPR0	00311001
0035FC	5410 5188		00100	5472=	N R1,TYPETEST	CLEAR FIRST 30 BITS OF GPR1	00312001
003600	58C0 51D4		0021C	5473=	L R12,SCPTAB+4*12	R12 -> CP12	00313001
003604	1B01			5474=	SR R0,R1	SUBTRACT	00314001
003606	478C 0008		00008	5475=	BZ AWD1-CP12(R12)	ZERO, BRANCH TO AWD1 IN CP12	00315001
00360A	9110 9000		00000	5476=	TM 0(R9),APIMASK	LO AN API ?	00316001
00360E	0715			5477=	BOR R5	YES, BRANCH TO SUBSTART	00317001
003610	9110 9005		00005	5478=	TM 5(R9),APIMASK	BLO AN API ?	00318001
003614	0715			5479=	BOR R5	YES, BRANCH TO SUBSTART	00319001
003616	4540 5380		003C8	5480=	BAL R4,SERR1		00320001
00361A	00AC			5481=	DC H'172'	ERROR 172	00321001
				5482=	*		00322001
00361C	47FC 006C		0006C	5483=	B AWC4-CP12(R12)	BRANCH TO AWC4 IN CP12	00323001
				5484=	*		00324001
003620	4540 5304		0034C	5485=	BKB2	R4,SERR4	00325001
003624	00A2			5486=	DC H'162'	ERROR 162	00326001
				5487=	*		00327001
003626	07F5			5488=	BR R5	RETURN TO SUBSTART	00328001
				5489=	*		00329001
				5490=	*****		00330001
				5491=	*		00331001
				5492=	*	COMPILER PROGRAM - CP22	00332001
				5493=	*		00333001
				5494=	*****		00334001
				5495=	*		00335001
				5496=	*	ARITHM OR BOOL EXPRESSION IN ASSIGNMENT STATEMENT	00336001
				5497=	*	CONTEXT PROGRAM	00337001
				5498=	*	SOURCE OPERATOR (, ARITHM OP, BOOL OP, REL OP	00338001
				5499=	*	STACK OPERATOR =	00339001
				5500=	*	OPERAND ARRAY OR PROCEDURE IDENTIFIER OR	00340001
				5501=	*	ARITHMETIC OR BOOLEAN OPERAND OR NONE	00341001
				5502=	*		00342001
		R:C 03628		5503=	CP22,R12		00343001
003628	58B0 51A0	001E8		5504=	CP22	L R11,EXC	00344001
00362C	47F0 5060	000A8		5505=	B COMP	COMPARE	00345001
				5506=	*		00346001
				5507=	*****		00347001
				5508=	*		00348001
				5509=	*	COMPILER PROGRAM - CP23	00349001
				5510=	*		00350001
				5511=	*****		00351001
				5512=	*		00352001
				5513=	*	PARAMETERLESS PROCEDURE STATEMENT OR STATEMENT END	00353001
				5514=	*	CONTEXT PROGRAM	00354001
				5515=	*	SOURCE OPERATOR ;, EPSILON, ETA, END	00355001
				5516=	*	STACK OPERATOR ;	00356001
				5517=	*	OPERAND PROCEDURE IDENTIFIER OR NONE	00357001
				5518=	*		00358001
		R:C 03630		5519=	CP23,R12		00359001
003630	9101 D080	00080		5520=	CP23	TM COMPFGLS,OPERAND	00360001
003634	4780 C014		03644	5521=	BZ BOD1	OPDT OFF, BRANCH	00361001
003638	4540 5D54		00D9C	5522=	BAL R4,PLPRST		00362001
00363C	4190 9005		00005	5523=	LA R9,5(,R9)		00363001
003640	94FE D080		00080	5524=	NI COMPFGLS,255-OPERAND	RESET OPERAND	00364001
003644	950B 8000		00000	5525=	BOD1	CL I 0(R8),XFSCOLON	00365001
003648	4770 C022		03652	5526=	BNE BOE1	SOURCE SEMICOLON ?	00366001
00364C	4540 590C		00954	5527=	BAL R4,SCHDL	NO, BRANCH	00367001
003650	07F5			5528=	BR R5	YES, ENTER SEMICOLON HANDLING	00368001
				5529=	*	RETURN TO SUBSTART	00369001
003652	46A0 5060		000A8	5530=	BOE1	BCT R10,COMP	00370001
				5531=	*	CLOPT AND COMP	00371001
				5532=	*****		00372001
				5533=	*		00373001
				5534=	*	COMPILER PROGRAM - CP33	00374001
				5535=	*		00375001
				5536=	*****		00376001
				5537=	*		00377001
				5538=	*	ARITHMETIC OR BOOLEAN EXPRESSIONS IN STATEMENT CONTEXT	00378001
				5539=	*	CONTEXT STATEMENT	00379001
				5540=	*	SOURCE OPERATOR ARITHM OR BOOLEAN OR RELATIONAL OPERATOR	00380001
				5541=	*	STACK OPERATOR PROCEDURE BRACKET, LEFT BRACKET,	00381001
				5542=	*	ST PROC BRACKET,FOR =, STEP, UNTIL,	00382001
				5543=	*	WHILE, , ARRAY DECL BRACKET	00383001
				5544=	*	OPERAND ARITHMETIC OR BOOLEAN OPERAND	00384001
				5545=	*		00385001

Active USINGS: IEX50000+X'3630',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
		R:C 03656		5546=	USING	CP33,R12	00386001
003656	41B0 B144		00144	5547=CP33	LA	R11,324(,R11)	00387001
00365A	47F0 5060		000A8	5548=	B	COMP	00388001
				5549=*		COMPARE	00389001
				5550=*****			00390001
				5551=*			00391001
				5552=*	COMPILER PROGRAM - CP57		00392001
				5553=*			00393001
				5554=*****			00394001
				5555=*			00395001
				5556=*	PROCEDURE CALL		00396001
				5557=*	CONTEXT	STATEMENT	00397001
				5558=*	SOURCE OPERATOR	, OR )	00398001
				5559=*	STACK OPERATOR	PROCEDURE BRACKET	00399001
				5560=*	OPERANDS	ACTUAL PARAMETER	00400001
				5561=*		PARAMETER COUNT AND PRPOINTER AT CALL	00401001
				5562=*		PAR CHAR AND PRPOINTER AT NEXT THUNK ADR	00402001
				5563=*		LABEL NUMBER	00403001
				5564=*		PROCEDURE IDENTIFIER	00404001
				5565=*			00405001
				5566=*	COMPUTE FOR LATER REFERENCE (FROM SLPAR IN STACK)		00406001
				5567=*	STACK ADDR WHICH POINTS TO ENTRY CONTAINING LN		00407001
				5568=*	(=ONE ENTRY AFTER PROCEDURE IDENTIFIER ENTRY)		00408001
				5569=*	STORE SLPAR (NUMBER OF PARAMETERS TIMES FIVE)		00409001
				5570=*			00410001
		R:C 0365E		5571=	USING	CP57,R12	00411001
00365E	9101 D080		00080	5572=CP57	TM	COMPLG5,OPERAND	00412001
003662	4780 C2F2		03950	5573=	BZ	FGAB2	00413001
003666	D201 C312	9005	03970	00005	5574=	MVC STACKST(2),5(R9)	00414001
00366C	48F0 C312		03970	0000A	5575=	LH R15,STACKST	00415001
003670	41FF 900A		0000A	0000A	5576=	LA R15,10(R15,R9)	00416001
003674	50F0 C312		03970	0000A	5577=	ST R15,STACKST	00417001
003678	D201 C316	9005	03974	00005	5578=	MVC STSLPAR(2),5(R9)	00418001
00367E	9180 D080		00080	00000	5579=	TM COMPLG5,COMPMODE	00419001
003682	4710 C156		037B4	00000	5580=	BO FGAG1	00420001
003686	9680 58B8		00900	00000	5581=	OI PROCWPS,X'80'	00421001
00368A	4540 578A		007D2	00000	5582=	BAL R4,OPDREC	00422001
00368E	9780 58B8		00900	00000	5583=	XI PROCWPS,X'80'	00423001
				5584=*			00424001
				5585=*	LOAD ACTUAL PARAMETER ADDR LAPA		00425001
				5586=*			00426001
003692	9120 9000		00000	00000	5587=FGCA1	TM 0(R9),X'20'	00427001
003696	4710 C09C		036FA	00000	5588=	BO FGCB3	00428001
00369A	4540 5706		0074E	00000	5589=	BAL R4,CLEARRG	00429001
00369E	4540 5CE8		00D30	00000	5590=	BAL R4,DECOMP	00430001
0036A2	48F0 DA4A		00A4A	00000	5591=	LH R15,OPDPBN	00431001
0036A6	8BF0 0003		00003	00000	5592=	SLA R15,3	00432001
0036AA	40F0 C0B2		03710	00000	5593=	STH R15,FGCD35+2	00433001
0036AE	48F0 DA4E		00A4E	00000	5594=	LH R15,OPDLN	00434001
0036B2	40F0 C0AA		03708	00000	5595=	STH R15,FGCD34+2	00435001
0036B6	40F0 C0EA		03748	00000	5596=	STH R15,FGCF34+2	00436001
0036BA	9108 9001		00001	00000	5597=	TM 1(R9),X'08'	00437001
0036BE	4710 C0A4		03702	00000	5598=	BO FGCD3	00438001
0036C2	91C0 9001		00001	00000	5599=	TM 1(R9),X'C0'	00439001
0036C6	4780 C074		036D2	00000	5600=	BZ FGCF21	00440001
0036CA	9180 9000		00000	00000	5601=	TM 0(R9),X'80'	00441001
0036CE	4710 C0B8		03716	00000	5602=	BO FGCE3	00442001
0036D2	4540 593C		00984	00000	5603=FGCF21	BAL R4,ROUTINE1	00443001
0036D6	D201 C08A	DA6A	036E8	00A6A	5604=	MVC FGCF25+2(2),WPLACE	00444001
0036DC	D300 C08A	DA72	036E8	00A72	5605=	MVZ FGCF25+2(1),VPLACE	00445001
0036E2	4520 55A2		005EA	00000	5606=	BAL R2,GENTXT4	00446001
0036E6	4180 0000		00000	00000	5607=FGCF25	LA ADR,0(0)	00447001
0036EA	91C0 9000		00000	00000	5608=	TM 0(R9),X'C0'	00448001
0036EE	4710 C14A		037A8	00000	5609=	BO FGAF1	00449001
0036F2	4B70 DA56		00A56	00000	5610=	SH R7,ONEENTRY	00450001
0036F6	47F0 C14A		037A8	00000	5611=	B FGAF1	00451001
				5612=*			00452001
0036FA	4540 59F2		00A3A	00000	5613=FGCB3	BAL R4,ROUTINE3	00453001
0036FE	47F0 C14A		037A8	00000	5614=	B FGAF1	00454001
				5615=*			00455001
				5616=*	LABEL OR SWITCH IDENTIFIER		00456001
				5617=*			00457001
003702	4520 55A2		005EA	00000	5618=FGCD3	BAL R2,GENTXT4	00458001
003706	588C 0000		00000	00000	5619=FGCD34	L ADR,0(LAT)	00459001
00370A	4520 55A2		005EA	00000	5620=	BAL R2,GENTXT4	00460001
00370E	589B 0000		00000	00000	5621=FGCD35	L GDSA,0(PBT)	00461001
003712	47F0 C14A		037A8	00000	5622=	B FGAF1	00462001
				5623=*			00463001
				5624=*	PROCEDURE IDENTIFIER		00464001
				5625=*			00465001
003716	9140 9001		00001	00000	5626=FGCE3	TM 1(R9),X'40'	00466001
00371A	4780 C0F4		03752	00000	5627=	BZ FGCF4	00467001
00371E	91F0 9003		00003	00000	5628=	TM 3(R9),X'F0'	00468001
003722	4780 C0DC		0373A	00000	5629=	BZ FGCF33	00469001
003726	D200 C0ED	9002	0374B	00002	5630=	MVC FGCF35+1(1),2(R9)	00470001
00372C	4120 C0E8		03746	00000	5631=	LA R2,FGCF34	00471001
003730	45E0 5588		005D0	00000	5632=	BAL R14,GENTXTS	00472001
003734	000C			00000	5633=	DC H'12'	00473001
				5634=*		GENERATE 12 BYTES	00474001
003736	47F0 C14A		037A8	00000	5635=	B FGAF1	00475001
				5636=*		EXIT FROM LAPA	00476001
00373A	9120 9001		00001	00000	5637=FGCF33	TM 1(R9),X'20'	00477001
00373E	4780 C14A		037A8	00000	5638=	BZ FGAF1	00478001
003742	47F0 C074		036D2	00000	5639=	B FGCF21	00479001
				5640=*		YES	00480001
003746	588C 0000		00000	00000	5641=FGCF34	L ADR,0(LAT)	00481001
						*** GENERATED CODE ***	00481001

Active USINGS: IEX50000+X'365E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
00374A	9200 D0A9	000A9		5642=	FGCF35	MVI PROLPBN(FSA),X'00'	*** GENERATED CODE ***	00482001
00374E	90BC D0A0	000A0		5643=		STM PBT,LAT,PROLREG(FSA)	*** GENERATED CODE ***	00483001
				5644=*				00484001
				5645=*		STANDARD PROCEDURE IDENTIFIER		00485001
				5646=*				00486001
003752	9180 9004	00004		5647=	FGCF4	TM 4(R9),X'80'	ABS, SIGN, LENGTH, OR ENT ?	00487001
003756	4710 C110	0376E		5648=		BO FGCF41	YES, NO LAT ENTRY	00488001
00375A	43F9 0004	00004		5649=		IC R15,4(R9)	GET	00489001
00375E	54F0 C306	03964		5650=		N R15,FGXFC	ENTRY	00490001
003762	5AF0 D61C	0061C		5651=		A R15,LATAB	IN LAT	00491001
003766	947F F000	00000		5652=		NI 0(R15),X'7F'	INSERT ZERO BIT	00492001
00376A	9601 DA40	00A40		5653=		OI IOTAB+16,X'01'	ALL DATASETS MAY BE NEEDED	00493001
00376E	41F0 0002	00002		5654=	FGCF41	LA R15,2		00494001
003772	14F6			5655=		NR R15,R6	PRPOINT ON HALFWORD BOUNDARY ?	00495001
003774	4770 C120	0377E		5656=		BNZ FGCF42	YES	00496001
003778	4520 559E	005E6		5657=		BAL R2,GENTXT2	GENERATE 2 BYTES	00497001
00377C	1811			5658=		LR R1,R1	*** GENERATED CODE ***	00498001
				5659=*			GENERATED NO OP CODE	00499001
00377E	D203 C13E 9001 0379C	00001		5660=	FGCF42	MVC FGCF45(4),1(R9)	INSERT 1ST PART OF STD PROC ID	00500001
003784	4120 C134	03792		5661=		LA R2,FGCF44		00501001
003788	45E0 5588	005D0		5662=		BAL R14,GENTXTS		00502001
00378C	0016			5663=		DC H'22'	GENERATE 22 BYTES	00503001
				5664=*				00504001
00378E	47F0 C14A	037A8		5665=		B FGAF1	EXIT FROM LAPA	00505001
				5666=*				00506001
003792				5667=		CNOP 2,4		00507001
003792	05F0			5668=	FGCF44	BALR BRR,0	*** GENERATED CODE ***	00508001
003794	588F 0008	00008		5669=		L ADR,8(BRR)	*** GENERATED CODE ***	00509001
003798	47FF 000C	0000C		5670=		B 12(BRR)	*** GENERATED CODE ***	00510001
				5671=*				00511001
00379C	00000000			5672=	FGCF45	DC F'0'	*** GENERATED CODE ***	00512001
0037A0	9200 D0A9	000A9		5673=		MVI PROLPBN(FSA),X'00'	*** GENERATED CODE ***	00513001
0037A4	90BC D0A0	000A0		5674=		STM PBT,LAT,PROLREG(FSA)	*** GENERATED CODE ***	00514001
				5675=*				00515001
				5676=*		GENERATE CALL OF CAP2		00516001
				5677=*				00517001
0037A8	4520 55A2	005EA		5678=	FGAF1	BAL R2,GENTXT4	GENERATE 4 BYTES	00518001
0037AC	47FD 00D8	000D8		5679=		B CAP2(FSA)	*** GENERATED CODE ***	00519001
0037B0	92FF DA61	00A61		5680=		MVI GPBN+1,X'FF'	GDSA IS NOT CONTROLLED	00520001
0037B4	D201 9005 9000 00000	00005	00000	5681=	FGAG1	MVC 5(2,R9),0(R9)	PAR CHAR OF LO INTO NEXT L OPD	00521001
0037BA	5060 D5F8	005F8		5682=		ST R6,WORKPL	NEXT THUNK ADDR	00522001
0037BE	D202 9002 D5F9 00002	005F9	00002	5683=		MVC 2(3,R9),WORKPL+1	TO LAST OPD	00523001
0037C4	48F0 C316	03974		5684=		LH R15,STSLPAR	UPDATE SLPAR	00524001
0037C8	41FF 0005	00005		5685=		LA R15,5(R15)		00525001
0037CC	40F0 C316	03974		5686=		STH R15,STSLPAR		00526001
0037D0	D201 9000 C316 00000	03974	03974	5687=		MVC 0(2,R9),STSLPAR	SLPAR TO LAST OPERAND	00527001
				5688=*				00528001
0037D6	9526 8000	00000		5689=	FGBA1	CLI 0(R8),XFRBRAC	RIGHT BRACKET IN SOURCE ?	00529001
0037DA	0775			5690=		BNER R5	NO, BRANCH TO SUBSTART	00530001
0037DC	58F0 C312	03970		5691=		L R15,STACKST	GET ADDR OF PROCED ID - 5	00531001
0037E0	9110 F005	00005		5692=		TM 5(R15),X'10'	PROCEDURE IDENTIFIER API ?	00532001
0037E4	4710 C1BA	03818		5693=		BO FGBD1	YES, NO PARAMETER NR CHECK	00533001
0037E8	1B44			5694=		SR R4,R4		00534001
0037EA	434F 0008	00008		5695=		IC R4,8(R15)	GET NUMBER OF PARM IN PROC IDENT	00535001
0037EE	8840 0004	00004		5696=		SRL R4,4		00536001
0037F2	4800 C316	03974		5697=		LH R0,STSLPAR	GET NUMBER OF PARAMS TIMES FIVE	00537001
0037F6	8E00 0020	00020		5698=		SRDA R0,32		00538001
0037FA	4820 5170	001B8		5699=		LH R2,KH5		00539001
0037FE	1D02			5700=		DR R0,R2	CALC NUMBER OF PARAMETERS	00540001
003800	4010 C310	0396E		5701=		STH R1,FGOUTPAR+6	NUMBER TO GENERATED CODE	00541001
003804	1914			5702=		CR R1,R4	PARAMETER COUNT COMPARE	00542001
003806	4780 C1BA	03818		5703=		BE FGBD1	CORRECT NUMBER	00543001
00380A	9130 F006	00006		5704=		TM 6(R15),X'30'	PROCEDURE FORMAL PARAMETER ?	00544001
00380E	4740 C1BA	03818		5705=		BM FGBD1	YES, NO ERROR	00545001
003812	4540 5380	003C8		5706=		BAL R4,SERR1		00546001
003816	00BB			5707=		DC H'187'	ERROR 187	00547001
				5708=*				00548001
003818	5890 C312	03970		5709=	FGBD1	L R9,STACKST	CLEAR R9 FROM ALL PARAM ENTRY	00549001
00381C	4199 0005	00005		5710=		LA R9,5(R9)		00550001
003820	940F 9003	00003		5711=		NI 3(R9),X'0F'	CLEAR PARAMETER COUNT	00551001
003824	9180 D080	00080		5712=		TM COMPFLGS,COMPmode	SYNTAX CHECK MODE ?	00552001
003828	4710 C2B6	03914		5713=		BO FGBH1	YES, BRANCH	00553001
00382C	58F0 C312	03970		5714=		L R15,STACKST	GET	00554001
003830	D201 DA64 F003 00A64	00003		5715=		MVC HALFW(2),3(R15)	ADDR OF	00555001
003836	4840 DA64	00A64		5716=		LH R4,HALFW	LAT	00556001
00383A	5A40 D61C	0061C		5717=		A R4,LATAB	ENTRY	00557001
00383E	5064 0000	00000		5718=		ST R6,0(R4)	VALUE OF PRPOINT TO LAT ENTRY	00558001
				5719=*				00559001
				5720=*		GENERATE PROCEDURE CALL		00560001
				5721=*				00561001
003842	9130 9001	00001		5722=	FGBD11	TM 1(R9),FORMPM	PROCEDURE FORMAL ?	00562001
003846	4780 C1F4	03852		5723=		BNM FGBD11A	NO	00563001
00384A	4520 55A2	005EA		5724=		BAL R2,GENTXT4	GENERATE 4 BYTES	00564001
00384E	92FF D0A8	000A8		5725=		MVI PROLPBN-1(FSA),X'FF'	*** GENERATED CODE ***	00565001
				5726=*				00566001
				5727=*		SET SW IN FSA TO DETECT WHEN ACT PROCEDURE IS		00567001
				5728=*		PARAMETERLESS		00568001
				5729=*				00569001
003852	9680 5888	00900		5730=	FGBD11A	OI PROCWPS,X'80'	SET SWITCH IN OPERAND RECOGNIT	00570001
003856	4540 578A	007D2		5731=		BAL R4,OPDREC		00571001
00385A	9780 5888	00900		5732=		XI PROCWPS,X'80'	SWITCH OFF	00572001
00385E	943F 9001	00001		5733=		NI 1(R9),X'3F'	CLEAR PROCEDURE BITS	00573001
003862	9130 9001	00001		5734=		TM 1(R9),FORMPM	FORMAL PARAMETER ?	00574001
003866	4780 C214	03872		5735=		BNM FGBG1	NO	00575001
00386A	4520 55A2	005EA		5736=		BAL R2,GENTXT4	GENERATE 4 BYTES	00576001
				5737=*			GENERATE CALL PROCEDURE FORMAL	00577001



Active USINGS: IEX50000+X'365E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00386E	45FD 00DC		000DC	5738=	BAL	BRR,PROLOGFP(FSA)	*** GENERATED CODE *** 00578001
003872	1BFF			5739=FGBG1	SR	R15,R15	00579001
003874	40F0 C318		03976	5740=	STH	R15,PARCOUNT	INITIALIZE PARAMETER COUNT 00580001
003878	48F0 C318		03976	5741=FGBG12	LH	R15,PARCOUNT	00581001
00387C	49F0 C316		03974	5742=	CH	R15,STSLPAR	ALL PARAMS BEEN PROCESSED ? 00582001
003880	4780 C2B6		03914	5743=	BE	FGBH1	YES, BRANCH 00583001
				5744=*			00584001
				5745=*		GENERATE ONE ENTRY IN PARAMETER LIST	00585001
				5746=*			00586001
003884	41FF 0005		00005	5747=FGBG13	LA	R15,5(R15)	00587001
003888	40F0 C318		03976	5748=	STH	R15,PARCOUNT	00588001
00388C	5840 C312		03970	5749=	L	R4,STACKST	FIND PARAMETERS IN STACK 00589001
003890	1B4F			5750=	SR	R4,R15	00590001
003892	D201 C30E 4000	0396C	00000	5751=	MVC	FGOUTPAR+4(2),0(R4)	CHARACTER BYTES TO GENER CODE 00591001
003898	D202 C30B 4002	03969	00002	5752=	MVC	FGOUTPAR+1(3),2(R4)	ADDR OF THUNK TO GENER CODE 00592001
00389E	5060 C31A		03978	5753=	ST	R6,THUNKADR	SAVE PRPOINT FOR RLD RECORD 00593001
0038A2	4120 C30A		03968	5754=	LA	R2,FGOUTPAR	00594001
0038A6	45E0 5588		005D0	5755=	BAL	R14,GENTXTS	00595001
0038AA	0008			5756=	DC	H'8'	GENERATE 8 BYTES 00596001
0038AC	5820 C31A		03978	5757=	L	R2,THUNKADR	00597001
0038B0	45E0 5574		005BC	5758=	BAL	R14,GENRLD	GENERATE RLD RECORD 00598001
0038B4	0004			5759=	DC	H'4'	00599001
0038B6	0001			5760=	DC	H'1'	00600001
0038B8	0001			5761=	DC	H'1'	00601001
0038BA	9200 C311	0396F		5762=	MVI	FGOUTPAR+7,0	ZERO TO NEXT PARM NUMBER FIELD 00602001
0038BE	47F0 C21A		03878	5763=	B	FGBG12	00603001
				5764=*			00604001
				5765=*		CHECK FOR THE PRESENCE OF 'FOR', 'IF' OR 'GOTO'	00605001
				5766=*		IMMEDIATELY AFTER PROCEDURE CALLS	00606001
				5767=*		CALLED BY CP57 AND CP61	00607001
				5768=*			00608001
				5769=	DROP	R12	00609001
0038C2	180C			5770=FGBG20	LR	R0,R12	00610001
0038C4	05C0			5771=	BALR	R12,0	00611001
		R:C	038C6	5772=	USING	*,R12	00612001
0038C6	5000 C04A		03910	5773=	ST	R0,FGBG29	SAVE OLD BASE REG 00613001
0038CA	5040 C046		0390C	5774=	ST	R4,FGBG28	00614001
0038CE	952F 8001	00001		5775=	CLI	1(R8),XFZETA	SOURCE BUFFER EMPTY? 00615001
0038D2	4770 C014		038DA	5776=	BNE	FGBG22	NO 00616001
0038D6	4540 5084		000CC	5777=	BAL	R4,JBUFFER	00617001
0038DA	9518 8001	00001		5778=FGBG22	CLI	1(R8),XFFOR	NEXT OPERATOR 'FOR' ? 00618001
0038DE	4780 C036		038FC	5779=	BE	FGBG27	YES 00619001
0038E2	951D 8001	00001		5780=	CLI	1(R8),XFIF	NEXT OPERATOR 'IF' ? 00620001
0038E6	4780 C036		038FC	5781=	BE	FGBG27	YES 00621001
0038EA	9517 8001	00001		5782=	CLI	1(R8),XFGOTO	NEXT OPERATOR 'GOTO' ? 00622001
0038EE	4780 C036		038FC	5783=	BE	FGBG27	YES 00623001
0038F2	5840 C046		0390C	5784=FGBG25	L	R4,FGBG28	00624001
0038F6	58C0 C04A		03910	5785=	L	R12,FGBG29	RESTORE OLD BASE REG 00625001
0038FA	06A4			5786=	BCTR	R10,R4	CLOPT AND RETURN 00626001
0038FC	4180 8001	00001		5787=FGBG27	LA	R8,1(,R8)	INCREASE SOURCE PTR 00627001
003900	4540 5318	00360		5788=	BAL	R4,SERR3	00628001
003904	00C2			5789=	DC	H'194'	ERROR 194 00629001
				5790=*			00630001
003906	4680 C02C		038F2	5791=	BCT	R8,FGBG25	DECREASE SOURCE PTR 00631001
				5792=*			00632001
00390A	0000						
00390C	00000000			5793=FGBG28	DC	F'0'	00633001
003910	00000000			5794=FGBG29	DC	F'0'	00634001
				5795=	DROP	R12	00635001
				5796=*			00636001
				5797=*		RE-ESTABLISH BASE REG FOR CONTINUATION OF CP57	00637001
				5798=*			00638001
		R:C	0365E	5799=	USING	CP57,R12	00639001
003914	4540 C264		038C2	5800=FGBH1	BAL	R4,FGBG20	CHECK NEXT OPERATOR 00640001
003918	9530 A000	00000		5801=	CLI	0(R10),X'30'	PROG CONTEXT OP IN STACK ? 00641001
00391C	4770 C2E2		03940	5802=	BNE	FGBG4	NO, BRANCH 00642001
003920	94FE D080	00080		5803=	NI	COMPLFSG,255-OPERAND	RESET OPERAND 00643001
003924	5880 5194		001DC	5804=	L	R11,DECAADD	SWITCH TO PROGRAM CONTEXT 00644001
003928	9180 9003	00003		5805=	TM	3(R9),REGADRM	OPERAND IN ADR ? 00645001
00392C	4780 C2DA		03938	5806=	BZ	FGBH1A	NO 00646001
003930	4870 DA56		00A56	5807=	SH	R7,ONEENTRY	RELEASE STACK 00647001
003934	9701 DA46	00A46		5808=	XI	R11,RIIADRM	ADR NOT OCCUPIED 00648001
003938	4199 0005	00005		5809=FGBH1A	LA	R9,5(R9)	RELEASE PROCEDURE IDENT 00649001
00393C	46A0 503C	00084		5810=FGBK5	BCT	R10,SPECTEST	CLOPT, BRANCH TO SPECIAL TEST 00650001
003940	9533 A000	00000		5811=FGBG4	CLI	0(R10),X'33'	STMT CONTEXT OP IN STACK ? 00651001
003944	4780 C2DE	0393C		5812=	BE	FGBK5	YES 00652001
003948	58B0 51A0	001E8		5813=	L	R11,EXC	SWITCH TO EXPRESSION CONTEXT 00653001
00394C	46A0 503C	00084		5814=	BCT	R10,SPECTEST	CLOPT, BRANCH TO SPECIAL TEST 00654001
003950	4540 5318	00360		5815=FGBA2	BAL	R4,SERR3	00655001
003954	00B0			5816=	DC	H'176'	ERROR 176 00656001
				5817=*			00657001
003956	4540 5D02		00D4A	5818=	BAL	R4,STACKAPI	INSERT API 00658001
00395A	9601 D080	00080		5819=	OI	COMPLFSG,OPERAND	SET OPERAND ON 00659001
00395E	47F0 C000		0365E	5820=	B	CP57	00660001
				5821=*			00661001
				5822=*		CONSTANTS AND WORKAREAS	00662001
				5823=*			00663001
003962	0000						
003964				5824=	DC	0F'0'	00664001
003966	000000FC			5825=FGXFC	DC	X'000000FC'	TO EXTRACT LN FROM OPERAND 00665001
003968	00000000			5826=FGOUTPAR	DC	F'0'	*** GENERATED CODE *** 00666001
00396C	00000000			5827=	DC	F'0'	*** GENERATED CODE *** 00667001
003970	00000000			5828=STACKST	DC	F'0'	PTR TO R9 ENTRY NEXT TO PROC 00668001
003974	0000			5829=STSLPAR	DC	H'0'	NUMBER OF PARAMETERS TIMES FIVE 00669001
003976	0000			5830=PARCOUNT	DC	H'0'	TEMPORARY STORAGE TO COUNT PARMS 00670001
003978	00000000			5831=THUNKADR	DC	F'0'	TEMPORARY STORAGE 00671001

Active USINGS: IEX50000+X'365E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				5832=*		00672001
				5833=*****		00673001
				5834=*		00674001
				5835=*	COMPILER PROGRAM - CP61	00675001
				5836=*		00676001
				5837=*****		00677001
				5838=*		00678001
				5839=*	CALL OF STANDARD PROCEDURES	00679001
				5840=*	CONTEXT STATEMENT	00680001
				5841=*	SOURCE OPERATOR , OR )	00681001
				5842=*	STACK OPERATOR STANDARD PROCEDURE BRACKET	00682001
				5843=*	OPERANDS ACTUAL PARAMETER	00683001
				5844=*	PARAMETER COUNT AND PRPOINTER AT CALL	00684001
				5845=*	PROCEDURE IDENTIFIER	00685001
				5846=*		00686001
		R:C 0397C		5847=	USING CP61,R12	00687001
00397C	4140 C008		03984	5848=CP61	LA R4,FOC2	00688001
003980	4530 5F08		00F50	5849=	BAL R3,OPDTEST	00689001
003984	4540 5E38		00E80	5850=FOC2	BAL R4,MOVEOPDK	00690001
003988	D204 9000	9005 00000	00005	5851=	MVC 0(5,R9),5(R9)	00691001
00398E	1B11			5852=	SR R1,R1	00692001
003990	4319 000A		0000A	5853=	IC R1,10(R9)	00693001
003994	4111 0004		00004	5854=	LA R1,4(R1)	00694001
003998	4219 000A		0000A	5855=	STC R1,10(R9)	00695001
00399C	9110 900F	0000F		5856=	TM 15(R9),X'10'	00696001
0039A0	4710 C05E		039DA	5857=	BO FOF4	00697001
0039A4	D201 C7FC	9011 04178	00011	5858=	MVC FOF2PCH(2),17(R9)	00698001
0039A8	4820 C7FC		04178	5859=	LH R2,FOE2PCH	00699001
0039AE	8820 1000		00000	5860=	SRL R2,0(R1)	00700001
0039B2	4220 C7FC		04178	5861=	STC R2,FOE2PCH	00701001
0039B6	4540 C0DA		03A56	5862=	BAL R4,FQA2	00702001
0039BA	9103 9010	00010		5863=FOH2	TM 16(R9),X'03'	00703001
0039BE	4770 C3E4		03D60	5864=	BNZ FTB2	00704001
0039C2	9180 D080	00080		5865=FOB4	TM COMPFGLS,COMPmode	00705001
0039C6	4710 C056		039D2	5866=	BO FOD4	00706001
0039CA	4540 C71E		0409A	5867=	BAL R4,ADRTRANS	00707001
0039CE	4540 C1E0		03B5C	5868=FOC4	BAL R4,FRA3	00708001
0039D2	910F 9012	00012		5869=FOD4	TM 18(R9),X'0F'	00709001
0039D6	4770 C296		03C12	5870=	BNZ FSB1	00710001
0039DA	4199 000A		0000A	5871=FOF4	LA R9,10(R9)	00711001
0039DE	9525 8000	00000		5872=	CLI 0(R8),XFCOMMA	00712001
0039E2	0785			5873=	BER R5	00713001
0039E4	1B11			5874=FPA21	SR R1,R1	00714001
0039E6	4319 0000		00000	5875=	IC R1,0(R9)	00715001
0039EA	9103 9009	00009		5876=	TM 9(R9),X'03'	00716001
0039EE	4780 C082		039FE	5877=	BZ FPA23	00717001
0039F2	4740 C07E		039FA	5878=	BM FPA22	00718001
0039F6	4B10 516E		001B6	5879=	SH R1,KH4	00719001
0039FA	4B10 516E		001B6	5880=FPA22	SH R1,KH4	00720001
0039FE	4B10 516E		001B6	5881=FPA23	SH R1,KH4	00721001
003A02	4770 C1CC		03B48	5882=	BNZ FPA1	00722001
003A06	9180 D080	00080		5883=FPB2	TM COMPFGLS,COMPmode	00723001
003A0A	4710 C096		03A12	5884=	BO FPG2	00724001
003A0E	4540 C6D4		04050	5885=	BAL R4,LOADR1	00725001
003A12	5830 C808		04184	5886=FPG2	L R3,FGBGADR	00726001
003A16	0543			5887=	BALR R4,R3	00727001
003A18	9530 A000	00000		5888=	CLI 0(R10),X'30'	00728001
003A1C	4770 C0B4		03A30	5889=	BNE FPC5	00729001
003A20	58B0 5194		001DC	5890=	L R11,DECAADD	00730001
003A24	94FE D080	00080		5891=	NI COMPFGLS,255-OPERAND	00731001
003A28	4199 000A		0000A	5892=	LA R9,10(R9)	00732001
003A2C	46A0 503C		00084	5893=FPG3	BCT R10,SPECTEST	00733001
003A30	9103 9006	00006		5894=FPC5	TM 6(R9),X'03'	00734001
003A34	4770 C0C2		03A3E	5895=	BNZ FPD5	00735001
003A38	4540 5318		00360	5896=FPD4	BAL R4,SERR3	00736001
003A3C	00A8			5897=	DC H'168'	00737001
				5898=*		00738001
003A3E	9533 A000	00000		5899=FPD5	CLI 0(R10),X'33'	00739001
003A42	4780 C0CE		03A4A	5900=	BE FPE4	00740001
003A46	58B0 51A0		001E8	5901=	L R11,EXC	00741001
003A4A	4199 000A		0000A	5902=FPE4	LA R9,10(R9)	00742001
003A4E	4540 5D02		00D4A	5903=	BAL R4,STACKAPI	00743001
003A52	47F0 C0B0		03A2C	5904=	B FPG3	00744001
				5905=*		00745001
				5906=*	SUBROUTINE FOR TYPE TEST OF CURR PAR	00746001
				5907=*		00747001
003A56	5040 C80C		04188	5908=FQA2	ST R4,LOADR1R	00748001
003A5A	9110 9000	00000		5909=	TM 0(R9),X'10'	00749001
003A5E	4710 C03E		039BA	5910=	BO FOF2	00750001
003A62	9108 9001	00001		5911=	TM 1(R9),X'08'	00751001
003A66	4710 C1D6		03B52	5912=	BO FQJ1	00752001
003A6A	9103 C7FC	04178		5913=	TM FOF2PCH,X'03'	00753001
003A6E	4780 C130		03AAC	5914=	BZ FQD3	00754001
003A72	9104 9001	00001		5915=	TM 1(R9),X'04'	00755001
003A76	4710 C102		03A7E	5916=	BO FQA2A	00756001
003A7A	4540 5E9A		00EE2	5917=	BAL R4,ARRTEST1	00757001
003A7E	D700 C7FC	9001 04178	00001	5918=FQA2A	XC FOF2PCH(1),1(R9)	00758001
003A84	9107 C7FC	04178		5919=	TM FOF2PCH,X'07'	00759001
003A88	5840 C80C		04188	5920=	L R4,LOADR1R	00760001
003A8C	0784			5921=	BZR R4	00761001
003A8E	4710 C1D6		03B52	5922=	BO FQJ1	00762001
003A92	9108 C7FC	04178		5923=	TM FOF2PCH,X'08'	00763001
003A96	4710 C1D6		03B52	5924=	BO FQJ1	00764001
003A9A	9103 C7FC	04178		5925=	TM FOF2PCH,X'03'	00765001
003A9E	47E0 C1D6		03B52	5926=	BNO FQJ1	00766001
003AA2	9103 9001	00001		5927=	TM 1(R9),X'03'	00767001



Active USINGS: IEX50000+X'397C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
003AA6	47B0 C1D6		03B52	5928=	BNM	FQJ1	ERROR IF NOT ARITHM TYPE 00768001
003AAA	07F4			5929=	BR	R4	RETURN 00769001
				5930=*			00770001
003AAC	910C C7FC	04178		5931=FQD3	TM	FOE2PCH,X'0C'	STRING INDIC BY PROCEDURE ID ? 00771001
003AB0	4770 C142		03ABE	5932=	BNZ	FQE3	NO 00772001
003AB4	9101 9000	00000		5933=	TM	0(R9),X'01'	PAR STRING ? 00773001
003AB8	4780 C1D6		03B52	5934=	BZ	FQJ1	NO, ERROR 00774001
003ABC	07F4			5935=	BR	R4	RETURN 00775001
				5936=*			00776001
003ABE	91C0 9001	00001		5937=FQE3	TM	1(R9),X'C0'	PAR PROCEDURE ? 00777001
003AC2	4780 C1D6		03B52	5938=	BZ	FQJ1	NO, ERROR 00778001
003AC6	4710 C156		03AD2	5939=	BO	FQF3	IF PROCEDURE 00779001
003ACA	9180 9001	00001		5940=	TM	1(R9),X'80'	PAR STAND PROCEDURE ? 00780001
003ACE	4710 C1D6		03B52	5941=	BO	FQJ1	YES, ERROR 00781001
003AD2	9130 9001	00001		5942=FQF3	TM	1(R9),X'30'	PAR FORMAL PARAMETER ? 00782001
003AD6	47B0 C166		03AE2	5943=	BNM	FQG3	NO 00783001
003ADA	9120 9001	00001		5944=	TM	1(R9),X'20'	YES, IS IT CALLED BY VALUE 00784001
003ADE	4710 C1D6		03B52	5945=	BO	FQJ1	ERROR IF YES 00785001
003AE2	9180 D080	00080		5946=FQG3	TM	COMPLG5,COMPmode	SYNTAX CHECK MODE ? 00786001
003AE6	4710 C05E		039DA	5947=	BO	FOF4	YES, BRANCH 00787001
003AEA	9110 9001	00001		5948=	TM	1(R9),X'10'	FORMAL PAR CALLED BY NAME ? 00788001
003AEE	4710 C1C0		03B3C	5949=	BO	FQH4	YES 00789001
003AF2	91E0 9003	00003		5950=	TM	3(R9),X'E0'	MORE THAN ONE PARAMETER ? 00790001
003AF6	4770 C1D6		03B52	5951=	BNZ	FQJ1	YES, ERROR 00791001
003AFA	9110 9003	00003		5952=	TM	3(R9),X'10'	DOES IT HAVE ONE PARAMETER 00792001
003AFE	4780 C1D6		03B52	5953=	BZ	FQJ1	ERROR IF NOT 00793001
003B02	D200 C1B3	9002	03B2F	5954=	MVC	FQG35+1(1),2(R9)	PBN TO GENERATED CODE 00794001
003B08	D100 C1BE	9008	03B3A	5955=	MVN	FQG36+4(1),8(R9)	00795001
003B0E	D200 C1BF	9009	03B3B	5956=	MVC	FQG36+5(1),9(R9)	MOVE LABEL NUMBER 00796001
003B14	4540 C7E2		0415E	5957=	BAL	R4,GETPARP	00797001
003B18	40F0 C1BC		03B38	5958=	STH	R15,FQG36+2	STORE DISP IN GENERATED CODE 00798001
003B1C	96A0 C1BC		03B38	5959=	OI	FQG36+2,X'A0'	REG CDSA TO GENERATED CODE 00799001
003B20	4120 C1B2		03B2E	5960=	LA	R2,FQG35	00800001
003B24	45E0 5588		005D0	5961=	BAL	R14,GENTXTS	00801001
003B28	000E			5962=	DC	H'14'	GENERATE 14 BYTES 00802001
003B2A	47F0 C05E		039DA	5963=	B	FOF4	00803001
				5964=*			00804001
003B2E	9200 D0A9	000A9		5965=FQG35	MVI	PROLPBN(FSA),X'0'	*** GENERATED CODE *** 00805001
003B32	90BC D0A0		000A0	5966=	STM	PBT,LAT,PROLREG(FSA)	*** GENERATED CODE *** 00806001
003B36	D203 A000	C000	00000	5967=FQG36	MVC	0(4,CDSA),0(LAT)	*** GENERATED CODE *** 00807001
				5968=*			00808001
003B3C	943F 9001	00001		5969=FQH4	NI	1(R9),X'3F'	REMOVE PROCEDURE BITS FOR OPDREC 00809001
003B40	4540 C71E		0409A	5970=	BAL	R4,ADRTANS	ADDRESS TRANSFER (CALL ACT PAR) 00810001
003B44	47F0 C05E		039DA	5971=	B	FOF4	00811001
				5972=*			00812001
003B48	4540 5380		003C8	5973=FPA1	BAL	R4,SERR1	ERROR PATTERN ENTRIES 00813001
003B4C	00BB			5974=	DC	H'187'	ERROR 187 00814001
				5975=*			00815001
003B4E	47F0 C096		03A12	5976=	B	FPG2	00816001
				5977=*			00817001
003B52	4540 5380		003C8	5978=FQJ1	BAL	R4,SERR1	00818001
003B56	00BC			5979=	DC	H'188'	ERROR 188 00819001
				5980=*			00820001
003B58	47F0 C03E		039BA	5981=	B	FOH2	00821001
				5982=*			00822001
				5983=*		CONSTRUCT FLAGS	00823001
				5984=*			00824001
003B5C	9108 C7FC	04178		5985=FRA3	TM	FOE2PCH,X'08'	PROCEDURE SPECIFY 'NAME' ? 00825001
003B60	4780 C056		039D2	5986=	BZ	FOD4	NO 00826001
003B64	9104 9001	00001		5987=	TM	1(R9),X'04'	CURRENT PARAMETER ARRAY ? 00827001
003B68	4710 C056		039D2	5988=	BO	FOD4	YES 00828001
003B6C	9130 9001	00001		5989=	TM	1(R9),X'30'	FORMAL PAR 00829001
003B70	4780 C264		03BE0	5990=	BNM	FRF3	NO 00830001
003B74	9120 9001	00001		5991=	TM	1(R9),X'20'	YES, CALLED BY NAME ? 00831001
003B78	4710 C264		03BE0	5992=	BO	FRF3	NO 00832001
003B7C	4190 9005	00005		5993=	LA	R9,5(,R9)	ADJUST R9 FOR ROUT 1 00833001
003B80	4540 593C		00984	5994=	BAL	R4,ROUTINE1	GET ADDR OF FORMAL PARAMETER 00834001
003B84	4890 5170		001B8	5995=	SH	R9,KH5	RESTORE R9 00835001
003B88	4810 DA6A		00A6A	5996=	LA	R1,WPLACE	GET ADDR OF 00836001
003B8C	4110 1004		00004	5997=	LA	R1,4(,R1)	CHAR BYTES 00837001
003B90	4010 C224		03BA0	5998=	STH	R1,FRE24+2	TO GEN C 00838001
003B94	D300 C224	DA72	03BA0	5999=	MVZ	FRE24+2(1),VPLACE	00839001
003B9A	4520 55A2		005EA	6000=	BAL	R2,GENTXT4	GENERATE 4 BYTES 00840001
				6001=*			GENERATE 'NO ASSIGNMENT TEST' 00841001
003B9E	9108 0000	00000		6002=FRE24	TM	0(0),X'08'	*** GENERATED CODE *** 00842001
003BA2	9102 9012	00012		6003=	TM	18(R9),X'02'	PROCEDURE IDENTIFIER SYSACT ? 00843001
003BA6	4710 C240		03BBC	6004=	BO	FRG2	YES 00844001
003BAA	4520 55A2		005EA	6005=	BAL	R2,GENTXT4	NO, GENERATE BR TO OBJ T ERROR 00845001
003BAE	471D 0224		00224	6006=	BO	OERR22(FSA)	*** GENERATED CODE *** 00846001
003BB2	D200 9002	DA5D	00002	6007=	MVC	2(1,R9),SPBNST+1	CURR PBN TO PARAMETER 00847001
003BB8	47F0 C056		039D2	6008=	B	FOD4	00848001
				6009=*			00849001
003BBC	4540 C7E2		0415E	6010=FRG2	BAL	R4,GETPARP	GET DISP IN OBJ TIME STACK 00850001
003BC0	40F0 C262		03BDE	6011=	STH	R15,FRG25+2	STORE IT IN GENERATED CODE 00851001
003BC4	96A0 C262		03BDE	6012=	OI	FRG25+2,X'A0'	INSERT REG NUMBER 00852001
003BC8	4120 C25A		03BD6	6013=	LA	R2,FRG24	GEN INSERTION OF NO-ASS-FLAG 00853001
003BCC	45E0 5588		005D0	6014=	BAL	R14,GENTXTS	IF PROC ID IS SYSACT 00854001
003BD0	000A			6015=	DC	H'10'	GENERATE 10 BYTES 00855001
				6016=*			00856001
003BD2	47F0 C056		039D2	6017=	B	FOD4	00857001
				6018=*			00858001
003BD6	05E0			6019=FRG24	BALR	R14,0	*** GENERATED CODE *** 00859001
003BD8	478E 0008		00008	6020=	BZ	8(R14)	*** GENERATED CODE *** 00860001
003BDC	9240 A000	00000		6021=FRG25	MVI	0(CDSA),X'40'	*** GENERATED CODE *** 00861001
				6022=*			00862001
003BE0	9108 9000	00000		6023=FRF3	TM	0(R9),X'08'	NO ASSIGNM FLAG IN PARAMETER ? 00863001



Active USINGS: IEX50000+X'397C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
003D0A	45E0 C39C		03D18	6120=FSG4	BAL	R14,FSSUBR	CHECK OF INTEGER CONST ETC
003D0E	D200 900B	DA4D 0000B	00A4D	6121=	MVC	11(1,R9),OPDADR+1	STORE DATASETNUMBER IN PTR+1
003D14	47F0 C05E		039DA	6122=	B	FOF4	
				6123=*			
				6124=*		CHECK PARAMETER	
				6125=*			
003D18	91FC 9001	00001		6126=FSSUBR	TM	1(R9),X'FC'	INTEGER CONST, 1ST TEST
003D1C	4770 C3CE		03D4A	6127=	BNZ	FSSUBR1	NO, BRANCH
003D20	91C0 9000	00000		6128=	TM	0(R9),X'C0'	INTEGER CONST, 2ND TEST
003D24	47E0 C3CE		03D4A	6129=	BNO	FSSUBR1	NO, BRANCH
003D28	91FF 9002	00002		6130=	TM	2(R9),X'FF'	CONST IN CONST POOL ZERO ?
003D2C	4770 C3C4		03D40	6131=	BNZ	FSE1	ERROR IF NOT CONSTPOOL ZERO
003D30	4540 5CE8		00D30	6132=	BAL	R4,DECOMP	DECOMPOSE OPERAND
003D34	48F0 DA4C		00A4C	6133=	LH	R15,OPDADR	GET DISP IN CONST POOL ZERO
003D38	8AF0 0006		00006	6134=	SRA	R15,6	
003D3C	4780 C3D2		03D4E	6135=	BZ	FSSUBR2	CONST < 16, BRANCH
003D40	4540 5380		003C8	6136=FSE1	BAL	R4,SERR1	ERROR IF NOT
003D44	00B0			6137=	DC	H'189'	ERROR 189
				6138=*			
003D46	47F0 C05E		039DA	6139=	B	FOF4	
				6140=*			
003D4A	9240 DA4D	00A4D		6141=FSSUBR1	MVI	OPDADR+1,X'40'	4*16 INTO OPDADR+1
003D4E	9200 DA4C	00A4C		6142=FSSUBR2	MVI	OPDADR,0	ZERO TO OPDADR FIRST BYTE
003D52	48F0 DA4C		00A4C	6143=	LH	R15,OPDADR	
003D56	8AF0 0002		00002	6144=	SRA	R15,2	
003D5A	412F DA30		00A30	6145=	LA	R2,IOTAB(R15)	ADDR OF IOTAB ENTRY
003D5E	07FE			6146=	BR	R14	RETURN
				6147=*			
				6148=*		PROCESS ACTUAL PARAMETER FOR STANDARD FUNCTION PROCEDURE	
				6149=*			
003D60	9526 8000	00000		6150=FTB2	CLI	0(R8),XFRBRAC	SOURCE RIGHT BRACKET ?
003D64	4780 C3F4		03D70	6151=	BE	FTC2	YES, BRANCH
003D68	9680 D080	00080		6152=	OI	COMPFLGS,COMPMODE	SET SYNTAX CHECK MODE
003D6C	47F0 C05E		039DA	6153=	OI	FOF4	
				6154=*			
003D70	9180 D080	00080		6155=FTC2	TM	COMPFLGS,COMPMODE	SYNTAX CHECK MODE ?
003D74	4710 C05E		039DA	6156=	BO	FOF4	YES
003D78	06A0			6157=	BCTR	R10,0	NO, CLEAR ONE OPERATOR
003D7A	9533 A000	00000		6158=	CLI	0(R10),X'33'	TEST CONTEXT OPERATOR
003D7E	4740 C43C		03DB8	6159=	BL	FTD3	PRC OPT, BRANCH
003D82	4780 C40E		03D8A	6160=	BE	FTE1	STC OPT, BRANCH
003D86	58B0 51A0		001E8	6161=	L	R11,EXC	SWITCH TO EXPR CONTEXT
003D8A	06A0			6162=FTE1	BCTR	R10,0	CLOPT
003D8C	9180 9013	00013		6163=	TM	19(R9),X'80'	ABS, SIGN, LENGTH, ENTIER ?
003D90	4780 C526		03EA2	6164=	BZ	FUB2	NO
003D94	4540 578A		007D2	6165=	BAL	R4,OPDREC	EXAMINE PARAMETER
003D98	95E0 9013	00013		6166=	CLI	19(R9),X'E0'	PROCEDURE ID 'LENGTH' ?
003D9C	4780 C456		03DD2	6167=	BE	FTG1	YES
003DA0	95F0 9013	00013		6168=	CLI	19(R9),X'F0'	PROCURE 'ENTIER' ?
003DA4	4780 C53A		03EB6	6169=	BE	FUD1	YES
003DA8	9102 9001	00001		6170=FTH2	TM	1(R9),X'02'	PARAMETER OF TYPE REAL ?
003DAC	4710 C526		03EA2	6171=	BO	FUB2	YES
003DB0	4540 545E		004A6	6172=	BAL	R4,TRINRE	NO, GENERATE INTEGER REAL CONV
003DB4	47F0 C526		03EA2	6173=	B	FUB2	
				6174=*			
003DB8	58B0 5194		001DC	6175=FTD3	L	R11,DECAADD	SWITCH TO PROGRAM CONTEXT
003DBC	D201 DA64	900D 00A64	0000D	6176=	MVC	HALFW,13(R9)	
003DC2	4870 DA64		00A64	6177=	LH	R7,HALFW	RESTORE OBJ TIME STACK PTR
003DC6	94FE D080	00080		6178=	NI	COMPFLGS,255-OPERAND	RESET OPERAND
003DCA	4199 0014		00014	6179=	LA	R9,20(R9)	CLEAR FOUR OPERANDS
003DCE	46A0 503C		00084	6180=	BCT	R10,SPECTEST	CLOPT, BRANCH TO SPECIAL TEST
				6181=*			
				6182=*		GENERATE CODE FOR 'LENGTH'	
				6183=*			
003DD2	4540 5CB4		00CFC	6184=FTG1	BAL	R4,ROUTIN15	LOAD VW-PLACE
003DD6	D201 C494	DA6A 03E10	00A6A	6185=	MVC	FTG12+4(2),WPLACE	ADDR OF STRING TO GEN CODE
003DDC	D300 C494	DA72 03E10	00A72	6186=	MVZ	FTG12+4(1),VPLACE	
003DE2	4540 5AB0		00AF8	6187=	BAL	R4,ROUTINE7	FIND NEXT GPR
003DE6	18FE			6188=	LR	R15,R14	
003DE8	89E0 0004		00004	6189=	SLL	R14,4	STORE
003DEC	42E0 C497		03E13	6190=	STC	R14,FTG13+1	REG NR
003DF0	42E0 C498		03E17	6191=	STC	R14,FTG13+5	IN
003DF4	42E0 C49D		03E19	6192=	STC	R14,FTG13+7	GENER CODE
003DF8	16FE			6193=	OR	R15,R14	
003DFA	42F0 C806		04182	6194=	STC	R15,FUOTRG	SAVE REG NUMBER USED
003DFE	4120 C490		03E0C	6195=	LA	R2,FTG12	
003E02	45E0 5588		005D0	6196=	BAL	R14,GENTXTS	
003E06	000E			6197=	DC	H'14'	GENERATE 14 BYTES
				6198=*			
003E08	47F0 C6B6		04032	6199=	B	FUF1	
				6200=*			
003E0C	D201 D09C	0000 0009C	00000	6201=FTG12	MVC	HW(2,FSA),0(0)	*** GENERATED CODE ***
003E12	4800 D09C		0009C	6202=FTG13	LH	0,HW(0,FSA)	*** GENERATED CODE ***
003E16	0600			6203=	BCTR	0,0	*** GENERATED CODE ***
003E18	0600			6204=	BCTR	0,0	*** GENERATED CODE ***
				6205=*			
				6206=*		GENERATE CODE FOR 'SIGN'	
				6207=*			
003E1A	4130 C4DC		03E58	6208=FTG3	LA	R3,FTG35	RETURN ADDR IF VALUE IN REG
003E1E	4540 5CB4		00CFC	6209=	BAL	R4,ROUTIN15	LOAD VW-PLACE IF NOT VAL IN REG
003E22	4540 5BBE		00C06	6210=	BAL	R4,ROUTIN11	FIND NEXT FPR
003E26	18FE			6211=	LR	R15,R14	REG
003E28	89F0 0004		00004	6212=	SLL	R15,4	NR
003E2C	42F0 C4CF		03E4B	6213=	STC	R15,FTG31+1	TO
003E30	16FE			6214=	OR	R15,R14	GENER
003E32	42F0 C4D7		03E53	6215=	STC	R15,FTG33+1	CODE

Active USINGS: IEX50000+X'397C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
003E36	4540 5C08		00C50	6216=	BAL	R4,ROUTIN12	REG NOT OCCUPIED 01056001
003E3A	D201 C4D0 DA6A 03E4C	00A6A		6217=	MVC	FTG31+2(2),VPLACE	01057001
003E40	D300 C4D0 DA72 03E4C	00A72		6218=	MVZ	FTG31+2(1),VPLACE	ADDR TO GENER CODE 01058001
003E46	4520 5594	005DC		6219=	BAL	R2,GENTXTP4	GENERATE 4 BYTES 01059001
003E4A	6800 0000	00000		6220=FTG31	LD	0,0(0)	*** GENERATED CODE *** 01060001
003E4E	4520 5598	005E0		6221=FTG32	BAL	R2,GENTXTP2	GENERATE 2 BYTES 01061001
003E52	2200			6222=FTG33	LTDR	0,0	*** GENERATED CODE *** 01062001
003E54	47F0 C4EA		03E66	6223=	B	FTH4	01063001
				6224=*			01064001
003E58	D200 C4D7 DA72 03E53	00A72		6225=FTG35	MVC	FTG33+1(1),VPLACE	REG NUMBER TO GENER CODE 01065001
003E5E	4540 5C08	00C50		6226=	BAL	R4,ROUTIN12	REG NOT OCCUPIED 01066001
003E62	47F0 C4D2		03E4E	6227=	B	FTG32	01067001
				6228=*			01068001
003E66	4540 5AB0		00AF8	6229=FTH4	BAL	R4,ROUTINE7	FIND NEXT GPR 01069001
003E6A	18FE			6230=	LR	R15,R14	01070001
003E6C	89E0 0004		00004	6231=	SLL	R14,4	01071001
003E70	16FE			6232=	OR	R15,R14	01072001
003E72	42F0 C806		04182	6233=	STC	R15,FUOTRG	SAVER REG NUMBER 01073001
003E76	42E0 C517		03E93	6234=	STC	R14,FTH42+3	REG 01074001
003E7A	42E0 C51F		03E9B	6235=	STC	R14,FTH43+1	NUMBER TO 01075001
003E7E	42E0 C525		03EA1	6236=	STC	R14,FTH43+7	GENER CODE 01076001
003E82	4120 C514		03E90	6237=	LA	R2,FTH42	01077001
003E86	45E0 5588		005D0	6238=	BAL	R14,GENTXTS	01078001
003E8A	0012			6239=	DC	H'18'	01079001
				6240=*			GENERATE 18 BYTES 01080001
003E8C	47F0 C6B6		04032	6241=	B	FUF1	01081001
				6242=*			01082001
003E90	05F0			6243=FTH42	BALR	BRR,0	*** GENERATED CODE *** 01083001
003E92	4100 0001		00001	6244=	LA	0,1	*** GENERATED CODE *** 01084001
003E96	4720 F010		00010	6245=	BP	16(,BRR)	*** GENERATED CODE *** 01085001
003E9A	0600			6246=FTH43	BCTR	0,0	*** GENERATED CODE *** 01086001
003E9C	4780 F010		00010	6247=	BZ	16(,BRR)	*** GENERATED CODE *** 01087001
003EA0	0600			6248=	BCTR	0,0	*** GENERATED CODE *** 01088001
				6249=*			01089001
003EA2	9580 9013		00013	6250=FUB2	CLI	19(R9),X'80'	PROCEDURE ID 'ABS' ? 01090001
003EA6	4780 C604		03F80	6251=	BE	FUB3	YES 01091001
003EAA	95C0 9013		00013	6252=	CLI	19(R9),X'C0'	'SIGN' ? 01092001
003EAE	4780 C49E		03E1A	6253=	BE	FTG3	YES 01093001
003EB2	47F0 C654		03FD0	6254=	B	FUD2	01094001
				6255=*			01095001
				6256=*		GENERATE CALL OF 'ENTIER'	01096001
				6257=*			01097001
003EB6	9103 9001		00001	6258=FUD1	TM	1(R9),X'03'	OPERAND INTEGER ? 01098001
003EBA	4780 C54A		03EC6	6259=	BNM	FUD12	01099001
003EBE	9101 9001		00001	6260=	TM	1(R9),X'01'	01100001
003EC2	4710 C5DC		03F58	6261=	BO	FUD14	YES 01101001
003EC6	4130 C5A8		03F24	6262=FUD12	LA	R3,FUD13	RETURN ADDR IF VALUE IN REG 01102001
003ECA	4540 5CB4		00CFC	6263=	BAL	R4,ROUTIN15	LOAD VW-PLACE IF NOT VAL IN REG 01103001
003ECE	9101 DA49		00A49	6264=	TM	RIR+1,X'01'	FPR0 FREE ? 01104001
003ED2	4780 C562		03EDE	6265=	BZ	FUD10	YES 01105001
003ED6	4540 5C64		00CAC	6266=	BAL	R4,ROUTIN14	NO, CLEAR IT 01106001
003EDA	94FE DA49		00A49	6267=	NI	RIR+1,X'FE'	SET FPR0 NOT OCCUPIED 01107001
003EDE	D201 C574 DA6A 03EF0	00A6A		6268=FUD10	MVC	FUD15+2(2),VPLACE	01108001
003EE4	D300 C574 DA72 03EF0	00A72		6269=	MVZ	FUD15+2(1),VPLACE	ADDR OF VALUE TO GEN CODE 01109001
003EEA	4520 5594	005DC		6270=	BAL	R2,GENTXTP4	GENERATE 4 BYTES 01110001
003EEE	6800 0000	00000		6271=FUD15	LD	0,0(0,0)	*** GENERATED CODE *** 01111001
003EF2	4540 5AB0		00AF8	6272=FUD11	BAL	R4,ROUTINE7	INDICATE NEXT GPR 01112001
003EF6	18FE			6273=	LR	R15,R14	01113001
003EF8	89E0 0004		00004	6274=	SLL	R14,4	01114001
003EFC	42E0 C5A3		03F1F	6275=	STC	R14,FUD16+1	REG NUMBER TO GEN CODE 01115001
003F00	960E C5A3		03F1F	6276=	OI	FUD16+1,X'0E'	REG R14 TO GEN CODE 01116001
003F04	16FE			6277=	OR	R15,R14	01117001
003F06	42F0 C806		04182	6278=	STC	R15,FUOTRG	SAVE REG NUMBER USED 01118001
003F0A	9101 DA46		00A46	6279=	TM	RIR,X'01'	ADR FREE ? 01119001
003F0E	4780 C59A		03F16	6280=	BZ	FUD17	YES 01120001
003F12	4540 5B46		00B8E	6281=	BAL	R4,ROUTIN10	NO, CLEAR IT 01121001
003F16	4520 55A6		005EE	6282=FUD17	BAL	R2,GENTXT6	GENERATE 6 BYTES 01122001
003F1A	458D 0140		00140	6283=	BAL	ADR,ENTIER(FSA)	*** GENERATED CODE *** 01123001
003F1E	180E			6284=FUD16	LR	0,R14	*** GENERATED CODE *** 01124001
003F20	47F0 C6B6		04032	6285=	B	FUF1	01125001
				6286=*			01126001
003F24	91F0 9003		00003	6287=FUD13	TM	3(R9),X'F0'	VALUE IN FPR0 ? 01127001
003F28	4780 C5D4		03F50	6288=	BZ	FUD18	YES 01128001
003F2C	9101 DA49		00A49	6289=	TM	RIR+1,X'01'	NO, FPR0 FREE ? 01129001
003F30	4780 C5C0		03F3C	6290=	BZ	*+12	YES 01130001
003F34	4540 5C64		00CAC	6291=	BAL	R4,ROUTIN14	NO, CLEAR IT 01131001
003F38	94FE DA49		00A49	6292=	NI	RIR+1,X'FE'	SET FPR0 NOT OCCUPIED 01132001
003F3C	D100 C5CB DA72 03F47	00A72		6293=	MVN	FUD19+1(1),VPLACE	REG NUMBER TO GENER CODE 01133001
003F42	4520 5598	005E0		6294=	BAL	R2,GENTXTP2	01134001
003F46	2800			6295=FUD19	LDR	0,0	*** GENERATED CODE *** 01135001
003F48	4540 5C08		00C50	6296=	BAL	R4,ROUTIN12	REG NOT OCCUPIED 01136001
003F4C	47F0 C576		03EF2	6297=	B	FUD11	01137001
				6298=*			01138001
003F50	94FE DA49		00A49	6299=FUD18	NI	RIR+1,X'FE'	SET FPR0 NOT OCCUPIED 01139001
003F54	47F0 C576		03EF2	6300=	B	FUD11	01140001
				6301=*			01141001
003F58	D204 900F 9000 0000F	00000		6302=FUD14	MVC	15(5,R9),0(R9)	PARAMETER IS INSERTED AS RESULT 01142001
003F5E	9140 9000		00000	6303=	TM	0(R9),X'40'	VALUE OR ADDR IN REG 01143001
003F62	4710 C6AE		0402A	6304=	BO	FUG3	NO 01144001
003F66	1B44			6305=	SR	R4,R4	01145001
003F68	4349 0003		00003	6306=	IC	R4,3(R9)	GET 01146001
003F6C	8840 0004		00004	6307=	SRL	R4,4	REG NUMBER 01147001
003F70	8940 0002		00002	6308=	SLL	R4,2	4 TIMES REG NUMBER 01148001
003F74	4190 900F		0000F	6309=	LA	R9,15(,R9)	ADJUST R9 01149001
003F78	5094 D5C0		005C0	6310=	ST	R9,RUTI(R4)	INTRODUCE CORRECT R9 ADDR 01150001
003F7C	47F0 503C		00084	6311=	B	SPECTEST	BRANCH TO SPECIAL TEST 01151001



Active USINGS: IEX50000+X'397C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				6312=*			01152001
				6313=*	GENERATE CODE FOR 'ABS'		01153001
				6314=*			01154001
003F80	4130 C63E		03FBA	6315=FUB3	LA R3,FUB4	RETURN ADDR IF VALUE IN REG	01155001
003F84	4540 5CB4		00CFC	6316=	BAL R4,ROUTIN15	LOAD VW-PLACE IF NOT VAL IN REG	01156001
003F88	4540 5BBE		00C06	6317=	BAL R4,ROUTIN11	FIND NEXT FPR	01157001
003F8C	18FE			6318=	LR R15,R14		01158001
003F8E	89F0 0004		00004	6319=	SLL R15,4		01159001
003F92	42F0 C631		03FAD	6320=	STC R15,FUB31+1	REG NUMBER TO GEN CODE	01160001
003F96	16FE			6321=	OR R15,R14	SAVE REG NUMBER	01161001
003F98	42F0 C806		04182	6322=	STC R15,FUOTRG	IN TWO HALF BYTES	01162001
003F9C	D201 C632 DA6A 03FAE 00A6A		00A6A	6323=	MVC FUB31+2(2),WPLACE	ADDR OF VALUE TO GENER CODE	01163001
003FA2	D300 C632 DA72 03FAE 00A72		00A72	6324=	MVZ FUB31+2(1),VPLACE		01164001
003FA8	4520 5594		005DC	6325=	BAL R2,GENTXTP4	GENERATE 4 BYTES	01165001
003FAC	6800 0000		00000	6326=FUB31	LD 0,0(0)	*** GENERATED CODE ***	01166001
003FB0	D200 C64F C806 03FCB 04182		04182	6327=	MVC FUB41+1(1),FUOTRG	REG NUMBER TO NEXT GENER INSTR	01167001
003FB6	47F0 C64A		03FC6	6328=	B FUB42		01168001
				6329=*			01169001
003FBA	43F0 DA72		00A72	6330=FUB4	IC R15,VPLACE	REG NUMBER TO GENER CODE	01170001
003FBE	42F0 C64F		03FCB	6331=	STC R15,FUB41+1		01171001
003FC2	42F0 C806		04182	6332=	STC R15,FUOTRG	SAVE BYTE	01172001
003FC6	4520 5598		005E0	6333=FUB42	BAL R2,GENTXTP2	GENERATE 2 BYTES	01173001
003FCA	2000			6334=FUB41	LPDR 0,0	*** GENERATED CODE ***	01174001
003FCC	47F0 C670		03FEC	6335=	B FUF2		01175001
				6336=*			01176001
				6337=*	GENERATE CALL FOR REMAINING FUNCTIONS		01177001
				6338=*			01178001
003FD0	4540 C71E		0409A	6339=FUD2	BAL R4,ADRTRANS	GENERATE ADDR TRANSFER	01179001
003FD4	4199 000A		0000A	6340=	LA R9,10(R9)	ADJUST R9 FOR SUBROUTINE	01180001
003FD8	4540 C6D4		04050	6341=	BAL R4,LOADR1	GEN LOAD OF PARREG AND FNC CALL	01181001
003FDC	4B90 5176		001BE	6342=	SH R9,KH10	RESTORE R9	01182001
003FE0	9200 C806		04182	6343=	MVI FUOTRG,X'00'	INDICATE FPR0	01183001
003FE4	9601 DA49		00A49	6344=	OI RIR+1,X'01'	INDICATE FPR0 OCCUPIED	01184001
003FE8	9200 DA45		00A45	6345=	MVI CIR+1,X'00'		01185001
				6346=*			01186001
				6347=*	A FLOATING POINT REG IS USED		01187001
				6348=*			01188001
003FEC	1BFF			6349=FUF2	SR R15,R15	GET	01189001
003FEE	43F0 C806		04182	6350=	IC R15,FUOTRG	GET REG NUMBER USED	01190001
003FF2	88F0 0004		00004	6351=	SRL R15,4		01191001
003FF6	89F0 0001		00001	6352=	SLL R15,1	MULT BY 2	01192001
003FFA	4110 900F		0000F	6353=	LA R1,15(,R9)	ADDR OF OPERAND	01193001
003FFE	501F D5E4		005E4	6354=	ST R1,RUTR(R15)	TO RUTR	01194001
				6355=*			01195001
				6356=*	REPLACE PROCEDURE ID BY RESULT		01196001
				6357=*			01197001
004002	D201 DA64 900D 00A64 0000D		0000D	6358=FUG2	MVC HALFW,13(R9)	RESTORE OBJ TIME ST POINTER	01198001
004008	4870 DA64		00A64	6359=	LH R7,HALFW		01199001
00400C	4A70 DA56		00A56	6360=	AH R7,ONEENTRY	ADD SIZE OF ONE ENTRY	01200001
004010	4070 C804		04180	6361=	STH R7,FUOTSC+4	OBJ T STACK DISP TO GEN CODE	01201001
004014	D300 C804 C806 04180		04180	6362=	MVZ FUOTSC+4(1),FUOTRG	INSERT REGISTER NUMBER	01202001
00401A	D200 C803 DA5D 0417F 00A5D		00A5D	6363=	MVC FUOTSC+3(1),SPBNST+1	CURRENT PBN	01203001
004020	D204 900F C801 0000F 0417D		0417D	6364=	MVC 15(5,R9),FUOTSC+1	INSERT OPERAND INTO STACK	01204001
004026	9232 C802		0417E	6365=	MVI FUOTSC+2,X'32'	RESTORE TYPE 'REAL'	01205001
00402A	4199 000F		0000F	6366=FUG3	LA R9,15(R9)	CLEAR THREE OPERANDS	01206001
00402E	47F0 503C		00084	6367=	B SPECTEST	BRANCH TO SPECIAL TEST	01207001
				6368=*			01208001
				6369=*	A GENERAL REGISTER IS USED		01209001
				6370=*			01210001
004032	9231 C802		0417E	6371=FUF1	MVI FUOTSC+2,X'31'	INSERT TYPE 'INTEGER'	01211001
004036	1BFF			6372=	SR R15,R15	GET	01212001
004038	43F0 C806		04182	6373=	IC R15,FUOTRG	REG	01213001
00403C	88F0 0004		00004	6374=	SRL R15,4	NR	01214001
004040	89F0 0002		00002	6375=	SLL R15,2	MULTIPLY BY 4	01215001
004044	4110 900F		0000F	6376=	LA R1,15(,R9)	GET ADDR OF OPERAND	01216001
004048	501F D5C0		005C0	6377=	ST R1,RUTI(R15)	STORE ADDR IN RUTI	01217001
00404C	47F0 C686		04002	6378=	B FUG2		01218001
				6379=*			01219001
				6380=*	GEN LOAD PARREG AND STAND PROC CALL		01220001
				6381=*			01221001
004050	5040 C80C		04188	6382=LOADR1	ST R4,LOADR1R	SAVE RETURN ADDR	01222001
004054	9180 C807		04183	6383=	TM FUOTFP,X'80'	FPR0 USED BUT NOT CLEARED ?	01223001
004058	4780 C6E8		04064	6384=	BZ LOADR2	NO	01224001
00405C	947F C807		04183	6385=	NI FUOTFP,X'7F'	RESET INDICATOR	01225001
004060	4540 5706		0074E	6386=	BAL R4,CLEARRG	SAVE ALL REGS	01226001
004064	D201 DA64 9003 00A64 00003		00003	6387=LOADR2	MVC HALFW,3(R9)	GET	01227001
00406A	4870 DA64		00A64	6388=	LH R7,HALFW	ADDR OF	01228001
00406E	48F0 DA56		00A56	6389=	LH R15,ONEENTRY	PARAMETER	01229001
004072	1AF7			6390=	AR R15,R7	LIST	01230001
004074	40F0 C70C		04088	6391=	STH R15,FPB21+2	ADDR TO GENERATED CODE	01231001
004078	94FC 9009		00009	6392=	NI 9(R9),X'FC'	LAT DISP TO GENERATED CODE	01232001
00407C	D200 C715 9009 04091 00009		00009	6393=	MVC FPB22+3(1),9(R9)		01233001
004082	4520 55A2		005EA	6394=	BAL R2,GENTXT4	GENERATE 4 BYTES	01234001
004086	411A 0000		00000	6395=FPB21	LA R1,0(CDSA)	*** GENERATED CODE ***	01235001
00408A	4520 55A6		005EE	6396=	BAL R2,GENTXT6	GENERATE 6 BYTES	01236001
00408E	58FC 0000		00000	6397=FPB22	L ENTRY,0(LAT)	*** GENERATED CODE ***	01237001
004092	05EF			6398=	BALR R14,ENTRY	*** GENERATED CODE ***	01238001
004094	5840 C80C		04188	6399=	L R4,LOADR1R		01239001
004098	07F4			6400=	BR R4		01240001
				6401=*			01241001
				6402=*	GENERATE TRANSFER OF PARAM ADDR		01242001
				6403=*			01243001
00409A	5040 C80C		04188	6404=ADRTRANS	ST R4,LOADR1R	SAVE RETURN ADDR	01244001
00409E	4540 C7E2		0415E	6405=	BAL R4,GETPARP	GET DISP IN OBJ T STACK FOR PAR	01245001
0040A2	40F0 C774		040F0	6406=	STH R15,ADRTR2+2	DISP	01246001
0040A6	40F0 C78C		04108	6407=	STH R15,ADRTR4+2	TO	01247001

Active USINGS: IEX50000+X'397C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0040AA	40F0 C7AE		0412A	6408=	STH	R15,ADRT6+2	GENERATED 01248001
0040AE	40F0 C7D0		0414C	6409=	STH	R15,ADRT8+2	01249001
0040B2	9102 9010	00010		6410=	TM	16(R9),X'02'	STANDARD FUNCTION HANDLED ? 01250001
0040B6	4780 C7AE		040CA	6411=	BZ	ADTR0	NO 01251001
0040BA	9102 9001	00001		6412=	TM	1(R9),X'02'	YES, PARAMETER OF TYPE REAL ? 01252001
0040BE	4710 C7AE		040CA	6413=	BO	ADTR0	YES 01253001
0040C2	4540 578A		007D2	6414=	BAL	R4,OPDREC	NO, GENERATE CONVERSION 01254001
0040C6	4540 545E		004A6	6415=	BAL	R4,TRINRE	01255001
0040CA	4540 5DA8		00DF0	6416=ADRT0	BAL	R4,LDVWPLC	LOAD VWPLACE 01256001
0040CE	9120 9000	00000		6417=	TM	0(R9),X'20'	ADDR OR VALUE ? 01257001
0040D2	4710 C77A		040F6	6418=	BO	ADTR3	ADDR 01258001
0040D6	D201 C76C	DA6A 040E8	00A6A	6419=	MVC	ADTR1+2(2),WPLACE	MOVE ADDR OF VALUE TO GEN CODE 01259001
0040DC	D300 C76C	DA72 040E8	00A72	6420=	MVZ	ADTR1+2(1),VPLACE	01260001
0040E2	4520 55A2		005EA	6421=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01261001
0040E6	41E0 0000		00000	6422=ADRT1	LA	R14,0(0)	*** GENERATED CODE *** 01262001
0040EA	4520 55A2		005EA	6423=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01263001
0040EE	50EA 0000		00000	6424=ADRT2	ST	R14,0(CDSA)	*** GENERATED CODE *** 01264001
0040F2	47F0 C7B6		04132	6425=	B	ADTR7	01265001
				6426=*			01266001
0040F6	9680 C807		04183	6427=ADRT3	OI	FUOTFP,X'80'	INDICATE ADDR FROM ADR 01267001
0040FA	95AA DA72	00A72		6428=ADRT31	CLI	VPLACE,X'AA'	ADDR IN STACK ? 01268001
0040FE	4780 C796		04112	6429=	BE	ADTR5	YES 01269001
004102	4520 55A2		005EA	6430=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01270001
004106	508A 0000		00000	6431=ADRT4	ST	ADR,0(CDSA)	*** GENERATED CODE *** 01271001
00410A	4540 C7D8		04154	6432=	BAL	R4,RELADR	RELEASE REG ADR 01272001
00410E	47F0 C7B2		0412E	6433=	B	ADTR61	01273001
				6434=*			01274001
004112	D201 C7B0	DA6A 0412C	00A6A	6435=ADRT5	MVC	ADTR6+4(2),WPLACE	DISP IN STACK TO GENER CODE 01275001
004118	96A0 C7B0		0412C	6436=	OI	ADTR6+4,X'A0'	REG CDSA TO GENERATED CODE 01276001
00411C	96A0 C7AE		0412A	6437=	OI	ADTR6+2,X'A0'	01277001
004120	4870 DA56		00A56	6438=	SH	R7,ONEENTRY	RELEASE STACK 01278001
004124	4520 55A6		005EE	6439=	BAL	R2,GENTXT6	GENERATE 6 BYTES 01279001
004128	D203 0000	0000 00000	00000	6440=ADRT6	MVC	0(4,0),0(0)	*** GENERATED CODE *** 01280001
00412E	4540 5706		0074E	6441=ADRT61	BAL	R4,CLEARRG	RESTORE ALL REGISTERS USED 01281001
004132	9103 9010		00010	6442=ADRT7	TM	16(R9),X'03'	STAND FUNCTION HANDLED ? 01282001
004136	4770 C7D2		0414E	6443=	BNZ	ADTR9	YES, CONV ALREADY MADE IF NEC 01283001
00413A	9103 C7FC		04178	6444=	TM	FOE2PCH,X'03'	CONVERSION NECESSARY ? 01284001
00413E	4780 C7D2		0414E	6445=	BZ	ADTR9	NO 01285001
004142	96A0 C7D0		0414C	6446=	OI	ADTR8+2,X'A0'	REG CDSA TO GENERATED CODE 01286001
004146	4520 55A2		005EA	6447=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01287001
00414A	9680 0000		00000	6448=ADRT8	OI	0(0),X'80'	*** GENERATED CODE *** 01288001
00414E	5840 C80C		04188	6449=ADRT9	L	R4,LOADR1R	LOAD RETURN ADDR 01289001
004152	07F4			6450=	BR	R4	01290001
				6451=*			01291001
				6452=*		RELEASE OF REGISTER ADR	01292001
				6453=*			01293001
004154	4870 DA56		00A56	6454=RELADR	SH	R7,ONEENTRY	RELEASE STACK 01294001
004158	9701 DA46		00A46	6455=	XI	R11,RIIADRM	ADR NOT OCCUPIED 01295001
00415C	07F4			6456=	BR	R4	01296001
				6457=*			01297001
				6458=*		COMPUTE OBJ TIME ST DISP FOR PARAMETER	01298001
				6459=*			01299001
00415E	D201 DA64	900D 00A64	0000D	6460=GETPARP	MVC	HALFW,13(R9)	GET STORED P-VALUE 01300001
004164	1BFF			6461=	SR	R15,R15	01301001
004166	43F9 000A		0000A	6462=	IC	R15,10(R9)	GET NR OF PARAMS TIMES FOUR 01302001
00416A	4AF0 DA64		00A64	6463=	AH	R15,HALFW	ADD TO STORED P 01303001
00416E	4AF0 DA56		00A56	6464=	AH	R15,ONEENTRY	ADD SIZE OF ONE ENTRY 01304001
004172	48F0 516E		001B6	6465=	SH	R15,KH4	SUBTRACT SIZE OF ONE PAR ENTRY 01305001
004176	07F4			6466=	BR	R4	01306001
				6467=*			01307001
				6468=*		CONSTANTS AND AREAS	01308001
				6469=*			01309001
004178	0000			6470=FOE2PCH	DC	H'0'	SAVE PARAM CHAR FROM PROC ID 01310001
00417A	0000			6471=SYSACTF	DC	H'0'	TEMPORARY STORE OF SYSACT FUNCT 01311001
00417C	0088			6472=FUOTSC	DC	X'0088'	AREA TO BUILD 01312001
00417E	3200			6473=	DC	X'3200'	OPD REPR 01313001
004180	0000			6474=	DC	X'0000'	RESULT 01314001
004182	00			6475=FUOTRG	DC	X'00'	REGISTER NUMBER USED 01315001
004183	00			6476=FUOTFP	DC	X'00'	TO IND ADDR FROM ADR IF ST FUNC 01316001
004184	000038C2			6477=FGBGADR	DC	A(FGBG20)	01317001
004188	00000000			6478=LOADR1R	DC	F'0'	TO SAVE RETURN ADDR 01318001
				6479=*			01319001
				6480=*****			01320001
				6481=*			01321001
				6482=*		COMPILER PROGRAM - CP64	01322001
				6483=*			01323001
				6484=*****			01324001
				6485=*			01325001
				6486=*		OPENING BRACKET	01326001
				6487=*		CONTEXT	PROGRAM, STATEMENT, EXPRESSION 01327001
				6488=*		SOURCE OPERATOR	( 01328001
				6489=*		STACK OPERATOR	ANY 01329001
				6490=*		OPERAND	NONE OR PROCEDURE IDENTIFIER 01330001
				6491=*			01331001
				6492=		USING CP64,R12	01332001
00418C	9101 D080	R:C 0418C	00080	6493=CP64	TM	COMPFLGS,OPERAND	OPERAND ON ? 01333001
004190	4710 C01A		041A6	6494=	BO	GDAE1	YES, BRANCH 01334001
004194	5980 5194		001DC	6495=	C	R11,DECAADD	TEST CONTEXT 01335001
004198	4770 C14A		042D6	6496=	BNE	GDA3	NOT PROGRAM CONTEXT, BRANCH 01336001
00419C	4540 5318		00360	6497=	BAL	R4,SERR3	ERROR 01337001
0041A0	0080			6498=	DC	H'176'	ERROR 176 01338001
				6499=*			01339001
0041A2	4540 5D02		00D4A	6500=	BAL	R4,STACKAPI	API TO OPERAND STACK 01340001
0041A6	4540 5E30		00E78	6501=GDAE1	BAL	R4,MOVEOPTK	CURRENT CONTEXT OPERATOR TO R10 01341001
0041AA	D200 A000	B063 00000	00063	6502=	MVC	0(1,R10),99(R11)	01342001
0041B0	5980 5194		001DC	6503=	C	R11,DECAADD	PROGRAM CONTEXT ? 01343001

Active USINGS: IEX50000+X'418C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0041B4	4780 C046		041D2	6504=	BE	GDAG1	YES 01344001
0041B8	9110 9000	00000		6505=	TM	0(R9),X'10'	PROC API ? 01345001
0041BC	4710 C046		041D2	6506=	BO	GDAG1	YES 01346001
0041C0	9103 9001	00001		6507=	TM	1(R9),X'03'	'TYPE' PROCEDURE ? 01347001
0041C4	4770 C046		041D2	6508=	BNZ	GDAG1	YES 01348001
0041C8	4540 5318		00360	6509=	BAL	R4,SERR3	NO, ERROR 01349001
0041CC	00A8			6510=	DC	H'168'	ERROR 168 01350001
				6511=*			01351001
0041CE	47F0 C058		041E4	6512=	B	GDAH11	01352001
				6513=*			01353001
0041D2	5880 519C		001E4	6514=GDAG1	L	R11,STC	SWITCH TO STATEMENT CONTEXT 01354001
0041D6	91C0 9001	00001		6515=GDAH1	TM	1(R9),X'C0'	OPERAND PROCEDURE IDENTIFIER ? 01355001
0041DA	4770 C060		041EC	6516=	BNZ	GDAJ1	YES 01356001
0041DE	4540 5318		00360	6517=	BAL	R4,SERR3	NO, ERROR 01357001
0041E2	00B7			6518=	DC	H'183'	ERROR 183 01358001
				6519=*			01359001
0041E4	4540 5E38		00E80	6520=GDAH11	BAL	R4,MOVEOPDK	GET ONE R9 ENTRY 01360001
0041E8	47F0 C092		0421E	6521=	B	GDBC2	01361001
				6522=*			01362001
0041EC	4540 5E38		00E80	6523=GDAJ1	BAL	R4,MOVEOPDK	GET ONE R9 ENTRY 01363001
0041F0	9140 9006	00006		6524=	TM	6(R9),X'40'	STANDARD PROCEDURE ? 01364001
0041F4	4780 C102		0428E	6525=	BZ	GDCA1	YES 01365001
0041F8	9110 9005	00005		6526=GDBA1	TM	5(R9),X'10'	PROC API ? 01366001
0041FC	4710 C098		04224	6527=	BO	GDBA3	YES 01367001
004200	91F0 9008	00008		6528=	TM	8(R9),X'F0'	NUMBER OF PARAMETERS ZERO ? 01368001
004204	4770 C0E0		0426C	6529=	BNZ	GDBA2	NO 01369001
004208	9130 9006	00006		6530=	TM	6(R9),X'30'	IS PROCED FORMAL PARAMETER 01370001
00420C	4780 C08C		04218	6531=	BNM	GDBA1A	NO, ERROR 01371001
004210	9110 9006	00006		6532=	TM	6(R9),X'10'	CALLED BY NAME 01372001
004214	4710 C098		04224	6533=	BO	GDBA3	YES, OK 01373001
004218	4540 5380		003C8	6534=GDBA1A	BAL	R4,SERR1	01374001
00421C	00BB			6535=	DC	H'187'	ERROR 187 01375001
				6536=*			01376001
		0421E		6537=GDBB15	EQU	*	01377001
00421E	D204 9005	5182 00005	001CA	6538=GDBC2	MVC	5(5,R9),API	API REPLACES NEXT LAST ST ENTRY 01378001
004224	4540 5E38		00E80	6539=GDBA3	BAL	R4,MOVEOPDK	INCR OPERAND STACK 01379001
004228	4540 5E70		00E88	6540=GDBA4	BAL	R4,LATRES	RESERVE ONE LAT ENTRY 01380001
00422C	D201 9008	D0A2 00008	000A2	6541=GDBB4	MVC	8(2,R9),LN	LN TO R9 01381001
004232	D201 9000	DA50 00000	00A50	6542=	MVC	0(2,R9),ZEROHW	SET PARAM NUMBER TO ZERO 01382001
004238	9180 D080	00008		6543=	TM	COMPLFLGS,COMPmode	SYNTAX CHECK MODE ? 01383001
00423C	4710 C0CC		04258	6544=	BO	GDBH4	YES, BRANCH 01384001
004240	4540 5706		0074E	6545=	BAL	R4,CLEARRG	STORE ALL REGS USED 01385001
004244	D201 C0C4	D0A2 04250	000A2	6546=	MVC	GDBG45+2(2),LN	GENERATE BRANCH PAST THUNKS 01386001
00424A	4520 55A2		005EA	6547=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01387001
00424E	588C 0000	00000		6548=GDBG45	L	ADR,0(LAT)	*** GENERATED CODE *** 01388001
004252	4520 559E		005E6	6549=	BAL	R2,GENTXT2	GENERATE 2 BYTES 01389001
004256	07F8			6550=	BR	ADR	*** GENERATED CODE *** 01390001
004258	5060 D5F8		005F8	6551=GDBH4	ST	R6,WORKPL	01391001
00425C	D202 9002	D5F9 00002	005F9	6552=	MVC	2(3,R9),WORKPL+1	PRPOINT TO R9 01392001
004262	9229 A001	00001		6553=	MVI	1(R10),XFDELTA	PROCEDURE BRACKET TO R10 01393001
004266	4540 5E30		00E78	6554=GDBH42	BAL	R4,MOVEOPTK	INCREASE R10 01394001
00426A	07F5			6555=	BR	R5	BRANCH TO SUBSTART 01395001
				6556=*			01396001
00426C	91C0 9005	00005		6557=GDBA2	TM	5(R9),X'C0'	OPND IN REG OR OBJ TIME ST ? 01397001
004270	4740 C098		04224	6558=	BM	GDBA3	YES (NOT FORMAL PARAMETER) 01398001
004274	9130 9006	00006		6559=	TM	6(R9),X'30'	OPND FORMAL PARAMETER ? 01399001
004278	4780 C098		04224	6560=	BNM	GDBA3	NO 01400001
00427C	9120 9006	00006		6561=	TM	6(R9),X'20'	YES, CALLED BY VALUE ? 01401001
004280	4780 C098		04224	6562=	BZ	GDBA3	NO 01402001
004284	4540 5380		003C8	6563=GDBB2	BAL	R4,SERR1	YES, ERROR 01403001
004288	00AE			6564=	DC	H'174'	ERROR 174 01404001
				6565=*			01405001
00428A	47F0 C092		0421E	6566=	B	GDBB15	01406001
				6567=*			01407001
				6568=*		OPERAND IS STANDARD PROCEDURE ID	01408001
				6569=*			01409001
00428E	9180 D080	00008		6570=GDCA1	TM	COMPLFLGS,COMPmode	SYNTAX CHECK MODE ? 01410001
004292	4710 C13C		042C8	6571=	BO	GDCC1	YES, BRANCH 01411001
004296	9180 9009	00009		6572=	TM	9(R9),X'80'	ABS, SIGN, LENGTH, ENTIER ? 01412001
00429A	4710 C122		042AE	6573=	BO	GDCC1	YES 01413001
00429E	43F9 0009	00009		6574=	IC	R15,9(R9)	MOVE 0-BIT 01414001
0042A2	54F0 C15C		042E8	6575=	N	R15,HEXFC	INTO 01415001
0042A6	5AF0 D61C		0061C	6576=	A	R15,LATAB	CORR 01416001
0042AA	947F F000	00000		6577=	NI	0(R15),X'7F'	LAT ENTRY 01417001
0042AE	4070 DA64		00A64	6578=GDCC1	STH	R7,HALFW	STORE P-VALUE IN R9 01418001
0042B2	D201 9003	DA64 00003	00A64	6579=	MVC	3(2,R9),HALFW	01419001
0042B8	4A70 DA56		00A56	6580=	AH	R7,ONEENTRY	RESERVE SPACE FOR PARAM-LIST 01420001
0042BC	4177 0008	00008		6581=	LA	R7,8(R7)	01421001
0042C0	4070 D5F8		005F8	6582=	STH	R7,WORKPL	CHECK FOR P-OVERFLOW 01422001
0042C4	4540 58BA		00902	6583=	BAL	R4,MAXCH	01423001
0042C8	D201 9000	DA50 00000	00A50	6584=GDCG1	MVC	0(2,R9),ZEROHW	ZERO PARAM COUNT FIELD 01424001
0042CE	922A A001	00001		6585=	MVI	1(R10),X'2A'	STAND PROCEDURE BRACKET TO R10 01425001
0042D2	47F0 C0DA		04266	6586=	B	GDBH42	01426001
				6587=*			01427001
0042D6	5880 51A0		001E8	6588=GDA83	L	R11,EXC	SWITCH TO EXPR CONTEXT 01428001
0042DA	4540 5E30		00E78	6589=	BAL	R4,MOVEOPTK	SOURCE OPERATOR TO STACK 01429001
0042DE	D200 A000	8000 00000	00000	6590=	MVC	0(1,R10),0(R8)	01430001
0042E4	07F5			6591=	BR	R5	BRANCH TO SUBSTART 01431001
				6592=*			01432001
				6593=*		CONSTANT	01433001
				6594=*			01434001
0042E6	0000						
0042E8				6595=	DC	0F'0'	01435001
0042E8	000000FC			6596=HEXFC	DC	X'000000FC'	EXTRACT DISP IN LAT 01436001
				6597=*			01437001
				6598=*****			01438001



Active USINGs: IEX50000+X'418C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				6599=*		01439001
				6600=*	COMPILER PROGRAM - CP71	01440001
				6601=*		01441001
				6602=*	*****	01442001
				6603=*		01443001
				6604=*	STATEMENT END	01444001
				6605=*	CONTEXT STATEMENT	01445001
				6606=*	SOURCE OPERATOR EPSILON, ETA, END, ELSE, ;, S.E. STC	01446001
				6607=*	(SEE MATRIX)	01447001
				6608=*	STACK OPERATOR S.E. STC (SEE MATRIX)	01448001
				6609=*	OPERAND NOT DECISIVE	01449001
				6610=*		01450001
		R:C 042EC		6611=	USING CP71,R12	01451001
0042EC	58B0 5194		001DC	6612=CP71	L R11,DECAADD SWITCH TO PROGRAM CONTEXT	01452001
0042F0	47F0 5060		000A8	6613=	B COMP GOTO COMP	01453001
				6614=*		01454001
				6615=*	*****	01455001
				6616=*		01456001
				6617=*	COMPILER PROGRAM - CP84	01457001
				6618=*		01458001
				6619=*	*****	01459001
				6620=*		01460001
				6621=*	NOT PERMITTED OPERATOR PAIR	01461001
				6622=*	SOURCE AND STACK OPERATOR SEE MATRIXES	01462001
				6623=*	OPERAND NONE OR ONE	01463001
				6624=*		01464001
		R:C 042F4		6625=	USING CP84,R12	01465001
0042F4	4540 5380		003C8	6626=CP84	BAL R4,SERR1 TERMINATING ERROR	01466001
0042F8	00AD			6627=	DC H'173' ERROR 173	01467001
				6628=*		01468001
0042FA	47F0 541A		00462	6629=	B CPERR1 BRANCH TO TERMINATION	01469001
				6630=*		01470001
				6631=*	*****	01471001
				6632=*		01472001
				6633=*	END OF IEX50004	01473001
				6634=*		01474001
				6635=*	*****	01475001
				6636=*		01476001
				6637	COPY IEX50005 IEX50005	01935001

Active USINGS: IEX50000+X'42F4',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				6639=*		00002001
				6640=*	CP17, CP18, CP26, CP27, CP28, CP29, CP30, CP31, CP63,	00003001
				6641=*	CP65, CP66, CP67, CP68, CP70, CP72, CP73, CP74, CP75,	00004001
				6642=*	CP76, CP77, CP78, CP79, CP80, CP86, CP87	00005001
				6643=*		00006001
				6644=*****		00007001
				6645=*		00008001
				6646=*	COMPILER PROGRAM - CP17	00009001
				6647=*		00010001
				6648=*****		00011001
				6649=*		00012001
				6650=*	IF STATEMENT WITH ALTERNATIVE	00013001
				6651=*	CONTEXT PROGRAM	00014001
				6652=*	SOURCE OPERATOR ELSE	00015001
				6653=*	STACK OPERATOR THENS	00016001
				6654=*	OPERANDS CASE I) LABEL NUMBER	00017001
				6655=*	CASE II) PROCEDURE IDENTIFIER	00018001
				6656=*	LABEL NUMBER	00019001
				6657=*		00020001
		R:C 042FE		6658=	USING CP17,R12	00021001
0042FE	9101 D080	00080		6659=CP17	TM COMPFILGS, OPERAND	00022001
004302	4780 C010		0430E	6660=	BZ BCB2	00023001
004306	4540 5D54		00D9C	6661=	BAL R4, PLPRST	00024001
00430A	4190 9005		00005	6662=	LA R9, 5(,R9)	00025001
00430E	9228 A000	00000		6663=BCB2	MVI 0(R10),X'28'	00026001
004312	92FF DA61	00A61		6664=	MVI GPBN+1,X'FF'	00027001
004316	9180 D080	00080		6665=	TM COMPFILGS, COMPMODE	00028001
00431A	0715			6666=	BOR R5	00029001
00431C	4540 5E70		00EB8	6667=	BAL R4, LATRES	00030001
004320	D201 C02E	D0A2 0432C	000A2	6668=	MVC BCD2+2(2),LN	00031001
004326	4520 55A6		005EE	6669=	BAL R2, GENTXT6	00032001
00432A	58FC 0000		00000	6670=BCD2	L BRR, 0(LAT,0)	00033001
00432E	07FF			6671=	BR BRR	00034001
004330	5810 D61C		0061C	6672=	L R1, LATAB	00035001
004334	D201 D5F8	9003 005F8	00003	6673=	MVC WORKPL(2),3(R9)	00036001
00433A	4820 D5F8		005F8	6674=	LH R2, WORKPL	00037001
00433E	5061 2000		00000	6675=	ST R6, 0(R1,R2)	00038001
004342	D201 9003	D0A2 00003	000A2	6676=	MVC 3(2,R9),LN	00039001
004348	07F5			6677=	BR R5	00040001
				6678=*		00041001
				6679=*****		00042001
				6680=*		00043001
				6681=*	COMPILER PROGRAM - CP83	00044001
				6682=*		00045001
				6683=*****		00046001
				6684=*		00047001
				6685=*	CODE PROCEDURE DECLARATION (IN CALLING PROGRAM)	00048001
				6686=*	CONTEXT PROGRAM	00049001
				6687=*	SOURCE OPERATOR GAMMA	00050001
				6688=*	STACK OPERATOR PI, PHI, BETA	00051001
				6689=*	OPERANDS LABEL NUMBER	00052001
				6690=*	PROCEDURE IDENTIFIER	00053001
				6691=*		00054001
		R:C 0434A		6692=	USING CP83,R12	00055001
00434A	4540 5CE8	00D30		6693=CP83	BAL R4, DECOMP	00056001
00434E	4840 DA4E	00A4E		6694=	LH R4, OPDLN	00057001
004352	58F0 D61C	0061C		6695=	L R15, LATAB	00058001
004356	5064 F000	00000		6696=	ST R6, 0(R4,R15)	00059001
00435A	D207 C03A	8001 04384	00001	6697=	MVC KOC15,1(R8)	00060001
004360	48F0 DA5C	00A5C		6698=	LH R15, SPBNST	00061001
004364	89F0 0003	00003		6699=	SLL R15,3	00062001
004368	40F0 C042	0438C		6700=	STH R15, KOC16	00063001
00436C	4120 C036	04380		6701=	LA R2, KOC14	00064001
004370	45E0 5588	005D0		6702=	BAL R14, GENTXTS	00065001
004374	000E			6703=	DC H'14'	00066001
				6704=*		00067001
004376	9601 DA40	00A40		6705=	OI IOTAB+16,X'01'	00068001
00437A	4180 8008	00008		6706=KOG1	LA R8, 8(,R8)	00069001
00437E	07F5			6707=	BR R5	00070001
				6708=*		00071001
004380	458D 00FC	000FC		6709=KOC14	BAL ADR, LOADPP(FSA)	00072001
004384	4040404040404040			6710=KOC15	DC CL8' '	00073001
00438C	0000			6711=KOC16	DC H'0'	00074001
				6712=*		00075001
				6713=*****		00076001
				6714=*		00077001
				6715=*	COMPILER PROGRAM - CP18	00078001
				6716=*		00079001
				6717=*****		00080001
				6718=*		00081001
				6719=*	END OF CONDITIONAL STATEMENT	00082001
				6720=*	CONTEXT PROGRAM	00083001
				6721=*	SOURCE OPERATOR SEMICOLON,EPSILON, ETA, END	00084001
				6722=*	STACK OPERATOR ELSES	00085001
				6723=*	OPERANDS CASE I) LABEL NUMBER	00086001
				6724=*	CASE II) PROCEDURE IDENTIFIER	00087001
				6725=*	LABEL NUMBER	00088001
		R:C 0438E		6726=	USING CP18,R12	00089001
00438E	9101 D080	00080		6727=CP18	TM COMPFILGS, OPERAND	00090001
004392	4780 C014		043A2	6728=	BZ BEB2	00091001
004396	4540 5D54		00D9C	6729=	BAL R4, PLPRST	00092001
00439A	4190 9005		00005	6730=	LA R9, 5(,R9)	00093001
00439E	94FE D080	00080		6731=	NI COMPFILGS, 255-OPERAND	00094001
0043A2	9180 D080	00080		6732=BEB2	TM COMPFILGS, COMPMODE	00095001
0043A6	4710 C02E		043BC	6733=	BO BEE2	00096001
0043AA	D201 D5F8	9003 005F8	00003	6734=	MVC WORKPL(2),3(R9)	00097001

Active USINGS: IEX50000+X'438E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0043B0	4820 D5F8		005F8	6735=	LH	R2,WORKPL	00098001
0043B4	5810 D61C		0061C	6736=	L	R1,LATAB	00099001
0043B8	5061 2000		00000	6737=	ST	R6,0(R1,R2)	00100001
0043BC	4190 9005		00005	6738=BEE2	LA	R9,5(,R9)	00101001
0043C0	92FF DA61	00A61		6739=	MVI	GPBN+1,X'FF'	00102001
0043C4	46A0 5060		000A8	6740=	BCT	R10,COMP	00103001
				6741=*			00104001
				6742=*****			00105001
				6743=*			00106001
				6744=*	COMPILER PROGRAM - CP26		00107001
				6745=*			00108001
				6746=*****			00109001
				6747=*			00110001
				6748=*	ERRONEOUS CASE		00111001
				6749=*	CONTEXT	PROGRAM	00112001
				6750=*	SOURCE OPERATOR	ARRAY, SWITCH, PHI, PI	00113001
				6751=*	STACK OPERATOR	., SEMICOLON,THENS, ELSES	00114001
				6752=*	OPERANDS		00115001
				6753=*			00116001
		R:C 043C8		6754=	USING	CP26,R12	00117001
0043C8	4540 5F24		00F6C	6755=CP26	BAL	R4,ERR166	00118001
0043CC	06A0			6756=BUE2	BCTR	R10,0	00119001
0043CE	951C A001	00001		6757=	CLI	1(R10),X'1C'	00120001
0043D2	4780 C01A		043E2	6758=	BE	BUE3	00121001
0043D6	4740 C038		04400	6759=	BL	BUG3	00122001
0043DA	4190 9005		00005	6760=BUC3	LA	R9,5(,R9)	00123001
0043DE	47F0 5060		000A8	6761=BUG4	B	COMP	00124001
				6762=*			00125001
0043E2	1B00			6763=BUE3	SR	R0,R0	00126001
0043E4	9102 9006	00006		6764=	TM	6(R9),X'02'	00127001
0043E8	4190 9014		00014	6765=	LA	R9,20(,R9)	00128001
0043EC	4780 5060		000A8	6766=	BZ	COMP	00129001
0043F0	D201 D5F8	9003 005F8	00003	6767=	MVC	WORKPL(2),3(R9)	00130001
0043F6	4800 D5F8		005F8	6768=	LH	R0,WORKPL	00131001
0043FA	1A90			6769=	AR	R9,R0	00132001
0043FC	47F0 5060		000A8	6770=	B	COMP	00133001
				6771=*			00134001
004400	950B A001	00001		6772=BUG3	CLI	1(R10),XFSCOLON	00135001
004404	4780 5060		000A8	6773=	BE	COMP	00136001
004408	47F0 C012		043DA	6774=	B	BUC3	00137001
				6775=*			00138001
				6776=*****			00139001
				6777=*			00140001
				6778=*	COMPILER PROGRAM - CP27		00141001
				6779=*			00142001
				6780=*****			00143001
				6781=*			00144001
				6782=*	ERRONEOUS CASE		00145001
				6783=*	CONTEXT	PROGRAM, STATEMENT	00146001
				6784=*	SOURCE OPERATOR	SEE MATRICES	00147001
				6785=*	STACK OPERATOR	SEE MATRICES	00148001
				6786=*	OPERANDS	VARIABLE NUMBER OF OPERANDS ACCORDING TO	00149001
				6787=*		THE OPERATOR	00150001
				6788=*			00151001
		R:C 0440C		6789=	USING	CP27,R12	00152001
00440C	9101 D080	00080		6790=CP27	TM	COMPFLGS,OPERAND	00153001
004410	4780 C16A		04576	6791=	BZ	BWB2	00154001
004414	4540 5318		00360	6792=	BAL	R4,SERR3	00155001
004418	00C3			6793=	DC	H'195'	00156001
				6794=*			00157001
00441A	4190 9005		00005	6795=	LA	R9,5(,R9)	00158001
00441E	94FE D080	00080		6796=	NI	COMPFLGS,255-OPERAND	00159001
004422	06A0			6797=BNE2	BCTR	R10,0	00160001
004424	1B11			6798=	SR	R1,R1	00161001
004426	4310 A001	00001		6799=	IC	R1,1(,R10)	00162001
00442A	8910 0002	00002		6800=	SLL	R1,2	00163001
00442E	47F1 C00E		0441A	6801=	B	LISTE-24(R1)	00164001
004432	47F0 5060		000A8	6802=LISTE	B	COMP	00165001
004436	47F0 C154		04560	6803=	B	BWF4C	00166001
00443A	47F0 C0EE		044FA	6804=	B	BWH3	00167001
00443E	47F0 C15C		04568	6805=	B	BWJ3	00168001
004442	47F0 C174		04580	6806=	B	BWJ41	00169001
004446	47F0 C174		04580	6807=	B	BWJ41	00170001
00444A	47F0 C174		04580	6808=	B	BWJ41	00171001
00444E	47F0 C174		04580	6809=	B	BWJ41	00172001
004452	47F0 C174		04580	6810=	B	BWJ41	00173001
004456	47F0 C174		04580	6811=	B	BWJ41	00174001
00445A	47F0 C174		04580	6812=	B	BWJ41	00175001
00445E	47F0 C174		04580	6813=	B	BWJ41	00176001
004462	47F0 C174		04580	6814=	B	BWJ41	00177001
004466	47F0 C174		04580	6815=	B	BWJ41	00178001
00446A	47F0 C174		04580	6816=	B	BWJ41	00179001
00446E	47F0 C174		04580	6817=	B	BWJ41	00180001
004472	47F0 C0E6		044F2	6818=	B	BWF4	00181001
004476	47F0 5060		000A8	6819=	B	COMP	00182001
00447A	47F0 C0DE		044EA	6820=	B	BWK7	00183001
00447E	47F0 C0CE		044DA	6821=	B	BWK5	00184001
004482	47F0 C0CA		044D6	6822=	B	BWK4	00185001
004486	47F0 C0CE		044DA	6823=	B	BWK5	00186001
00448A	47F0 C174		04580	6824=	B	BWJ41	00187001
00448E	47F0 5060		000A8	6825=	B	COMP	00188001
004492	47F0 C0E6		044F2	6826=	B	BWF4	00189001
004496	47F0 C174		04580	6827=	B	BWJ41	00190001
00449A	47F0 C174		04580	6828=	B	BWJ41	00191001
00449E	47F0 C174		04580	6829=	B	BWJ41	00192001
0044A2	47F0 C174		04580	6830=	B	BWJ41	00193001

Active USINGS: IEX50000+X'440C',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0044A6	47F0 C174		04580	6831=	B	BWJ41	AND
0044AA	47F0 C174		04580	6832=	B	BWJ41	EQUIVALENT
0044AE	47F0 C174		04580	6833=	B	BWJ41	ALPHA
0044B2	47F0 5060		000A8	6834=	B	COMP	IFS
0044B6	47F0 C174		04580	6835=	B	BWJ41	THENS
0044BA	47F0 C174		04580	6836=	B	BWJ41	ELSE
0044BE	47F0 C10A		04516	6837=	B	BWG3	PARENT IN PROCEDURE
0044C2	47F0 C102		0450E	6838=	B	BWG4	PARENT IN STANDARD FUNCTION
0044C6	47F0 C174		04580	6839=	B	BWJ41	MONODIC MINUS
0044CA	47F0 C156		04562	6840=	B	BWF4B	BRACKET RECL
0044CE	47F0 C0D0		044DC	6841=	B	BWK6	FOR.=
0044D2	47F0 C146		04552	6842=	B	BWK3	SWITCH.=
				6843=*			
0044D6	4190 9005		00005	6844=BWK4	LA	R9,5(,R9)	CLOPT
0044DA	06A0			6845=BWK5	BCTR	R10,0	CLOPT
0044DC	06A0			6846=BWK6	BCTR	R10,0	CLOPT
0044DE	41AA 0001		00001	6847=BWK8	LA	R10,1(R10)	RESERVE ONE PLACE IN STACK
0044E2	921C A000	00000		6848=	MVI	0(R10),X'1C'	STACK 'DO'
0044E6	47F0 5060		000A8	6849=	B	COMP	BRANCH TO COMPARE
				6850=*			
0044EA	4540 5D02		00D4A	6851=BWK7	BAL	R4,STACKAPI	STACK API
0044EE	47F0 C0D2		044DE	6852=	B	BWK8	
				6853=*			
0044F2	4190 9005		00005	6854=BWF4	LA	R9,5(,R9)	RELEASE ONE OPERAND
0044F6	47F0 5060		000A8	6855=	B	COMP	BRANCH TO COMPARE
				6856=*			
0044FA	4190 900F		0000F	6857=BWH3	LA	R9,15(0,R9)	RELEASE THREE OPERANDS
0044FE	47F0 C11C		04528	6858=	B	BWG31	BRANCH
				6859=*			
004502	950B 8000	00000		6860=BWJ4	CLI	0(R8),XFSCOLON	SEMICOLON IN SOURCE ?
004506	4780 C174		04580	6861=	BE	BWJ41	
00450A	47F0 5060		000A8	6862=	B	COMP	
				6863=*			
00450E	4190 9014		00014	6864=BWG4	LA	R9,20(,R9)	RELEASE FOUR OPERANDS
004512	47F0 C11C		04528	6865=	B	BWG31	BRANCH
				6866=*			
004516	1B00			6867=BWG3	SR	R0,R0	RELEASE
004518	4309 0000		00000	6868=	IC	R0,0(R9)	N
00451C	8900 0008		00008	6869=	SLL	R0,8	+
004520	4309 0001		00001	6870=	IC	R0,1(R9)	2
004524	4190 900A		0000A	6871=	LA	R9,10(R0,R9)	OPERANDS
004528	9130 A000	00000		6872=BWG31	TM	0(R10),X'30'	CHECK IF IN STACK CONT OPT
00452C	47E0 5060		000A8	6873=	BNO	COMP	NO, BRANCH
004530	06A0			6874=	BCTR	R10,0	RELEASE ONE OPERATOR
004532	58B0 5194		001DC	6875=	L	R11,DECAADD	LOAD R11 WITH PROG CONT MA
004536	9530 A001	00001		6876=	CLI	1(R10),X'30'	CHECK IF PROG CONT OPT
00453A	4780 5060		000A8	6877=	BE	COMP	BRANCH IF PCO TO COMPARE
00453E	58B0 519C		001E4	6878=	L	R11,STC	LOAD R11 WITH STAT CONT MA
004542	9533 A001	00001		6879=	CLI	1(R10),X'33'	CHECK IF STAT CONT OPT
004546	4780 5060		000A8	6880=	BE	COMP	BRANCH IF STC TO COMPARE
00454A	58B0 51A0		001E8	6881=	L	R11,EXC	LOAD R11 WITH EXP CONT MAT
00454E	47F0 5060		000A8	6882=	B	COMP	BRANCH TO COMPARE
				6883=*			
004552	1B11			6884=BWK3	SR	R1,R1	
004554	4319 0001		00001	6885=	IC	R1,1(R9)	NO OF SWITCH ELEMENT OPERANDS
004558	4199 1014		00014	6886=	LA	R9,20(R9,R1)	CLEAR OPERANDS
00455C	47F0 5060		000A8	6887=	B	COMP	BRANCH TO COMPARE
				6888=*			
004560	06A0			6889=BWF4C	BCTR	R10,0	COLON
004562	06A0			6890=BWF4B	BCTR	R10,0	ARRAY BRACKET
004564	4199 000F		0000F	6891=	LA	R9,15(R9)	RELEASE 3 OPERANDS
004568	4A90 5190		001D8	6892=BWJ3	AH	R9,GREGN	CLEAR NUMBER OF ARRAY IDENT
00456C	D201 5190	DA50 001D8	00A50	6893=	MVC	GREGN(2),ZEROHW	CLEAR COUNTER
004572	47F0 5060		000A8	6894=	B	COMP	
				6895=*			
004576	4540 5318		00360	6896=BWB2	BAL	R4,SERR3	ERROR PATTERN ENTRY
00457A	00C2			6897=	DC	H'194'	ERROR 194
				6898=*			
00457C	47F0 C016		04422	6899=	B	BNE2	
				6900=*			
004580	58C0 52F4		0033C	6901=BWJ41	L	R12,SCPTAB+4*84	R12 -> CP84
004584	07FC			6902=	BR	R12	BRANCH TO CP84
				6903=*			
				6904=*			
				6905=*			
				6906=*			
				6907=*			
				6908=*			
				6909=*			
				6910=*			
				6911=*			
				6912=*			
				6913=*			
				6914=*			
				6915=*			
				6916=*			
				6917=			
				6918=CP28			
004586	4540 5F24	R:C 04586	00F6C	6919=	BAL	R4,ERR166	
00458A	4540 590C		00954	6919=	BAL	R4,SCHDL	SEMICOLON HANDLING
00458E	9507 A000	00000		6920=	CLI	0(R10),XFSCOLON	STACK OPERATOR COLON ?
004592	4780 C022		045A8	6921=	BE	BYF1	YES
004596	952C A000	00000		6922=	CLI	0(R10),X'2C'	ARRAY BRACKET IN STACK
00459A	4780 C024		045AA	6923=	BE	BYF1+2	YES
00459E	950A A000	00000		6924=	CLI	0(R10),X'0A'	SWITCH IN STACK
0045A2	4780 C038		045BE	6925=	BE	BYF2	YES
0045A6	07F5			6926=	BR	R5	RETURN TO SUBSTART

COMPILER PROGRAM - CP28

ERRONEOUS CASE - DECLARATION IN WRONG POSITION

CONTEXT PROGRAM

SOURCE OPERATOR S

STACK OPERATOR

OPERANDS

SEE PROGRAM CONTEXT MATRIX

VARIABLE NUMBER OF OPERANDS ACCORDING TO

THE OPERATOR

USING CP28,R12

Active USINGS: IEX50000+X'4586',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				6927=*			00290001
0045A8	06A0			6928=BYF1	BCTR	R10,0	00291001
0045AA	4BA0 516C		001B4	6929=	SH	R10,KH2	00292001
0045AE	4199 000F		0000F	6930=	LA	R9,15(R9)	00293001
0045B2	4A90 5190		001D8	6931=	AH	R9,GREGN	00294001
0045B6	D201 5190 DA50 001D8 00A50			6932=	MVC	GREGN(2),ZEROHW	00295001
0045BC	07F5			6933=	BR	R5	00296001
				6934=*			00297001
0045BE	4199 000A		0000A	6935=BYF2	LA	R9,10(R9)	00298001
0045C2	06A5			6936=	BCTR	R10,R5	00299001
				6937=*			00300001
				6938=*****			00301001
				6939=*			00302001
				6940=*	COMPILER PROGRAM - CP29		00303001
				6941=*			00304001
				6942=*****			00305001
				6943=*			00306001
				6944=*	ERRONEOUS CASE - BEGIN OF DECLARATION		00307001
				6945=*	CONTEXT	PROGRAM	00308001
				6946=*	SOURCE OPERATOR	ARRAY,SWITCH,PI,PHI	00309001
				6947=*	STACK OPERATOR	BEGIN, DO	00310001
				6948=*	OPERANDS	NONE OR ONE	00311001
				6949=*			00312001
		R:C 045C4		6950=	USING	CP29,R12	00313001
0045C4	4540 5F24		00F6C	6951=CP29	BAL	R4,ERR166	00314001
0045C8	58C0 51B4		001FC	6952=CAF1	L	R12,SCPTAB+4*4	00315001
0045CC	07FC			6953=	BR	R12	00316001
				6954=*		BRANCH TO CP4	00317001
				6955=*****			00318001
				6956=*			00319001
				6957=*	COMPILER PROGRAM - CP30		00320001
				6958=*			00321001
				6959=*****			00322001
				6960=*			00323001
				6961=*	ERRONEOUS CASE - LABEL IN INCORRECT POSITION		00324001
				6962=*	CONTEXT	PROGRAM	00325001
				6963=*	SOURCE OPERATOR	LABEL OPERATOR	00326001
				6964=*	STACK OPERATOR	SEE PROGRAM CONTEXT MATRIX	00327001
				6965=*	OPERANDS	LABEL IDENTIFIER	00328001
				6966=*			00329001
		R:C 045CE		6967=	USING	CP30,R12	00330001
0045CE	9101 D080		00080	6968=CP30	TM	COMPFLGS,OPERAND	00331001
0045D2	4780 C014		045E2	6969=	BZ	BKQB1	00332001
0045D6	4540 5310		00358	6970=	BAL	R4,SERR2	00333001
0045DA	00A9			6971=	DC	H'169'	00334001
				6972=*		ERRO 169	00335001
0045DC	4190 9005		00005	6973=	LA	R9,5(,R9)	00336001
0045E0	07F5			6974=	BR	R5	00337001
				6975=*		BRANCH TO SUBSTART	00338001
0045E2	58C0 52F4		0033C	6976=BKQB1	L	R12,SCPTAB+4*84	00339001
0045E6	07FC			6977=	BR	R12	00340001
				6978=*		BRANCH TO CP84	00341001
				6979=*****			00342001
				6980=*			00343001
				6981=*	COMPILER PROGRAM - CP31		00344001
				6982=*			00345001
				6983=*****			00346001
				6984=*			00347001
				6985=*	ERRONEOUS CASE - INCORRECT COMBINATION OF OPERATORS IN		00348001
				6986=*	PROGRAM CONTEXT		00349001
				6987=*	SOURCE OPERATOR	SEE PROGRAM CONTEXT MATRIX	00350001
				6988=*	STACK OPERATOR	SEE PROGRAM CONTEXT MATRIX	00351001
				6989=*	OPERANDS	NONE OR ONE	00352001
				6990=*			00353001
		R:C 045E8		6991=	USING	CP31,R12	00354001
0045E8	4180 B266		00266	6992=CP31	LA	R11,614(,R11)	00355001
0045EC	9101 D080		00080	6993=	TM	COMPFLGS,OPERAND	00356001
0045F0	4780 C016		045FE	6994=	BZ	CEB2	00357001
0045F4	4540 5304		0034C	6995=	BAL	R4,SERR4	00358001
0045F8	00A1			6996=	DC	H'161'	00359001
				6997=*		ERROR 161	00360001
0045FA	47F0 5060		000A8	6998=	B	COMP	00361001
				6999=*		BRANCH TO COMPARE	00362001
0045FE	4540 5304		0034C	7000=CEB2	BAL	R4,SERR4	00363001
004602	00A0			7001=	DC	H'160'	00364001
				7002=*		ERROR 160	00365001
004604	47F0 5060		000A8	7003=	B	COMP	00366001
				7004=*		BRANCH TO COMPARE	00367001
				7005=*****			00368001
				7006=*			00369001
				7007=*	COMPILER PROGRAM - CP63		00370001
				7008=*			00371001
				7009=*****			00372001
				7010=*			00373001
				7011=*	MONADIC MINUS SIGN		00374001
				7012=*	CONTEXT	EXPRESSION	00375001
				7013=*	SOURCE OPERATOR	ALL EXCEPT 'NOT',C,1), 'IF', 'POWER'	00376001
				7014=*	STACK OPERATOR	MONADIC MINUS	00377001
				7015=*	OPERANDS	ARITHMETIC OPERAND	00378001
				7016=*			00379001
		R:C 04608		7017=	USING	CP63,R12	00380001
004608	4140 C01C		04624	7018=CP63	LA	R4,GBD4	00381001
00460C	4530 5F08		00F50	7019=	BAL	R3,OPDTEST	00382001
004610	4540 5E9A		00EE2	7020=	BAL	R4,ARRTEST1	00383001
004614	9103 9001		00001	7021=	TM	1(R9),X'03'	00384001
004618	4740 C020		04628	7022=	BM	GAD1	00385001



Active USINGS: IEX50000+X'4608',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00461C	9110 9000	00000		7023=	TM	0(R9),APIMASK	OPERAND API ?
004620	4780 C100		04708	7024=	BZ	GAC2	NO, BRANCH
004624	46A0 5060		000A8	7025=GBD4	BCT	R10,COMP	RELEASE 1 OPT AND COMPARE
004628	91C0 D080	00080		7026=GAD1	TM	COMPFLGS,COMPmode+SUBSCOPT	SYNTAX OR SUBSC OPTIMIZED ?
00462C	4770 C01C		04624	7027=	BNZ	GBD4	NO, BRANCH
004630	4540 578A		007D2	7028=	BAL	R4,OPDREC	OPERAND RECOGNIZER
004634	9102 9001	00001		7029=	TM	1(R9),X'02'	OPERAND REAL ?
004638	4780 C09C		046A4	7030=	BZ	GBE1	NO, INTEGER, BRANCH
00463C	9120 9000	00000		7031=	TM	0(R9),X'20'	OPERAND A VALUE ?
004640	4710 C074		0467C	7032=	BO	GAH3	AN ADDR, BRANCH
004644	9140 9000	00000		7033=	TM	0(R9),X'40'	OPERAND IN A REGISTER ?
004648	4710 C068		04670	7034=	BO	GAH2	NO, IN STORAGE, BRANCH
00464C	43E9 0003	00003		7035=	IC	R14,3(R9)	INSERT
004650	42E0 C05F	04667		7036=GBC5	STC	R14,GAJ1+1	REGISTER
004654	88E0 0004	00004		7037=	SRL	R14,4	INTO
004658	42E0 D5F8	005F8		7038=	STC	R14,WORKPL	GENERATED
00465C	D100 C05F	D5F8 04667		7039=	MVN	GAJ1+1(1),WORKPL	
004662	4520 5598	005E0		7040=	BAL	R2,GENTXTP2	GENERATE 2 BYTES
004666	2300			7041=GAJ1	LCDR	0,0	*** GENERATED CODE ***
004668	9608 9000	00000		7042=GAJ11	OI	0(R9),X'08'	INSERT NO ASSIGNMENT BIT
00466C	46A0 5060		000A8	7043=	BCT	R10,COMP	DELEASE OPERATOR AND COMP
004670	9180 9000	00000		7044=GAH2	TM	0(R9),X'80'	LO IN A REG BEFORE ?
004674	4710 C074		0467C	7045=	BO	GAH3	NO, BRANCH
004678	4870 DA56		00A56	7046=	SH	R7,ONEENTRY	RELEASE 1 OBJ STACK ENTRY
00467C	4540 58BE		00C06	7047=GAH3	BAL	R4,ROUTIN11	RESERVE A FLOATING POINT REG
004680	4890 5170		001B8	7048=	SH	R9,KH5	INCREASE OPERAND STACK
004684	9120 9005	00005		7049=	TM	5(R9),X'20'	LO A VALUE ?
004688	4780 C094		0469C	7050=	BZ	GBC2	YES, BRANCH
00468C	4540 5996		009DE	7051=	BAL	R4,ROUTINE2	CALL ROUTINE NUMBER 2
004690	4190 9005	00005		7052=GBC4	LA	R9,5(,R9)	DECREASE OPERAND STACK
004694	89E0 0004	00004		7053=	SLL	R14,4	
004698	47F0 C048		04650	7054=	B	GBC5	BRANCH
				7055=*			
00469C	4540 5A50		00A98	7056=GBC2	BAL	R4,ROUTINE4	GENERATE LOADING INTO FPR
0046A0	47F0 C088		04690	7057=	B	GBC4	BRANCH
				7058=*			
0046A4	9120 9000	00000		7059=GBE1	TM	0(R9),X'20'	OPERAND A VALUE ?
0046A8	4710 C0D8		046E0	7060=	BO	GBF3	ADDR, BRANCH
0046AC	9140 9000	00000		7061=	TM	0(R9),X'40'	OPERAND IN A REGISTER ?
0046B0	4710 C0CC		046D4	7062=	BO	GBF2	IN STORAGE, BRANCH
0046B4	43E9 0003	00003		7063=	IC	R14,3(R9)	INSERT
0046B8	42E0 C0C7	046CF		7064=GBG11	STC	R14,GBG1+1	REGISTER
0046BC	88E0 0004	00004		7065=	SRL	R14,4	INTO
0046C0	42E0 D5F8	005F8		7066=	STC	R14,WORKPL	GENERATED
0046C4	D100 C0C7	D5F8 046CF		7067=	MVN	GBG1+1(1),WORKPL	CODE
0046C8	4520 559E	005E6		7068=	BAL	R2,GENTXT2	GENERATE 2 BYTES
0046CE	1300			7069=GBG1	LCR	0,0	*** GENERATED CODE ***
0046D0	47F0 C060		04668	7070=	B	GAJ11	
				7071=*			
0046D4	9180 9000	00000		7072=GBF2	TM	0(R9),X'80'	LO IN A REG BEFORE ?
0046D8	4710 C0D8		046E0	7073=	BO	GBF3	DECREASE
0046DC	4870 DA56		00A56	7074=	SH	R7,ONEENTRY	RELEASE 1 OBJ STACK ENTRY
0046E0	4540 5AB0		00AF8	7075=GBF3	BAL	R4,ROUTINE7	RESERVE GENERAL PURPOSE REG
0046E4	4890 5170		001B8	7076=	SH	R9,KH5	INCREASE OPERAND STACK
0046E8	9120 9005	00005		7077=	TM	5(R9),X'20'	LO A VALUE ?
0046EC	4710 C0F8		04700	7078=	BO	GBH5	AN ADDR, BRANCH
0046F0	4540 5A64		00AAC	7079=	BAL	R4,ROUTINE5	GENERATE LOADING INTO GPR
0046F4	4190 9005	00005		7080=GBK4	LA	R9,5(,R9)	DECREASE OPERAND STACK
0046F8	89E0 0004	00004		7081=	SLL	R14,4	SHIFT REGISTER NUMBER
0046FC	47F0 C0B0		046B8	7082=	B	GBG11	BRANCH
				7083=*			
004700	4540 5AA0		00AE8	7084=GBH5	BAL	R4,ROUTINE6	GENERATE LOADING INTO GPR
004704	47F0 C0EC		046F4	7085=	B	GBK4	BRANCH
				7086=*			
004708	4540 5310		00358	7087=GAC2	BAL	R4,SERR2	
00470C	00A3			7088=	DC	H'163'	ERROR 163
				7089=*			
00470E	D204 9000	5182 00000	001CA	7090=GAC4	MVC	0(5,R9),API	MOVE API
004714	46A0 5060		000A8	7091=	BCT	R10,COMP	RELEASE OPERATOR AND COMP
				7092=*			
				7093=			*****
				7094=*			
				7095=*		COMPILER PROGRAM - CP65	
				7096=*			
				7097=			*****
				7098=*			
				7099=*		HANDLING OF 'NOT' AND 'IF'	
				7100=*		CONTEXT	EXPRESSION
				7101=*		SOURCE OPERATOR	CASE I 'NOT'
				7102=*			CASE II 'IF'
				7103=*			
				7104=*		STACK OPERATOR	CASE I ALL EXCEPT 'NOT',ARITHMETICAL
				7105=*			OPERATORS,RELATIONAL OPERATORS
				7106=*		CASE II 'IF', 'IFS'	
				7107=*			
				7108=*		OPERANDS	NONE
				7109=*			
				7110=		USING	CP65,R12
004718	9101 D080	R:C 04718		7111=CP65	TM	COMPFLGS,OPERAND	OPERAND ON ?
00471C	4780 C012		0472A	7112=	BZ	GFC2	NO, BRANCH
004720	4540 5304		0034C	7113=	BAL	R4,SERR4	
004724	00A4			7114=	DC	H'164'	ERROR 164
				7115=*			
004726	4190 9005	00005		7116=	LA	R9,5(,R9)	RELEASE ONE OPERAND
00472A	4540 5E30	00E78		7117=GFC2	BAL	R4,MOVEOPTK	INCREASE OPT STACK POINTER
00472E	D200 A000 8000 00000	00000		7118=	MVC	0(1,R10),0(R8)	INSERT SOURCE INTO STACK

Active USINGS: IEX50000+X'4718',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
004734	07F5			7119=	BR	R5	RETURN TO SUBSTART 00482001
				7120=*			00483001
				7121=*****			00484001
				7122=*			00485001
				7123=*	COMPILER PROGRAM - CP66		00486001
				7124=*			00487001
				7125=*****			00488001
				7126=*			00489001
				7127=*	HANDLING OF PLUS AND MINUS		00490001
				7128=*	CONTEXT	EXPRESSION	00491001
				7129=*	SOURCE OPERATOR	+, -	00492001
				7130=*	STACK OPERATOR	ALL EXCEPT ARITHMETIC OPERATORS	00493001
				7131=*	OPERANDS	NONE OR ONE ARITHMETIC OPERAND.	00494001
				7132=*			00495001
				7133=*			00496001
		R:C 04736		7133=	USING	CP66,R12	
004736	4540 5E30		00E78	7134=CP66	BAL	R4,MOVEOPTK	INCREASE OPT STACK POINTER 00497001
00473A	9101 D080		00080	7135=	TM	COMPFLGS,OPERAND	OPDT 00498001
00473E	4780 C014		0474A	7136=	BZ	GHC2	BRANCH IF FALSE 00499001
004742	D200 A000 8000 00000 00000		00000	7137=	MVC	0(1,R10),0(R8)	INSERT SOURCE INTO STACK 00500001
004748	07F5			7138=	BR	R5	BRANCH TO SNOT 00501001
00474A	9501 8000		00000	7139=GHC2	CLI	0(R8),XFMINUS	MINUS IN SOURCE ? 00502001
00474E	4770 C022		04758	7140=	BNE	GHC3	NO, BRANCH 00503001
004752	922B A000		00000	7141=	MVI	0(R10),X'2B'	STACK MONADIC MINUS 00504001
004756	07F5			7142=	BR	R5	BRANCH TO SUBSTART 00505001
				7143=*			00506001
004758	92FF 518C		001D4	7144=GHC3	MVI	SWVAL,X'FF'	SET SWITCH TO ONE 00507001
00475C	06A0			7145=	BCTR	R10,0	DECREASE OPT STACK POINTER 00508001
00475E	952F 8001		00001	7146=GHC4	CLI	1(R8),XFZETA	END OF SOURCE BUFFER ? 00509001
004762	4740 C03A		04770	7147=	BL	GHC5	BRANCH IF OPERATOR 00510001
004766	0725			7148=	BHR	R5	OPERAND, BR TO SUBSTART 00511001
004768	4540 5084		000CC	7149=	BAL	R4,JBUFFER	00512001
00476C	47F0 C028		0475E	7150=	B	GHC4	00513001
				7151=*			00514001
004770	9506 8001		00001	7152=GHC5	CLI	1(R8),XFLBRAC	LEFT BRACKET IN SOURCE ? 00515001
004774	0785			7153=	BER	R5	YES, BRANCH TO SUBSTART 00516001
004776	4540 5304		0034C	7154=	BAL	R4,SERR4	ERROR PATTERN ENTRY 00517001
00477A	00A0			7155=	DC	H'160'	ERROR 160 00518001
				7156=*			00519001
00477C	07F5			7157=	BR	R5	BRANCH TO SUBSTART 00520001
				7158=*			00521001
				7159=*****			00522001
				7160=*			00523001
				7161=*	COMPILER PROGRAM - CP67		00524001
				7162=*			00525001
				7163=*****			00526001
				7164=*			00527001
				7165=*	STACKING OF ARITHMETIC, RELATIONAL OR BOOLEAN OPERATORS		00528001
				7166=*	CONTEXT	EXPRESSION	00529001
				7167=*	SOURCE OPERATOR	SEE EXPRESSION CONTEXT MATRIX	00530001
				7168=*	STACK OPERATOR	SEE EXPRESSION CONTEXT MATRIX	00531001
				7169=*	OPERANDS	ONE OPERAND	00532001
				7170=*			00533001
				7171=	USING	CP67,R12	00534001
00477E	9101 D080		00080	7172=CP67	TM	COMPFLGS,OPERAND	OPERAND ON ? 00535001
004782	4780 C01E		0479C	7173=	BZ	GJC2	NO, BRANCH 00536001
004786	4540 5E30		00E78	7174=	BAL	R4,MOVEOPTK	INCREASE OPT STACK POINTER 00537001
00478A	D200 A000 8000 00000 00000		00000	7175=	MVC	0(1,R10),0(R8)	INSERT SOURCE INTO STACK 00538001
004790	9505 A000		00000	7176=	CLI	0(R10),XFPOWER	OPT POWER ? 00539001
004794	0775			7177=	BNER	R5	NO, RETURN TO SUBSTART 00540001
004796	9200 518C		001D4	7178=	MVI	SWVAL,0	SET SWITCH TO ZERO 00541001
00479A	07F5			7179=	BR	R5	RETURN TO SUBSTART 00542001
				7180=*			00543001
00479C	4540 5304		0034C	7181=GJC2	BAL	R4,SERR4	ERROR PATTERN ENTRY 00544001
0047A0	00A2			7182=	DC	H'162'	ERROR 162 00545001
				7183=*			00546001
0047A2	07F5			7184=	BR	R5	RETURN TO SUBSTART 00547001
				7185=*			00548001
				7186=*****			00549001
				7187=*			00550001
				7188=*	COMPILER PROGRAM - CP68		00551001
				7189=*			00552001
				7190=*****			00553001
				7191=*			00554001
				7192=*	OPENING AND CLOSING PARENTHESIS		00555001
				7193=*	CONTEXT	EXPRESSION	00556001
				7194=*	SOURCE OPERATOR	)	00557001
				7195=*	STACK OPERATOR	(	00558001
				7196=*	OPERANDS	ONE	00559001
				7197=*			00560001
		R:C 047A4		7198=	USING	CP68,R12	00561001
0047A4	4140 C008		047AC	7199=CP68	LA	R4,GLF2	LOAD RETURN ADDR 00562001
0047A8	4530 5F08		00F50	7200=	BAL	R3,OPDTEST	OPDT AND ERROR 162 00563001
0047AC	46A0 503C		00084	7201=GLF2	BCT	R10,SPECTEST	RELEASE OPT AND SPECIAL TEST 00564001
				7202=*			00565001
				7203=*****			00566001
				7204=*			00567001
				7205=*	COMPILER PROGRAM - CP70		00568001
				7206=*			00569001
				7207=*****			00570001
				7208=*			00571001
				7209=*	CONTEXT SWITCH,EXPRESSION CONTEXT		00572001
				7210=*	CONTEXT	EXPRESSION	00573001
				7211=*	SOURCE OPERATOR	),'ELSE' ALL OPERATORS NOT SPECIFIED IN	00574001
				7212=*		EXPRESSION CONTEXT	00575001
				7213=*	STACK OPERATOR	ALL OPERATORS NOT SPECIFIED IN	00576001
				7214=*		EXPRESSION CONTEXT	00577001



Active USINGS: IEX50000+X'47A4',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
				7215=*	OPERANDS	NOT TREATED			00578001
				7216=*					00579001
		R:C 047B0		7217=	USING CP70,R12				00580001
0047B0	4BB0 517E		001C6	7218=CP70	SH R11,KH324	SWITCH TO STMT CONTEXT			00581001
0047B4	47F0 5060		000A8	7219=	B COMP	BRANCH TO COMPARE			00582001
				7220=*					00583001
				7221=*****					00584001
				7222=*					00585001
				7223=*	COMPILER PROGRAM - CP72				00586001
				7224=*					00587001
				7225=*****					00588001
				7226=*					00589001
				7227=*	NESTED CONDITIONAL EXPRESSIONS				00590001
				7228=*	CONTEXT EXPRESSION				00591001
				7229=*	SOURCE OPERATOR 'ELSE'				00592001
				7230=*	STACK OPERATOR 'ELSE'				00593001
				7231=*	OPERANDS NOT TR				00594001
				7232=*					00595001
		R:C 047B8		7233=	USING CP72,R12				00596001
0047B8	06A0			7234=CP72	BCTR R10,0	DECREASE OPT STACK POINTER			00597001
0047BA	9516 A000		00000	7235=	CLI 0(R10),XFASSIGN	OPT ASSIGNMENT ?			00598001
0047BE	4780 C00E		047C6	7236=	BE JAF2	YES, BRANCH			00599001
0047C2	9517 A000		00000	7237=	CLI 0(R10),XFGOTO	OPT GOTO ?			00600001
0047C6	41A0 A001		00001	7238=JAF2	LA R10,1(,R10)	INCR OPT STACK POINTER			00601001
0047CA	58C0 52D0		00318	7239=	L R12,SCPTAB+4*75	R12 -> CP75			00602001
0047CE	477C 0000		00000	7240=	BNE 0(R12)	NOT ASSIGNMENT, BRANCH			00603001
0047D2	58C0 52E0		00328	7241=	L R12,SCPTAB+4*79	R12 -> CP79			00604001
0047D6	07FC			7242=	BR R12	BRANCH TO CP79			00605001
				7243=*					00606001
				7244=*****					00607001
				7245=*					00608001
				7246=*	COMPILER PROGRAM - CP73				00609001
				7247=*					00610001
				7248=*****					00611001
				7249=*					00612001
				7250=*	ERRONEOUS CASE - THE OPENING PARENTHESIS IS MISSING IN				00613001
				7251=*	A CONDITIONAL EXPRESSION				00614001
				7252=*	CONTEXT EXPRESSION				00615001
				7253=*	SOURCE OPERATOR 'IF'				00616001
				7254=*	STACK OPERATOR SEE EXPRESSION CONTEXT MATRIX				00617001
				7255=*	OPERANDS NONE OR ONE				00618001
				7256=*					00619001
		R:C 047D8		7257=	USING CP73,R12				00620001
0047D8	9101 D080		00080	7258=CP73	TM COMPLFGLS,OPERAND	OPERAND ON ?			00621001
0047DC	4780 C026		047FE	7259=	BZ JGB2	NO, BRANCH			00622001
0047E0	4540 5304		0034C	7260=	BAL R4,SERR4	ERROR PATTERN ENTRY			00623001
0047E4	00A1			7261=	DC H'161'	ERROR 161			00624001
				7262=*					00625001
0047E6	4190 9005		00005	7263=	LA R9,5(,R9)	RELEASE ONE OPERAND			00626001
0047EA	4540 5E30		00E78	7264=JGE1	BAL R4,MOVEOPTK	INCR OPT POINTER			00627001
0047EE	9206 A000		00000	7265=	MVI 0(R10),XFLBRAC	INSERT '(' INTO STACK			00628001
0047F2	4540 5E30		00E78	7266=	BAL R4,MOVEOPTK	INCR OPT POINTER			00629001
0047F6	D200 A000	8000 00000	00000	7267=	MVC 0(1,R10),0(R8)	INSERT SOURCE INTO STACK			00630001
0047FC	07F5			7268=	BR R5	BRANCH TO SUBSTART			00631001
				7269=*					00632001
0047FE	4540 5304		0034C	7270=JGB2	BAL R4,SERR4	ERROR PATTERN ENTRY			00633001
004802	00A0			7271=	DC H'160'	ERROR 160			00634001
				7272=*					00635001
004804	47F0 C012		047EA	7273=	B JGE1				00636001
				7274=*					00637001
				7275=*****					00638001
				7276=*					00639001
				7277=*	COMPILER PROGRAM - CP74				00640001
				7278=*					00641001
				7279=*****					00642001
				7280=*					00643001
				7281=*	ERRONEOUS CASE - COMBINATION OF TWO RELATIONAL OPERATORS				00644001
				7282=*	CONTEXT EXPRESSION				00645001
				7283=*	SOURCE OPERATORS RELATIONAL OPERATOR				00646001
				7284=*	STACK OPERATORS RELATIONAL OPERATOR				00647001
				7285=*	OPERANDS NONE OR ONE				00648001
				7286=*					00649001
		R:C 04808		7287=	USING CP74,R12				00650001
004808	9101 D080		00080	7288=CP74	TM COMPLFGLS,OPERAND	OPERAND ON ?			00651001
00480C	4780 C018		04820	7289=	BZ JIB2	NO, BRANCH			00652001
004810	4540 5304		0034C	7290=	BAL R4,SERR4	ERROR PATTERN ENTRY			00653001
004814	00A1			7291=	DC H'161'	ERROR 161			00654001
				7292=*					00655001
004816	4540 5E30		00E78	7293=JIF2	BAL R4,MOVEOPTK	INCR OPT POINTER			00656001
00481A	9202 A000		00000	7294=	MVI 0(R10),XFASTER	INSERT * INTO STACK			00657001
00481E	07F5			7295=	BR R5	BRANCH TO SUBSTART			00658001
				7296=*					00659001
004820	4540 5304		0034C	7297=JIB2	BAL R4,SERR4	ERROR PATTERN ENTRY			00660001
004824	00A0			7298=	DC H'160'	ERROR 160			00661001
				7299=*					00662001
004826	4540 5D02		00D4A	7300=	BAL R4,STACKAPI	STACK ALL PURPOSE IDENT			00663001
00482A	47F0 C00E		04816	7301=	B JIF2				00664001
				7302=*					00665001
				7303=*****					00666001
				7304=*					00667001
				7305=*	COMPILER PROGRAM - CP74				00668001
				7306=*					00669001
				7307=*****					00670001
				7308=*					00671001
				7309=*	ERRONEOUS CASE - NOT PERMITTED OPERATOR PAIR WHERE THE STACK				00672001
				7310=*	OPERATOR IS ASSUMED TO BE THE CORRECT ONE				00673001

Active USINGS: IEX50000+X'4808',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
				7311=*	CONTEXT	PROGRAM, STATEMENT, EXPRESSION			00674001
				7312=*	SOURCE OPERATOR	SEE CONTEXT MATRICES			00675001
				7313=*	STACK OPERATOR	SEE CONTEXT MATRICES			00676001
				7314=*	OPERANDS	NONE OR ONE			00677001
				7315=*					00678001
		R:C	0482E	7316=	USING	CP75,R12			00679001
00482E	9101 D080		00080	7317=CP75	TM	COMPLFGLS,OPERAND	OPERAND ON ?		00680001
004832	4780 C014		04842	7318=	BZ	JKB2	NO, BRANCH		00681001
004836	4540 5318		00360	7319=	BAL	R4,SERR3	ERROR PATTERN ENTRY		00682001
00483A	00C3			7320=	DC	H'195'	ERROR 195		00683001
				7321=*					00684001
00483C	4190 9005		00005	7322=	LA	R9,5(,R9)	RELEASE ONE OPERAND		00685001
004840	07F5			7323=	BR	R5	BRANCH TO SUBSTART		00686001
				7324=*					00687001
004842	4540 5318		00360	7325=JKB2	BAL	R4,SERR3	ERROR PATTERN ENTRY		00688001
004846	00C2			7326=	DC	H'194'	ERROR 194		00689001
				7327=*					00690001
004848	07F5			7328=	BR	R5	BRANCH TO SUBSTART		00691001
				7329=*					00692001
				7330=*****					00693001
				7331=*					00694001
				7332=*	COMPILER PROGRAM - CP76				00695001
				7333=*					00696001
				7334=*****					00697001
				7335=*					00698001
				7336=*	BOOLEAN OPERATIONS				00699001
				7337=*	CONTEXT	EXPRESSION			00700001
				7338=*	SOURCE OPERATOR	SEE EXPRESSION CONTEXT MATRIX			00701001
				7339=*	STACK OPERATOR	SEE EXPRESSION CONTEXT MATRIX			00702001
				7340=*	OPERAND	TWO OPERANDS			00703001
				7341=*					00704001
		R:C	0484A	7342=	USING	CP76,R12			00705001
00484A	4140 C096		048E0	7343=CP76	LA	R4,JRF41			00706001
00484E	4530 5F08		00F50	7344=	BAL	R3,OPDTEST	OPDT AND ERROR 162		00707001
004852	4540 5EE4		00F2C	7345=	BAL	R4,ARRTEST2			00708001
004856	9103 9006		00006	7346=	TM	6(R9),X'03'	BLO BOOLEAN ?		00709001
00485A	47E0 C1F0		04A3A	7347=	BNO	JMC2	NO, BRANCH		00710001
00485E	9103 9001		00001	7348=	TM	1(R9),X'03'	LO BOOLEAN ?		00711001
004862	47E0 C206		04A50	7349=	BNO	JMC3	NO, BRANCH		00712001
004866	9180 D080		00080	7350=	TM	COMPLFGLS,COMP MODE	SYNTAX CHECK MODE ?		00713001
00486A	4710 C096		048E0	7351=	BO	JRF41	YES, BRANCH		00714001
00486E	4540 578A		007D2	7352=	BAL	R4,OPDREC	OPERAND RECOGNIZER (LO)		00715001
004872	4190 9005		00005	7353=	LA	R9,5(,R9)	DECREASE OPERAND POINTER		00716001
004876	4540 578A		007D2	7354=	BAL	R4,OPDREC	OPERAND RECOGNIZER (BLO)		00717001
00487A	4B90 5170		001B8	7355=	SH	R9,KH5	INCREASE OPERAND POINTER		00718001
00487E	91A0 9005		00005	7356=	TM	5(R9),X'A0'	BLO A VALUE OR IN STACK ?		00719001
004882	4770 C138		04982	7357=	BNZ	JOB1	NO, BRANCH		00720001
004886	D201 DA6E	9008	00A6E	00008	MVC	YPLACE(2),8(R9)	Y = DISP(BLO)		00721001
00488C	96A0 DA6E		00A6E	7359=	OI	YPLACE,X'A0'	X = CDSA		00722001
004890	9120 9000		00000	7360=JNE1	TM	0(R9),X'20'	LO A VALUE ?		00723001
004894	4710 C130		0497A	7361=	BO	JNE5	NO, BRANCH		00724001
004898	9180 9000		00000	7362=	TM	0(R9),X'80'	LO IN STACK ?		00725001
00489C	4710 C0C4		0490E	7363=	BO	JNF2	NO, BRANCH		00726001
0048A0	D201 DA6A	9003	00A6A	00003	MVC	WPLACE(2),3(R9)	W = DISP(LO)		00727001
0048A6	96A0 DA6A		00A6A	7365=	OI	WPLACE,X'A0'	V = CDSA		00728001
0048AA	D201 C086	DA6E	048D0	00A6E	MVC	JRC3+2(2),YPLACE	PREPARE INSTRUCTION		00729001
0048B0	D201 C088	DA6A	048D2	00A6A	MVC	JRC3+4(2),WPLACE			00730001
0048B6	9102 A000		00000	7368=	TM	0(R10),X'02'	OPT 'IMPL' OR 'EQUIV' ?		00731001
0048BA	4780 C0A6		048F0	7369=	BZ	JRC4	YES, BRANCH		00732001
0048BE	9101 A000		00000	7370=	TM	0(R10),X'01'	OPT AND ?		00733001
0048C2	4710 C09E		048E8	7371=	BO	JRC2	YES, BRANCH		00734001
0048C6	92D0 C084		048CE	7372=JRC22	MVI	JRC3,X'D6'	PREPARE INSTRUCTION		00735001
0048CA	4520 55A6		005EE	7373=JRC21	BAL	R2,GENTXT6	GENERATE 6 BYTES		00736001
0048CE	D600 0000	0000	00000	00000	OC	0(1,0),0(0)	*** GENERATED CODE ***		00737001
0048D4	940F DA6E		00A6E	7375=JRF4	NI	YPLACE,X'0F'	CLEAR REGISTER NUMBER		00738001
0048D8	4870 DA6E		00A6E	7376=	LH	R7,YPLACE	LOAD VALUE OF OBJ ST POINT		00739001
0048DC	9608 9005		00005	7377=	OI	5(R9),X'08'	INSERT NO-ASSIGNMENT BIT		00740001
0048E0	4190 9005		00005	7378=JRF41	LA	R9,5(,R9)	CLOPD		00741001
0048E4	46A0 5060		000A8	7379=JRG4	BCT	R10,COMP	CLOPT AND COMPARE		00742001
0048E8	92D4 C084		048CE	7380=JRC2	MVI	JRC3,X'D4'	INSERT OPER CODE INTO CODE		00743001
0048EC	47F0 C080		048CA	7381=	B	JRC21			00744001
				7382=*					00745001
0048F0	D201 C0B2	C086	048FC	048D0	MVC	JRC41+2(2),JRC3+2	PREPARE INSTRUCTION		00746001
0048F6	4520 55A2		005EA	7384=	BAL	R2,GENTXT4	GENERATE 4 BYTES		00747001
0048FA	9701 0000		00000	7385=JRC41	XI	0(0),X'01'	*** GENERATED CODE ***		00748001
0048FE	9521 A000		00000	7386=	CLI	0(R10),X'21'	OPT EQUIV ?		00749001
004902	4780 C07C		048C6	7387=	BE	JRC22	YES, BRANCH		00750001
004906	92D7 C084		048CE	7388=	MVI	JRC3,X'D7'	INSERT OPER-CODE INTO CODE		00751001
00490A	47F0 C080		048CA	7389=	B	JRC21			00752001
				7390=*					00753001
00490E	91FF 9002		00002	7391=JNF2	TM	2(R9),X'FF'	LO A CONSTANT ?		00754001
004912	4770 C122		0496C	7392=	BNZ	JNF4	NO, BRANCH		00755001
004916	D200 C0F5	9004	0493F	00004	MVC	JSE3+1(1),4(R9)	PREPARE INSTRUCTION		00756001
00491C	9401 C0F5		0493F	7394=	NI	JSE3+1,X'01'			00757001
004920	D201 C0F6	DA6E	04940	00A6E	MVC	JSE3+2(2),YPLACE			00758001
004926	9102 A000		00000	7396=	TM	0(R10),X'02'	WHICH OPT		00759001
00492A	4780 C104		0494E	7397=	BZ	JSE4	EQU OR IMPL, BRANCH		00760001
00492E	9101 A000		00000	7398=	TM	0(R10),X'01'	OPT AND ?		00761001
004932	4710 C0FC		04946	7399=	BO	JSE2	YES, BRANCH		00762001
004936	9296 C0F4		0493E	7400=JSE22	MVI	JSE3,X'96'	PREPARE INSTRUCTION		00763001
00493A	4520 55A2		005EA	7401=JSE21	BAL	R2,GENTXT4	GENERATE 4 BYTES		00764001
00493E	9600 0000		00000	7402=JSE3	OI	0(0),X'00'	*** GENERATED CODE ***		00765001
004942	47F0 C08A		048D4	7403=	B	JRF4			00766001
				7404=*					00767001
004946	9294 C0F4		0493E	7405=JSE2	MVI	JSE3,X'94'	PREPARE INSTRUCTION		00768001
00494A	47F0 C0F0		0493A	7406=	B	JSE21			00769001

Active USINGS: IEX50000+X'484A',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00494E	D201 C110	C0F6 0495A	04940	7407=*			00770001
004954	4520 55A2		005EA	7408=JSE4	MVC	JSE41+2(2),JSE3+2	00771001
004958	9701 0000	00000		7409=	BAL	R2,GENTXT4	00772001
00495C	9521 A000	00000		7410=JSE41	XI	0(0),X'01'	00773001
004960	4780 C0EC		04936	7411=	CLI	0(R10),X'21'	00774001
004964	9297 C0F4	0493E		7412=	BE	JSE22	00775001
004968	47F0 C0F0		0493A	7413=	MVI	JSE3,X'97'	00776001
				7414=	B	JSE21	00777001
				7415=*			00778001
00496C	4540 593C		00984	7416=JNF4	BAL	R4,ROUTINE1	00779001
004970	D300 DA6A	DA72 00A6A	00A72	7417=JNF41	MVZ	WPLACE(1),VPLACE	00780001
004976	47F0 C060		048AA	7418=	B	JRB3	00781001
				7419=*			00782001
00497A	4540 59F2		00A3A	7420=JNE5	BAL	R4,ROUTINE3	00783001
00497E	47F0 C126		04970	7421=	B	JNF41	00784001
				7422=*			00785001
004982	91A0 9000	00000		7423=JOB1	TM	0(R9),X'A0'	00786001
004986	4770 C198		049E2	7424=	BNZ	JOC2	00787001
00498A	D201 DA6E	9003 00A6E	00003	7425=	MVC	YPLACE(2),3(R9)	00788001
004990	96A0 DA6E	00A6E		7426=	OI	YPLACE,X'A0'	00789001
004994	9521 A000	00000		7427=	CLI	0(R10),X'21'	00790001
004998	4770 C182		049CC	7428=	BNE	JOE2	00791001
00499C	4A70 DA56		00A56	7429=	AH	R7,ONEENTRY	00792001
0049A0	4070 D5F8		005F8	7430=	STH	R7,WORKPL	00793001
0049A4	4540 58BA		00902	7431=	BAL	R4,MAXCH	00794001
0049A8	D201 C176	DA6E 049C0	00A6E	7432=	MVC	JOG1+4(2),YPLACE	00795001
0049AE	D201 C174	D5F8 049BE	005F8	7433=	MVC	JOG1+2(2),WORKPL	00796001
0049B4	96A0 C174	049BE		7434=	OI	JOG1+2,X'A0'	00797001
0049B8	4520 55A6		005EE	7435=	BAL	R2,GENTXT6	00798001
0049BC	D200 A000	0000 00000	00000	7436=JOG1	MVC	0(1,CDSA),0(0)	00799001
0049C2	D201 9003	D5F8 00003	005F8	7437=	MVC	3(2,R9),WORKPL	00800001
0049C8	47F0 C1AC		049F6	7438=	B	JPB1	00801001
				7439=*			00802001
0049CC	D204 D5F8	9000 005F8	00000	7440=JOE2	MVC	WORKPL(5),0(R9)	00803001
0049D2	D204 9000	9005 00000	00005	7441=	MVC	0(5,R9),5(R9)	00804001
0049D8	D204 9005	D5F8 00005	005F8	7442=	MVC	5(5,R9),WORKPL	00805001
0049DE	47F0 C046		04890	7443=	B	JNE1	00806001
				7444=*			00807001
0049E2	4A70 DA56		00A56	7445=JOC2	AH	R7,ONEENTRY	00808001
0049E6	4070 D5F8		005F8	7446=	STH	R7,WORKPL	00809001
0049EA	4540 58BA		00902	7447=	BAL	R4,MAXCH	00810001
0049EE	4070 DA6E		00A6E	7448=	STH	R7,YPLACE	00811001
0049F2	96A0 DA6E	00A6E		7449=	OI	YPLACE,X'A0'	00812001
0049F6	9120 9005	00005		7450=JPB1	TM	5(R9),X'20'	00813001
0049FA	4710 C210		04A5A	7451=	BO	JQB2	00814001
0049FE	91FF 9007	00007		7452=	TM	7(R9),X'FF'	00815001
004A02	4770 C210		04A5A	7453=	BNZ	JQB2	00816001
004A06	D200 C1D1	9009 04A1B	00009	7454=	MVC	JQE1+1(1),9(R9)	00817001
004A0C	9401 C1D1	04A1B		7455=	NI	JQE1+1,X'01'	00818001
004A10	D201 C1D2	DA6E 04A1C	00A6E	7456=	MVC	JQE1+2(2),YPLACE	00819001
004A16	4520 55A2		005EA	7457=	BAL	R2,GENTXT4	00820001
004A1A	9200 A000	00000		7458=JQE1	MVI	0(CDSA),X'00'	00821001
004A1E	9630 9006	00006		7459=	OI	6(R9),X'30'	00822001
004A22	945F 9005	00005		7460=JQE2	NI	5(R9),X'5F'	00823001
004A26	D200 9007	DA5D 00007	00A5D	7461=	MVC	7(1,R9),SPBNST+1	00824001
004A2C	D201 9008	DA6E 00008	00A6E	7462=	MVC	8(2,R9),YPLACE	00825001
004A32	940F 9008	00008		7463=	NI	8(R9),X'0F'	00826001
004A36	47F0 C046		04890	7464=	B	JNE1	00827001
				7465=*			00828001
004A3A	06A0			7466=JMC2	BCTR	R10,0	00829001
004A3C	4540 5310		00358	7467=	BAL	R4,SERR2	00830001
004A40	00B6			7468=	DC	H'182'	00831001
				7469=*			00832001
004A42	41A0 A001		00001	7470=	LA	R10,1(R10)	00833001
004A46	D204 9005	5182 00005	001CA	7471=JMC31	MVC	5(5,R9),API	00834001
004A4C	47F0 C096		048E0	7472=	B	JRF41	00835001
				7473=*			00836001
004A50	4540 5310		00358	7474=JMC3	BAL	R4,SERR2	00837001
004A54	00B6			7475=	DC	H'182'	00838001
				7476=*			00839001
004A56	47F0 C1FC		04A46	7477=	B	JMC31	00840001
				7478=*			00841001
004A5A	4190 9005		00005	7479=JQB2	LA	R9,5(R9)	00842001
004A5E	9120 9000	00000		7480=	TM	0(R9),X'20'	00843001
004A62	4710 C244		04A8E	7481=	BO	JQB4	00844001
004A66	4540 593C		00984	7482=	BAL	R4,ROUTINE1	00845001
004A6A	4B90 5170		001B8	7483=JQD3	SH	R9,KH5	00846001
004A6E	D201 C23C	DA6E 04A86	00A6E	7484=	MVC	JQE3+2(2),YPLACE	00847001
004A74	D201 C23E	DA6A 04A88	00A6A	7485=	MVC	JQE3+4(2),WPLACE	00848001
004A7A	D300 C23E	DA72 04A88	00A72	7486=	MVZ	JQE3+4(1),VPLACE	00849001
004A80	4520 55A6		005EE	7487=	BAL	R2,GENTXT6	00850001
004A84	D200 0000	0000 00000	00000	7488=JQE3	MVC	0(1,0),0(0)	00851001
004A8A	47F0 C1D8		04A22	7489=	B	JQE2	00852001
				7490=*			00853001
004A8E	4540 59F2		00A3A	7491=JQB4	BAL	R4,ROUTINE3	00854001
004A92	9640 9000	00000		7492=	OI	0(R9),X'40'	00855001
004A96	47F0 C220		04A6A	7493=	B	JQD3	00856001
				7494=*			00857001
				7495=*****			00858001
				7496=*			00859001
				7497=*	COMPILER PROGRAM - CP77		00860001
				7498=*			00861001
				7499=*****			00862001
				7500=*			00863001
				7501=*	LOGICAL OPERATION NOT		00864001
				7502=*	CONTEXT	EXPRESSION	00865001

Active USINGS: IEX50000+X'48A',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				7503=*	SOURCE OPERATOR	ALL EXCEPT 'NOT', (, (/, 'IF', ARITHMETIC	00866001
				7504=*		AND RELATIONAL OPERATORS	00867001
				7505=*	STACK OPERATOR	'NOT'	00868001
				7506=*	OPERANDS	ONE BOOLEAN	00869001
				7507=*			00870001
		R:C 04A9A		7508=	USING	CP77,R12	00871001
004A9A	4140 C05E		04AF8	7509=CP77	LA	R4, JWB2	00872001
004A9E	4530 5F08		00F50	7510=	BAL	R3, OPDTEST	00873001
004AA2	4540 5E9A		00EE2	7511=	BAL	R4, ARRTST1	00874001
004AA6	9103 9001	00001		7512=	TM	1(R9), X'03'	00875001
004AAA	4710 C024		04ABE	7513=	BO	JWD1	00876001
004AAE	4540 5310		00358	7514=	BAL	R4, SERR2	00877001
004AB2	00B6			7515=	DC	H'182'	00878001
				7516=*			00879001
004AB4	D204 9000	5182 00000	001CA	7517=JWC4	MVC	0(5,R9), API	00880001
004ABA	46A0 5060		000A8	7518=JWK3	BCT	R10, COMP	00881001
004ABE	9180 D080	00080		7519=JWD1	TM	COMPLG5, COMPMODE	00882001
004AC2	4710 C020		04ABA	7520=	BO	JWK3	00883001
004AC6	4540 578A		007D2	7521=	BAL	R4, OPDREC	00884001
004ACA	9120 9000	00000		7522=	TM	0(R9), X'20'	00885001
004ACE	4710 C0EC		04B86	7523=	BO	JWF2	00886001
004AD2	91FF 9002	00002		7524=	TM	2(R9), X'FF'	00887001
004AD6	4780 C0A6		04B40	7525=	BZ	JWH1	00888001
004ADA	9180 9000	00000		7526=	TM	0(R9), X'80'	00889001
004ADE	4710 C062		04AFC	7527=	BO	JWG3	00890001
004AE2	D201 C058	9003 04AF2	00003	7528=JWH21	MVC	JWH2+2(2), 3(R9)	00891001
004AE8	96A0 C058	04AF2		7529=	OI	JWH2+2, X'A0'	00892001
004AEC	4520 55A2		005EA	7530=	BAL	R2, GENTXT4	00893001
004AF0	9701 A000	00000		7531=JWH2	XI	0(CDSA), X'01'	00894001
004AF4	9608 9000	00000		7532=JWH3	OI	0(R9), X'08'	00895001
004AF8	46A0 5060		000A8	7533=JWB2	BCT	R10, COMP	00896001
004AFC	4540 593C		00984	7534=JWG3	BAL	R4, ROUTINE1	00897001
004B00	4A70 DA56		00A56	7535=JWG31	AH	R7, ONEENTRY	00898001
004B04	4070 D5F8		005F8	7536=	STH	R7, WORKPL	00899001
004B08	4540 58BA		00902	7537=	BAL	R4, MAXCH	00900001
004B0C	945F 9000	00000		7538=	NI	0(R9), X'5F'	00901001
004B10	D201 9003	D5F8 00003	005F8	7539=	MVC	3(2,R9), WORKPL	00902001
004B16	D200 9002	DA5D 00002	00A5D	7540=	MVC	2(1,R9), SPBNST+1	00903001
004B1C	D201 C09E	D5F8 04B38	005F8	7541=	MVC	JWJ3+2(2), WORKPL	00904001
004B22	96A0 C09E		04B38	7542=	OI	JWJ3+2, X'A0'	00905001
004B26	D201 C0A0	DA6A 04B3A	00A6A	7543=	MVC	JWJ3+4(2), WPLACE	00906001
004B2C	D300 C0A0	DA72 04B3A	00A72	7544=	MVZ	JWJ3+4(1), VPLACE	00907001
004B32	4520 55A6		005EE	7545=	BAL	R2, GENTXT6	00908001
004B36	D200 A000	0000 00000	00000	7546=JWJ3	MVC	0(1,CDSA), 0(0)	00909001
004B3C	47F0 C048		04AE2	7547=	B	JWH21	00910001
				7548=*			00911001
004B40	4A70 DA56		00A56	7549=JWH1	AH	R7, ONEENTRY	00912001
004B44	4070 D5F8		005F8	7550=	STH	R7, WORKPL	00913001
004B48	4540 58BA		00902	7551=	BAL	R4, MAXCH	00914001
004B4C	D201 C0D2	D5F8 04B6C	005F8	7552=	MVC	JWK1+2(2), WORKPL	00915001
004B52	96A0 C0D2		04B6C	7553=	OI	JWK1+2, X'A0'	00916001
004B56	9200 C0D1		04B6B	7554=JWK11	MVI	JWK1+1, X'00'	00917001
004B5A	9101 9004	00004		7555=	TM	4(R9), X'01'	00918001
004B5E	4710 C0CC		04B66	7556=	BO	JWK12	00919001
004B62	9201 C0D1		04B6B	7557=	MVI	JWK1+1, X'01'	00920001
004B66	4520 55A2		005EA	7558=JWK12	BAL	R2, GENTXT4	00921001
004B6A	9200 A000	00000		7559=JWK1	MVI	0(CDSA), X'00'	00922001
004B6E	D201 9003	D5F8 00003	005F8	7560=	MVC	3(2,R9), WORKPL	00923001
004B74	945F 9000	00000		7561=	NI	0(R9), X'5F'	00924001
004B78	9630 9001	00001		7562=	OI	1(R9), X'30'	00925001
004B7C	D200 9002	DA5D 00002	00A5D	7563=	MVC	2(1,R9), SPBNST+1	00926001
004B82	47F0 C05A		04AF4	7564=	B	JWH3	00927001
				7565=*			00928001
004B86	4540 59F2		00A3A	7566=JWF2	BAL	R4, ROUTINE3	00929001
004B8A	9640 9000	00000		7567=	OI	0(R9), X'40'	00930001
004B8E	47F0 C066		04B00	7568=	B	JWG31	00931001
				7569=*			00932001
				7570=	*****		00933001
				7571=*			00934001
				7572=*	COMPILER PROGRAM - CP78		00935001
				7573=*			00936001
				7574=	*****		00937001
				7575=*			00938001
				7576=*	IF CLAUSE		00939001
				7577=*	CONTEXT	EXPRESSION	00940001
				7578=*	SOURCE OPERATOR	'THEN'	00941001
				7579=*	STACK OPERATOR	'IF', 'IFS'	00942001
				7580=*	OPERANDS	BOOLEAN OPERANDS	00943001
				7581=*			00944001
		R:C 04B92		7582=	USING	CP78,R12	00945001
004B92	4140 C01A		04BAC	7583=CP78	LA	R4, JZB1	00946001
004B96	4530 5F08		00F50	7584=	BAL	R3, OPDTEST	00947001
004B9A	4540 5E9A		00EE2	7585=	BAL	R4, ARRTST1	00948001
004B9E	9103 9001	00001		7586=	TM	1(R9), X'03'	00949001
004BA2	4710 C030		04BC2	7587=	BO	JYD1	00950001
004BA6	4540 5310		00358	7588=	BAL	R4, SERR2	00951001
004BAA	00B6			7589=	DC	H'182'	00952001
				7590=*			00953001
004BAC	9526 A000	00000		7591=JZB1	CLI	0(R10), X'26'	00954001
004BB0	D200 A000	8000 00000	00000	7592=	MVC	0(1,R10), 0(R8)	00955001
004BB6	0775			7593=	BNER	R5	00956001
004BB8	9227 A000	00000		7594=	MVI	0(R10), X'27'	00957001
004BBC	4BB0 5180		001C8	7595=	SH	R11, KH614	00958001
004BC0	07F5			7596=	BR	R5	00959001
				7597=*			00960001
004BC2	9180 D080	00080		7598=JYD1	TM	COMPLG5, COMPMODE	00961001



Active USINGS: IEX50000+X'4B92',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
004BC6	4710 C01A		04BAC	7599=	BO	JZB1	YES, BRANCH		00962001
004BCA	4540 578A		007D2	7600=	BAL	R4, OPDREC	OPERAND RECOGNIZER		00963001
004BCE	9120 9000	00000		7601=	TM	0(R9),X'20'	OPERAND A VALUE ?		00964001
004BD2	4710 C086		04C18	7602=	BO	JYF2	AN ADDR, BRANCH		00965001
004BD6	9180 9000	00000		7603=	TM	0(R9),X'80'	OPERAND IN OBJECT STACK ?		00966001
004BDA	4710 C050		04BE2	7604=	BO	JYH12	NO, BRANCH		00967001
004BDE	4B70 DA56		00A56	7605=	SH	R7, ONEENTRY	RELEASE OBJ STACK ENTRY		00968001
004BE2	4540 593C		00984	7606=JYH12	BAL	R4, ROUTINE1	LOAD V-W-PLACE FOR VALUE		00969001
004BE6	D201 C066	DA6A 04BF8	00A6A	7607=JYH11	MVC	JYH1+2(2),WPLACE	INTRODUCE DISPLACEMENT		00970001
004BEC	D300 C066	DA72 04BF8	00A72	7608=	MVZ	JYH1+2(1),WPLACE	INSERT V-PLACE INTO CODE		00971001
004BF2	4520 55A2		005EA	7609=	BAL	R2, GENTXT4	GENERATE 4 BYTES		00972001
004BF6	91FF 0000	00000		7610=JYH1	TM	0(0),X'FF'	*** GENERATED CODE ***		00973001
004BFA	4540 5E70		00EB8	7611=	BAL	R4, LATRES	RESERVE LABEL		00974001
004BFE	D201 9003	D0A2 00003	000A2	7612=	MVC	3(2,R9),LN	INSERT LABEL INTO OPERAND		00975001
004C04	D201 C07E	D0A2 04C10	000A2	7613=	MVC	JYJ3+2(2),LN	INSERT LABEL INTO CODE		00976001
004C0A	4520 55A6		005EE	7614=	BAL	R2, GENTXT6	GENERATE 6 BYTES		00977001
004C0E	58FC 0000		00000	7615=JYJ3	L	BRR,0(LAT,0)	*** GENERATED CODE ***		00978001
004C12	078F			7616=	BZR	BRR	*** GENERATED CODE ***		00979001
004C14	47F0 C01A		04BAC	7617=	B	JZB1			00980001
				7618=*					00981001
004C18	4540 59F2		00A3A	7619=JYF2	BAL	R4, ROUTINE3	LOAD W-V-PLACE FOR ADDR		00982001
004C1C	47F0 C054		04BE6	7620=	B	JYH11			00983001
				7621=*					00984001
				7622=*****					00985001
				7623=*					00986001
				7624=*		COMPILER PROGRAM - CP78			00987001
				7625=*					00988001
				7626=*****					00989001
				7627=*					00990001
				7628=*		END OF CONDITIONAL EXPRESSION			00991001
				7629=*		CONTEXT EXPRESSION			00992001
				7630=*		SOURCE OPERATOR SEE EXPTENSION CONTEXT MATRIX			00993001
				7631=*		STACK OPERATOR 'ELSE'			00994001
				7632=*		OPERANDS TWO OPERANDS AND ONE LABEL			00995001
				7633=*					00996001
				7634=	USING	CP79,R12			00997001
004C20	4140 C082	R:C 04C20	04CA2	7635=CP79	LA	R4, KBB2	LOAD RETURN ADDR		00998001
004C24	4530 5F08		00F50	7636=	BAL	R3, OPDTEST	OPDT AND ERROR 162		00999001
004C28	4540 5E9A		00EE2	7637=	BAL	R4, ARRTST1			01000001
004C2C	9103 9001	00001		7638=	TM	1(R9),X'03'	LO BOOLEAN ?		01001001
004C30	4710 C090		04CB0	7639=	BO	KBD1	YES, BRANCH		01002001
004C34	4740 C170		04D90	7640=	BM	KCB11			01003001
004C38	9108 9001	00001		7641=	TM	1(R9),X'08'	LO A LABEL ?		01004001
004C3C	4780 C078		04C98	7642=	BZ	KFB2	NO, BRANCH		01005001
004C40	9108 9006	00006		7643=	TM	6(R9),X'08'	BLD A LABEL ?		01006001
004C44	4780 C0A0		04CC0	7644=	BZ	KBD2	NO, BRANCH		01007001
004C48	9180 D080	00080		7645=	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?		01008001
004C4C	4710 C0F4		04D14	7646=	BO	KBD31	YES, BRANCH		01009001
004C50	4540 578A		007D2	7647=	BAL	R4, OPDREC			01010001
004C54	9140 9001	00001		7648=	TM	1(R9),X'40'			01011001
004C58	4710 C0A0		04CC0	7649=	BO	KBD2			01012001
004C5C	9180 9003	00003		7650=	TM	3(R9),X'80'			01013001
004C60	4710 C0D4		04CF4	7651=	BO	KBH1	YES, BRANCH		01014001
004C64	D201 C072	9003 04C92	00003	7652=KFE1	MVC	KFE11+2(2),3(R9)	PREPARE INSTRUCTION		01015001
004C6A	9601 DA46	00A46		7653=	OI	R11,X'01'			01016001
004C6E	1BFF			7654=	SR	R15,R15	PREPARE INSTRUCTION		01017001
004C70	43F9 0002		00002	7655=	IC	R15,2(R9)			01018001
004C74	89F0 0003		00003	7656=	SLL	R15,3			01019001
004C78	40F0 D5F8		005F8	7657=	STH	R15,WORKPL			01020001
004C7C	D201 C076	D5F8 04C96	005F8	7658=	MVC	KFE12+2(2),WORKPL			01021001
004C82	4120 C070		04C90	7659=	LA	R2, KFE11			01022001
004C86	45E0 5588		005D0	7660=	BAL	R14, GENTXTS			01023001
004C8A	0008			7661=	DC	H'8'	GENERATE 8 BYTES		01024001
				7662=*					01025001
004C8C	47F0 C0D4		04CF4	7663=	B	KBH1			01026001
				7664=*					01027001
004C90	588C 0000		00000	7665=KFE11	L	ADR,0(LAT,0)	*** GENERATED CODE ***		01028001
004C94	589B 0000		00000	7666=KFE12	L	GDSA,0(PBT,0)	*** GENERATED CODE ***		01029001
				7667=*					01030001
004C98	4540 5380		003C8	7668=KFB2	BAL	R4, SERR1			01031001
004C9C	00B2			7669=	DC	H'178'	ERROR 178		01032001
				7670=*					01033001
004C9E	47F0 C0A6		04CC6	7671=	B	KBD3			01034001
				7672=*					01035001
004CA2	4190 900A		0000A	7673=KBB2	LA	R9,10(,R9)	CLEAR TWO OPERANDS		01036001
004CA6	D204 9000	5182 00000	001CA	7674=KBD4	MVC	0(5,R9),API	INTRODUCE API		01037001
004CAC	46A0 5060		000A8	7675=KBJ4	BCT	R10,COMP	CLOPT AND COMPARE		01038001
004CB0	9103 9006	00006		7676=KBD1	TM	6(R9),X'03'	BLO BOOLEAN ?		01039001
004CB4	4710 C0AE		04CCE	7677=	BO	KBE1	YES, BRANCH		01040001
004CB8	9110 9000	00000		7678=	TM	0(R9),APIMASK	LO AN API ?		01041001
004CBC	4710 C0A6		04CC6	7679=	BO	KBD3	YES, BRANCH		01042001
004CC0	4540 5380		003C8	7680=KBD2	BAL	R4, SERR1			01043001
004CC4	00A5			7681=	DC	H'165'	ERROR 165		01044001
				7682=*					01045001
004CC6	4190 900A		0000A	7683=KBD3	LA	R9,10(,R9)	CLEAR TWO OPERANDS		01046001
004CCA	47F0 C086		04CA6	7684=	B	KBD4			01047001
				7685=*					01048001
004CCE	9180 D080	00080		7686=KBE1	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ?		01049001
004CD2	4710 C0F4		04D14	7687=	BO	KBD31	YES, BRANCH		01050001
004CD6	4540 578A		007D2	7688=	BAL	R4, OPDREC	OPERAND RECOGNIZER		01051001
004CDA	9120 9000	00000		7689=	TM	0(R9),X'20'			01052001
004CDE	4710 C148		04D68	7690=	BO	KBF4			01053001
004CE2	9180 9000	00000		7691=	TM	0(R9),X'80'	LO IN STACK ?		01054001
004CE6	4710 C12C		04D4C	7692=	BO	KBF3	NO, BRANCH		01055001
004CEA	D501 9003	9008 00003	00008	7693=	CLC	3(2,R9),8(R9)	LO AND BLO IN=PLACE ?		01056001
004CF0	4770 C10A		04D2A	7694=	BNE	KBG2	NO, BRANCH		01057001

Active USINGS: IEX50000+X'4C20',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
004CF4	D201 D5F8	9008	005F8	00008	7695=KBH1	MVC WORKPL(2),8(R9)	LOAD LAST P 01058001
004CFA	940F D5F8		005F8		7696=	NI WORKPL,X'0F'	01059001
004CFE	4870 D5F8			005F8	7697=	LH R7,WORKPL	01060001
004D02	D201 D5F8	900D	005F8	0000D	7698=KBH11	MVC WORKPL(2),13(R9)	TRANSFER PRPOINT TO LAT 01061001
004D08	48F0 D5F8			005F8	7699=	LH R15,WORKPL	ENTRY INDICATED BY R9+13 01062001
004D0C	58E0 D61C			0061C	7700=	L R14,LATAB	01063001
004D10	506E F000			00000	7701=	ST R6,0(R14,R15)	01064001
004D14	D204 900A	9005	0000A	00005	7702=KBD31	MVC 10(5,R9),5(R9)	C(R9+10)=C(R9+5) 01065001
004D1A	4190 900A			0000A	7703=	LA R9,10(,R9)	CLEAR TWO OPERANDS 01066001
004D1E	92FF DA61		00A61		7704=	MVI GPBN+1,X'FF'	01067001
004D22	9608 9000		00000		7705=	OI 0(R9),X'08'	01068001
004D26	46A0 5060			000A8	7706=	BCT R10,COMP	CLOPT AND COMPARE 01069001
004D2A	D201 C126	9003	04D46	00003	7707=KBG2	MVC KBG21+4(2),3(R9)	PREPARE INSTRUCTION 01070001
004D30	96A0 C126		04D46		7708=	OI KBG21+4,X'A0'	01071001
004D34	D201 C124	9008	04D44	00008	7709=KBG22	MVC KBG21+2(2),8(R9)	01072001
004D3A	96A0 C124		04D44		7710=	OI KBG21+2,X'A0'	01073001
004D3E	4520 55A6			005EE	7711=	BAL R2,GENTXT6	GENERATE 6 BYTES 01074001
004D42	D200 A000	A000	00000	00000	7712=KBG21	MVC 0(1,CDSA),0(CDSA)	*** GENERATED CODE *** 01075001
004D48	47F0 C0D4		04CF4		7713=	B KBH1	01076001
					7714=*		01077001
004D4C	91FF 9002		00002		7715=KBF3	TM 2(R9),X'FF'	LO A CONSTANT ? 01078001
004D50	4780 C150		04D70		7716=	BZ KBG3	YES, BRANCH 01079001
004D54	4540 593C			00984	7717=	BAL R4,ROUTINE1	CALL ROUTINE NUMBER 1 01080001
004D58	D201 C126	DA6A	04D46	00A6A	7718=KBH3	MVC KBG21+4(2),WPLACE	PREPARE INSTRUCTION 01081001
004D5E	D300 C126	DA72	04D46	00A72	7719=	MVZ KBG21+4(1),VPLACE	01082001
004D64	47F0 C114		04D34		7720=	B KBG22	01083001
					7721=*		01084001
004D68	4540 59F2		00A3A		7722=KBF4	BAL R4,ROUTINE3	CALL ROUTINE NUMBER 3 01085001
004D6C	47F0 C138		04D58		7723=	B KBH3	01086001
					7724=*		01087001
004D70	D200 C169	9004	04D89	00004	7725=KBG3	MVC KBG31+1(1),4(R9)	PREPARE INSTRUCTION 01088001
004D76	9401 C169		04D89		7726=	NI KBG31+1,X'01'	01089001
004D7A	D201 C16A	9008	04D8A	00008	7727=	MVC KBG31+2(2),8(R9)	01090001
004D80	96A0 C16A		04D8A		7728=	OI KBG31+2,X'A0'	01091001
004D84	4520 55A2			005EA	7729=	BAL R2,GENTXT4	GENERATE 4 BYTES 01092001
004D88	9200 A000		00000		7730=KBG31	MVI 0(CDSA),X'00'	*** GENERATED CODE *** 01093001
004D8C	47F0 C0D4		04CF4		7731=	B KBH1	01094001
					7732=*		01095001
004D90	9140 9005		00005		7733=KCB11	TM 5(R9),X'40'	01096001
004D94	4780 C1C0		04DE0		7734=	BZ KCB1	01097001
004D98	D300 9008	900A	00008	0000A	7735=	MVZ 8(1,R9),10(R9)	01098001
004D9E	1BEE				7736=	SR R14,R14	01099001
004DA0	41F0 0001		00001		7737=	LA R15,1	01100001
004DA4	97C0 9005		00005		7738=	XI 5(R9),X'C0'	01101001
004DA8	43E9 0008			00008	7739=	IC R14,8(R9)	01102001
004DAC	88E0 0004			00004	7740=	SRL R14,4	01103001
004DB0	9102 9006		00006		7741=	TM 6(R9),X'02'	01104001
004DB4	4780 C1B0		04DD0		7742=	BZ KCB12	01105001
004DB8	42E0 DA45		00A45		7743=	STC R14,CIR+1	01106001
004DBC	88E0 0001		00001		7744=	SRL R14,1	01107001
004DC0	89F0 E000		00000		7745=	SLL R15,0(R14)	01108001
004DC4	42F0 C1A9		04DC9		7746=	STC R15,KCE112+1	SET OR MASK 01109001
004DC8	9600 DA49		00A49		7747=KCE112	OI RIR+1,X'00'	01110001
004DCC	47F0 C1C0		04DE0		7748=	B KCB1	01111001
					7749=*		01112001
004DD0	89F0 E000		00000		7750=KCB12	SLL R15,0(R14)	01113001
004DD4	42F0 C1B9		04DD9		7751=	STC R15,KCB13+1	01114001
004DD8	9600 DA47		00A47		7752=KCB13	OI RII+1,X'00'	01115001
004DDC	42E0 DA43		00A43		7753=	STC R14,CII+1	01116001
004DE0	9103 9006		00006		7754=KCB1	TM 6(R9),X'03'	BLO REAL OR INTEGER ? 01117001
004DE4	47B0 C3FA		0501A		7755=	BNM KBD21	NO, BRANCH 01118001
004DE8	9180 D080		00080		7756=	TM COMPFGLS,COMPmode	SYNTAX CHECK MODE ? 01119001
004DEC	4710 C0F4		04D14		7757=	BO KBD31	YES, BRANCH 01120001
004DF0	4540 578A		007D2		7758=KCE1	BAL R4,OPDREC	OPERAND RECOGNIZER 01121001
004DF4	9102 9001		00001		7759=	TM 1(R9),X'02'	LO REAL ? 01122001
004DF8	4780 C336		04F56		7760=	BZ KEB1	YES, BRANCH 01123001
004DFC	9102 9006		00006		7761=	TM 6(R9),X'02'	BLO REAL ? 01124001
004E00	4780 C2A0		04EC0		7762=	BZ KDB1	INTEGER, BRANCH 01125001
004E04	4140 C282		04EA2		7763=	LA R4,KCF4	01126001
004E08	4530 5CB4		00CFC		7764=	BAL R3,ROUTIN15	CALL ROUTINE NUMBER 15 01127001
004E0C	D201 D5F8	DA50	005F8	00A50	7765=KCE11	MVC WORKPL(2),ZEROWH	01128001
004E12	D300 D5F8	9008	005F8	00008	7766=	MVZ WORKPL(1),8(R9)	CHECK IF LO AND BLO ARE 01129001
004E18	D300 D5F9	9003	005F9	00003	7767=	MVZ WORKPL+1(1),3(R9)	LOADED IN THE SAME FPR 01130001
004E1E	D500 D5F8	D5F9	005F8	005F9	7768=	CLC WORKPL(1),WORKPL+1	01131001
004E24	4770 C222		04E42		7769=	BNE KCF2	NO, BRANCH 01132001
004E28	1BEE				7770=	SR R14,R14	INTRODUCE R9 ADD IN RUTR 01133001
004E2A	43E0 D5F8		005F8		7771=	IC R14,WORKPL	01134001
004E2E	88E0 0003		00003		7772=	SRL R14,3	01135001
004E32	4190 900A		0000A		7773=KCG11	LA R9,10(0,R9)	01136001
004E36	509E D5E4		005E4		7774=	ST R9,RUTR(R14)	01137001
004E3A	4890 5176		001BE		7775=	SH R9,KH10	01138001
004E3E	47F0 C0D4		04CF4		7776=	B KBH1	01139001
					7777=*		01140001
004E42	1BEE				7778=KCF2	SR R14,R14	LOAD FPR NUMBER OF LO 01141001
004E44	43E0 D5F9		005F9		7779=	IC R14,WORKPL+1	01142001
004E48	88E0 0005		00005		7780=	SRL R14,5	PREPARE MASK TO SET RIR 01143001
004E4C	41F0 0001		00001		7781=	LA R15,1	01144001
004E50	89F0 E000		00000		7782=	SLL R15,0(R14)	01145001
004E54	42F0 C23D		04E5D		7783=	STC R15,KCF21+1	01146001
004E58	97FF C23D		04E5D		7784=	XI KCF21+1,X'FF'	01147001
004E5C	9400 DA49		00A49		7785=KCF21	NI RIR+1,X'00'	01148001
004E60	89E0 0001		00001		7786=	SLL R14,1	PREPARE INSTRUCTION 01149001
004E64	42E0 C253		04E73		7787=	STC R14,KCG2+1	01150001
004E68	D600 C253	D5F8	04E73	005F8	7788=	OC KCG2+1(1),WORKPL	01151001
004E6A	4520 5598		005E0		7789=	BAL R2,GENTXTP2	GENERATE 2 BYTES 01152001
004E72	2800				7790=KCG2	LDR 0,0	*** GENERATED CODE *** 01153001

Active USINGS: IEX50000+X'4C20',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
004E74	1BEE			7791=KCH21	SR	R14,R14	01154001
004E76	43E9 0008		00008	7792=	IC	R14,8(R9)	01155001
004E7A	88E0 0005		00005	7793=	SRL	R14,5	01156001
004E7E	41F0 0001		00001	7794=	LA	R15,1	01157001
004E82	89F0 E000		00000	7795=	SLL	R15,0(R14)	01158001
004E86	42F0 C268		04E8B	7796=	STC	R15,KCH2+1	01159001
004E8A	9600 DA49	00A49		7797=KCH2	OI	RIR+1,X'00'	01160001
004E8E	89E0 0001		00001	7798=	SLL	R14,1	01161001
004E92	42E0 DA45		00A45	7799=	STC	R14,CIR+1	01162001
004E96	89E0 0001		00001	7800=	SLL	R14,1	01163001
004E9A	47F0 C212		04E32	7801=	B	KCG11	01164001
				7802=*			01165001
004E9E	4540 593C		00984	7803=KCE4	BAL	R4,ROUTINE1	01166001
004EA2	D300 C299	9008 04EB9	00008	7804=KCF4	MVZ	KCH4+1(1),8(R9)	01167001
004EA8	D100 C299	DA72 04EB9	00A72	7805=	MVN	KCH4+1(1),WPLACE	01168001
004EAE	D201 C29A	DA6A 04EBA	00A6A	7806=	MVC	KCH4+2(2),WPLACE	01169001
004EB4	4520 5594		005DC	7807=	BAL	R2,GENTXTP4	01170001
004EB8	6800 0000		00000	7808=KCH4	LD	0,0(0,0)	01171001
004EBC	47F0 C254		04E74	7809=	B	KCH21	01172001
				7810=*			01173001
004EC0	4140 C31A		04F3A	7811=KDB1	LA	R4,KDC41	01174001
004EC4	4530 5CB4		00CFC	7812=	BAL	R3,ROUTIN15	01175001
004EC8	91F0 9003	00003		7813=	TM	3(R9),X'F0'	01176001
004ECC	4770 C2E8		04F08	7814=	BNZ	KDE31	01177001
004ED0	4520 55A6		005EE	7815=KDG11	BAL	R2,GENTXT6	01178001
004ED4	05F0			7816=	BALR	BRR,0	01179001
004ED6	47F0 F00A		0000A	7817=	B	10(,BRR)	01180001
004EDA	D201 D5F8	900D 005F8	0000D	7818=	MVC	WORKPL(2),13(R9)	01181001
004EE0	48F0 D5F8		005F8	7819=	LH	R15,WORKPL	01182001
004EE4	58E0 D61C		0061C	7820=	L	R14,LATAB	01183001
004EE8	506E F000		00000	7821=	ST	R6,0(R14,R15)	01184001
004EEC	4190 9005		00005	7822=	LA	R9,5(,R9)	01185001
004EF0	94FE DA49	00A49		7823=	NI	RIR+1,X'FE'	01186001
004EF4	4540 545E		00A46	7824=	BAL	R4,TRINRE	01187001
004EF8	4190 9005		00005	7825=	LA	R9,5(,R9)	01188001
004EFC	5090 D5E4		005E4	7826=	ST	R9,RUTR	01189001
004F00	4890 5176		001BE	7827=	SH	R9,KH10	01190001
004F04	47F0 C0F4		04D14	7828=	B	KBD31	01191001
				7829=*			01192001
004F08	1BEE			7830=KDE31	SR	R14,R14	01193001
004F0A	43E9 0003		00003	7831=	IC	R14,3(R9)	01194001
004F0E	88E0 0004		00004	7832=	SRL	R14,4	01195001
004F12	42E0 C315		04F35	7833=	STC	R14,KDF3+1	01196001
004F16	88E0 0001		00001	7834=	SRL	R14,1	01197001
004F1A	41F0 0001		00001	7835=	LA	R15,1	01198001
004F1E	89F0 E000		00000	7836=	SLL	R15,0(R14)	01199001
004F22	42F0 D5F8		005F8	7837=	STC	R15,WORKPL	01200001
004F26	97FF D5F8	005F8		7838=	XI	WORKPL,X'FF'	01201001
004F2A	D400 DA49	D5F8 00A49	005F8	7839=	NC	RIR+1(1),WORKPL	01202001
004F30	4520 5598		005E0	7840=	BAL	R2,GENTXTP2	01203001
004F34	2800			7841=KDF3	LDR	0,0	01204001
004F36	47F0 C2B0		04ED0	7842=	B	KDG11	01205001
				7843=*			01206001
004F3A	D201 C32C	DA6A 04F4C	00A6A	7844=KDC41	MVC	KDC4+2(2),WPLACE	01207001
004F40	D100 C32B	DA72 04F4B	00A72	7845=	MVN	KDC4+1(1),WPLACE	01208001
004F46	4520 5594		005DC	7846=	BAL	R2,GENTXTP4	01209001
004F4A	6800 0000		00000	7847=KDC4	LD	0,0(0,0)	01210001
004F4E	4A70 DA56		00A56	7848=	AH	R7,ONEENTRY	01211001
004F52	47F0 C2B0		04ED0	7849=	B	KDG11	01212001
				7850=*			01213001
004F56	9101 9006	00006		7851=KEB1	TM	6(R9),X'01'	01214001
004F5A	4780 C3EE		0500E	7852=	BZ	KEC2	01215001
004F5E	4140 C3D0		04FF0	7853=	LA	R4,KEF31	01216001
004F62	4530 5CB4		00CFC	7854=	BAL	R3,ROUTIN15	01217001
004F66	D201 D5F8	DA50 005F8	00A50	7855=	MVC	WORKPL(2),ZEROWH	01218001
004F6C	D300 D5F8	9008 005F8	00008	7856=	MVZ	WORKPL(1),8(R9)	01219001
004F72	D300 D5F9	9003 005F9	00003	7857=	MVZ	WORKPL+1(1),3(R9)	01220001
004F78	D500 D5F8	D5F9 005F8	005F9	7858=	CLC	WORKPL(1),WORKPL+1	01221001
004F7E	4770 C37C		04F9C	7859=	BNE	KEF2	01222001
004F82	1BEE			7860=	SR	R14,R14	01223001
004F84	43E0 D5F8		005F8	7861=	IC	R14,WORKPL	01224001
004F88	88E0 0002		00002	7862=	SRL	R14,2	01225001
004F8C	4190 900A		0000A	7863=KEG1	LA	R9,10(0,R9)	01226001
004F90	5090 D5C0		005C0	7864=	ST	R9,RUTI	01227001
004F94	4890 5176		001BE	7865=	SH	R9,KH10	01228001
004F98	47F0 C0D4		04CF4	7866=	B	KBH1	01229001
				7867=*			01230001
004F9C	1BEE			7868=KEF2	SR	R14,R14	01231001
004F9E	43E0 D5F9		005F9	7869=	IC	R14,WORKPL+1	01232001
004FA2	88E0 0004		00004	7870=	SRL	R14,4	01233001
004FA6	41F0 0001		00001	7871=	LA	R15,1	01234001
004FAA	89F0 E000		00000	7872=	SLL	R15,0(R14)	01235001
004FAE	42F0 C397		04FB7	7873=	STC	R15,KEF21+1	01236001
004FB2	97FF C397	04FB7		7874=	XI	KEF21+1,X'FF'	01237001
004FB6	9400 DA47	00A47		7875=KEF21	NI	RIR+1,X'00'	01238001
004FBA	42E0 C3A9		04FC9	7876=	STC	R14,KEG21+1	01239001
004FBE	D600 C3A9	D5F8 04FC9	005F8	7877=	OC	KEG21+1(1),WORKPL	01240001
004FC4	4520 559E		005E6	7878=	BAL	R2,GENTXT2	01241001
004FC8	1800			7879=KEG21	LR	0,0	01242001
004FCA	1BEE			7880=KEH21	SR	R14,R14	01243001
004FCC	43E9 0008		00008	7881=	IC	R14,8(R9)	01244001
004FD0	88E0 0004		00004	7882=	SRL	R14,4	01245001
004FD4	41F0 0001		00001	7883=	LA	R15,1	01246001
004FD8	89F0 E000		00000	7884=	SLL	R15,0(R14)	01247001
004FDC	42F0 C3C1		04FE1	7885=	STC	R15,KEH2+1	01248001
004FE0	9600 DA47	00A47		7886=KEH2	OI	RIR+1,X'00'	01249001



Active USINGS: IEX50000+X'4C20',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
004FE4	42E0 DA43		00A43	7887=	STC	R14,CII+1	SET CII 01250001
004FE8	89E0 0002		00002	7888=	SLL	R14,2	01251001
004FEC	47F0 C36C		04F8C	7889=	B	KEG1	01252001
				7890=*			01253001
004FF0	D300 C3E7 9008 05007 00008			7891=KEF31	MVZ	KEG3+1(1),8(R9)	PREPARE INSTRUCTION 01254001
004FF6	D100 C3E7 DA72 05007 00A72			7892=	MVN	KEG3+1(1),VPLACE	01255001
004FFC	D201 C3E8 DA6A 05008 00A6A			7893=	MVC	KEG3+2(2),WPLACE	01256001
005002	4520 55A2		005EA	7894=	BAL	R2,GENTXT4	GENERATE 4 BYTES 01257001
005006	5800 0000		00000	7895=KEG3	L	0,0(0,0)	*** GENERATED CODE *** 01258001
00500A	47F0 C3AA		04FCA	7896=	B	KEH21	01259001
				7897=*			01260001
00500E	94FE DA49		00A49	7898=KEC2	NI	RIR+1,X'FE'	01261001
005012	4540 545E		004A6	7899=	BAL	R4,TRINRE	01262001
005016	47F0 C1EC		04E0C	7900=	B	KCE11	01263001
				7901=*			01264001
00501A	9110 9005		00005	7902=KBD21	TM	5(R9),APIMASK	BLO AN API ? 01265001
00501E	4710 C0A6		04CC6	7903=	BO	KBD2+6	YES, BRANCH 01266001
005022	47F0 C0A0		04CC0	7904=	B	KBD2	01267001
				7905=*			01268001
				7906=*****			01269001
				7907=*			01270001
				7908=*	COMPILER PROGRAM - CP80		01271001
				7909=*			01272001
				7910=*****			01273001
				7911=*			01274001
				7912=*	BEGIN OF CONDITIONAL EXPRESSION		01275001
				7913=*	CONTEXT EXPRESSION		01276001
				7914=*	SOURCE OPERATOR 'IF'		01277001
				7915=*	STACK OPERATOR (		01278001
				7916=*	OPERANDS NONE		01279001
				7917=*			01280001
		R:C 05026		7918=	USING CP80,R12		01281001
005026	9101 D080		00080	7919=CP80	TM	COMPFLGS,OPERAND	OPERAND ON ? 01282001
00502A	4780 C01E		05044	7920=	BZ	KIB2	NO, BRANCH 01283001
00502E	4540 5304		0034C	7921=	BAL	R4,SERR4	ERROR PATTERN ENTRY 01284001
005032	00A4			7922=	DC	H'164'	ERROR 164 01285001
				7923=*			01286001
005034	4190 9005		00005	7924=	LA	R9,5(,R9)	CLOPD 01287001
005038	4540 5E30		00E78	7925=KIF2	BAL	R4,MOVEOPTK	RESERVE OPERATOR STACK FNT 01288001
00503C	D200 A000 8000 00000 00000			7926=	MVC	0(1,R10),0(R8)	INSERT SOURCE INTO STACK 01289001
005042	07F5			7927=	BR	R5	BRANCH TO SUBSTART 01290001
				7928=*			01291001
005044	9180 D080		00080	7929=KIB2	TM	COMPFLGS,COMPmode	SYNTAX CHECK MODE ? 01292001
005048	4710 C012		05038	7930=	BO	KIF2	YES, BRANCH 01293001
00504C	4540 5706		0074E	7931=	BAL	R4,CLEARRG	CLEAR REGISTERS 01294001
005050	47F0 C012		05038	7932=	B	KIF2	BRANCH 01295001
				7933=*			01296001
				7934=*****			01297001
				7935=*			01298001
				7936=*	COMPILER PROGRAM - CP86		01299001
				7937=*			01300001
				7938=*****			01301001
				7939=*			01302001
				7940=*	ERRONEOUS CASE - WRONG CONDITIONAL EXPRESSION OR STATEMENT		01303001
				7941=*	CONTEXT EXPRESSION		01304001
				7942=*	SOURCE OPERATOR 'ELSE'		01305001
				7943=*	STACK OPERATOR 'IF','IFS'		01306001
				7944=*	OPERANDS NONE OR ONE		01307001
				7945=*			01308001
		R:C 05054		7946=	USING CP86,R12		01309001
005054	9101 D080		00080	7947=CP86	TM	COMPFLGS,OPERAND	OPERAND ON ? 01310001
005058	4780 C022		05076	7948=	BZ	KUB2	NO, BRANCH 01311001
00505C	4540 5304		0034C	7949=	BAL	R4,SERR4	ERROR PATTERN ENTRY 01312001
005060	00A1			7950=	DC	H'161'	ERROR 161 01313001
				7951=*			01314001
005062	951D A000		00000	7952=KUE1	CLI	0(R10),X'1D'	OPERATOR STACK 'IF' ? 01315001
005066	4770 C030		05084	7953=	BNE	KUE2	NO, BRANCH 01316001
00506A	D200 A000 8000 00000 00000			7954=	MVC	0(1,R10),0(R8)	INSERT SOURCE INTO STACK 01317001
005070	4540 5D02		00D4A	7955=	BAL	R4,STACKAPI	01318001
005074	07F5			7956=	BR	R5	BRANCH TO SUBSTART 01319001
				7957=*			01320001
005076	4540 5304		0034C	7958=KUB2	BAL	R4,SERR4	ERROR PATTERN ENTRY 01321001
00507A	00A0			7959=	DC	H'160'	ERROR 160 01322001
				7960=*			01323001
00507C	4890 5170		00188	7961=	SH	R9,KH5	RESERVE OPERAND STACK ENT 01324001
005080	47F0 C00E		05062	7962=	B	KUE1	01325001
				7963=*			01326001
005084	48B0 5180		001C8	7964=KUE2	SH	R11,KH614	CSW(PC) 01327001
005088	9227 A000		00000	7965=	MVI	0(R10),X'27'	INSERT THENS INTO STACK 01328001
00508C	07F5			7966=	BR	R5	BRANCH TO SUBSTART 01329001
				7967=*			01330001
				7968=*****			01331001
				7969=*			01332001
				7970=*	COMPILER PROGRAM - CP87		01333001
				7971=*			01334001
				7972=*****			01335001
				7973=*			01336001
				7974=*	FIRST ALTERNATIVE IN CONDITIONAL EXPRESSION		01337001
				7975=*	CONTEXT EXPRESSION		01338001
				7976=*	SOURCE OPERATOR 'ELSE'		01339001
				7977=*	STACK OPERATOR 'THEN'		01340001
				7978=*	OPERANDS ONE OPERAND AND ONE LABEL		01341001
				7979=*			01342001
		R:C 0508E		7980=	USING CP87,R12		01343001
00508E	4140 C0A6		05134	7981=CP87	LA	R4,KWJ3	LOAD RETURN ADDR 01344001
005092	4530 5F08		00F50	7982=	BAL	R3,OPDTEST	OPDT AND ERROR 162 01345001

Active USINGS: IEX50000+X'508E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005096	4540 5E9A		00EE2	7983=	BAL	R4,ARRTEST1	01346001
00509A	9180 D080	00080		7984=	TM	COMPLGGS,COMPmode	01347001
00509E	4710 C0A6		05134	7985=	BO	KWJ3	01348001
0050A2	4540 578A		007D2	7986=	BAL	R4,OPDREC	01349001
0050A6	9103 9001	00001		7987=	TM	1(R9),X'03'	01350001
0050AA	4710 C0B2		05140	7988=	BO	KWE1	01351001
0050AE	4740 C17E		0520C	7989=	BM	KXB1	01352001
0050B2	9108 9001	00001		7990=	TM	1(R9),X'08'	01353001
0050B6	4780 C096		05124	7991=	BZ	KYB2	01354001
0050BA	9104 9001	00001		7992=	TM	1(R9),X'04'	01355001
0050BE	4710 C096		05124	7993=	BO	KYB2	01356001
0050C2	9180 9003	00003		7994=	TM	3(R9),X'80'	01357001
0050C6	4710 C086		05114	7995=	BO	KWG13	01358001
0050CA	9101 DA46	00A46		7996=	TM	R11,X'01'	01359001
0050CE	4780 C048		050D6	7997=	BZ	KYF1	01360001
0050D2	4540 5B46		00B8E	7998=	BAL	R4,ROUTIN10	01361001
0050D6	D201 C090	9003 0511E	00003	7999=KYF1	MVC	KYF11+2(2),3(R9)	01362001
0050DC	1BFF			8000=	SR	R15,R15	01363001
0050DE	43F0 9002		00002	8001=	IC	R15,2(,R9)	01364001
0050E2	89F0 0003		00003	8002=	SLL	R15,3	01365001
0050E6	40F0 D5F8		005F8	8003=	STH	R15,WORKPL	01366001
0050EA	D201 C094	D5F8 05122		8004=	MVC	KYF12+2(2),WORKPL	01367001
0050F0	4120 C08E		0511C	8005=	LA	R2,KYF11	01368001
0050F4	45E0 5588		005D0	8006=	BAL	R14,GENTXTS	01369001
0050F8	0008			8007=	DC	H'8'	01370001
				8008=*			01371001
0050FA	4A70 DA56		00A56	8009=	AH	R7,ONEENTRY	01372001
0050FE	4070 D5F8		005F8	8010=	STH	R7,WORKPL	01373001
005102	D201 9003	D5F8 00003	005F8	8011=	MVC	3(2,R9),WORKPL	01374001
005108	9680 9003	00003		8012=	OI	3(R9),X'80'	01375001
00510C	940F 9000	00000		8013=	NI	0(R9),X'0F'	01376001
005110	96A0 9000	00000		8014=	OI	0(R9),X'A0'	01377001
005114	9200 DA46	00A46		8015=KWG13	MVI	R11,X'00'	01378001
005118	47F0 C0C2		05150	8016=	B	KWG12	01379001
				8017=*			01380001
00511C	588C 0000		00000	8018=KYF11	L	ADR,0(LAT,0)	01381001
005120	589B 0000		00000	8019=KYF12	L	GDSA,0(PBT,0)	01382001
				8020=*			01383001
005124	4540 5380		003C8	8021=KYB2	BAL	R4,SERR1	01384001
005128	00B2			8022=	DC	H'178'	01385001
				8023=*			01386001
00512A	D204 9000	5182 00000	001CA	8024=	MVC	0(5,R9),API	01387001
005130	47F0 C0A6		05134	8025=	B	KWJ3	01388001
				8026=*			01389001
005134	D200 A000	8000 00000	00000	8027=KWJ3	MVC	0(1,R10),0(R8)	01390001
00513A	92FF DA61	00A61		8028=	MVI	GPBN+1,X'FF'	01391001
00513E	07F5			8029=	BR	R5	01392001
				8030=*			01393001
005140	9120 9000	00000		8031=KWE1	TM	0(R9),X'20'	01394001
005144	4710 C172		05200	8032=	BO	KWE3	01395001
005148	9180 9000	00000		8033=	TM	0(R9),X'80'	01396001
00514C	4710 C0F6		05184	8034=	BO	KWF2	01397001
005150	4B70 DA56		00A56	8035=KWG12	SH	R7,ONEENTRY	01398001
005154	4540 5E70		00EB8	8036=KWG1	BAL	R4,LATRES	01399001
005158	D201 C0D6	D0A2 05164	000A2	8037=	MVC	KWH1+2(2),LN	01400001
00515E	4520 55A6		005EE	8038=	BAL	R2,GENTXT6	01401001
005162	58FC 0000	00000		8039=KWH1	L	BRR,0(LAT,0)	01402001
005166	07FF			8040=	BR	BRR	01403001
005168	D201 D5F8	9008 005F8	00008	8041=	MVC	WORKPL(2),8(R9)	01404001
00516E	48F0 D5F8		005F8	8042=	LH	R15,WORKPL	01405001
005172	58E0 D61C		0061C	8043=	L	R14,LATAB	01406001
005176	506F E000		00000	8044=	ST	R6,0(R15,R14)	01407001
00517A	D201 9008	D0A2 00008	000A2	8045=	MVC	8(2,R9),LN	01408001
005180	47F0 C0A6		05134	8046=	B	KWJ3	01409001
				8047=*			01410001
005184	91FF 9002	00002		8048=KWF2	TM	2(R9),X'FF'	01411001
005188	4780 C142		051D0	8049=	BZ	KWF21	01412001
00518C	4540 593C		00984	8050=	BAL	R4,ROUTINE1	01413001
005190	4A70 DA56		00A56	8051=KWG2	AH	R7,ONEENTRY	01414001
005194	4070 D5F8		005F8	8052=	STH	R7,WORKPL	01415001
005198	4540 58BA		00902	8053=	BAL	R4,MAXCH	01416001
00519C	D201 C12A	D5F8 05188	005F8	8054=	MVC	KWH2+2(2),WORKPL	01417001
0051A2	96A0 C12A	05188		8055=	OI	KWH2+2,X'A0'	01418001
0051A6	D201 C12C	DA6A 051BA	00A6A	8056=	MVC	KWH2+4(2),WPLACE	01419001
0051AC	D300 C12C	DA72 051BA	00A72	8057=	MVZ	KWH2+4(1),VPLACE	01420001
0051B2	4520 55A6		005EE	8058=	BAL	R2,GENTXT6	01421001
0051B6	D200 A000	00000 00000	00000	8059=KWH2	MVC	0(1,CDSA),0(0)	01422001
0051BC	D201 9003	D5F8 00003	005F8	8060=KWF23	MVC	3(2,R9),WORKPL	01423001
0051C2	945F 9000	00000		8061=	NI	0(R9),X'5F'	01424001
0051C6	D200 9002	DA5D 00002	00A5D	8062=	MVC	2(1,R9),SPBNST+1	01425001
0051CC	47F0 C0C2		05150	8063=	B	KWG12	01426001
				8064=*			01427001
0051D0	4A70 DA56		00A56	8065=KWF21	AH	R7,ONEENTRY	01428001
0051D4	4070 D5F8		005F8	8066=	STH	R7,WORKPL	01429001
0051D8	4540 58BA		00902	8067=	BAL	R4,MAXCH	01430001
0051DC	9401 9004	00004		8068=	NI	4(R9),X'01'	01431001
0051E0	D201 C168	D5F8 051F6	005F8	8069=	MVC	KWF22+2(2),WORKPL	01432001
0051E6	96A0 C168	051F6		8070=	OI	KWF22+2,X'A0'	01433001
0051EA	D200 C167	9004 051F5	00004	8071=	MVC	KWF22+1(1),4(R9)	01434001
0051F0	4520 55A2		005EA	8072=	BAL	R2,GENTXT4	01435001
0051F4	9200 A000	00000		8073=KWF22	MVI	0(CDSA),X'00'	01436001
0051F8	9630 9001	00001		8074=	OI	1(R9),X'30'	01437001
0051FC	47F0 C12E		051BC	8075=	B	KWF23	01438001
				8076=*			01439001
005200	4540 59F2		00A3A	8077=KWE3	BAL	R4,ROUTINE3	01440001
005204	9760 9000	00000		8078=	XI	0(R9),X'60'	01441001

Active USINGS: IEX50000+X'508E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005208	47F0 C102		05190	8079=	B	KWG2	01442001
				8080=*			01443001
00520C	9102 9001	00001		8081=KXB1	TM	1(R9),X'02'	01444001
005210	4780 C1D0		0525E	8082=	BZ	KXB3	01445001
005214	9120 9000	00000		8083=	TM	0(R9),X'20'	01446001
005218	4710 C1A2		05230	8084=	BO	KXC2	01447001
00521C	9140 9000	00000		8085=	TM	0(R9),X'40'	01448001
005220	4780 C1BA		05248	8086=	BZ	KXH22	01449001
005224	9180 9000	00000		8087=	TM	0(R9),X'80'	01450001
005228	4710 C1A2		05230	8088=	BO	KXC2	01451001
00522C	4B70 DA56		00A56	8089=	SH	R7,ONEENTRY	01452001
005230	4540 5BBE		00C06	8090=KXC2	BAL	R4,ROUTIN11	01453001
005234	4B90 5170		001B8	8091=	SH	R9,KH5	01454001
005238	9120 9005	00005		8092=	TM	5(R9),X'20'	01455001
00523C	4780 C1C8		05256	8093=	BZ	KXG2	01456001
005240	4540 5996		009DE	8094=	BAL	R4,ROUTINE2	01457001
005244	4190 9005		00005	8095=KXH2	LA	R9,5(,R9)	01458001
005248	4540 5C08		00C50	8096=KXH22	BAL	R4,ROUTIN12	01459001
00524C	D200 9005	9003 00005	00003	8097=KWG11	MVC	5(1,R9),3(R9)	01460001
005252	47F0 C0C6		05154	8098=	B	KWG1	01461001
				8099=*			01462001
005256	4540 5A50		00A98	8100=KXG2	BAL	R4,ROUTINE4	01463001
00525A	47F0 C1B6		05244	8101=	B	KXH2	01464001
				8102=*			01465001
00525E	9120 9000	00000		8103=KXB3	TM	0(R9),X'20'	01466001
005262	4710 C1EC		0527A	8104=	BO	KXC4	01467001
005266	9140 9000	00000		8105=	TM	0(R9),X'40'	01468001
00526A	4780 C204		05292	8106=	BZ	KXH21	01469001
00526E	9180 9000	00000		8107=	TM	0(R9),X'80'	01470001
005272	4710 C1EC		0527A	8108=	BO	KXC4	01471001
005276	4B70 DA56		00A56	8109=	SH	R7,ONEENTRY	01472001
00527A	4540 5AB0		00AF8	8110=KXC4	BAL	R4,ROUTINE7	01473001
00527E	4B90 5170		001B8	8111=	SH	R9,KH5	01474001
005282	9120 9005	00005		8112=	TM	5(R9),X'20'	01475001
005286	4780 C20C		0529A	8113=	BZ	KXG4	01476001
00528A	4540 5AA0		00AE8	8114=	BAL	R4,ROUTINE6	01477001
00528E	4190 9005		00005	8115=KXH23	LA	R9,5(,R9)	01478001
005292	4540 5AF2		00B3A	8116=KXH21	BAL	R4,ROUTINE8	01479001
005296	47F0 C1BE		0524C	8117=	B	KWG11	01480001
				8118=*			01481001
00529A	4540 5A64		00AAC	8119=KXG4	BAL	R4,ROUTINE5	01482001
00529E	47F0 C200		0528E	8120=	B	KXH23	01483001
				8121=*			01484001
				8122=*****			01485001
				8123=*			01486001
				8124=*	END OF IEX50005		01487001
				8125=*			01488001
				8126=*****			01489001
				8127=*			01490001
				8128	COPY IEX50006	IEX50006	01936001

Active USINGS: IEX50000+X'508E',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				8130=*		00002001
				8131=*****		00003001
				8132=*		00004001
				8133=*	COMPILER PROGRAM - CP69	00005001
				8134=*		00006001
				8135=*****		00007001
				8136=*		00008001
				8137=*	ARITHMETIC AND RELATIONAL OPERATIONS	00009001
				8138=*	CONTEXT EXPRESSION	00010001
				8139=*	SOURCE OPERATOR SEE EXPRESSION CONTEXT MATRIX	00011001
				8140=*	STACK OPERATOR SEE EXPRESSION CONTEXT MATRIX	00012001
				8141=*	OPERANDS TWO OPERANDS	00013001
				8142=*		00014001
		R:C 052A2		8143=	USING CP69,R12	00015001
0052A2	9101 D080	00080		8144=CP69	TM COMPFILGS, OPERAND	00016001
0052A6	4780 C478		0571A	8145=	BZ GNB2	00017001
0052AA	4540 5EE4		00F2C	8146=	BAL R4, ARRTST2	00018001
0052AE	9103 9001	00001		8147=	TM 1(R9),X'03'	00019001
0052B2	4780 C48C		0572E	8148=	BNM GND2	00020001
0052B6	9103 9006	00006		8149=	TM 6(R9),X'03'	00021001
0052BA	4780 C4A6		05748	8150=	BNM GND22	00022001
0052BE	91C0 D080	00080		8151=	TM COMPFILGS, COMPMODE+SUBSCOPT	00023001
0052C2	4770 C4BE		05760	8152=	BNZ GOE11	00024001
0052C6	4540 578A		007D2	8153=	BAL R4, OPDREC	00025001
0052CA	4190 9005		00005	8154=	LA R9,5(,R9)	00026001
0052CE	4540 578A		007D2	8155=	BAL R4, OPDREC	00027001
0052D2	4890 5170		001B8	8156=	SH R9, KH5	00028001
0052D6	9102 9001	00001		8157=	TM 1(R9),X'02'	00029001
0052DA	4780 C5D8		0587A	8158=	BZ GOB3	00030001
0052DE	9102 9006	00006		8159=	TM 6(R9),X'02'	00031001
0052E2	4780 CC7C		05F1E	8160=	BZ HQB1	00032001
0052E6	9505 A000	00000		8161=HEB1	CLI 0(R10), XFPOWER	00033001
0052EA	4780 CE32		060D4	8162=	BE HOB1	00034001
0052EE	9120 9005	00005		8163=DHEB2	TM 5(R9),X'20'	00035001
0052F2	4710 C0A0		05342	8164=	BO HFB1	00036001
0052F6	9140 9005	00005		8165=	TM 5(R9),X'40'	00037001
0052FA	4710 C094		05336	8166=	BO HEC3	00038001
0052FE	D300 DA70	9008 00A70	00008	8167=HEE31	MVZ UPLACE(1),8(R9)	00039001
005304	4190 9005		00005	8168=	LA R9,5(,R9)	00040001
005308	4540 C0F8		0539A	8169=	BAL R4, CLFPR	00041001
00530C	4890 5170		001B8	8170=	SH R9, KH5	00042001
005310	9510 A000	00000		8171=	CLI 0(R10),X'10'	00043001
005314	4740 C07A		0531C	8172=	BL HEF2	00044001
005318	4870 DA56		00A56	8173=	SH R7, ONEENTRY	00045001
00531C	4140 C51C		057BE	8174=HEF2	LA R4, HLD1	00046001
005320	4530 5CB4		00CFC	8175=	BAL R3, ROUTIN15	00047001
005324	D100 DA70	DA72 00A70	00A72	8176=	MVN UPLACE(1),VPLACE	00048001
00532A	4540 C0F8		0539A	8177=	BAL R4, CLFPR	00049001
00532E	4540 5C08		00C50	8178=	BAL R4, ROUTIN12	00050001
005332	47F0 C32C		055CE	8179=	B HKD1	00051001
				8180=*		00052001
005336	9180 9005	00005		8181=HEC3	TM 5(R9),X'80'	00053001
00533A	4710 C0A0		05342	8182=	BO HFB1	00054001
00533E	4870 DA56		00A56	8183=	SH R7, ONEENTRY	00055001
005342	9120 9000	00000		8184=HFB1	TM 0(R9),X'20'	00056001
005346	4710 C1B6		05458	8185=	BO HGD1	00057001
00534A	9140 9000	00000		8186=	TM 0(R9),X'40'	00058001
00534E	4710 C1AA		0544C	8187=	BO HGB1	00059001
005352	9503 A000	00000		8188=	CLI 0(R10), XFSLASH	00060001
005356	4770 C14E		053F0	8189=	BNE HFD2	00061001
00535A	910F DA49	00A49		8190=	TM RIR+1,X'0F'	00062001
00535E	4710 C120		053C2	8191=	BO HFB11	00063001
005362	4540 5BBE		00C06	8192=	BAL R4, ROUTIN11	00064001
005366	4870 DA56		00A56	8193=	SH R7, ONEENTRY	00065001
00536A	4540 C0F8		0539A	8194=	BAL R4, CLFPR	00066001
00536E	8930 0001		00001	8195=	SLL R3,1	00067001
005372	89E0 0004		00004	8196=	SLL R14,4	00068001
005376	163E			8197=	OR R3, R14	00069001
005378	88E0 0004		00004	8198=	SRL R14,4	00070001
00537C	4230 C0F3		05395	8199=	STC R3, HFB12+1	00071001
005380	4230 DA70		00A70	8200=	STC R3, UPLACE	00072001
005384	9120 9005	00005		8201=	TM 5(R9),X'20'	00073001
005388	4710 C118		053BA	8202=	BO HFB13	00074001
00538C	4540 5A50		00A98	8203=	BAL R4, ROUTINE4	00075001
005390	4520 5598		005E0	8204=HFB14	BAL R2, GENTXTP2	00076001
005394	2D00			8205=HFB12	DDR 0,0	00077001
005396	47F0 C4E6		05788	8206=	B GOE2	00078001
				8207=*		00079001
00539A	1B33			8208=CLFPR	SR R3,R3	00080001
00539C	4339 0003		00003	8209=	IC R3,3(R9)	00081001
0053A0	8830 0005		00005	8210=	SRL R3,5	00082001
0053A4	41F0 0001		00001	8211=	LA R15,1	00083001
0053A8	89F0 3000		00000	8212=	SLL R15,0(R3)	00084001
0053AC	42F0 C113		053B5	8213=	STC R15, HEE3+1	00085001
0053B0	97FF C113	053B5		8214=	XI HEE3+1,X'FF'	00086001
0053BA	9400 DA49	00A49		8215=HEE3	NI RIR+1,X'00'	00087001
0053BE	07F4			8216=	BR R4	00088001
				8217=*		00089001
0053BA	4540 5996		009DE	8218=HFB13	BAL R4, ROUTINE2	00090001
0053BE	47F0 C0EE		05390	8219=	B HFB14	00091001
				8220=*		00092001
0053C2	1BEE			8221=HFB11	SR R14,R14	00093001
0053C4	43E9 0003		00003	8222=	IC R14,3(R9)	00094001
0053C8	42E0 DA70		00A70	8223=	STC R14, UPLACE	00095001
0053CC	88E0 0004		00004	8224=	SRL R14,4	00096001
0053D0	4540 5C66		00CAE	8225=	BAL R4, ROUTIN13	00097001

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17	13.13
0053D4	9120 9005	00005		8226=	TM	5(R9),X'20'	BLO A VALUE ?	00098001	
0053D8	4710 C146		053E8	8227=	BO	HFF2	AN ADDR, BRANCH	00099001	
0053DC	4540 5A50		00A98	8228=	BAL	R4,ROUTINE4	CALL ROUTINE NUMBER 4	00100001	
0053E0	4540 593C		00984	8229=HFG2	BAL	R4,ROUTINE1	CALL ROUTINE NUMBER 1	00101001	
0053EA	47F0 C51C		057BE	8230=	B	HLD1		00102001	
				8231=*				00103001	
0053E8	4540 5996		009DE	8232=HFF2	BAL	R4,ROUTINE2	CALL ROUTINE NUMBER 2	00104001	
0053EC	47F0 C13E		053E0	8233=	B	HFG2		00105001	
				8234=*				00106001	
0053F0	D300 DA70 9003	00A70	00003	8235=HFD2	MVZ	UPLAC(1),3(R9)	V=R(LO)	00107001	
0053F6	9516 A000	00000		8236=	CLI	0(R10),XFASSIGN	OPT .= ?	00108001	
0053FA	4770 C170		05412	8237=	BNE	HFD3	NO, BRANCH	00109001	
0053FE	4540 5C08		00C50	8238=	BAL	R4,ROUTINE12	CALL ROUTINE NUMBER 12	00110001	
005402	4190 9005		00005	8239=	LA	R9,5(,R9)	INCREASE R9	00111001	
005406	4540 5CB4		00CFC	8240=	BAL	R4,ROUTINE15	CALL ROUTINE NUMBER 15	00112001	
00540A	4B90 5170		001B8	8241=HFC51	SH	R9,KH5	DECREASE R9	00113001	
00540E	47F0 C51C		057BE	8242=	B	HLD1		00114001	
				8243=*				00115001	
005412	D204 D5F6 9000	005F6	00000	8244=HFD3	MVC	KONSUM(5),0(R9)		00116001	
005418	D204 9000 9005	00000	00005	8245=	MVC	0(5,R9),5(R9)		00117001	
00541E	D204 9005 D5F6	00005	005F6	8246=	MVC	5(5,R9),KONSUM		00118001	
005424	9110 A000	00000		8247=	TM	0(R10),X'10'	OPT ARITHMETIC ?	00119001	
005428	4710 C1A2		05444	8248=	BO	HFE4	RELATIONAL, BRANCH	00120001	
00542C	92FF 518E	001D6		8249=HFB3	MVI	SWREL,X'FF'	SWREL=FF	00121001	
005430	9120 9000	00000		8250=HGG11	TM	0(R9),X'20'	LO A VALUE ?	00122001	
005434	4140 C51C		057BE	8251=	LA	R4,HLD1		00123001	
005438	4710 C19E		05440	8252=	BO	HFJ3	AN ADDR, BRANCH	00124001	
00543C	47F0 593C		00984	8253=	B	ROUTINE1		00125001	
				8254=*				00126001	
005440	47F0 59F2		00A3A	8255=HFJ3	B	ROUTINE3		00127001	
				8256=*				00128001	
005444	4540 5C08		00C50	8257=HFE4	BAL	R4,ROUTINE12	CALL ROUTINE NUMBER 12	00129001	
005448	47F0 C18A		0542C	8258=	B	HFH3		00130001	
				8259=*				00131001	
00544C	9180 9000	00000		8260=HGB1	TM	0(R9),X'80'	LO IN A REGISTER ?	00132001	
005450	4710 C1B6		05458	8261=	BO	HGD1	NO, BRANCH	00133001	
005454	4B70 DA56		00A56	8262=	SH	R7,ONEENTRY		00134001	
005458	9516 A000	00000		8263=HGD1	CLI	0(R10),XFASSIGN	OPT .= ?	00135001	
00545C	4780 C1EE		05490	8264=	BE	HGD2	YES, BRANCH	00136001	
005460	4540 5BBE		00C06	8265=	BAL	R4,ROUTINE11	CALL ROUTINE NUMBER 11	00137001	
005464	9120 9005	00005		8266=	TM	5(R9),X'20'	IS BLO A VALUE	00138001	
005468	4780 C1E6		05488	8267=	BZ	HGG1	YES, BRANCH	00139001	
00546C	4540 5996		009DE	8268=	BAL	R4,ROUTINE2	CALL ROUTINE NUMBER 2	00140001	
005470	89E0 0004		00004	8269=HGH1	SLL	R14,4	1=R(BLO)	00141001	
005474	42E0 DA70		00A70	8270=	STC	R14,UPLAC		00142001	
005478	9510 A000	00000		8271=	CLI	0(R10),X'10'	OPT ARITHMETIC ?	00143001	
00547C	4740 C18E		05430	8272=	BL	HGG11	YES, BRANCH	00144001	
005480	4540 5C08		00C50	8273=	BAL	R4,ROUTINE12	CALL ROUTINE NUMBER 12	00145001	
005484	47F0 C18E		05430	8274=	B	HGG11		00146001	
				8275=*				00147001	
005488	4540 5A50		00A98	8276=HGG1	BAL	R4,ROUTINE4	ROUTINE NR.4	00148001	
00548C	47F0 C1CE		05470	8277=	B	HGH1		00149001	
				8278=*				00150001	
005490	9120 9005	00005		8279=HGD2	TM	5(R9),X'20'	BLO A VALUE ?	00151001	
005494	4710 C2A8		0554A	8280=	BO	HJB1	AN ADDR, BRANCH	00152001	
005498	9120 9000	00000		8281=	TM	0(R9),X'20'	LO A VALUE ?	00153001	
00549C	4710 C27C		0551E	8282=	BO	HGB2	AN ADDR, BRANCH	00154001	
0054A0	4540 593C		00984	8283=	BAL	R4,ROUTINE1	CALL ROUTINE NUMBER 1	00155001	
0054A4	D201 C300 9008	055A2	00008	8284=	MVC	HJH11+2(2),8(R9)	PREPARE INSTRUCTION	00156001	
0054AA	D500 DA5D 9007	00A5D	00007	8285=	CLC	SPBNST+1(1),7(R9)	DSA OF BLO CDSA ?	00157001	
0054B0	4770 C21A		054BC	8286=	BNE	HGB4	NO, BRANCH	00158001	
0054B4	96A0 C300	055A2		8287=	OI	HJH11+2,X'A0'	PREPARE INSTRUCTION	00159001	
0054B8	47F0 C2CC		0556E	8288=	B	HJH1		00160001	
				8289=*				00161001	
0054BC	95FF DA61	00A61		8290=HGB4	CLI	GPBN+1,X'FF'	GDSA DESTROYED ?	00162001	
0054C0	4780 C234		054D6	8291=	BE	HGB41	YES, BRANCH	00163001	
0054C4	D500 DA60 9007	00A60	00007	8292=	CLC	GPBN(1),7(R9)	DSA OF BLO IN GPBN ?	00164001	
0054CA	4770 C238		054DA	8293=	ONE	HGB5	NO, BRANCH	00165001	
0054CE	9690 C300	055A2		8294=HGC4	OI	HJH11+2,X'90'	PREPARE INSTRUCTION	00166001	
0054D2	47F0 C2CC		0556E	8295=	B	HJH1		00167001	
				8296=*				00168001	
0054D6	9200 DA61	00A61		8297=HGB41	MVI	GPBN+1,0	SFT TO ZERO	00169001	
0054DA	1B11			8298=HGB5	SR	R1,R1	PREPARE INSTRUCTION	00170001	
0054DC	4319 0007		00007	8299=	IC	R1,7(R9)		00171001	
0054E0	8910 0003		00003	8300=	SLL	R1,3		00172001	
0054E4	4010 D5F8		005F8	8301=	STH	R1,WORKPL		00173001	
0054E8	9599 DA72	00A72		8302=	CLI	VPLAC,X'99'	DSA OF LO IN GDSA ?	00174001	
0054EC	4780 C266		05508	8303=	BE	HGE5	YES, BRANCH	00175001	
0054F0	D201 C25A D5F8	054FC	005F8	8304=	MVC	HGA5+2(2),WORKPL		00176001	
0054F6	4520 55A2		005EA	8305=	BAL	R2,GENTXT4	GENERATE 4 BYTES	00177001	
0054FA	589B 0000		00000	8306=HGA5	L	GDSA,0(PBT,0)	*** GENERATED CODE ***	00178001	
0054FE	D200 DA60 9007	00A60	00007	8307=	MVC	GPBN(1),7(R9)	STORE NEW GDSA	00179001	
005504	47F0 C22C		054CE	8308=	B	HGC4		00180001	
				8309=*				00181001	
005508	D201 C272 D5F8	05514	005F8	8310=HGE5	MVC	HGF5+2(2),WORKPL		00182001	
00550E	4520 55A2		005EA	8311=	BAL	R2,GENTXT4	GENERATE 4 BYTES	00183001	
005512	58EB 0000		00000	8312=HGF5	L	R14,0(PBT,0)	*** GENERATED CODE ***	00184001	
005516	96E0 C300	055A2		8313=	OI	HJH11+2,X'E0'	PREPARE INSTRUCTION	00185001	
00551A	47F0 C2CC		0556E	8314=	B	HJH1		00186001	
				8315=*				00187001	
00551E	4540 59F2		00A3A	8316=HGB2	BAL	R4,ROUTINE3	CALL ROUTINE NUMBER 3	00188001	
005522	D201 C302 DA6A	055A4	00A6A	8317=	MVC	HJH11+4(2),WPLAC		00189001	
005528	D300 C302 DA72	055A4	00A72	8318=	MVZ	HJH11+4(1),VPLAC		00190001	
00552E	4190 9005		00005	8319=	LA	R9,5(0,R9)	INCREASE R9	00191001	
005532	4540 593C		00984	8320=	BAL	R4,ROUTINE1	CALL ROUTINE NUMBER 1	00192001	
005536	4B90 5170		001B8	8321=	SH	R9,KH5	DECREASE R9	00193001	



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Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00553A	D201 C300	DA6A 055A2	00A6A	8322=	MVC	HJH11+2(2),WPLACE	00194001
005540	D300 C300	DA72 055A2	00A72	8323=	MVZ	HJH11+2(1),VPLACE	00195001
005546	47F0 C2D8		0557A	8324=	B	HJH111	00196001
				8325=*			00197001
00554A	4190 9005		00005	8326=HJB1	LA	R9,5(0,R9)	00198001
00554E	4540 59F2		00A3A	8327=	BAL	R4,ROUTINE3	00199001
005552	D201 C300	DA6A 055A2	00A6A	8328=	MVC	HJH11+2(2),WPLACE	00200001
005558	D300 C300	DA72 055A2	00A72	8329=	MVZ	HJH11+2(1),VPLACE	00201001
00555E	4890 5170		001B8	8330=	SH	R9,KH5	00202001
005562	9120 9000	00000		8331=	TM	0(R9),X'20'	00203001
005566	4710 C316		055B8	8332=	BO	HJC1	00204001
00556A	4540 593C		00984	8333=	BAL	R4,ROUTINE1	00205001
00556E	D201 C302	DA6A 055A4	00A6A	8334=HJH1	MVC	HJH11+4(2),WPLACE	00206001
005574	D300 C302	DA72 055A4	00A72	8335=	MVZ	HJH11+4(1),VPLACE	00207001
00557A	9200 C2FF	055A1		8336=HJH111	MVI	HJH11+1,0	00208001
00557E	9103 9001	00001		8337=	TM	1(R9),X'03'	00209001
005582	4710 C2FA		0559C	8338=	BO	HJH13	00210001
005586	9203 C2FF	055A1		8339=	MVI	HJH11+1,X'03'	00211001
00558A	9101 9001	00001		8340=	TM	1(R9),X'01'	00212001
00558E	4710 C2FA		0559C	8341=	BO	HJH13	00213001
005592	48E0 DA56		00A56	8342=	LH	R14,ONEENTRY	00214001
005596	06E0			8343=	BCTR	R14,0	00215001
005598	42E0 C2FF		055A1	8344=	STC	R14,HJH11+1	00216001
00559C	4520 55A6		005EE	8345=HJH13	BAL	R2,GENTXT6	00217001
0055A0	D207 0000	0000 00000		8346=HJH11	MVC	0(8,0),0(0)	00218001
0055A6	5810 C312		055B4	8347=HLE21	L	R1,ABIG2	00219001
0055AA	9200 518E	001D6		8348=	MVI	SWREL,X'00'	00220001
0055AE	58C0 51F4		0023C	8349=	L	R12,SCPTAB+4*20	00221001
0055B2	07F1			8350=	BR	R1	00222001
				8351=*			00223001
0055B4	000033EC			8352=ABIG2	DC	A(BIG2)	00224001
				8353=*			00225001
0055B8	D201 C322	9003 055C4	00003	8354=HJC1	MVC	HJC11+2(2),3(R9)	00226001
0055BE	4520 55A2		005EA	8355=	BAL	R2,GENTXT4	00227001
0055C2	58EA 0000		00000	8356=HJC11	L	R14,0(CDSA,0)	00228001
0055C6	92E0 DA72	00A72		8357=	MVI	VPLACE,X'E0'	00229001
0055CA	47F0 C2CC		0556E	8358=	B	HJH1	00230001
				8359=*			00231001
0055CE	D200 C38D	DA70 0562F	00A70	8360=HKD1	MVC	HKH4+1(1),UPLACE	00232001
0055D4	922A C38C		0562E	8361=	MVI	HKH4,X'2A'	00233001
0055D8	9501 A000	00000		8362=	CLI	0(R10),XFMINUS	00234001
0055DC	4740 C388		0562A	8363=	BL	HKH41	00235001
0055E0	4780 C41C		056BE	8364=	BE	HKF2	00236001
0055E4	922C C38C	0562E		8365=	MVI	HKH4,X'2C'	00237001
0055E8	9503 A000	00000		8366=	CLI	0(R10),XFSLASH	00238001
0055EC	4740 C388		0562A	8367=	BL	HKH41	00239001
0055F0	4780 C414		056BE	8368=	BE	HKD2	00240001
0055F4	9110 A000	00000		8369=	TM	0(R10),X'10'	00241001
0055F8	4710 C384		0562E	8370=	BO	HKA2	00242001
0055FC	9504 A000	00000		8371=HKG22	CLI	0(R10),X'04'	00243001
005600	4780 C58E		05830	8372=	BE	G0E112	00244001
005604	4540 5310		00358	8373=HKG2	BAL	R4,SEERR2	00245001
005608	00C2			8374=	DC	H'194'	00246001
				8375=*			00247001
00560A	4190 9005		00005	8376=G0E1	LA	R9,5(,R9)	00248001
00560E	4070 D5F8		005F8	8377=G0EZ	STH	R7,WORKPL	00249001
005612	D100 9003	D5F8 00003	005F8	8378=	MVN	3(1,R9),WORKPL	00250001
005618	D200 9004	D5F9 00004	005F9	8379=	MVC	4(1,R9),WORKPL+1	00251001
00561E	9608 9000	00000		8380=	OI	0(R9),X'08'	00252001
005622	46A0 50B0		000A8	8381=G0F1	BCT	R10,COMP	00253001
005626	9229 C38C	0562E		8382=HKA2	MVI	HKH4,X'29'	00254001
00562A	4520 5598		005E0	8383=HKH41	BAL	R2,GENTXT2	00255001
00562E	2A00			8384=HKH4	ADR	0,0	00256001
005630	9510 A000	00000		8385=	CLI	0(R10),XFEQUAL	00257001
005634	4740 C4E6		05788	8386=	BL	G0E2	00258001
005638	4A70 DA56		00A56	8387=IMB1	AH	R7,ONEENTRY	00259001
00563C	4070 D5F8		005F8	8388=	STH	R7,WORKPL	00260001
005640	4540 58BA		00902	8389=	BAL	R4,MAXCH	00261001
005644	D201 9008	D5F8 00008	005F8	8390=	MVC	8(2,R9),WORKPL	00262001
00564A	D201 C408	D5F8 056AA	005F8	8391=	MVC	IMD2+2(2),WORKPL	00263001
005650	96A0 C408		056AA	8392=	OI	IMD2+2,X'A0'	00264001
005654	940F C40D		056AF	8393=	NI	IMH4+1,X'0F'	00265001
005658	91FF 518E	001D6		8394=	TM	SWREL,X'FF'	00266001
00565C	4710 C44C		056EE	8395=	BO	INE2	00267001
005660	9511 A000	00000		8396=	CLI	0(R10),XFLT	00268001
005664	4740 C434		056D6	8397=	BL	IME4	00269001
005668	4780 C43C		056DE	8398=	BE	IMG4	00270001
00566C	9513 A000	00000		8399=	CLI	0(R10),X'13'	00271001
005670	4780 C444		056E6	8400=	BE	IMH41	00272001
005674	4740 C424		056C6	8401=	BL	IMC4	00273001
005678	9515 A000	00000		8402=	CLI	0(R10),X'15'	00274001
00567C	4780 C42C		056CE	8403=	BE	IMD4	00275001
005680	4720 C362		05604	8404=	BH	HKG2	00276001
005684	96D0 C40D	056AF		8405=IMF4	OI	IMH4+1,X'D0'	00277001
005688	D201 C412	C408 056B4	056AA	8406=IMH51	MVC	IMH5+2(2),IMD2+2	00278001
00568E	4120 C406		056A8	8407=	LA	R2,IMD2	00279001
005692	45E0 5588		005D0	8408=	BAL	R14,GENTXTS	00280001
005696	000E			8409=	DC	H'14'	00281001
005698	9603 9006	00006		8410=	OI	6(R9),X'03'	00282001
00569C	9640 9005	00005		8411=	OI	5(R9),X'40'	00283001
0056A0	945F 9005	00005		8412=	NI	5(R9),X'5F'	00284001
0056A4	47F0 C368		0560A	8413=	B	G0E1	00285001
				8414=*			00286001
0056A8	9201 A000	00000		8415=IMD2	MVI	0(CDSA),X'01'	00287001
0056AC	05F0			8416=	BALR	BRR,0	00288001
0056AE	4700 F008		00008	8417=IMH4	NOP	8(0,BRR)	00289001

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Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0056B2	9200 A000	00000		8418=IMH5	MVI	0(CDSA),X'00'	*** GENERATED CODE *** 00290001
0056B6	922D C38C	0562E		8419=HKD2	MVI	HKH4,X'2D'	00291001
0056BA	47F0 C388		0562A	8420=	B	HKH41	00292001
				8421=*			00293001
0056BE	922B C38C	0562E		8422=HKF2	MVI	HKH4,X'2B'	00294001
0056C2	47F0 C388		0562A	8423=	B	HKH41	00295001
				8424=*			00296001
0056C6	9620 C40D	056AF		8425=IMC4	OI	IMH4+1,X'20'	SET BRANCH CONDITION IN GEN INST 00297001
0056CA	47F0 C3E6		05688	8426=	B	IMH51	00298001
				8427=*			00299001
0056CE	96B0 C40D	056AF		8428=IMD4	OI	IMH4+1,X'80'	SET BRANCH CONDITION IN GEN INST 00300001
0056D2	47F0 C3E6		05688	8429=	B	IMH51	00301001
				8430=*			00302001
0056D6	96B0 C40D	056AF		8431=IME4	OI	IMH4+1,X'80'	SET BRANCH CONDITION IN GEN INST 00303001
0056DA	47F0 C3E6		05688	8432=	B	IMH51	00304001
				8433=*			00305001
0056DE	9640 C40D	056AF		8434=IMG4	OI	IMH4+1,X'40'	SET BRANCH CONDITION IN GEN INST 00306001
0056E2	47F0 C3E6		05688	8435=	B	IMH51	00307001
				8436=*			00308001
0056E6	9670 C40D	056AF		8437=IMH41	OI	IMH4+1,X'70'	SET BRANCH CONDITION IN GEN INST 00309001
0056EA	47F0 C3E6		05688	8438=	B	IMH51	00310001
				8439=*			00311001
0056EE	9200 518E	001D6		8440=INE2	MVI	SWREL,0	ZERO SWREL 00312001
0056F2	9511 A000	00000		8441=	CLI	0(R10),XFLT	WHICH OPT 00313001
0056F6	4740 C434		056D6	8442=	BL	IME4	=, BRANCH 00314001
0056FA	4780 C424		056C6	8443=	BE	IMC4	<, BRANCH 00315001
0056FE	9513 A000	00000		8444=	CLI	0(R10),X'13'	00316001
005702	4780 C444		056E6	8445=	BE	IMH41	BRANCH ON NOT EQUAL 00317001
005706	4740 C43C		056DE	8446=	BL	IMG4	BRANCH ON GREATER 00318001
00570A	9515 A000	00000		8447=	CLI	0(R10),X'15'	00319001
00570E	4780 C3E2		05684	8448=	BE	IMF4	BRANCH ON NOT LOW 00320001
005712	4720 C362		05604	8449=	BH	HKG2	BRANCH ON ERROR 00321001
005716	47F0 C42C		056CE	8450=	B	IMD4	PREPARE INSTRUCTION 00322001
				8451=*			00323001
00571A	4540 5304		0034C	8452=GNB2	BAL	R4,SERR4	00324001
00571E	00A2			8453=	DC	H'162'	ERROR 162 00325001
				8454=*			00326001
005720	9601 D080	00080		8455=	OI	COMPFLGS,OPERAND	SET OPERAND ON 00327001
005724	D204 9000	5182 00000	001CA	8456=GNE3	MVC	0(5,R9),API	INSTRUCTION API 00328001
00572A	46A0 5060		000A8	8457=	BCT	R10,COMP	CLOPT AND COMPARE 00329001
00572E	9110 9000	00000		8458=GND2	TM	0(R9),APIMASK	LO AN API ? 00330001
005732	4780 C49C		0573E	8459=	BZ	GND21	LO IS NOT AN API, BRANCH 00331001
005736	4190 9005		00005	8460=GND3	LA	R9,5(,R9)	INCREASE R9 00332001
00573A	47F0 C482		05724	8461=	B	GNE3	00333001
				8462=*			00334001
00573E	4540 5310		00358	8463=GND21	BAL	R4,SERR2	00335001
005742	00A3			8464=	DC	H'163'	ERROR 163 00336001
				8465=*			00337001
005744	47F0 C494		05736	8466=	B	GND3	00338001
				8467=*			00339001
005748	9110 9005	00005		8468=GND22	TM	5(R9),APIMASK	BLO AN API ? 00340001
00574C	4710 C494		05736	8469=	BO	GND3	YES, BRANCH 00341001
005750	06A0			8470=	BCTR	R10,0	REDUCE R10 00342001
005752	4540 5310		00358	8471=	BAL	R4,SERR2	00343001
005756	00A3			8472=	DC	H'163'	ERROR 163 00344001
005758	41A0 A001		00001	8473=	LA	R10,1(,R10)	INCREASE R10 00345001
00575C	47F0 C494		05736	8474=	B	GND3	00346001
				8475=*			00347001
005760	9504 A000	00000		8476=GOE11	CLI	0(R10),X'04'	OPT IN STACK INT# DIV ? 00348001
005764	4770 C406		05778	8477=	BNE	GOE111	NO, BRANCH 00349001
005768	9102 9001	00001		8478=	TM	1(R9),X'02'	LO REAL ? 00350001
00576C	4710 C58E		05830	8479=	BO	GOE112	00351001
005770	9102 9006	00006		8480=	TM	6(R9),X'02'	BLO REAL ? 00352001
005774	4710 C58E		05830	8481=	BO	GOE112	YES, BRANCH 00353001
005778	9110 A000	00000		8482=GOE111	TM	0(R10),X'10'	OPT RELATIONAL ? 00354001
00577C	4780 C368		0560A	8483=	BZ	GOE1	NO, BRANCH 00355001
005780	9603 9006	00006		8484=	OI	6(R9),X'03'	ADJUST R9 ENTRY OF BLO 00356001
005784	47F0 C368		0560A	8485=	B	GOE1	00357001
				8486=*			00358001
005788	1BEE			8487=GOE2	SR	R14,R14	00359001
00578A	94F0 DA70	00A70		8488=	NI	UPLACE,X'F0'	00360001
00578E	43E0 DA70		00A70	8489=	IC	R14,UPLACE	00361001
005792	88E0 0003	00003		8490=	SRL	R14,3	00362001
005796	4190 9005	00005		8491=	LA	R9,5(,R9)	00363001
00579A	509E D5E4	005E4		8492=	ST	R9,RUTR(R14)	00364001
00579E	88E0 0001	00001		8493=	SRL	R14,1	00365001
0057A2	40E0 DA44	00A44		8494=	STH	R14,CIR	00366001
0057A6	88E0 0001	00001		8495=	SRL	R14,1	00367001
0057AA	41F0 0001	00001		8496=	LA	R15,1	00368001
0057AE	89F0 E000	00000		8497=	SLL	R15,0(R14)	00369001
0057B2	42F0 C515	057B7		8498=	STC	R15,HEF21+1	00370001
0057B6	9600 DA49	00A49		8499=HEF21	OI	R1R+1,X'00'	00371001
0057BA	47F0 C36C		0560E	8500=	B	GOEZ	00372001
				8501=*			00373001
0057BE	D200 C56B	DA70 0580D	00A70	8502=HLD1	MVC	HLJ4+1(1),UPLACE	PREPARE INSTRUCTION 00374001
0057C4	D100 C56B	DA72 0580D	00A72	8503=	MVN	HLJ4+1(1),VPLACE	00375001
0057C8	D201 C56C	DA6A 0580E	00A6A	8504=	MVC	HLJ4+2(2),UPLACE	00376001
0057D0	926A C56A	0580C		8505=	MVI	HLJ4,X'6A'	00377001
0057D4	9501 A000	00000		8506=	CLI	0(R10),XFMINUS	OPT MINUS ? 00378001
0057D8	4740 C566		05808	8507=	BL	HLJ41	+, BRANCH 00379001
0057DC	4780 C5D0		05872	8508=	BE	HLF2	MINUS, BRANCH 00380001
0057E0	926C C56A	0580C		8509=	MVI	HLJ4,X'6C'	00381001
0057E4	9503 A000	00000		8510=	CLI	0(R10),X'03'	DIVISION ? 00382001
0057E8	4740 C566		05808	8511=	BL	HLJ41	00383001
0057EC	4780 C5C8		0586A	8512=	BE	HLB2	YES, BRANCH 00384001
0057F0	9110 A000	00000		8513=	TM	0(R10),X'10'	A RELATIONAL OPT ? 00385001



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Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0057F4	4780 C35A		055FC	8514=	BZ	HKG22	00386001
0057F8	9260 C56A	0580C		8515=	MVI	HLJ4,X'60'	00387001
0057FC	9516 A000	00000		8516=	CLI	0(R10),XFASSIGN	00388001
005800	4780 C566		05808	8517=	BE	HLJ41	00389001
005804	9269 C56A	0580C		8518=HLA2	MVI	HLJ4,X'69'	00390001
005808	4520 5594		005DC	8519=HLJ41	BAL	R2,GENTXTP4	00391001
00580C	6A00 0000		00000	8520=HLJ4	AD	0,0(0,0)	00392001
005810	9501 A000	00000		8521=	CLI	0(R10),XFMINUS	00393001
005814	4780 C598		0583A	8522=	BE	HLF3	00394001
005818	9516 A000	00000		8523=	CLI	0(R10),XFASSIGN	00395001
00581C	4780 C304		055A6	8524=	BE	HLE21	00396001
005820	9110 A000	00000		8525=	TM	0(R10),X'10'	00397001
005824	4710 C396		05638	8526=	BO	IMB1	00398001
005828	9200 518E	001D6		8527=	MVI	SWREL,0	00399001
00582C	47F0 C4E6		05788	8528=	B	GOE2	00400001
				8529=*			00401001
005830	4540 5318		00360	8530=GOE112	BAL	R4,SERR3	00402001
005834	00B9			8531=	DC	H'185'	00403001
				8532=*			00404001
005836	47F0 C368		0560A	8533=	B	GOE1	00405001
				8534=*			00406001
00583A	91FF 518E	001D6		8535=HLF3	TM	SWREL,X'FF'	00407001
00583E	4780 C4E6		05788	8536=	BZ	GOE2	00408001
005842	9200 518E	001D6		8537=	MVI	SWREL,X'00'	00409001
005846	D200 C5C3	DA70 05865	00A70	8538=	MVC	HLH3+1(1),UPLACE	00410001
00584C	1BEE			8539=	SR	R14,R14	00411001
00584E	43E0 DA70		00A70	8540=	IC	R14,UPLACE	00412001
005852	88E0 0004		00004	8541=	SRL	R14,4	00413001
005856	42E0 D5F8		005F8	8542=	STC	R14,WORKPL	00414001
00585A	D100 C5C3	D5F8 05865	005F8	8543=	MVN	HLH3+1(1),WORKPL	00415001
005860	4520 5598		005E0	8544=	BAL	R2,GENTXTP2	00416001
005864	2300			8545=HLH3	LCDR	0,0	00417001
005866	47F0 C4E6		05788	8546=	B	GOE2	00418001
				8547=*			00419001
00586A	9260 C56A	0580C		8548=HLB2	MVI	HLJ4,X'6D'	00420001
00586E	47F0 C566		05808	8549=	B	HLJ41	00421001
				8550=*			00422001
005872	926B C56A	0580C		8551=HLF2	MVI	HLJ4,X'6B'	00423001
005876	47F0 C566		05808	8552=	B	HLJ41	00424001
				8553=*			00425001
00587A	9102 9006	00006		8554=GOB3	TM	6(R9),X'02'	00426001
00587E	4710 CC84		05F26	8555=	BO	HTB1	00427001
005882	9502 A000	00000		8556=	CLI	0(R10),XFASTER	00428001
005886	4740 C622		058C4	8557=	BL	DHZB1	00429001
00588A	4780 C7E6		05A88	8558=	BE	IPB1	00430001
00588E	9110 A000	00000		8559=	TM	0(R10),X'10'	00431001
005892	4710 C622		058C4	8560=	BO	DHZB1	00432001
005896	9504 A000	00000		8561=	CLI	0(R10),X'04'	00433001
00589A	4780 CAAC		05D4E	8562=	BE	ISB1	00434001
00589E	4720 CC94		05F36	8563=	BH	IUB1	00435001
0058A2	4540 545E		004A6	8564=HNB1	BAL	R4,TRINRE	00436001
0058A6	D201 C618	9003 058BA	00003	8565=	MVC	HYG2+2(2),3(R9)	00437001
0058AC	4190 9005		00005	8566=	LA	R9,5(,R9)	00438001
0058B0	4540 545E		004A6	8567=	BAL	R4,TRINRE	00439001
0058B4	4520 5594		005DC	8568=	BAL	R2,GENTXTP4	00440001
0058B8	6D0A 0000		00000	8569=HYG2	DD	0,0(CDSA,0)	00441001
0058BC	4B70 DA56		00A56	8570=	SH	R7,ONEENTRY	00442001
0058C0	47F0 C36C		0560E	8571=	B	GOEZ	00443001
				8572=*			00444001
0058C4	9120 9005	00005		8573=DHZB1	TM	5(R9),X'20'	00445001
0058C8	4710 C666		05908	8574=	BO	IAB1	00446001
0058CC	9140 9005	00005		8575=	TM	5(R9),X'40'	00447001
0058D0	4710 C65A		058FC	8576=	BO	HZC2	00448001
0058D4	D300 DA70	9008 00A70	00008	8577=	MVZ	UPLACE(1),8(R9)	00449001
0058DA	9110 A000	00000		8578=	TM	0(R10),X'10'	00450001
0058DE	4780 C644		058E6	8579=	BZ	HZF1	00451001
0058E2	4540 5AF2		00B3A	8580=	BAL	R4,ROUTINE8	00452001
0058E6	4140 C764		05A06	8581=HZF1	LA	R4,IFC3	00453001
0058EA	4530 5CB4		00CFC	8582=	BAL	R3,ROUTIN15	00454001
0058EE	D100 DA70	DA72 00A70	00A72	8583=	MVN	UPLACE(1),VPLACE	00455001
0058F4	4540 5AF2		00B3A	8584=	BAL	R4,ROUTINE8	00456001
0058F8	47F0 C730		059D2	8585=	B	IEC3	00457001
				8586=*			00458001
0058FC	9180 9005	00005		8587=HZC2	TM	5(R9),X'80'	00459001
005900	4710 C666		05908	8588=	BO	IAB1	00460001
005904	4B70 DA56		00A56	8589=	SH	R7,ONEENTRY	00461001
005908	9120 9000	00000		8590=IAB1	TM	0(R9),X'20'	00462001
00590C	4710 C6F8		0599A	8591=	BO	IAD3	00463001
005910	9140 9000	00000		8592=	TM	0(R9),X'40'	00464001
005914	4710 C6EC		0598E	8593=	BO	IAC2	00465001
005918	D300 DA70	9003 00A70	00003	8594=	MVZ	UPLACE(1),3(R9)	00466001
00591E	9516 A000	00000		8595=	CLI	0(R10),XFASSIGN	00467001
005922	4770 C698		0593A	8596=	BNE	IAE1	00468001
005926	4540 5AF2		00B3A	8597=	BAL	R4,ROUTINE8	00469001
00592A	4190 9005		00005	8598=	LA	R9,5(,R9)	00470001
00592E	4540 5CB4		00CFC	8599=	BAL	R4,ROUTIN15	00471001
005932	4B90 5170		001B8	8600=IAE21	SH	R9,KH5	00472001
005936	47F0 C764		05A06	8601=	B	IFC3	00473001
				8602=*			00474001
00593A	D204 D5F6	9000 005F6	00000	8603=IAE1	MVC	KONSUM(5),0(R9)	00475001
005940	D204 9000	9005 00000	00005	8604=	MVC	0(5,R9),5(R9)	00476001
005946	D204 9005	D5F6 00005	005F6	8605=	MVC	5(5,R9),KONSUM	00477001
00594C	9110 A000	00000		8606=	TM	0(R10),X'10'	00478001
005950	4710 C6E4		05986	8607=	BO	IAG2	00479001
005954	1BEE			8608=	SR	R14,R14	00480001
005956	4190 9005		00005	8609=	LA	R9,5(,R9)	00481001

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00595A	43E9 0003		00003	8610=	IC	R14,3(R9)	00482001
00595E	88E0 0004		00004	8611=	SRL	R14,4	00483001
005962	89E0 0002		00002	8612=	SLL	R14,2	00484001
005966	509E D5C0		005C0	8613=	ST	R9,RUTI(R14)	00485001
00596A	4890 5170		001B8	8614=	SH	R9,KH5	00486001
00596E	92FF 518E	001D6		8615=IAJ1	MVI	SWREL,X'FF'	00487001
005972	9120 9000	00000		8616=IAF3	TM	0(R9),X'20'	00488001
005976	4140 C764		05A06	8617=	LA	R4,IFC3	00489001
00597A	4710 C6E0		05982	8618=	BO	IAK1	00490001
00597E	47F0 593C		00984	8619=	B	ROUTINE1	00491001
				8620=*			00492001
005982	47F0 59F2		00A3A	8621=IAK1	B	ROUTINE3	00493001
				8622=*			00494001
005986	4540 5AF2		00B3A	8623=IAG2	BAL	R4,ROUTINE8	00495001
00598A	47F0 C6CC		0596E	8624=	B	IAJ1	00496001
				8625=*			00497001
00598E	9180 9000	00000		8626=IAC2	TM	0(R9),X'80'	00498001
005992	4710 C6F8		0599A	8627=	BO	IAD3	00499001
005996	4B70 DA56		00A56	8628=	SH	R7,ONEENTRY	00500001
00599A	9516 A000	00000		8629=IAD3	CLI	0(R10),XFASSIGN	00501001
00599E	4780 C1EE		05490	8630=	BE	HGD2	00502001
0059A2	4540 5AB0		00AF8	8631=	BAL	R4,ROUTINE7	00503001
0059A6	9120 9005	00005		8632=	TM	5(R9),X'20'	00504001
0059AA	4710 C728		059CA	8633=	BO	IAG3	00505001
0059AE	4540 5A64		00AAC	8634=	BAL	R4,ROUTINE5	00506001
0059B2	89E0 0004		00004	8635=IAH3	SLL	R14,4	00507001
0059B6	42E0 DA70		00A70	8636=	STC	R14,UPPLACE	00508001
0059BA	9110 A000	00000		8637=	TM	0(R10),XFEQUAL	00509001
0059BE	4780 C6D0		05972	8638=	BZ	IAF3	00510001
0059C2	4540 5AF2		00B3A	8639=	BAL	R4,ROUTINE8	00511001
0059C6	47F0 C6D0		05972	8640=	B	IAF3	00512001
				8641=*			00513001
0059CA	4540 5AA0		00AE8	8642=IAG3	BAL	R4,ROUTINE6	00514001
0059CE	47F0 C710		059B2	8643=	B	IAH3	00515001
				8644=*			00516001
0059D2	D200 C74F DA70	059F1	00A70	8645=IEC3	MVC	IED3+1(1),UPPLACE	00517001
0059D8	921A C74E	059F0		8646=	MVI	IED3,X'1A'	00518001
0059DC	9501 A000	00000		8647=	CLI	0(R10),XFMINUS	00519001
0059E0	4740 C74A		059EC	8648=	BL	IED31	00520001
0059E4	4720 C75C		059FE	8649=	BH	IED4	00521001
0059E8	921B C74E	059F0		8650=	MVI	IED3,X'1B'	00522001
0059EC	4520 559E		005E6	8651=IED31	BAL	R2,GENTXT2	00523001
0059F0	1800			8652=IED3	SR	0,0	00524001
0059F2	9510 A000	00000		8653=	CLI	0(R10),X'10'	00525001
0059F6	4740 C368		0560A	8654=	BL	GOE1	00526001
0059FA	47F0 C396		05638	8655=	B	IMB1	00527001
				8656=*			00528001
0059FE	9219 C74E	059F0		8657=IED4	MVI	IED3,X'19'	00529001
005A02	47F0 C74A		059EC	8658=	B	IED31	00530001
				8659=*			00531001
005A06	D200 C78F DA70	05A31	00A70	8660=IFC3	MVC	IFD3+1(1),UPPLACE	00532001
005A0C	D100 C78F DA72	05A31	00A72	8661=	MVN	IFD3+1(1),VPLACE	00533001
005A12	D201 C790 DA6A	05A32	00A6A	8662=	MVC	IFD3+2(2),WPLACE	00534001
005A18	925A C78E	05A30		8663=	MVI	IFD3,X'5A'	00535001
005A1C	9501 A000	00000		8664=	CLI	0(R10),XFMINUS	00536001
005A20	4740 C78A		05A2C	8665=	BL	IFD31	00537001
005A24	4720 C7C6		05A68	8666=	BH	IFD4	00538001
005A28	925B C78E		05A30	8667=	MVI	IFD3,X'5B'	00539001
005A2C	4520 55A2		005EA	8668=IFD31	BAL	R2,GENTXT4	00540001
005A30	5800 0000	00000		8669=IFD3	S	0,0(0,0)	00541001
005A34	9501 A000	00000		8670=	CLI	0(R10),XFMINUS	00542001
005A38	4740 C7BE		05A60	8671=	BL	IFG3+2	00543001
005A3C	4720 C7DA		05A7C	8672=	BH	IFD41	00544001
005A40	95FF 518E	001D6		8673=	CLI	SWREL,X'FF'	00545001
005A44	4770 C7BE		05A60	8674=	BNE	IFG3+2	00546001
005A48	43E0 DA70		00A70	8675=	IC	R14,UPPLACE	00547001
005A4C	88E0 0004		00004	8676=	SRL	R14,4	00548001
005A50	42E0 C7BD		05A5F	8677=	STC	R14,IFG3+1	00549001
005A54	D300 C7BD DA70	05A5F	00A70	8678=	MVZ	IFG3+1(1),UPPLACE	00550001
005A5A	4520 559E		005E6	8679=	BAL	R2,GENTXT2	00551001
005A5E	1300			8680=IFG3	LCR	0,0	00552001
005A60	9200 518E	001D6		8681=	MVI	SWREL,0	00553001
005A64	47F0 C368		0560A	8682=	B	GOE1	00554001
				8683=*			00555001
005A68	9259 C78E	05A30		8684=IFD4	MVI	IFD3,X'59'	00556001
005A6C	9516 A000	00000		8685=	CLI	0(R10),XFASSIGN	00557001
005A70	4770 C78A		05A2C	8686=	BNE	IFD31	00558001
005A74	9250 C78E		05A30	8687=	MVI	IFD3,X'50'	00559001
005A78	47F0 C78A		05A2C	8688=	B	IFD31	00560001
				8689=*			00561001
005A7C	9516 A000	00000		8690=IFD41	CLI	0(R10),XFASSIGN	00562001
005A80	4780 C304		055A6	8691=	BE	HLE21	00563001
005A84	47F0 C396		05638	8692=	B	IMB1	00564001
				8693=*			00565001
				8694=*		INTEGER-INTEGER MULTIPLICATION	00566001
				8695=*			00567001
005A88	9120 9005	00005		8696=IPB1	TM	5(R9),X'20'	00568001
005A8C	4710 C9F6		05C98	8697=	BO	IRD1	00569001
005A90	9140 9005	00005		8698=	TM	5(R9),X'40'	00570001
005A94	4710 C9EA		05C8C	8699=	BO	IRB1	00571001
005A98	1B11			8700=	SR	R1,R1	00572001
005A9A	4310 9008	00008		8701=	IC	R1,8(R9)	00573001
005A9E	4210 DA70		00A70	8702=	STC	R1,UPPLACE	00574001
005AA2	8810 0004		00004	8703=	SRL	R1,4	00575001
005AA6	4B70 DA56		00A56	8704=	SH	R7,ONEENTRY	00576001
005AAA	9110 DA70	00A70		8705=	TM	UPPLACE,X'10'	00577001

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005AAE	4780	C9BA		05C5C	8706=	BZ IPD2	BLO IN EVEN GPR, BRANCH
005AB2	4120	0001		00001	8707=	LA R2,1	CLEAR RII OF BLO
005AB6	8920	1000		00000	8708=	SLL R2,0(R1)	
005ABA	4220	C821		05AC3	8709=	STC R2,IPH11+1	
005ABE	97FF	C821	05AC3		8710=	XI IPH11+1,X'FF'	
005AC2	9400	DA47	00AA7		8711=	IPH11	RII+1,0
005AC6	0610				8712=	BCTR R1,0	V=R(BLO-1)
005AC8	94E0	DA70	00A70		8713=	NI UPLACE,X'E0'	
005ACC	8820	0001		00001	8714=	SRL R2,1	NEXT EVEN GPR FREE ?
005AD0	4220	C833		05AD5	8715=	STC R2,IPH1+1	
005ADA	9100	DA47	00A47		8716=	IPH1	RII+1,0
005AD8	4710	C8E0		05B82	8717=	BO IPH31	
005ADC	4140	C8C2		05B64	8718=	IPJ1	LA R4,IQE2
005AE0	4530	5CB4		00CFC	8719=	BAL R3,ROUTINE15	CALL ROUTINE NUMBER 15
005AE4	4540	5AF2		00B3A	8720=	IQC1	BAL R4,ROUTINE8
005AE8	D300	C875	DA70 05B17	00A70	8721=	IQD11	MOVZ IQD1+1(1),UPLACE
005AEE	1B22				8722=	SR R2,R2	
005AF0	4329	0003		00003	8723=	IC R2,3(R9)	
005AF4	8820	0004		00004	8724=	SRL R2,4	
005AF8	4110	0001		00001	8725=	IQC12	LA R1,1
005AFC	8910	2000		00000	8726=	SLL R1,0(R2)	
005B00	4210	C867		05B09	8727=	STC R1,IQC13+1	
005B04	97FF	C867	05B09		8728=	XI IQC13+1,X'FF'	
005B08	9400	DA47	00A47		8729=	IQC13	NI RII+1,0
005B0C	D100	C875	DA72 05B17	00A72	8730=	MVN IQD1+1(1),VPLACE	
005B12	4520	559E		005E6	8731=	BAL R2,GENTXT2	GENERATE 2 BYTES
005B16	1C00				8732=	IQD1	MR 0,0
005B18	D300	C881	DA70 05B23	00A70	8733=	IQE11	MOVZ IQE1+1(1),UPLACE
005B1E	4520	55A2		005EA	8734=	BAL R2,GENTXT4	GENERATE 4 BYTES
005B22	8F00	0020		00020	8735=	IQE1	SLDA 0,32
005B26	1B11				8736=	IQB1	SR R1,R1
005B28	4310	DA70		00A70	8737=	IC R1,UPLACE	
005B2C	8810	0004		00004	8738=	SRL R1,4	
005B30	4210	DA43		00A43	8739=	STC R1,CII+1	
005B34	8910	0004		00004	8740=	SLL R1,4	
005B38	4219	0008		00008	8741=	STC R1,8(R9)	
005B3C	8810	0004		00004	8742=	SRL R1,4	
005B40	4120	0001		00001	8743=	LA R2,1	SET TO ONE RII OF BLO
005B44	8920	1000		00000	8744=	SLL R2,0(R1)	
005B48	4220	C8AB		05B4D	8745=	STC R2,IQC14+1	
005B4C	9600	DA47	00A47		8746=	IQC14	OI RII+1,0
005B50	4A70	DA56		00A56	8747=	AH R7,ONEENTRY	
005B54	8910	0002		00002	8748=	SLL R1,2	
005B58	4190	9005		00005	8749=	LA R9,5(,R9)	
005B5C	5091	D5C0		005C0	8750=	ST R9,RUTI(R1)	
005B60	47F0	C36C		0560E	8751=	B GOEZ	
					8752=	*	
005B64	D300	C8D9	DA70 05B7B	00A70	8753=	IQE2	MOVZ IQE21+1(1),UPLACE
005B6A	D100	C8D9	DA72 05B7B	00A72	8754=	MVN IQE21+1(1),VPLACE	PREPARE INSTRUCTION
005B70	D201	C8DA	DA6A 05B7C	00A6A	8755=	MVC IQE21+2(2),WPLACE	
005B76	4520	55A2		005EA	8756=	BAL R2,GENTXT4	GENERATE 4 BYTES
005B7A	5C00	0000		00000	8757=	IQE21	M 0,0(0,0)
005B7E	47F0	C876		05B18	8758=	B IQE11	*** GENERATED CODE ***
					8759=	*	
005B82	9120	9000		00000	8760=	IPH31	TM 0(R9),X'20'
005B86	4710	C910		05B82	8761=	BO IPH4	LO AN ADDR ?
005B8A	9140	9000		00000	8762=	TM 0(R9),X'40'	YES, BRANCH
005B8E	4710	C910		05B82	8763=	BO IPH4	
005B92	D300	D5F8	9003 005F8	00003	8764=	IPH3	MOVZ WORKPL(1),3(R9)
005B98	94F0	D5F8		005F8	8765=	NI WORKPL,X'F0'	LO IN THAT GPR ?
005B9C	94F0	DA70		00A70	8766=	NI UPLACE,X'F0'	
005BA0	D500	DA70	D5F8 00A70	005F8	8767=	CLC UPLACE(1),WORKPL	
005BA6	4770	C910		05B82	8768=	BNE IPH4	BRANCH IF NOT IN THAT GPR
005BAA	4B70	DA56		00A56	8769=	SH R7,ONEENTRY	INCREASE P
005BAE	47F0	C846		05AE8	8770=	B IQD11	
					8771=	*	
005BB2	4110	1002		00002	8772=	IPH4	LA R1,2(,R1)
005BB6	4910	5172		001BA	8773=	CH R1,KH8	NEXT EVEN FREE
005BBA	4780	C9B0		05C52	8774=	BE IPH41	NEXT EVEN GPR8 ?
005BBE	8920	0002		00002	8775=	SLL R2,2	YES, BRANCH
005BC2	4220	C925		05BC7	8776=	IPH43	STC R2,IPH42+1
005BC6	9100	DA47	00A47		8777=	IPH42	TM RII+1,0
005BCA	4780	C95C		05BFE	8778=	BZ IPD3	BRANCH IN FREE
005BCE	9120	9000		00000	8779=	TM 0(R9),X'20'	LO A VALUE ?
005BD2	4710	C94C		05BEE	8780=	BO IPH44	
005BD6	9140	9000		00000	8781=	TM 0(R9),X'40'	
005BDA	4710	C94C		05BEE	8782=	BO IPH44	
005BDE	1B33				8783=	SR R3,R3	LO IN THAT GPR ?
005BE0	4330	9003		00003	8784=	IC R3,3(0,R9)	
005BE4	8830	0004		00004	8785=	SRL R3,4	
005BE8	1931				8786=	CR R3,R1	
005BEA	4780	C95C		05BFE	8787=	BE IPD3	YES, BRANCH
005BEE	18E1				8788=	IPH44	LR R14,R1
005BF0	5020	D5B0		005B0	8789=	ST R2,RETADR+56	SAVE CONTENTS OF R2 ACROSS RTN9
005BF4	4540	5B4E		00B96	8790=	BAL R4,ROUTINE9	CALL ROUTINE NUMBER 9
005BF8	5820	D5B0		005B0	8791=	L R2,RETADR+56	
005BFC	181E				8792=	LR R1,R14	
005BFE	4110	1001		00001	8793=	IPD3	LA R1,1(,R1)
005C02	8920	0001		00001	8794=	SLL R2,1	NEXT ODD FREE ?
005C06	4220	C969		05C0B	8795=	IPD33	STC R2,IPD31+1
005C0A	9100	DA47	00A47		8796=	IPD31	TM RII+1,0
005C0E	4780	C982		05C24	8797=	BZ IPE3	
005C12	18E1				8798=	LR R14,R1	
005C14	4540	5B4E		00B96	8799=	BAL R4,ROUTINE9	CALL ROUTINE NUMBER 9
005C18	181E				8800=	LR R1,R14	
005C1A	97FF	C969	05C0B		8801=	XI IPD31+1,X'FF'	CLEAR RII OF LAST CLEARED

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005C1E	D400 DA47	C969 00A47	05C0B	8802=	NC	RII+1(1),IPD31+1	00674001
005C24	8910 0004		00004	8803=IPE3	SLL	R1,4	00675001
005C28	4210 DA70		00A70	8804=	STC	R1,UPLACE	00676001
005C2C	D200 C9AB	DA70 05C4D	00A70	8805=	MVC	IPE31+1(1),UPLACE	00677001
005C32	94E0 DA70	00A70		8806=	NI	UPLACE,X'E0'	00678001
005C36	4320 9008		00008	8807=	IC	R2,8(,R9)	00679001
005C3A	8820 0004		00004	8808=	SRL	R2,4	00680001
005C3E	4220 D5F8		005F8	8809=	STC	R2,WORKPL	00681001
005C42	D100 C9AB	D5F8 05C4D	005F8	8810=	MVN	IPE31+1(1),WORKPL	00682001
005C48	4520 559E		005E6	8811=	BAL	R2,GENTXT2	00683001
005C4C	1800			8812=IPE31	LR	0,0	00684001
005C4E	47F0 C83A		05ADC	8813=	B	IPJ1	00685001
				8814=*			00686001
005C52	1B11			8815=IPH41	SR	R1,R1	00687001
005C54	4120 0001		00001	8816=	LA	R2,1	00688001
005C58	47F0 C920		05BC2	8817=	B	IPH43	00689001
				8818=*			00690001
005C5C	1B22			8819=IPD2	SR	R2,R2	00691001
005C5E	4110 1001		00001	8820=	LA	R1,1(0,R1)	00692001
005C62	9120 9000	00000		8821=	TM	0(R9),X'20'	00693001
005C66	4710 C9DE		05C80	8822=	BO	IPD21	00694001
005C6A	9140 9000	00000		8823=	TM	0(R9),X'40'	00695001
005C6E	4710 C9DE		05C80	8824=	BO	IPD21	00696001
005C72	4320 9003		00003	8825=	IC	R2,3(,R9)	00697001
005C76	8820 0004		00004	8826=	SRL	R2,4	00698001
005C7A	1912			8827=	CR	R1,R2	00699001
005C7C	4780 CA9E		05D40	8828=	BE	IQC11	00700001
005C80	4120 0001		00001	8829=IPD21	LA	R2,1	00701001
005C84	8920 1000		00000	8830=	SLL	R2,0(R1)	00702001
005C88	47F0 C964		05C06	8831=	B	IPD33	00703001
				8832=*			00704001
005C8C	9180 9005	00005		8833=IRB1	TM	5(R9),X'80'	00705001
005C90	4710 C9F6		05C98	8834=	BO	IRD1	00706001
005C94	4B70 DA56		00A56	8835=	SH	R7,ONEENTRY	00707001
005C98	9101 DA43	00A43		8836=IRD1	TM	CII+1,X'01'	00708001
005C9C	4710 CA88		05D2A	8837=	BO	IRD11	00709001
005CA0	9106 DA43	00A43		8838=	TM	CII+1,X'06'	00710001
005CA4	4710 CA82		05D24	8839=	BO	IRD12	00711001
005CA8	1B11			8840=	SR	R1,R1	00712001
005CAA	4310 DA43		00A43	8841=	IC	R1,CII+1	00713001
005CAE	4110 1002		00002	8842=	LA	R1,2(,R1)	00714001
005CB2	4120 0001		00001	8843=IRD14	LA	R2,1	00715001
005CB6	4210 DA43		00A43	8844=	STC	R1,CII+1	00716001
005CBA	8920 1000		00000	8845=	SLL	R2,0(R1)	00717001
005CBE	18E1			8846=	LR	R14,R1	00718001
005CC0	4220 CA23		05CC5	8847=	STC	R2,IRD13+1	00719001
005CC4	9100 DA47	00A47		8848=IRD13	TM	RII+1,0	00720001
005CC8	4780 CA38		05CDA	8849=	BZ	IRF1	00721001
005CCC	5020 D5AC		005AC	8850=	ST	R2,RETADR+52	00722001
005CD0	4540 5B4E		00B96	8851=	BAL	R4,ROUTINE9	00723001
005CD4	5820 D5AC		005AC	8852=	L	R2,RETADR+52	00724001
005CD8	181E			8853=	LR	R1,R14	00725001
005CDA	8920 0001		00001	8854=IRF1	SLL	R2,1	00726001
005CDE	D600 DA47	CA23 00A47	05CC5	8855=	OC	RII+1(0),IRD13+1	00727001
005CE4	89E0 0004		00004	8856=	SLL	R14,4	00728001
005CE8	42E0 DA70		00A70	8857=	STC	R14,UPLACE	00729001
005CEC	4220 CA55		05CF7	8858=	STC	R2,IRF11+1	00730001
005CF0	4110 1001		00001	8859=	LA	R1,1(,R1)	00731001
005CF4	18E1			8860=	LR	R14,R1	00732001
005CF6	9100 DA47	00A47		8861=IRF11	TM	RII+1,0	00733001
005CFA	4780 CA6A		05D0C	8862=	BZ	IRG1	00734001
005CFE	97FF CA55	05CF7		8863=	XI	IRF11+1,X'FF'	00735001
005D02	D400 DA47	CA55 00A47	05CF7	8864=	NC	RII+1(1),IRF11+1	00736001
005D08	4540 5B4E		00B96	8865=	BAL	R4,ROUTINE9	00737001
005D0C	9120 9005	00005		8866=IRG1	TM	5(R9),X'20'	00738001
005D10	4710 CA7A		05D1C	8867=	BO	IRA1	00739001
005D14	4540 5A64		00AAC	8868=	BAL	R4,ROUTINE5	00740001
005D18	47F0 C83A		05ADC	8869=	B	IPJ1	00741001
				8870=*			00742001
005D1C	4540 5AA0		00AE8	8871=IRA1	BAL	R4,ROUTINE6	00743001
005D20	47F0 C83A		05ADC	8872=	B	IPJ1	00744001
				8873=*			00745001
005D24	1B11			8874=IRD12	SR	R1,R1	00746001
005D26	47F0 CA10		05CB2	8875=	B	IRD14	00747001
				8876=*			00748001
005D2A	9107 DA43	00A43		8877=IRD11	TM	CII+1,X'07'	00749001
005D2E	4710 CA82		05D24	8878=	BO	IRD12	00750001
005D32	1B11			8879=	SR	R1,R1	00751001
005D34	4310 DA43		00A43	8880=	IC	R1,CII+1	00752001
005D38	4110 1001		00001	8881=	LA	R1,1(,R1)	00753001
005D3C	47F0 CA10		05CB2	8882=	B	IRD14	00754001
				8883=*			00755001
005D40	0620			8884=IQC11	BCTR	R2,0	00756001
005D42	4220 DA72		00A72	8885=	STC	R2,VPLACE	00757001
005D46	4B70 DA56		00A56	8886=	SH	R7,ONEENTRY	00758001
005D4A	47F0 C846		05AE8	8887=	B	IQD11	00759001
				8888=*			00760001
				8889=*		INTEGER-INTEGER DIVISION	00761001
				8890=*			00762001
005D4E	9120 9005	00005		8891=ISB1	TM	5(R9),X'20'	00763001
005D52	4710 CC02		05EA4	8892=	BO	ISB4	00764001
005D56	9140 9005	00005		8893=	TM	5(R9),X'40'	00765001
005D5A	4710 CBF6		05E98	8894=	BO	ISC2	00766001
005D5E	1BEE			8895=	SR	R14,R14	00767001
005D60	43E9 0008		00008	8896=	IC	R14,8(R9)	00768001
005D64	88E0 0004		00004	8897=	SRL	R14,4	00769001



Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005D68	4120 0001		00001	8898=	LA	R2,1	00770001
005D6C	8920 E000		00000	8899=	SLL	R2,0(R14)	00771001
005D70	4220 CAD7		05D79	8900=	STC	R2,ISE3+1	00772001
005D74	97FF CAD7	05D79		8901=	XI	ISE3+1,X'FF'	00773001
005D78	9400 DA47	00A47		8902=ISE3	NI	RII+1,X'00'	00774001
005D7C	4B70 DA56		00A56	8903=	SH	R7,ONEENTRY	00775001
005D80	9110 9008	00008		8904=	TM	8(R9),X'10'	00776001
005D84	4710 CB96		05E38	8905=	BO	ISG4	00777001
005D88	8920 0001		00001	8906=ISH11	SLL	R2,1	00778001
005D8C	41E0 E001		00001	8907=	LA	R14,1(R14)	00779001
005D90	4220 CAF3		05D95	8908=	STC	R2,ISH1+1	00780001
005D94	9100 DA47	00A47		8909=ISH1	TM	RII+1,0	00781001
005D98	4710 CB52		05DF4	8910=	BO	ISH2	00782001
005D9C	D300 CB05	9008 05DA7	00008	8911=ISJ11	MVZ	ISJ1+1(1),8(R9)	00783001
005DA2	4520 55A2		005EA	8912=	BAL	R2,GENTXT4	00784001
005DA6	8E00 0020		00020	8913=ISJ1	SRDA	0,32	00785001
005DAA	4140 CB34		05DD6	8914=	LA	R4,ITF21	00786001
005DAE	4530 5CB4		00CFC	8915=	BAL	R3,ROUTIN15	00787001
005DB2	4540 5AF2		00B3A	8916=	BAL	R4,ROUTINE8	00788001
005DB6	D300 CB25	9008 05DC7	00008	8917=	MVZ	ITE1+1(1),8(R9)	00789001
005DBC	D100 CB25	DA72 05DC7	00A72	8918=	MVN	ITE1+1(1),VPLACE	00790001
005DC2	4520 559E		005E6	8919=	BAL	R2,GENTXT2	00791001
005DC6	1D00			8920=ITE1	DR	0,0	00792001
005DC8	D300 DA70	9008 00A70	00008	8921=ITZZ	MVZ	UPLACE(1),8(R9)	00793001
005DCE	9610 DA70	00A70		8922=	OI	UPLACE,X'10'	00794001
005DD2	47F0 C884		05B26	8923=	B	IQB1	00795001
				8924=*			00796001
005DD6	D300 CB4B	9008 05DED	00008	8925=ITF21	MVZ	ITF2+1(1),8(R9)	00797001
005DDC	D100 CB4B	DA72 05DED	00A72	8926=	MVN	ITF2+1(1),VPLACE	00798001
005DE2	D201 CB4C	DA6A 05DEE	00A6A	8927=	MVC	ITF2+2(2),VPLACE	00799001
005DE8	4520 55A2		005EA	8928=	BAL	R2,GENTXT4	00800001
005DEC	5D00 0000		00000	8929=ITF2	D	0,0(0,0)	00801001
005DF0	47F0 CB26		05DC8	8930=	B	ITZZ	00802001
				8931=*			00803001
005DF4	9120 9000		00000	8932=ISH2	TM	0(R9),X'20'	00804001
005DF8	4710 CB8E		05E30	8933=	BO	ISH3	00805001
005DFC	9140 9000	00000		8934=	TM	0(R9),X'40'	00806001
005E00	4710 CB8E		05E30	8935=	BO	ISH3	00807001
005E04	1B33			8936=	SR	R3,R3	00808001
005E06	4339 0003		00003	8937=	IC	R3,3(R9)	00809001
005E0A	8830 0004		00004	8938=	SRL	R3,4	00810001
005E0E	4230 DA72		00A72	8939=	STC	R3,VPLACE	00811001
005E12	193E			8940=	CR	R3,R14	00812001
005E14	4770 CB8E		05E30	8941=	BNE	ISH3	00813001
005E18	D100 CB81	DA72 05E23	00A72	8942=	MVN	ISJ2+1(1),VPLACE	00814001
005E1E	4520 559E		005E6	8943=	BAL	R2,GENTXT2	00815001
005E22	18E0			8944=ISJ2	LR	R14,0	00816001
005E24	940F 9003	00003		8945=	NI	3(R9),X'0F'	00817001
005E28	96E0 9003	00003		8946=	OI	3(R9),X'E0'	00818001
005E2C	47F0 CAFA		05D9C	8947=	B	ISJ11	00819001
				8948=*			00820001
005E30	4540 5B4E		00B96	8949=ISH3	BAL	R4,ROUTINE9	00821001
005E34	47F0 CAFA		05D9C	8950=	B	ISJ11	00822001
				8951=*			00823001
005E38	41E0 E001		00001	8952=ISG4	LA	R14,1(R14)	00824001
005E3C	9107 DA43	00A43		8953=	TM	CII+1,X'07'	00825001
005E40	4710 CC6E		05F10	8954=	BO	ISG401	00826001
005E44	8920 0001		00001	8955=	SLL	R2,1	00827001
005E48	4220 CBAB		05E4D	8956=	STC	R2,ISG41+1	00828001
005E4C	9100 DA47	00A47		8957=ISG41	TM	RII+1,0	00829001
005E50	4780 CBC4		05E66	8958=	BZ	ISH4	00830001
005E54	5020 D578		00578	8959=	ST	R2,RETADR	00831001
005E58	4540 5B4E		00B96	8960=	BAL	R4,ROUTINE9	00832001
005E5C	97FF CBAB	05E4D		8961=	XI	ISG41+1,X'FF'	00833001
005E60	D400 DA47	CBAB 00A47	05E4D	8962=	NC	RII+1(1),ISG41+1	00834001
005E66	89E0 0004		00004	8963=ISH4	SLL	R14,4	00835001
005E6A	42E0 CBE3		05E85	8964=	STC	R14,ISH41+1	00836001
005E6E	4319 0008		00008	8965=	IC	R1,8(R9)	00837001
005E72	8810 0004		00004	8966=	SRL	R1,4	00838001
005E76	4210 D5F8		005F8	8967=	STC	R1,WORKPL	00839001
005E7A	D100 CBE3	D5F8 05E85	005F8	8968=	MVN	ISH41+1(1),WORKPL	00840001
005E80	4520 559E		005E6	8969=	BAL	R2,GENTXT2	00841001
005E84	1800			8970=ISH41	LR	0,0	00842001
005E86	5820 D578		00578	8971=	L	R2,RETADR	00843001
005E8A	D300 9008	CBE3 00008	05E85	8972=	MVZ	8(1,R9),ISH41+1	00844001
005E90	88E0 0004		00004	8973=	SRL	R14,4	00845001
005E94	47F0 CAE6		05D88	8974=	B	ISH11	00846001
				8975=*			00847001
005E98	9180 9005	00005		8976=ISC2	TM	5(R9),X'80'	00848001
005E9C	4710 CC02		05EA4	8977=	BO	ISB4	00849001
005EA0	4B70 DA56		00A56	8978=	SH	R7,ONEENTRY	00850001
005EA4	9101 DA43	00A43		8979=ISB4	TM	CII+1,X'01'	00851001
005EA8	4710 CC5A		05EFC	8980=	BO	ISD5	00852001
005EAC	9106 DA43	00A43		8981=	TM	CII+1,X'06'	00853001
005EB0	4710 CC54		05EF6	8982=	BO	ISD51	00854001
005EB4	1B11			8983=	SR	R1,R1	00855001
005EB6	4310 DA43		00A43	8984=	IC	R1,CII+1	00856001
005EBA	4110 1002		00002	8985=	LA	R1,2(R1)	00857001
005EBE	4120 0001		00001	8986=ISD52	LA	R2,1	00858001
005EC2	8920 1000		00000	8987=	SLL	R2,0(R1)	00859001
005EC6	4220 CC2B		05ECD	8988=	STC	R2,ISE4+1	00860001
005ECA	18E1			8989=	LR	R14,R1	00861001
005ECC	9100 DA47	00A47		8990=ISE4	TM	RII+1,0	00862001
005ED0	4780 CC36		05ED8	8991=	BZ	ISF4	00863001
005ED4	4540 5B4E		00B96	8992=	BAL	R4,ROUTINE9	00864001
005ED8	9120 9005	00005		8993=ISF4	TM	5(R9),X'20'	00865001

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
005EDC	4710	CC4C	05EEE	8994=	BO	ISF41	AN ADDR, BRANCH
005EE0	4540	5A64	00AAC	8995=	BAL	R4, ROUTINES	CALL ROUTINE NUMBER 5
005EE4	1B22			8996=	ISF42	SR	R2, R2
005EE6	4320	CC2B	05ECD	8997=	IC	R2, ISE4+1	
005EEA	47F0	CAE6	05D88	8998=	B	ISH11	
				8999=	*		
005EEE	4540	5AA0	00AE8	9000=	ISF41	BAL	R4, ROUTINE6
005EF2	47F0	CC42	05EE4	9001=	B	ISF42	LOAD BLO
				9002=	*		
005EF6	1B11			9003=	ISD51	SR	R1, R1
005EF8	47F0	CC1C	05EBE	9004=	B	ISD52	CLEAR R1
				9005=	*		
005EFC	9107	DA43	00A43	9006=	ISD5	TM	CII+1,X'07'
005F00	4710	CC54	05EF6	9007=	BO	ISD51	LAST OCCUPIED R7 ?
005F04	4810	DA42	00A42	9008=	LH	R1, CII	YES, BRANCH
005F08	4110	1001	00001	9009=	LA	R1,1(,R1)	
005F0C	47F0	CC1C	05EBE	9010=	B	ISD52	
				9011=	*		
005F10	1BEE			9012=	ISG401	SR	R14, R14
005F12	4120	0001	00001	9013=	LA	R2, 1	CLEAR R14
005F16	4220	CBAB	05E4D	9014=	STC	R2, ISG41+1	
005F1A	47F0	CBAA	05E4C	9015=	B	ISG41	
				9016=	*		
005F1E	4540	CF86	06228	9017=	HQB1	BAL	R4, I1B13
005F22	47F0	C044	052E6	9018=	B	HEB1	
				9019=	*		
005F26	9505	A000	00000	9020=	HTB1	CLI	0(R10), XFPPOWER
005F2A	4780	CDF0	06092	9021=	BE	I1B1	OPT POWER ?
005F2E	4540	545E	004A6	9022=	HTB11	BAL	R4, TRINRE
005F32	47F0	C04C	052EE	9023=	B	DHEB2	CONVERSION ROUTINE
				9024=	*		
				9025=	*	INTEGER-INTEGER POWER	
				9026=	*		
005F36	91C0	9000	00000	9027=	IUB1	TM	0(R9), X'C0'
005F3A	47E0	CD94	06036	9028=	BNO	IUB2	
005F3E	9130	9001	00001	9029=	TM	1(R9), X'30'	
005F42	4770	CD94	06036	9030=	BNZ	IUB2	NOT CONSTANT, BRANCH
005F46	91FF	518C	001D4	9031=	TM	SWVAL, X'FF'	
005F4A	4710	CD94	06036	9032=	BO	IUB2	
005F4E	9101	DA47	00A47	9033=	TM	RII+1, X'01'	R0 FREE ?
005F52	4780	CCBA	05F5C	9034=	BZ	IUC1	YES, BRANCH
005F56	1BEE			9035=	SR	R14, R14	R14=0
005F58	4540	5B4E	00B96	9036=	BAL	R4, ROUTINE9	CALL ROUTINE NUMBER 9
005F5C	9102	DA47	00A47	9037=	IUC1	TM	RII+1, X'02'
005F60	4780	CCCE	05F70	9038=	BZ	IUC11	R1 FREE ?
005F64	41E0	0001	00001	9039=	LA	R14, 1	YES, BRANCH
005F68	4540	5B4E	00B96	9040=	BAL	R4, ROUTINE9	CALL ROUTINE NUMBER 9
005F6C	94FD	DA47	00A47	9041=	NI	RII+1, X'FD'	
005F70	4A70	DA56	00A56	9042=	IUC11	AH	R7, ONEENTRY
005F74	4070	CD80	06022	9043=	STH	R7, IUG2+2	INCREASE P
005F78	4A70	DA56	00A56	9044=	AH	R7, ONEENTRY	PREPARE INSTRUCTION
005F7C	4070	D5F8	005F8	9045=	STH	R7, WORKPL	INCREASE P
005F80	4540	58BA	00902	9046=	BAL	R4, MAXCH	CHECK MAX
005F84	4B70	DA56	00A56	9047=	SH	R7, ONEENTRY	
005F88	4190	9005	00005	9048=	LA	R9, 5(, R9)	
005F8C	4140	CD12	05FB4	9049=	LA	R4, IUH21	
005F90	4530	5CB4	00CFC	9050=	BAL	R3, ROUTIN15	CALL ROUTINE NUMBER 15
005F94	1BEE			9051=	SR	R14, R14	STORE BLO
005F96	4B70	DA56	00A56	9052=	SH	R7, ONEENTRY	
005F9A	43E0	9003	00003	9053=	IC	R14, 3(, R9)	
005F9E	88E0	0004	00004	9054=	SRL	R14, 4	
005FA2	4540	5B4E	00B96	9055=	BAL	R4, ROUTINE9	CALL ROUTINE NUMBER 9
005FA6	4540	5AF2	00B3A	9056=	BAL	R4, ROUTINE8	CALL ROUTINE NUMBER 8
005FAA	D201	DA6A	9003 00A6A	9057=	MVC	WPLACE(2), 3(R9)	
005FB0	92AA	DA72	00A72	9058=	MVI	VPLACE, X'AA'	V=CDSA
005FBA	D201	CD84	DA6A 06026	9059=	IUH21	MVC	IUH2+2(2), VPLACE
005FBB	D100	CD83	DA72 06025	9060=	MVN	IUH2+1(1), VPLACE	PREPARE INSTRUCTION
005FC0	4B90	5170	001B8	9061=	SH	R9, KH5	
005FC4	4120	CD7E	06020	9062=	LA	R2, IUG2	
005FC8	45E0	5588	005D0	9063=	BAL	R14, GENTXTS	
005FCC	0008			9064=	DC	H'8'	GENERATE 8 BYTES
				9065=	*		
005FCE	4540	593C	00984	9066=	BAL	R4, ROUTINE1	CALL ROUTINE NUMBER 1
005FD2	D201	CD88	DA6A 0602A	9067=	MVC	IUH2+6(2), VPLACE	
005FD8	D100	CD87	DA72 06029	9068=	MVN	IUH2+5(1), VPLACE	
005FDE	4120	CD86	06028	9069=	LA	R2, IUH2+4	
005FE2	45E0	5588	005D0	9070=	BAL	R14, GENTXTS	
005FE6	000E			9071=	DC	H'14'	GENERATE 14 BYTES
				9072=	*		
005FE8	9601	DA47	00A47	9073=	OI	RII+1, X'01'	SET TO ONE RII OF GPR0
005FEC	9200	DA43	00A43	9074=	MVI	CII+1, 0	
005FF0	4070	D5F8	005F8	9075=	STH	R7, WORKPL	ADJUST R9 ENTRY
005FF4	D201	9008	D5F8 00008	9076=	MVC	8(2, R9), WORKPL	
005FFA	4190	9005	00005	9077=	LA	R9, 5(0, R9)	
005FFE	5090	D5C0	005C0	9078=	ST	R9, RUTI	INTRODUCE R9 ADD IN RUT
006002	D200	9002	DA5D 00002	9079=	MVC	2(1, R9), SPBNST+1	ADJUST R9 ENTRY
006008	9630	9001	00001	9080=	OI	1(R9), X'30'	
00600C	9490	9000	00000	9081=	NI	0(R9), X'90'	
006010	9688	9000	00000	9082=	OI	0(R9), X'88'	
006014	58E0	D61C	0061C	9083=	L	R14, LATAB	
006018	947F	E060	00060	9084=	NI	96(R14), X'7F'	
00601C	46A0	5060	000A8	9085=	BCT	R10, COMP	
006020	411A	0007	00007	9086=	IUG2	LA	R1, R7(CDSA, 0)
006024	41E0	0000	00000	9087=	IUH2	LA	R14, 0(0, 0)
006028	41F0	0000	00000	9088=	LA	BRR, 0(0, 0)	*** GENERATED CODE ***
00602C	90EF	1000	00000	9089=	STM	R14, BRR, 0(R1)	*** GENERATED CODE ***

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
006030	58FC 0060		00060	9090=	L	ENTRY,96(LAT,0)	*** GENERATED CODE ***		00962001
006034	05EF			9091=	BALR	R14,ENTRY	*** GENERATED CODE ***		00963001
				9092=*					00964001
006036	4140 CDF0		06092	9093=IUB2	LA	R4,I1B1			00965001
00603A	9120 9000	00000		9094=	TM	0(R9),X'20'			00966001
00603E	4710 CF86		06228	9095=	BO	I1B13			00967001
006042	9140 9000	00000		9096=	TM	0(R9),X'40'			00968001
006046	4710 CF86		06228	9097=	BO	I1B13			00969001
00604A	9120 9005	00005		9098=	TM	5(R9),X'20'			00970001
00604E	4710 CF86		06228	9099=	BO	I1B13			00971001
006052	9140 9005	00005		9100=	TM	5(R9),X'40'			00972001
006056	4710 CF86		06228	9101=	BO	I1B13			00973001
00605A	1BEE			9102=	SR	R14,R14			00974001
00605C	43E9 0008		00008	9103=	IC	R14,8(R9)			00975001
006060	88E0 0004		00004	9104=	SRL	R14,4			00976001
006064	41F0 0001		00001	9105=	LA	R15,1			00977001
006068	89F0 E000		00000	9106=	SLL	R15,0(R14)			00978001
00606C	42F0 CDD3		06075	9107=	STC	R15,IUB3+1			00979001
006070	97FF CDD3	06075		9108=	XI	IUB3+1,X'FF'			00980001
006074	9400 DA47	00A47		9109=IUB3	NI	R11+1,0			00981001
006078	1BEE			9110=	SR	R14,R14			00982001
00607A	9107 DA43	00A43		9111=	TM	C11+1,X'07'			00983001
00607E	4710 CDE8		0608A	9112=	BO	IUB13			00984001
006082	48E0 DA42		00A42	9113=	LH	R14,C11			00985001
006086	41E0 E001		00001	9114=	LA	R14,1(R14)			00986001
00608A	40E0 DA42		00A42	9115=IUB13	STH	R14,C11			00987001
00608E	4540 CF86		06228	9116=	BAL	R4,I1B13			00988001
				9117=*					00989001
				9118=*		REAL-INTEGER POWER			00990001
				9119=*					00991001
006092	4530 CE78		0611A	9120=I1B1	BAL	R3,HOB11			00992001
006096	4140 CE18		060BA	9121=	LA	R4,I1C11			00993001
00609A	4530 5CB4		00CFC	9122=	BAL	R3,ROUTIN15	CALL ROUTINE NUMBER 15		00994001
00609E	1BEE			9123=	SR	R14,R14			00995001
0060A0	43E0 9003		00003	9124=	IC	R14,3(R9)			00996001
0060A4	88E0 0004		00004	9125=	SRL	R14,4			00997001
0060A8	4540 5B4E		00B96	9126=	BAL	R4,ROUTINE9	CALL ROUTINE NUMBER 9		00998001
0060AC	4540 5AF2		00B3A	9127=	BAL	R4,ROUTINE8	CALL ROUTINE NUMBER 8		00999001
0060B0	D201 DA6A	9003 00A6A	00003	9128=	MVC	WPLACE(2),3(R9)	PREPARE INSTRUCTION		01000001
0060B6	92AA DA72	00A72		9129=	MVI	VPLACE,X'AA'			01001001
0060BA	4530 CF2A		061CC	9130=I1C11	BAL	R3,HOD1			01002001
0060BE	58E0 D61C		0061C	9131=	L	R14,LATAB			01003001
0060C2	947F E064		00064	9132=	NI	100(R14),X'7F'			01004001
0060C6	4520 55A6		005EE	9133=	BAL	R2,GENTXT6	GENERATE 6 BYTES		01005001
0060CA	58FC 0064		00064	9134=	L	ENTRY,100(LAT,0)	*** GENERATED CODE ***		01006001
0060CE	05EF			9135=	BALR	R14,ENTRY	*** GENERATED CODE ***		01007001
0060D0	46A0 5060		000A8	9136=	BCT	R10,COMP			01008001
				9137=*					01009001
				9138=*		REAL-REAL POWER			01010001
				9139=*					01011001
0060D4	4530 CE78		0611A	9140=HOB1	BAL	R3,HOB11			01012001
0060D8	4140 CE5E		06100	9141=	LA	R4,HOC31			01013001
0060DC	4530 5CB4		00CFC	9142=	BAL	R3,ROUTIN15	CALL ROUTINE NUMBER 15		01014001
0060E0	1BEE			9143=	SR	R14,R14			01015001
0060E2	43E0 9003		00003	9144=	IC	R14,3(R9)			01016001
0060E6	88E0 0004		00004	9145=	SRL	R14,4			01017001
0060EA	42E0 DA45		00A45	9146=	STC	R14,C1R+1			01018001
0060EE	4540 5C66		00CAE	9147=	BAL	R4,ROUTIN13	CALL ROUTINE NUMBER 13		01019001
0060F2	4540 5C08		00C50	9148=	BAL	R4,ROUTIN12	CALL ROUTINE NUMBER 12		01020001
0060F6	D201 DA6A	9003 00A6A	00003	9149=	MVC	WPLACE(2),3(R9)	PREPARE INSTRUCTION		01021001
0060FC	92AA DA72	00A72		9150=	MVI	VPLACE,X'AA'			01022001
006100	4530 CF2A		061CC	9151=HOC31	BAL	R3,HOD1			01023001
006104	58E0 D61C		0061C	9152=	L	R14,LATAB			01024001
006108	947F E068		00068	9153=	NI	104(R14),X'7F'			01025001
00610C	4520 55A6		005EE	9154=	BAL	R2,GENTXT6	GENERATE 6 BYTES		01026001
006110	58FC 0068		00068	9155=	L	ENTRY,104(LAT,0)	*** GENERATED CODE ***		01027001
006114	05EF			9156=	BALR	R14,ENTRY	*** GENERATED CODE ***		01028001
006116	46A0 5060		000A8	9157=	BCT	R10,COMP			01029001
00611A	9101 DA49		00A49	9158=HOB11	TM	R1R+1,X'01'	FPR0 FREE ?		01030001
00611E	5030 D5AC		005AC	9159=	ST	R3,RETADR+52			01031001
006122	4780 CE88		0612A	9160=	BZ	HOB21	YES, BRANCH		01032001
006126	4540 5C64		00CAC	9161=	BAL	R4,ROUTIN14	CALL ROUTINE NUMBER 14		01033001
00612A	9102 DA49		00A49	9162=HOB21	TM	R1R+1,X'02'	FPR2 FREE ?		01034001
00612E	4780 CE9C		0613E	9163=	BZ	HOB2			01035001
006132	41E0 0002		00002	9164=	LA	R14,2			01036001
006136	4540 5C66		00CAE	9165=	BAL	R4,ROUTIN13	CALL ROUTINE NUMBER 13		01037001
00613A	94FD DA49		00A49	9166=	NI	R1R+1,X'FD'			01038001
00613E	9102 DA47		00A47	9167=HOB2	TM	R11+1,X'02'	GPR1 FREE ?		01039001
006142	4780 CEB0		06152	9168=	BZ	HOB3	YES, BRANCH		01040001
006146	41E0 0001		00001	9169=	LA	R14,1			01041001
00614A	4540 5B4E		00B96	9170=	BAL	R4,ROUTINE9	CALL ROUTINE NUMBER 9		01042001
00614E	94FD DA47		00A47	9171=	NI	R11+1,X'FD'			01043001
006152	4A70 DA56		00A56	9172=HOB3	AH	R7,ONEENTRY	INCREASE P		01044001
006156	4070 CF78		0621A	9173=	STH	R7,HOB4+2	PREPARE INSTRUCTION		01045001
00615A	4A70 DA56		00A56	9174=	AH	R7,ONEENTRY	INCREASE P		01046001
00615E	4070 D5F8		005F8	9175=	STH	R7,WORKPL	CHECK MAX		01047001
006162	4540 58BA		00902	9176=	BAL	R4,MAXCH			01048001
006166	4B70 DA56		00A56	9177=	SH	R7,ONEENTRY	REDUCE P		01049001
00616A	4190 9005		00005	9178=	LA	R9,5(R9)			01050001
00616E	4140 CF0A		061AC	9179=	LA	R4,HOC11			01051001
006172	4530 5CB4		00CFC	9180=	BAL	R3,ROUTIN15			01052001
006176	4B70 DA56		00A56	9181=	SH	R7,ONEENTRY			01053001
00617A	1BEE			9182=	SR	R14,R14			01054001
00617C	43E0 9003		00003	9183=	IC	R14,3(R9)			01055001
006180	88E0 0004		00004	9184=	SRL	R14,4			01056001
006184	4540 5C66		00CAE	9185=	BAL	R4,ROUTIN13	CALL ROUTINE NUMBER 13		01057001



Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
006188	88E0 0001		00001	9186=	SRL	R14,1	01058001
00618C	41F0 0001		00001	9187=	LA	R15,1	01059001
006190	89F0 E000		00000	9188=	SLL	R15,0(R14)	01060001
006194	42F0 D5F8		005F8	9189=	STC	R15,WORKPL	01061001
006198	97FF D5F8	005F8		9190=	XI	WORKPL,X'FF'	01062001
00619C	D400 DA49 D5F8	00A49	005F8	9191=	NC	RIR+1(1),WORKPL	01063001
0061A2	D201 DA6A 9003	00A6A	00003	9192=	MVC	WPLACE(2),3(R9)	01064001
0061A8	92AA DA72	00A72		9193=	MVI	VPLACE,X'AA'	01065001
0061AC	D201 CF7C DA6A	0621E	00A6A	9194=	HOC11 MVC	HOB5+2(2),WPLACE	01066001
0061B2	D100 CF7B DA72	0621D	00A72	9195=	MVN	HOB5+1(1),VPLACE	01067001
0061B8	4890 5170		001B8	9196=	SH	R9,KH5	01068001
0061BC	4120 CF76		06218	9197=	LA	R2,HOB4	01069001
0061C0	45E0 5588		005D0	9198=	BAL	R14,GENTXTS	01070001
0061C4	0008			9199=	DC	H'8'	01071001
				9200=*			01072001
0061C6	5830 D5AC		005AC	9201=	L	R3,RETADR+52	01073001
0061CA	07F3			9202=	BR	R3	01074001
				9203=*			01075001
0061CC	D201 CF80 DA6A	06222	00A6A	9204=	HOD1 MVC	HOB5+6(2),WPLACE	01076001
0061D2	5030 D5AC		005AC	9205=	ST	R3,RETADR+52	01077001
0061D6	D100 CF7F DA72	06221	00A72	9206=	MVN	HOB5+5(1),VPLACE	01078001
0061DC	4120 CF7E		06220	9207=	LA	R2,HOB4+8	01079001
0061E0	45E0 5588		005D0	9208=	BAL	R14,GENTXTS	01080001
0061E4	0008			9209=	DC	H'8'	01081001
0061E6	9601 DA49	00A49		9210=	OI	RIR+1,X'01'	01082001
0061EA	9200 DA45	00A45		9211=	MVI	CIR+1,0	01083001
0061EE	4070 D5F8		005F8	9212=	STH	R7,WORKPL	01084001
0061F2	D201 9008 D5F8	00008	005F8	9213=	MVC	8(2,R9),WORKPL	01085001
0061F8	4190 9005		00005	9214=	LA	R9,5(,R9)	01086001
0061FC	5090 D5E4		005E4	9215=	ST	R9,RUTR	01087001
006200	D200 9002 DA5D	00002	00A5D	9216=	MVC	2(1,R9),SPBNST+1	01088001
006206	9630 9001	00001		9217=	OI	1(R9),X'30'	01089001
00620A	9490 9000	00000		9218=	NI	0(R9),X'90'	01090001
00620E	9688 9000	00000		9219=	OI	0(R9),X'88'	01091001
006212	5830 D5AC		005AC	9220=	L	R3,RETADR+52	01092001
006216	07F3			9221=	BR	R3	01093001
				9222=*			01094001
006218	411A 0007		00007	9223=	HOB4 LA	R1,7(CDSA,0)	01095001
00621C	41E0 0000		00000	9224=	HOB5 LA	R14,0(0,0)	01096001
006220	41F0 0000		00000	9225=	LA	BRR,0(0,0)	01097001
006224	90EF 1000		00000	9226=	STM	R14,BRR,0(R1)	01098001
006228	5040 CFDE		06280	9227=	I1B13 ST	R4,RET69	01099001
00622C	9120 9000	00000		9228=	TM	0(R9),X'20'	01100001
006230	4710 CF9A		0623C	9229=	BO	I1B14	01101001
006234	91C0 9000	00000		9230=	TM	0(R9),X'C0'	01102001
006238	4710 CFCC		0626E	9231=	BO	I1B15	01103001
00623C	9120 9005	00005		9232=	I1B14 TM	5(R9),X'20'	01104001
006240	4710 CFAA		0624C	9233=	BO	I1B16	01105001
006244	91C0 9005	00005		9234=	TM	5(R9),X'C0'	01106001
006248	4710 CFCC		0626E	9235=	BO	I1B15	01107001
00624C	4070 CFE2		06284	9236=	I1B16 STH	R7,RET691	01108001
006250	D201 D5F8 9008	005F8	00008	9237=	MVC	WORKPL(2),8(R9)	01109001
006256	940F D5F8	005F8		9238=	NI	WORKPL,X'0F'	01110001
00625A	4870 D5F8		005F8	9239=	LH	R7,WORKPL	01111001
00625E	4190 9005		00005	9240=	LA	R9,5(,R9)	01112001
006262	4540 545E		004A6	9241=	BAL	R4,TRINRE	01113001
006266	4870 CFE2		06284	9242=	LH	R7,RET691	01114001
00626A	47F0 CFD4		06276	9243=	B	I1B17	01115001
				9244=*			01116001
00626E	4190 9005		00005	9245=	I1B15 LA	R9,5(,R9)	01117001
006272	4540 545E		004A6	9246=	BAL	R4,TRINRE	01118001
006276	4890 5170		001B8	9247=	I1B17 SH	R9,KH5	01119001
00627A	5840 CFDE		06280	9248=	L	R4,RET69	01120001
00627E	07F4			9249=	BR	R4	01121001
				9250=*			01122001
006280	00000000			9251=	RET69 DC	F'0'	01123001
006284	0000			9252=	RET691 DC	H'0'	01124001
				9253=*			01125001
				9254=	*****		01126001
				9255=*			01127001
				9256=*	END OF IEX50006		01128001
				9257=*			01129001
				9258=	*****		01130001
				9259=*			01131001
				9260 *			01937001
				9261 *	CHARACTER EQUATES		01938001
				9262 *			01939001
				9263	IEXCHAR		01940001
				9264+*			01- IEXCH
				9265+*	CHARACTER A - Z		01- IEXCH
				9266+*			01- IEXCH
		00040		9267+XFA	EQU	X'40'	02- IEXCG
		00041		9268+XFB	EQU	X'41'	02- IEXCG
		00042		9269+XFC	EQU	X'42'	02- IEXCG
		00043		9270+XFD	EQU	X'43'	02- IEXCG
		00044		9271+XFE	EQU	X'44'	02- IEXCG
		00045		9272+XFF	EQU	X'45'	02- IEXCG
		00046		9273+XFG	EQU	X'46'	02- IEXCG
		00047		9274+XFH	EQU	X'47'	02- IEXCG
		00048		9275+XFI	EQU	X'48'	02- IEXCG
		00049		9276+XFJ	EQU	X'49'	02- IEXCG
		0004A		9277+XFK	EQU	X'4A'	02- IEXCG
		0004B		9278+XFL	EQU	X'4B'	02- IEXCG
		0004C		9279+XFM	EQU	X'4C'	02- IEXCG
		0004D		9280+XFN	EQU	X'4D'	02- IEXCG
		0004E		9281+XFO	EQU	X'4E'	02- IEXCG

Active USINGS: IEX50000+X'52A2',R12 IEX50000+X'48',R5 WORKAREA,R13

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
	0004F			9282+XFP	EQU	X'4F'	02-IEXCG
	00050			9283+XFQ	EQU	X'50'	02-IEXCG
	00051			9284+XFR	EQU	X'51'	02-IEXCG
	00052			9285+XFS	EQU	X'52'	02-IEXCG
	00053			9286+XFT	EQU	X'53'	02-IEXCG
	00054			9287+XFU	EQU	X'54'	02-IEXCG
	00055			9288+XFV	EQU	X'55'	02-IEXCG
	00056			9289+XFW	EQU	X'56'	02-IEXCG
	00057			9290+XFX	EQU	X'57'	02-IEXCG
	00058			9291+XFY	EQU	X'58'	02-IEXCG
	00059			9292+XFZ	EQU	X'59'	02-IEXCG
				9293+*			01-IEXCH
				9294+*	NATIONAL CHARACTERS		01-IEXCH
				9295+*			01-IEXCH
	0005A			9296+XFDOLLAR	EQU	X'5A'	02-IEXCG
	0005B			9297+XFUNDER	EQU	X'5B'	02-IEXCG
	0005C			9298+XFHASH	EQU	X'5C'	02-IEXCG
	0005D			9299+XFAT	EQU	X'5D'	02-IEXCG
				9300+*			01-IEXCH
				9301+*	NUMERIC 0 - 9		01-IEXCH
				9302+*			01-IEXCH
	00030			9303+XF0	EQU	X'30'	02-IEXCG
	00031			9304+XF1	EQU	X'31'	02-IEXCG
	00032			9305+XF2	EQU	X'32'	02-IEXCG
	00033			9306+XF3	EQU	X'33'	02-IEXCG
	00034			9307+XF4	EQU	X'34'	02-IEXCG
	00035			9308+XF5	EQU	X'35'	02-IEXCG
	00036			9309+XF6	EQU	X'36'	02-IEXCG
	00037			9310+XF7	EQU	X'37'	02-IEXCG
	00038			9311+XF8	EQU	X'38'	02-IEXCG
	00039			9312+XF9	EQU	X'39'	02-IEXCG
				9313+*			01-IEXCH
				9314+*	SPECIAL CHARS		01-IEXCH
				9315+*			01-IEXCH
	00000			9316+XFPLUS	EQU	X'00'	02-IEXCG
	00001			9317+XFMINUS	EQU	X'01'	02-IEXCG
	00002			9318+XFASTER	EQU	X'02'	02-IEXCG
	00003			9319+XFSLASH	EQU	X'03'	02-IEXCG
	00006			9320+XFLBRAC	EQU	X'06'	02-IEXCG
	00007			9321+XFCOLON	EQU	X'07'	02-IEXCG
	00008			9322+XFLSQBR	EQU	X'08'	02-IEXCG
	0000B			9323+XFSCOLON	EQU	X'0B'	02-IEXCG
	00010			9324+XFEQUAL	EQU	X'10'	02-IEXCG
	00011			9325+XFLT	EQU	X'11'	02-IEXCG
	00012			9326+XFGT	EQU	X'12'	02-IEXCG
	00020			9327+XFNOT	EQU	X'20'	02-IEXCG
	00022			9328+XFOR	EQU	X'22'	02-IEXCG
	00023			9329+XFAMPER	EQU	X'23'	02-IEXCG
	00025			9330+XFCOMMA	EQU	X'25'	02-IEXCG
	00026			9331+XFRBRAC	EQU	X'26'	02-IEXCG
	00028			9332+XFRSQBR	EQU	X'28'	02-IEXCG
	0002B			9333+XFBLANK	EQU	X'2B'	02-IEXCG
	0002D			9334+XFPERIOD	EQU	X'2D'	02-IEXCG
	0002E			9335+XFQUOTE	EQU	X'2E'	02-IEXCG
				9336+*			01-IEXCH
	0000C			9337+XFDQUOTE	EQU	X'0C'	02-IEXCG
				9338+*			01-IEXCH
	0002C			9339+XFEXCLM	EQU	X'2C'	02-IEXCG
	0002C			9340+XFPERCT	EQU	X'2C'	02-IEXCG
				9341+*			01-IEXCH
				9342+*	INTERNAL CONTROL CODES		01-IEXCH
				9343+*			01-IEXCH
	00005			9344+XFPOWER	EQU	X'05'	01-IEXCH
	00016			9345+XFASSIGN	EQU	X'16'	01-IEXCH
	00017			9346+XFGOTO	EQU	X'17'	01-IEXCH
	00018			9347+XFFOR	EQU	X'18'	01-IEXCH
	0001D			9348+XFIF	EQU	X'1D'	01-IEXCH
	00027			9349+XFLABEL	EQU	X'27'	01-IEXCH
	00029			9350+XFDELTA	EQU	X'29'	01-IEXCH
	0002C			9351+XFEND	EQU	X'2C'	01-IEXCH
	0002F			9352+XFZETA	EQU	X'2F'	01-IEXCH
	0003E			9353+XFDECPCT	EQU	X'3E'	01-IEXCH
				9354 *			01941001
				9355 *	REGISTER EQUATES		01942001
				9356 *			01943001
				9357	IEZREGS		01944001
	00000			9358+R0	EQU	0	01-IEZRE
	00001			9359+R1	EQU	1	01-IEZRE
	00002			9360+R2	EQU	2	01-IEZRE
	00003			9361+R3	EQU	3	01-IEZRE
	00004			9362+R4	EQU	4	01-IEZRE
	00005			9363+R5	EQU	5	01-IEZRE
	00006			9364+R6	EQU	6	01-IEZRE
	00007			9365+R7	EQU	7	01-IEZRE
	00008			9366+R8	EQU	8	01-IEZRE
	00009			9367+R9	EQU	9	01-IEZRE
	0000A			9368+R10	EQU	10	01-IEZRE
	0000B			9369+R11	EQU	11	01-IEZRE
	0000C			9370+R12	EQU	12	01-IEZRE
	0000D			9371+R13	EQU	13	01-IEZRE
	0000E			9372+R14	EQU	14	01-IEZRE
	0000F			9373+R15	EQU	15	01-IEZRE
				9374 *			01945001
				9375	END		01946001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
ABC1	4	0000004C	00000001	I			166	170B 181B				
ABD1	4	00000068	00000001	I			175	168B				
ABD3	4	00000060	00000001	I			172	167B 186B				
ABD5	4	00000098	00000001	I			191	187B				
ABIG2	4	000055B4	00000001	A	A		8352	8347				
ADHZB1	4	00002FBC	00000001	A	A		4788	4658				
ADERE2	4	000035E0	00000001	A	A		5451	5301				
ADHEB2	4	000035D8	00000001	A	A		5449	5401				
ADHZB1	4	000035DC	00000001	A	A		5450	5426				
ADR	1	00000008		U			127	929 1020M 1030M 1032 1209M 1403 4765M 4773M 4774 4923 4931M 5052 5069M 5070M 5619M 5641M 5669M 6283M 6431 6548M 6550B 6709M 7665M 8018M				
ADREXC	25	000011F2	00000001	X	X		1949	341				
ADRSTC	25	000010AE	00000001	X	X		1910	340				
ADRTTRANS	4	0000409A	00000001	I			6404	5867B 5970B 6339B				
ADRTTR0	4	000040CA	00000001	I			6416	6411B 6413B				
ADRTTR1	4	000040E6	00000001	I			6422	6419M 6420M				
ADRTTR2	4	000040EE	00000001	I			6424	6406M				
ADRTTR3	4	000040F6	00000001	I			6427	6418B				
ADRTTR4	4	00004106	00000001	I			6431	6407M				
ADRTTR5	6	00004112	00000001	I			6435	6429B				
ADRTTR6	6	00004128	00000001	I			6440	6408M 6435M 6436M 6437M				
ADRTTR61	4	0000412E	00000001	I			6441	6433B				
ADRTTR7	4	00004132	00000001	I			6442	6425B				
ADRTTR8	4	0000414A	00000001	I			6448	6409M 6446M				
ADRTTR9	4	0000414E	00000001	I			6449	6443B 6445B				
AJMPCP43	4	000035E4	00000001	A	A		5452	5294				
ALINDCB	4	00000048	FFFFFFFF	A	A		2005	755				
AOPTABE	4	00000618	FFFFFFFF	A	A		2356	277M 310M 2645 3496				
APCHDCB	4	00000060	FFFFFFFF	A	A		2011	753 769				
API	6	000001CA	00000001	X	X		330	1581 2612 4221 4466 4469 6538 7090 7471 7517 7674 8024 8456				
APIMASK	1	00000010		U			1735	1739 1794 4916 5082 5368 5375 5379 5386 5476 5478 7023 7678 7902 8458 8468				
ARRAYBD	1	00000208		U			2535	4670B				
ARRAYM	1	00000004		U			920	992 1007				
ARRTESTA	4	00000EE6	00000001	I			1794	1752B				
ARRTESTT	4	00000EFC	00000001	I			1800	1797B				
ARRTEST1	4	00000EE2	00000001	I			1790	1822B 1826B 3221B 5276B 5917B 7020B 7511B 7585B 7637B 7983B				
ARRTEST2	4	00000F2C	00000001	I			1819	7345B 8146B				
ARRTEST3	4	00000F10	00000001	I			1807	1817B				
AUT2DCB	4	00000068	FFFFFFFF	A	A		2013	227				
AUT3DCB	4	0000006C	FFFFFFFF	A	A		2014	288				
AWC2	4	00003374	00000001	I			5219	5186B				
AWC4	4	0000337A	00000001	I			5224	5231B 5483B				
AWD1	4	00003316	00000001	I			5190	5475B				
AWD2	4	00003382	00000001	I			5227	5191B				
AWE45	4	000033A8	00000001	I			5242	5206M 5207M 5208				
AWF2	4	00003390	00000001	I			5235	5195B				
AWJ1	4	00003368	00000001	I			5215	5193B 5197B 5199B 5225B 5240B				
BCB2	4	0000430E	00000001	I			6663	6660B				
BCD2	4	0000432A	00000001	I			6670	6668M				
BEB2	4	000043A2	00000001	I			6732	6728B				
BEE2	4	000043BC	00000001	I			6738	6733B				
BIAE2	4	000034E8	00000001	I			5366	5334B				
BIAH161	4	000034E0	00000001	I			5363	5352B				
BIAH162	4	000034BA	00000001	I			5354	5364B				
BIAH18	4	000034D8	00000001	I			5360	5355M 5356M 5358M				
BIBA1	4	0000352C	00000001	I			5390	5367B				
BIBG1	4	00003548	00000001	I			5400	5343B 5345B 5395B				
BICA1	4	00003556	00000001	I			5405	5393B				
BICA15	2	0000357E	00000001	I			5415	5413M 5421				
BICF1	4	0000359E	00000001	I			5425	5406B				
BIC2	4	000033CC	00000001	I			5279	2822 5323B 5325B 5328B				
BID4	4	00003472	00000001	I			5330	5284B 5286B				
BIE3	4	00003516	00000001	I			5381	5278B 5333B 5388B				
BIE31	4	0000350E	00000001	I			5379	5331B				
BIE32	4	00003520	00000001	I			5386	5280B				
BIE33	4	000034F8	00000001	I			5370	5377B				
BIE34	4	00003502	00000001	I			5375	5336B				
BIE4	4	0000347A	00000001	I			5332	5282B				
BIG2	2	000033EC	00000001	I			5290	5274 5338B 5361B 5369B 5373B 5376B 5380B 5384B 5387B 5391B 8352				
BIJ2	4	00003404	00000001	I			5298	5292B				
BIK1	4	0000342E	00000001	I			5313	5306B				
BIK2	4	0000341A	00000001	I			5305	5299B				
BIK3	4	00003456	00000001	I			5322	5318B 5320B				
BKB2	4	00003620	00000001	I			5485	5468B				
BKQB1	4	000045E2	00000001	I			6976	6969B				
BNE2	2	00004422	00000001	I			6797	6899B				
BOD1	4	00003644	00000001	I			5525	5521B				
BOE1	4	00003652	00000001	I			5530	5526B				
BOOTYPEM	1	00000003		U			4596	4687				
BOTH	4	00000688	00000001	I			766	751B				
BRR	1	0000000F		U			134	1022M 1027M 1096M 5060M 5061B 5668M 5669 5670 5738M 6243M 6245 6247 6670M 6671B 7615M 7616B 7816M 7817 8039M 8040B 8416M 8417 9088M 9089 9225M 9226				
BRRST	1	00000009C		U			2440	2441				
BUC3	4	000043DA	00000001	I			6760	6774B				
BUE3	2	000043E2	00000001	I			6763	6758B				
BUG3	4	00004400	00000001	I			6772	6759B				
BWB2	4	00004576	00000001	I			6896	6791B				
BWF4	4	000044F2	00000001	I			6854	6818B 6826B				
BWF4B	2	00004562	00000001	I			6890	6840B				
BWF4C	2	00004560	00000001	I			6889	6803B				
BWG3	2	00004516	00000001	I			6867	6837B				
BWG31	4	00004528	00000001	I			6872	6858B 6865B				



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
CP24A	4	00002714	00000001	I			4113	4108B			
CP25	4	0000271A	00000001	I			4123	356 4122U			
CP25A	4	0000272A	00000001	I			4127	4124B			
CP26	4	000043C8	00000001	I			6755	356 6754U			
CP27	4	0000440C	00000001	I			6790	356 6789U			
CP28	4	00004586	00000001	I			6918	357 6917U			
CP29	4	000045C4	00000001	I			6951	357 6950U			
CP3	4	000023FA	00000001	I			3851	350 3850U			
CP3A	4	00002416	00000001	I			3860	3852B			
CP3B	4	00002412	00000001	I			3858	3854B			
CP30	4	000045CE	00000001	I			6968	357 6967U			
CP31	4	000045E8	00000001	I			6992	357 6991U			
CP33	4	00003656	00000001	I			5547	358 5546U			
CP34	4	000032DC	00000001	I			5138	358 5137U			
CP36	4	0000273A	00000001	I			4139	359 4138U			
CP36A	4	0000274A	00000001	I			4144	4139 4150B 4169B			
CP36B	4	0000275A	00000001	I			4149	4142B			
CP36C	4	000027AA	00000001	I			4171	4153B			
CP36D	4	0000277C	00000001	I			4157	4155M			
CP36E	4	00002796	00000001	I			4165	4158B 4174B 4181B			
CP36F	2	00002784	00000001	I			4160	4171			
CP36G	6	000027D6	00000001	I			4180	4175M 4176M 4177M 4178M			
CP38	4	000027E0	00000001	I			4190	359 4189U			
CP38A	4	00002860	00000001	I			4224	4190 4195B 4279B 4290B 4298B			
CP38AA	4	00002828	00000001	I			4422	4307M 4310			
CP38AB	4	0000282C	00000001	I			4423	4308M 4309M			
CP38AC	4	000029D4	00000001	I			4329	4324M			
CP38AD	4	000029E8	00000001	I			4334	4325M			
CP38AE	4	00002B30	00000001	I			4424	4335			
CP38AF	4	00002B46	00000001	I			4430	4343M 4344			
CP38AG	4	00002B34	00000001	I			4425	4352M 4359M 4362 4386			
CP38AH	2	00002B1A	00000001	I			4417	4358 4415M			
CP38AHA	6	00002A42	00000001	I			4359	4357B			
CP38AI	4	00002B3C	00000001	I			4427	4354M 4360M			
CP38AK	4	00002AA4	00000001	I			4384	4363B			
CP38AL	4	00002AAC	00000001	I			4386	4361B 4372B			
CP38AM	4	00002A7C	00000001	I			4374	4370B			
CP38AN	2	00002B44	00000001	I			4429	4376M 4383			
CP38AO	4	00002A9A	00000001	I			4382	4378B			
CP38AP	2	00002A98	00000001	I			4381	4379M			
CP38B	4	000027F0	00000001	I			4194	4193B			
CP38BA	4	00002ABE	00000001	I			4392	4388B			
CP38C	4	00002858	00000001	I			4222	4197B			
CP38D	4	00002968	00000001	I			4300	4201B			
CP38E	6	000029A2	00000001	I			4316	4202B 4339B			
CP38F	4	0000284C	00000001	I			4218	4199B			
CP38G	4	00002814	00000001	I			4204	4233B 4240B 4342B			
CP38H	4	00002820	00000001	I			4207	4236B 4320B 4394B			
CP38J	4	000028D2	00000001	I			4259	4223B			
CP38K	4	0000289C	00000001	I			4242	4226B			
CP38L	4	000029FA	00000001	I			4341	4228B			
CP38M	4	0000288A	00000001	I			4235	4230B			
CP38N	4	00002A1A	00000001	I			4350	4232B			
CP38O	4	000028DE	00000001	I			4262	4260B			
CP38P	4	00002ACC	00000001	I			4396	4261B 4300B			
CP38Q	4	000028F2	00000001	I			4268	4264B			
CP38R	4	00002906	00000001	I			4273	4266B			
CP38S	4	00002932	00000001	I			4284	4281M 4282M			
CP38T	6	0000294E	00000001	I			4292	4286B			
CP38U	2	00002948	00000001	I			4289	4287M			
CP38V	4	00002B20	00000001	I			4420	4292M 4294			
CP38W	4	00002B24	00000001	I			4421	4293M			
CP38X	2	000029BA	00000001	I			4322	4303B			
CP38YA	2	00002B4E	00000001	X	X		4432	4316			
CP38YB	2	00002ABC	00000001	H	H		4390	4382M 4392M			
CP38YD	4	00002B50	00000001	F	F		4433	4396M 4403			
CP38YE	4	00002AEC	00000001	I			4406	4399B			
CP38YF	4	00002AE6	00000001	I			4403	4412B 4418B			
CP38YG	4	00002B0C	00000001	I			4414	4406			
CP38YH	4	00002B04	00000001	I			4411	4408M 4409M			
CP4	4	0000241C	00000001	I			3870	351 3869U			
CP4A	4	0000242E	00000001	I			3876	3871B			
CP4B	4	000025EA	00000001	I			3996	3879B			
CP4C	4	00002468	00000001	I			3891	3883B			
CP4D	4	00002462	00000001	I			3888	3885M 3886			
CP4E	4	000025B4	00000001	I			3980	3894B 3911B 3914B			
CP4F	4	000024B0	00000001	I			3908	3905B 3942B			
CP4G	4	000024C4	00000001	I			3914	3907B 3931B			
CP4H	4	000024B4	00000001	I			3909	3912B			
CP4I	2	000024D2	00000001	X	X		3917	3915M			
CP4J	6	000024F6	00000001	I			3926	3920B 3924B 3936B			
CP4K	4	00002520	00000001	I			3938	3934B 3979B			
CP4L	6	000025AA	00000001	I			3978	3944B 3971B			
CP4M	4	0000255A	00000001	I			3953	3951B			
CP4N	4	00002600	00000001	I			4004	3956M			
CP4P	4	000025F0	00000001	I			3999	3958M 3967			
CP4Q	4	000025F4	00000001	I			4000	3960M			
CP4R	4	000025F8	00000001	I			4001	3961			
CP4S	6	0000259A	00000001	I			3973	3966B			
CP4T	4	00002604	00000001	I			4005	3974			
CP4U	4	000025E0	00000001	I			3992	3983B			
CP4V	4	000025BE	00000001	I			3982	3986B 3990B			
CP4W	6	000025D2	00000001	I			3988	3984B			
CP4ZA	2	000025FC	00000001	X	X		4002	3947M			
CP4ZB	2	000025FE	00000001	X	X		4003	3948M			
CP4ZC	2	00002608	00000001	X	X		4006	3957M			
CP4ZF	2	0000260A	00000001	X	X		4007	3973M			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
CP40	4	00001392	00000001	I			2600	360			
CP40A	4	000013CE	00000001	I			2617	2601 2614B			
CP40B	4	000013B6	00000001	I			2609	2604B			
CP40C	4	000013C2	00000001	I			2613	2606B 2608B			
CP40E	6	000013BC	00000001	I			2612	2615B			
CP40F	4	00001416	00000001	I			2636	2622B 2624B			
CP40G	4	000014D4	00000001	I			2685	2628M 2629M 2630			
CP40H	4	00001EF0	00000001	I			3448	2637B 2639B 2776B 2854B 3191B 3197B 3203B 3308B			
CP40J	4	000014CA	00000001	I			2681	2644B 2677B			
CP40K	4	0000143E	00000001	I			2645	2650B			
CP40L	4	00001458	00000001	I			2652	2648B			
CP40M	4	0000146A	00000001	I			2656	2647B			
CP40Q	4	000021B8	00000001	I			3648	2655B 3601B			
CP40R	4	00001476	00000001	I			2660	2657B			
CP40S	4	000014A0	00000001	I			2670	2658B			
CP40T	4	000014C2	00000001	I			2679	2663B			
CP40U	4	0000148E	00000001	I			2666	2664B			
CP40V	6	00001492	00000001	I			2667	2679X			
CP40W	4	000014BA	00000001	I			2676	2668B 2671B			
CP40X	6	00001F14	00000001	I			3459	2675B 2739B 3259B			
CP41	4	00002B54	00000001	I			4442	360 4441U			
CP41A	6	00002B64	00000001	I			4446	4442 4470B			
CP41B	4	00002BC4	00000001	I			4472	4445B			
CP41C	4	00002BA2	00000001	I			4460	4446M			
CP41D	4	00002BCE	00000001	I			4477	4455B 4457B			
CP41E	4	00002B9E	00000001	I			4459	4462B			
CP41G	6	00002BBA	00000001	I			4469	4475B			
CP41H	4	00002C1C	00000001	I			4497	4490B			
CP41I	4	00002C34	00000001	I			4504	4498B			
CP41J	4	00002C38	00000001	I			4505	4502B			
CP41K	4	00002D22	00000001	I			4563	4509M 4511 4547 4556M 4557M 4561M			
CP41L	2	00002D36	00000001	X	X		4569	4513			
CP41M	4	00002D14	00000001	I			4560	4517B			
CP41N	6	00002CAA	00000001	I			4533	4524B			
CP41P	4	00002C82	00000001	I			4522	4534B			
CP41Q	4	00002D30	00000001	F	F		4567	4525M 4552M 4555			
CP41R	6	00002CCA	00000001	I			4540	4538B			
CP41S	4	00002D00	00000001	I			4555	4531B			
CP41U	4	00002CF6	00000001	I			4552	4543B			
CP41V	2	00002CF2	00000001	I			4549	4546M 4547M			
CP41W	2	00002D34	00000001	X	X		4568	4561			
CP41X	4	00002D1E	00000001	I			4562	4558B			
CP41Z	6	00002D28	00000001	X	X		4566	4459			
CP43	4	000014DC	00000001	I			2694	360			
CP43A	4	00001E9C	00000001	I			3422	2695 2699B 2702B			
CP43B	4	000014F4	00000001	I			2701	2698B			
CP43C	4	00001510	00000001	I			2709	2706B 2812B			
CP43D	4	0000167C	00000001	I			2811	2708B			
CP43E	4	000016A0	00000001	A	A		2822	2709			
CP43F	4	00001532	00000001	I			2719	2717B 2815B			
CP43G	4	00001622	00000001	I			2788	2720B			
CP43H	4	000015C4	00000001	I			2762	2722B			
CP43I	4	00001558	00000001	I			2728	2726M			
CP43J	4	000015A4	00000001	I			2751	2730B			
CP43K	4	0000158C	00000001	I			2743	2731B 2756B 2785B 2801B			
CP43L	2	00001692	00000001	I			2817	2733			
CP43L1	4	00001698	00000001	I			2819	2732M			
CP43M	4	00001584	00000001	I			2740	2738B			
CP43N	4	00001EAE	00000001	I			3428	2741B 2760B 2763B 2770B 2786B 2791B 2795B 3423B			
CP43P	4	000015EE	00000001	I			2776	2724B			
CP43Q	4	0000159E	00000001	I			2748	2745M			
CP43R	4	000015BA	00000001	I			2758	2751			
CP43S	4	000015A8	00000001	I			2752	2800B			
CP43T	4	000015EA	00000001	I			2774	2764M			
CP43U	2	000015E4	00000001	I			2772	2765			
CP43V	6	00001614	00000001	I			2784	2779M 2780M 2781M 2782M			
CP43W	4	00001644	00000001	I			2797	2789B			
CP43X	4	00001B4C	00000001	I			3170	2799 3162B			
CP43Y	6	00001F04	00000001	I			3454	2802B 3170B 3251B 3279B 3404B			
CP43Z	6	00001672	00000001	I			2808	2803M 2804M 2805M 2806M			
CP45	4	000016A4	00000001	I			2830	361			
CP45A	2	00001ECE	00000001	I			3438	2831 2835B 2838B 2841B 2889B 2931B 2936B			
CP45B	4	000016BC	00000001	I			2837	2834B			
CP45C	4	000017BC	00000001	I			2903	2843B			
CP45D	4	00001F70	00000001	I			3484	2844B 2903B 2985B 3000B 3020B 3038B 3110B 3123B 3140B 3148B 3232B			
CP45F	2	000016EC	00000001	I			2849	2847M			
CP45G	6	000016EE	00000001	I			2850	2909B			
CP45H	4	00001836	00000001	I			2943	2850M			
CP45I	4	0000183A	00000001	I			2944	2856M			
CP45J	4	0000183E	00000001	I			2945	2857M 2858M			
CP45K	4	000017D6	00000001	I			2911	2852B			
CP45L	2	00001828	00000001	I			2938	2859 2922			
CP45M	4	00001722	00000001	I			2863	2920B 2926B			
CP45N	4	0000173A	00000001	I			2869	2864B			
CP45P	4	00001796	00000001	I			2893	2866B			
CP45Q	4	0000178E	00000001	I			2891	2870B			
CP45R	6	00001804	00000001	I			2928	2872B			
CP45S	4	0000174A	00000001	I			2873	3084B			
CP45T	4	00001F34	00000001	I			3467	2873B 2895B 2979B 3013B 3060B 3086B			
CP45U	4	00001752	00000001	I			2875	2876			
CP45V	4	00001760	00000001	I			2878	2876M			
CP45W	4	00001764	00000001	I			2879	2901B			
CP45X	4	000018B2	00000001	I			2982	2880B			
CP45XA	4	00001776	00000001	I			2883	2881M			
CP45XB	4	00001EE2	00000001	I			3444	2887B 3175B 3292B			
CP45XC	6	00001816	00000001	I			2933	2894B			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
CP45XD	4	0000179E	00000001	I			2895	3079B				
CP45XF	4	000017A6	00000001	I			2897	2898				
CP45XG	4	000017B4	00000001	I			2900	2898M				
CP45XH	2	000017D0	00000001	I			2908	2906M				
CP45XI	4	000017F6	00000001	I			2922	2912B				
CP45XJ	4	00001832	00000001	I			2942	2916				
CP45XK	4	0000180E	00000001	I			2930	2928M				
CP45XL	4	00001820	00000001	I			2935	2933M				
CP47	4	00001844	00000001	I			2954	361				
CP47A	4	00001EA4	00000001	I			3425	2955 2959B 2962B				
CP47B	4	0000185C	00000001	I			2961	2958B				
CP47C	4	00001A9A	00000001	I			3120	2964B				
CP47D	4	00001892	00000001	I			2974	2967B 2969B				
CP47E	4	0000188E	00000001	I			2973	2970M 2971M				
CP47F	6	00001950	00000001	I			3029	2975B				
CP47G	4	0000191A	00000001	I			3013	2978B				
CP47GA	4	000018EA	00000001	I			2998	2984B				
CP47H	6	000018D4	00000001	I			2992	2988B 3011B 3023B 3027B 3113B				
CP47I	4	000018DE	00000001	I			2994	2992M				
CP47J	4	00001C20	00000001	I			3235	2996B				
CP47K	4	00001A6C	00000001	I			3106	2999B				
CP47L	4	00001908	00000001	I			3007	3003B				
CP47M	4	00001936	00000001	I			3020	3018B				
CP47N	4	0000199E	00000001	I			3052	3029M 3031 3032M 3049M 3054 3091 3100				
CP47P	4	00001976	00000001	I			3038	3034B 3036B				
CP47Q	4	00001A44	00000001	I			3096	3039B				
CP47R	2	00001980	00000001	X	X		3042	3099				
CP47S	4	0000198C	00000001	I			3048	3044B				
CP47T	6	00001A32	00000001	I			3091	3050B				
CP47U	4	000019A2	00000001	I			3053	3094B 3104B				
CP47V	4	00001A22	00000001	I			3086	3059B				
CP47W	4	000019CE	00000001	I			3063	3089B				
CP47Y	4	000019E2	00000001	I			3068	3065B				
CP47YA	4	00001B70	00000001	I			3178	3176M				
CP47YB	2	00001E9A	00000001	X	X		3421	3184				
CP47YC	2	00002014	00000001	X	X		3527	3189M 3295M 3576 3593 3597M 3604 3610 3617 3626				
CP47YD	4	00001F9A	00000001	I			3495	3190B 3296B				
CP47YE	4	00001BA4	00000001	I			3191	3635B				
CP47YF	6	00001EDC	00000001	I			3443	3192B 3204B 3316B				
CP47YG	4	00001BAC	00000001	I			3193	3210B				
CP47YH	4	00001BB8	00000001	I			3197	3634B				
CP47YI	4	00001BC4	00000001	I			3200	3198M 3208				
CP47YJ	6	00002282	00000001	I			3701	3205B 3314B				
CP47YK	4	00001BD6	00000001	I			3207	3735B				
CP47ZA	4	00001A96	00000001	I			3118	3069M				
CP47ZB	2	00001A8C	00000001	I			3115	3068				
CP47ZC	4	00001A92	00000001	I			3117	3070M				
CP47ZD	6	00001A10	00000001	I			3081	3075B				
CP47ZE	4	00001A08	00000001	I			3078	3076M				
CP47ZF	4	00001A1A	00000001	I			3083	3081M				
CP47ZG	4	00001A16	00000001	I			3082	3745M				
CP47ZH	4	00001A3C	00000001	I			3093	3091M				
CP47ZI	6	00001A62	00000001	I			3103	3098M 3099M 3100M 3101M				
CP47ZJ	4	00001A7C	00000001	I			3110	3107B				
CP47ZK	4	00001AAE	00000001	I			3125	3121M				
CP47ZL	2	00001ABA	00000001	I			3129	3122M 3155				
CP47ZM	4	00001AB6	00000001	I			3128	3126B				
CP47ZN	4	00001ACC	00000001	I			3134	3131B				
CP47ZP	4	00001AE2	00000001	I			3139	3135B				
CP47ZQ	4	00001ADE	00000001	I			3138	3136M				
CP47ZR	4	00001AFC	00000001	I			3147	3143B				
CP47ZS	6	00001B16	00000001	I			3155	3151B				
CP47ZT	2	00001B24	00000001	I			3158	3155M				
CP47ZU	4	00001B42	00000001	I			3166	3164M				
CP47ZV	4	00001B58	00000001	I			3173	3171M				
CP47ZW	2	00001EAC	00000001	I			3427	3168B 3180B 3195B 3262B 3294B 3306B 3317B				
CP49	4	00001BE6	00000001	I			3218	362				
CP49_X	6	00001CE0	00000001	I			3291	2809B 3257B 3287B				
CP49A	4	00001EA8	00000001	I			3426	3219 3227B 3230B				
CP49B	4	00001C08	00000001	I			3229	3223B				
CP49C	4	00001C82	00000001	I			3264	3237B				
CP49D	4	00001C36	00000001	I			3240	3238M				
CP49E	4	00001C4E	00000001	I			3247	3242B				
CP49F	4	00001C54	00000001	I			3249	3245B				
CP49G	4	00001C68	00000001	I			3254	3252M				
CP49H	4	00001C72	00000001	I			3259	3250B				
CP49I	4	00001C76	00000001	I			3260	3277B				
CP49J	4	00001CB6	00000001	I			3279	3265B				
CP49K	4	00001C94	00000001	I			3268	3266M				
CP49L	4	00001CAC	00000001	I			3275	3270B				
CP49M	4	00001CB2	00000001	I			3277	3273B				
CP49N	4	00001CC2	00000001	I			3282	3280M				
CP49P	4	00001CDA	00000001	I			3289	3284B				
CP49Q	6	00001CFA	00000001	I			3298	3632B				
CP49R	4	00001D3E	00000001	I			3321	3298M				
CP49S	2	00001D38	00000001	I			3319	3299				
CP49T	4	00001D1A	00000001	I			3308	3301B				
CP49U	4	00001D3A	00000001	I			3320	3302M 3310M				
CP49V	4	00001D42	00000001	I			3322	3309M				
CP49W	4	00001D30	00000001	I			3316	3736B				
CP51	4	00002D38	00000001	I			4600	362 4599U				
CP52	4	00002FC0	00000001	I			4803	363 4802U				
CP54	4	00003038	00000001	I			4858	363 4857U				
CP56	4	0000305A	00000001	I			4883	364 4882U				
CP57	4	0000365E	00000001	I			5572	364 5571U 5799U 5820B				
CP59	4	00003084	00000001	I			4912	364 4911U				
CP6	4	00001348	00000001	I			2572	351 2571U				



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
CP6A	4	0000135A	00000001	I			2578	2573B				
CP6B	4	00001368	00000001	I			2581	3746				
CP61	4	0000397C	00000001	I			5848	365 5847U				
CP62	4	00003204	00000001	I			5043	365 5042U				
CP63	4	00004608	00000001	I			7018	365 7017U				
CP64	4	0000418C	00000001	I			6493	366 6492U				
CP65	4	00004718	00000001	I			7111	366 7110U				
CP66	4	00004736	00000001	I			7134	366 7133U				
CP67	4	0000477E	00000001	I			7172	366 7171U				
CP68	4	000047A4	00000001	I			7199	367 7198U				
CP69	4	000052A2	00000001	I			8144	367 8143U				
CP7	4	0000260C	00000001	I			4016	351 4015U				
CP70	4	000047B0	00000001	I			7218	367 7217U				
CP71	4	000042EC	00000001	I			6612	367 6611U				
CP72	2	000047B8	00000001	I			7234	368 7233U				
CP73	4	000047D8	00000001	I			7258	368 7257U				
CP74	4	00004808	00000001	I			7288	368 7287U				
CP75	4	0000482E	00000001	I			7317	368 7316U				
CP76	4	0000484A	00000001	I			7343	369 7342U				
CP77	4	00004A9A	00000001	I			7509	369 7508U				
CP78	4	00004B92	00000001	I			7583	369 7582U				
CP79	4	00004C20	00000001	I			7635	369 7634U				
CP8	4	00002618	00000001	I			4027	352 4026U				
CP8A	4	00002638	00000001	I			4037	4028B				
CP8B	4	00002620	00000001	I			4029	4041B				
CP80	4	00005026	00000001	I			7919	370 7918U				
CP81	4	00001D48	00000001	I			3331	370				
CP81A	4	00001D7C	00000001	I			3346	3333B				
CP81B	4	00001D54	00000001	I			3334	3348B				
CP81C	6	00001D88	00000001	I			3350	3335B				
CP81D	2	00001D5C	00000001	I			3336	3398B 3406B				
CP81E	4	00001D72	00000001	I			3342	3339B				
CP81F	4	00001DA2	00000001	I			3356	3354B				
CP81G	4	00001E32	00000001	I			3393	3357B 3376B 3379B				
CP81H	2	00001DB2	00000001	I			3360	3365B				
CP81I	4	00001DCA	00000001	I			3367	3361B 3363B				
CP81J	4	00001E1E	00000001	I			3387	3368M 3371M 3380 3385M 3388 3390M				
CP81K	6	00001DDE	00000001	I			3372	3370B				
CP81L	4	00001DF4	00000001	I			3377	3391B				
CP81M	4	00001E0C	00000001	I			3383	3381B				
CP81N	4	00001E22	00000001	I			3388	3384B				
CP81P	4	00001E68	00000001	I			3408	3396B				
CP81Q	6	00001E4C	00000001	I			3399	3409B 3419B				
CP81R	4	00001E56	00000001	I			3401	3399M				
CP81S	4	00001EE6	00000001	I			3445	3405B				
CP81SA	4	00001F6C	00000001	F F			3482	3448M 3451 3468M 3477 3484M 3487				
CP81T	6	00001E86	00000001	I			3415	3411B				
CP81U	4	00001E82	00000001	I			3414	3412M				
CP81UA	4	00001E90	00000001	I			3417	3415M				
CP81WA	4	00001EBC	00000001	I			3433	3429B				
CP81WB	4	00001ED0	00000001	I			3439	3434B				
CP81WE	6	00001F2C	00000001	I			3464	3459M 3460M 3461M 3462M				
CP81WF	4	00001F4C	00000001	I			3474	3470B				
CP81WG	4	00001F54	00000001	I			3476	3472B				
CP81WH	4	00001F58	00000001	I			3477	3485				
CP81WI	4	00001F96	00000001	I			3494	3529B 3539B 3555B 3559B				
CP81WJ	6	00001FB4	00000001	I			3502	3498B				
CP81WK	4	0000208C	00000001	I			3568	3500B				
CP81WL	1	00002338	00000001	X X			3749	3502 3511M 3513				
CP81WM	4	00001FBE	00000001	I			3504	3508B				
CP81WN	4	0000205A	00000001	I			3557	3506B				
CP81WP	6	000021A4	00000001	I			3643	3510B				
CP81WQ	6	00001FDE	00000001	I			3511	3623B				
CP81WR	4	0000231C	00000001	X X			3742	3514				
CP81WS	2	0000220A	00000001	I			3671	3522B 3532B 3547B				
CP81WT	4	00002036	00000001	I			3541	3531B				
CP81WU	4	0000204C	00000001	I			3547	3543B				
CP81WV	4	00002320	00000001	I			3743	3546 3568M 3614 3656M 3667 3690 3706M 3730				
CP81YA	6	00002086	00000001	I			3567	3646B				
CP81YB	4	000020E6	00000001	I			3591	3570B				
CP81YC	4	000020DE	00000001	I			3589	3572B 3582B				
CP81YD	4	00002194	00000001	I			3638	3574M 3575M				
CP81YE	2	00002198	00000001	I			3639	3576M				
CP81YF	2	00002192	00000001	I			3637	3577				
CP81YG	4	0000219C	00000001	I			3641	3584M				
CP81YH	2	0000219A	00000001	I			3640	3585				
CP81YI	2	00002168	00000001	I			3625	3590B 3594B				
CP81YJ	4	0000217E	00000001	I			3631	3592B				
CP81YK	4	0000210A	00000001	I			3601	3598B				
CP81YL	4	00002106	00000001	I			3600	3630B				
CP81YM	4	000021A0	00000001	I			3642	3606M				
CP81YN	4	000021D6	00000001	I			3656	3620B 3683B 3686B 3697B				
CP81YNA	4	0000215E	00000001	I			3621	3617M				
CP81YQ	1	00002339	00000001	X X			3750	3653				
CP81YR	4	0000232A	00000001	I			3746	3657M 3668				
CP81YS	4	00002326	00000001	I			3745	3661				
CP81YT	4	0000222A	00000001	I			3678	3675M				
CP81YU	2	0000225A	00000001	I			3689	3676M 3677M 3680M 3694				
CP81YV	6	00002238	00000001	I			3681	3679B				
CP81YW	4	00002264	00000001	I			3693	3682B				
CP81ZA	4	0000227A	00000001	I			3698	3694M 3695M 3696M				
CP81ZB	4	00002290	00000001	I			3704	3733B				
CP81ZC	4	000022F6	00000001	I			3731	3705B				
CP81ZD	4	00002310	00000001	I			3739	3710M 3726				
CP81ZE	4	00002318	00000001	I			3741	3711M				
CP81ZF	4	000022E4	00000001	I			3725	3718B				
CP81ZG	4	000022DC	00000001	I			3722	3719M 3720M				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
CP81ZH	4	000022F2	00000001	I			3730	3723B				
CP81ZI	4	00002314	00000001	I			3740	3725M				
CP83	4	0000434A	00000001	I			6693	370 6692U				
CP84	4	000042F4	00000001	I			6626	350 351 352 353 358 359 360 361 362 363 364 365 370 371 6625U				
CP85	4	000032B8	00000001	I			5113	371 5112U				
CP86	4	00005054	00000001	I			7947	371 7946U				
CP87	4	0000508E	00000001	I			7981	371 7980U				
CSWE2	1	000000F8		U			2509	4947B				
DECAADD	4	000001DC	00000001	A	A		337	154 4449 5010 5804 5890 6175 6495 6503 6612 6875				
DECAREA	25	00000F8C	00000001	X	X		1875	337				
DECOMP	6	00000D30	00000001	I			1561	1630B 3897B 4073B 5590B 6132B 6693B				
DERE2	4	00002E1E	00000001	I			4665	5451				
DESTROY	1	000000FF		U			919	1015				
DHEB2	4	000052EE	00000001	I			8163	5449 9023B				
DHZB1	4	000058C4	00000001	I			8573	4788 5450 8557B 8560B				
DJH1E43	4	0000151E	00000001	I			2714	5452				
DTSW	1	000000C2		U			2468	2469				
ENDPOOL	4	000000C4	FFFFFFFF	F	F		2142	441				
ENTIER	1	00000140		U			5170	6283B				
ENTRY	1	0000000F		U			133	6397M 6398B 9090M 9091B 9134M 9135B 9155M 9156B				
EODUT2	4	00000074	FFFFFFFF	A	A		2019	156M				
EODUT3	4	00000078	FFFFFFFF	A	A		2020	158M				
EPILOGB	1	000000EC		U			2503	4092B				
EP212	4	00000416	00000001	X	X		454	408M 409M 410 443M 444				
EQD1	4	00002DA0	00000001	I			4631	4603B				
EQD2	4	00002D48	00000001	I			4605	4600 4632B				
EQD4	4	00002D56	00000001	I			4609	4607B				
EQF2	4	00002DCC	00000001	I			4643	4641M				
EQG1	4	00002DE0	00000001	I			4647	4635B				
ERDOUBLE	8	00000420	00000001	D	D		455	423M 424M 425M 426				
ERET	4	00000090	FFFFFFFF	F	F		2120	153M				
ERE2	4	00002E32	00000001	I			4671	4667B				
ERE3	4	00002E60	00000001	I			4685	4675B				
ERJ4	4	00002E88	00000001	I			4696	4686M 4689M 4692M				
ERJ41	4	00002E82	00000001	I			4693	4688B 4691B				
ERR166	4	00000F6C	00000001	I			1852	6755B 6918B 6951B				
ER1	4	00000364	00000001	I			402	397B				
ER2	4	00000368	00000001	I			403	392B				
ER3	6	00000378	00000001	I			408	417B				
ER4	4	0000038A	00000001	I			413	406B				
ER5	4	0000038E	00000001	I			414	411B				
ER6	6	000003D4	00000001	I			436	416B 429B				
ER7	4	0000040A	00000001	I			449	442B				
ESB1	4	00002EA4	00000001	I			4705	4723B				
ESC2	4	00002EE6	00000001	I			4725	4715B				
ESC3	4	00002F86	00000001	I			4769	4734M				
ESD1	4	00002EBC	00000001	I			4711	4706M 4750				
ESE1	2	00002FA2	00000001	I			4776	4719				
ESE2	2	00002F78	00000001	I			4764	4740 4742				
ESE22	4	00002EF6	00000001	I			4730	4760B				
ESE3	4	00002F8C	00000001	I			4771	4730M				
ESE4	4	00002F9E	00000001	I			4775	4700M 4739M 4742				
ESE5	6	00002F90	00000001	I			4772	4736M 4737M 4738M 4739				
ESF4	6	00002F6A	00000001	I			4758	4704M 4749M 4750M 4755M 4756M				
ESH1	4	00002FA4	00000001	I			4777	4717M				
ESJ2	4	00002F7E	00000001	I			4766	4732M				
ESK1	4	00002FAA	00000001	I			4779	4709M				
ETB3	4	00002D68	00000001	I			4613	4746B				
ETE3	4	00002D70	00000001	I			4615	4620B				
ETF2	4	00002D8A	00000001	I			4622	4617B				
ETF4	4	00002D98	00000001	I			4627	4618B				
EWf1	4	00002FD6	00000001	I			4810	4804B				
EXC	4	000001E8	00000001	A	A		341	5504 5813 5901 6161 6588 6881				
FAC2	4	0000304C	00000001	I			4865	4859B				
FAE2	2	00003040	00000001	I			4860	4868B				
FCTVALST	1	00000090		U			2436	1031 2439				
FEB2	4	00003072	00000001	I			4890	4884B				
FEC1	4	00003062	00000001	I			4885	4894B				
FGAB2	4	00003950	00000001	I			5815	5573B				
FGAF1	4	000037A8	00000001	I			5678	5609B 5611B 5614B 5622B 5635B 5638B 5665B				
FGAG1	6	000037B4	00000001	I			5681	5580B				
FGBD1	4	00003818	00000001	I			5709	5693B 5703B 5705B				
FGBD11A	4	00003852	00000001	I			5730	5723B				
FGBGADR	4	00004184	00000001	A	A		6477	5886				
FGBG1	2	00003872	00000001	I			5739	5735B				
FGBG12	4	00003878	00000001	I			5741	5763B				
FGBG20	2	000038C2	00000001	I			5770	5800B 6477				
FGBG22	4	000038DA	00000001	I			5778	5776B				
FGBG25	4	000038F2	00000001	I			5784	5791B				
FGBG27	4	000038FC	00000001	I			5787	5779B 5781B 5783B				
FGBG28	4	0000390C	00000001	F	F		5793	5774M 5784				
FGBG29	4	00003910	00000001	F	F		5794	5773M 5785				
FGBG4	4	00003940	00000001	I			5811	5802B				
FGBH1	4	00003914	00000001	I			5800	5713B 5743B				
FGBH1A	4	00003938	00000001	I			5809	5806B				
FGBK5	4	0000393C	00000001	I			5810	5812B				
FGCB3	4	000036FA	00000001	I			5613	5588B				
FGCD3	4	00003702	00000001	I			5618	5598B				
FGCD34	4	00003706	00000001	I			5619	5595M				
FGCD35	4	0000370E	00000001	I			5621	5593M				
FGCE3	4	00003716	00000001	I			5626	5602B				
FGCF21	4	000036D2	00000001	I			5603	5600B 5639B				
FGCF25	4	000036E6	00000001	I			5607	5604M 5605M				
FGCF33	4	0000373A	00000001	I			5637	5629B				
FGCF34	4	00003746	00000001	I			5641	5596M 5631				
FGCF35	4	0000374A	00000001	I			5642	5630M				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
FGCF4	4	00003752	00000001	I			5647	5627B				
FGCF41	4	0000376E	00000001	I			5654	5648B				
FGCF42	6	0000377E	00000001	I			5660	5656B				
FGCF44	2	00003792	00000001	I			5668	5661				
FGCF45	4	0000379C	00000001	F	F		5672	5660M				
FGOUTPAR	4	00003968	00000001	F	F		5826	5701M 5751M 5752M 5754 5762M				
FGXFC	4	00003964	00000001	X	X		5825	5650				
FKB25	4	000031E4	00000001	I			5017	5023B				
FKC2	4	000031EC	00000001	I			5020	4915B 4919B				
FKF42	2	0000316C	00000001	H	H		4979	4971M				
FKF42A	4	00003168	00000001	I			4977	4973B				
FKF45	4	00003176	00000001	I			4984	5001B				
FKF46	4	00003190	00000001	F	F		4991	4988M				
FKF48	4	00003200	00000001	F	F		5028	4987M 4992				
FKG14	4	000030E4	00000001	I			4941	4935B				
FKG15	4	000030C8	00000001	I			4931	4928M 4929M				
FKG16	4	000030F0	00000001	I			4944	4942M				
FKH1	4	000030F4	00000001	I			4945	4939B 5015B				
FKH2	4	000031D8	00000001	I			5013	4924B				
FKJ2	4	00003106	00000001	I			4951	4912 4917B 4921B 5018B				
FOC2	4	00003984	00000001	I			5850	5848				
FOD4	4	000039D2	00000001	I			5869	5866B 5986B 5988B 6008B 6017B 6024B 6033B				
FOE2PCH	2	00004178	00000001	H	H		6470	5858M 5859 5861M 5913 5918M 5919 5923 5925 5931 5985				
								6444				
FOF4	4	000039DA	00000001	I			5871	5857B 5947B 5963B 5971B 6038B 6045B 6068B 6074B 6079B 6091B				
								6122B 6139B 6153B 6156B				
FOH2	4	000039BA	00000001	I			5863	5910B 5981B				
FORMINUS	2	00002FAE	00000001	X	X		4783	4653				
FORMPM	1	00000030		U			923	933 5722 5734				
FPA1	4	00003B48	00000001	I			5973	5882B				
FPA22	4	000039FA	00000001	I			5880	5878B				
FPA23	4	000039FE	00000001	I			5881	5877B				
FPB21	4	00004086	00000001	I			6395	6391M				
FPB22	4	0000408E	00000001	I			6397	6393M				
FPC5	4	00003A30	00000001	I			5894	5889B				
FPD5	4	00003A3E	00000001	I			5899	5895B				
FPE4	4	00003A4A	00000001	I			5902	5900B				
FPG2	4	00003A12	00000001	I			5886	5884B 5976B				
FPG3	4	00003A2C	00000001	I			5893	5904B				
FPROOCM	1	00000001		U			591	596 601				
FPR0	1	00000000		U			122	607M 620M				
FQA2	4	00003A56	00000001	I			5908	5862B				
FQA2A	6	00003A7E	00000001	I			5918	5916B				
FQD3	4	00003AAC	00000001	I			5931	5914B				
FQE3	4	00003ABE	00000001	I			5937	5932B				
FQF3	4	00003AD2	00000001	I			5942	5939B				
FQG3	4	00003AE2	00000001	I			5946	5943B				
FQG35	4	00003B2E	00000001	I			5965	5954M 5960				
FQG36	6	00003B36	00000001	I			5967	5955M 5956M 5958M 5959M				
FQH4	4	00003B3C	00000001	I			5969	5949B				
FQJ1	4	00003B52	00000001	I			5978	5912B 5922B 5924B 5926B 5928B 5934B 5938B 5941B 5945B 5951B				
								5953B				
FRA3	4	00003B5C	00000001	I			5985	5868B				
FRE24	4	00003B9E	00000001	I			6002	5998M 5999M				
FRF3	4	00003BE0	00000001	I			6023	5990B 5992B				
FRG2	4	00003BBC	00000001	I			6010	6004B				
FRG24	2	00003BD6	00000001	I			6019	6013				
FRG25	4	00003BDC	00000001	I			6021	6011M 6012M				
FRG45	4	00003C00	00000001	I			6032	6028M 6029M				
FRH3	4	00003C08	00000001	I			6035	6026B 6057B 6066B 6105B 6114B				
FSA	1	0000000D		U			132	1021 1022 1027 1031 1033 1096 3856 4092 4670 4765				
								4947 5095 5243 5642 5643 5673 5674 5679 5725 5738				
								5965 5966 6006 6201 6202 6283 6709				
FSAA	4	00003CDE	00000001	I			6104	6098B				
FSAERR	1	000001CC		U			2529	2533 2534 2535 2536 2537 2538 2539				
FSAREA	1	00000000	FFFFFFFF	U			2426	2431 2436 2438 2439 2440 2443 2450 2452 2456 2458				
								2462 2464 2466 2468 2471 2478 2480 2482 2484 2490				
								2492 2494 2497 2499 2501 2503 2505 2507 2509 2511				
								2513 2517 2519 2521 2524 2526				
FSBB	4	00003CEA	00000001	I			6108	6100B				
FSBB1	4	00003CFA	00000001	I			6113	6109B				
FSB1	4	00003C12	00000001	I			6042	5870B				
FSB3	4	00003C72	00000001	I			6070	6043B				
FSB3A	4	00003C7E	00000001	I			6073	6071B				
FSD3	4	00003C46	00000001	I			6058	6053B 6055B				
FSD4	4	00003C4A	00000001	I			6059	6051B				
FSD5	4	00003C6A	00000001	I			6067	6062B 6064B				
FSD6	4	00003C6E	00000001	I			6068	6060B				
FSE1	4	00003D40	00000001	I			6136	6095B 6131B				
FSFJ35	2	00003CA6	00000001	I			6086	6106B 6111B 6116B				
FSF3A	4	00003CA2	00000001	I			6085	6082B				
FSG4	4	00003D0A	00000001	I			6120	6080B				
FSJ2	4	00003CBE	00000001	I			6093	6084B				
FSSUBR	4	00003D18	00000001	I			6126	6046B 6093B 6120B				
FSSUBR1	4	00003D4A	00000001	I			6141	6127B 6129B				
FSSUBR2	4	00003D4E	00000001	I			6142	6135B				
FTB2	4	00003D60	00000001	I			6150	5864B				
FTC2	4	00003D70	00000001	I			6155	6151B				
FTD3	4	00003DB8	00000001	I			6175	6159B				
FTE1	2	00003D8A	00000001	I			6162	6160B				
FTG1	4	00003DD2	00000001	I			6184	6167B				
FTG12	6	00003E0C	00000001	I			6201	6185M 6186M 6195				
FTG13	4	00003E12	00000001	I			6202	6190M 6191M 6192M				
FTG3	4	00003E1A	00000001	I			6208	6253B				
FTG31	4	00003E4A	00000001	I			6220	6213M 6217M 6218M				
FTG32	4	00003E4E	00000001	I			6221	6227B				
FTG33	2	00003E52	00000001	I			6222	6215M 6225M				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
FTG35	6	00003E58	00000001	I			6225	6208			
FTH4	4	00003E66	00000001	I			6229	6223B			
FTH42	2	00003E90	00000001	I			6243	6234M 6237			
FTH43	2	00003E9A	00000001	I			6246	6235M 6236M			
FUB2	4	00003EA2	00000001	I			6250	6164B 6171B 6173B			
FUB3	4	00003F80	00000001	I			6315	6251B			
FUB31	4	00003FAC	00000001	I			6326	6320M 6323M 6324M			
FUB4	4	00003FBA	00000001	I			6330	6315			
FUB41	2	00003FCA	00000001	I			6334	6327M 6331M			
FUB42	4	00003FC6	00000001	I			6333	6328B			
FUD1	4	00003EB6	00000001	I			6258	6169B			
FUD10	6	00003EDE	00000001	I			6268	6265B			
FUD11	4	00003EF2	00000001	I			6272	6297B 6300B			
FUD12	4	00003EC6	00000001	I			6262	6259B			
FUD13	4	00003F24	00000001	I			6287	6262			
FUD14	6	00003F58	00000001	I			6302	6261B			
FUD15	4	00003EEE	00000001	I			6271	6268M 6269M			
FUD16	2	00003F1E	00000001	I			6284	6275M 6276M			
FUD17	4	00003F16	00000001	I			6282	6280B			
FUD18	4	00003F50	00000001	I			6299	6288B			
FUD19	2	00003F46	00000001	I			6295	6293M			
FUD2	4	00003FD0	00000001	I			6339	6254B			
FUF1	4	00004032	00000001	I			6371	6199B 6241B 6285B			
FUF2	2	00003FEC	00000001	I			6349	6335B			
FUG2	6	00004002	00000001	I			6358	6378B			
FUG3	4	0000402A	00000001	I			6366	6304B			
FUNCPM	1	00000003		U			927	951			
FUOTFP	1	00004183	00000001	X X			6476	6383 6385M 6427M			
FUOTRG	1	00004182	00000001	X X			6475	6194M 6233M 6278M 6322M 6327 6332M 6343M 6350 6362 6373			
FUOTSC	2	0000417C	00000001	X X			6472	6361M 6362M 6363M 6364 6365M 6371M			
FXC2	4	00003292	00000001	I			5082	5046B 5048B			
FXE4	4	000032A4	00000001	I			5089	5053B			
FXG3	6	00003254	00000001	I			5066	5055B			
FXG35	4	00003264	00000001	I			5069	5066M 5067M			
FXG36	4	0000327A	00000001	I			5075	5073M			
FXH15	4	0000324A	00000001	I			5060	5056M 5057M			
FXH2	4	000032AC	00000001	I			5094	5076B			
FXJ1	4	00003282	00000001	I			5078	5043 5050B 5062B 5083B 5087B 5096B			
GAC2	4	00004708	00000001	I			7087	7024B			
GAD1	4	00004628	00000001	I			7026	7022B			
GAH2	4	00004670	00000001	I			7044	7034B			
GAH3	4	0000467C	00000001	I			7047	7032B 7045B			
GAJ1	2	00004666	00000001	I			7041	7036M 7039M			
GAJ11	4	00004668	00000001	I			7042	7070B			
GBC2	4	0000469C	00000001	I			7056	7050B			
GBC4	4	00004690	00000001	I			7052	7057B			
GBC5	4	00004650	00000001	I			7036	7054B			
GBD4	4	00004624	00000001	I			7025	7018 7027B			
GBE1	4	000046A4	00000001	I			7059	7030B			
GBF2	4	000046D4	00000001	I			7072	7062B			
GBF3	4	000046E0	00000001	I			7075	7060B 7073B			
GBG1	2	000046CE	00000001	I			7069	7064M 7067M			
GBG11	4	000046B8	00000001	I			7064	7082B			
GBH5	4	00004700	00000001	I			7084	7078B			
GBK4	4	000046F4	00000001	I			7080	7085B			
GDAB3	4	000042D6	00000001	I			6588	6496B			
GDAE1	4	000041A6	00000001	I			6501	6494B			
GDAG1	4	000041D2	00000001	I			6514	6504B 6506B 6508B			
GDAH11	4	000041E4	00000001	I			6520	6512B			
GDAJ1	4	000041EC	00000001	I			6523	6516B			
GDBA1A	4	00004218	00000001	I			6534	6531B			
GDBA2	4	0000426C	00000001	I			6557	6529B			
GDBA3	4	00004224	00000001	I			6539	6527B 6533B 6558B 6560B 6562B			
GDBB15	1	0000421E	00000001	U			6537	6566B			
GDBC2	6	0000421E	00000001	I			6538	6521B			
GDBG45	4	0000424E	00000001	I			6548	6546M			
GDBH4	4	00004258	00000001	I			6551	6544B			
GDBH42	4	00004266	00000001	I			6554	6586B			
GDCA1	4	0000428E	00000001	I			6570	6525B			
GDCC1	4	000042AE	00000001	I			6578	6573B			
GDCG1	6	000042C8	00000001	I			6584	6571B			
GDSA	1	00000009		U			129	1014M	1135M 4938M 4944M 5075M 5621M 7666M 8019M 8306M		
GENRLD	4	000005BC	00000001	I			685	4993B 5758B			
GENTXTP2	6	000005E0	00000001	I			703	619B 2907B 3005B 3009B 3025B 6221B 6294B 6333B 7040B 7789B			
								7840B 8204B 8383B 8544B			
GENTXTP4	4	000005DC	00000001	I			699	606B 1164B 1512B 2874B 2877B 2904B 2929B 3001B 3014B 3021B			
								3082B 3087B 3092B 3111B 6219B 6270B 6325B 7807B 7846B 8519B			
								8568B			
GENTXT5	4	000005D0	00000001	I			693	949B 973B 981B 2631B 2734B 2766B 2860B 2917B 2923B 3071B			
								3303B 3311B 3578B 3586B 3664B 3727B 3806B 3962B 3968B 3975B			
								4295B 4311B 4336B 4345B 4389B 4720B 4741B 5209B 5632B 5662B			
								5755B 5961B 6014B 6196B 6238B 6702B 7660B 8006B 8408B 9063B			
								9070B 9198B 9208B			
GENTXT2	4	000005E6	00000001	I			707	543B 2758B 2848B 2990B 3128B 3145B 3153B 3159B 3247B 3275B			
								3289B 3544B 3688B 3916B 4288B 4380B 4401B 4416B 4548B 4936B			
								4974B 5414B 5657B 6549B 7068B 7878B 8651B 8679B 8731B 8811B			
								8919B 8943B 8969B			
GENTXT4	4	000005EA	00000001	I			711	551B 570B 612B 1013B 1134B 1208B 1258B 1390B 2727B 2754B			
								2845B 2867B 2891B 2896B 2899B 2934B 2972B 2980B 2986B 2993B			
								3007B 3051B 3061B 3077B 3108B 3124B 3132B 3137B 3141B 3149B			
								3172B 3177B 3185B 3233B 3239B 3243B 3267B 3271B 3281B 3285B			
								3386B 3413B 3721B 3855B 4064B 4091B 4156B 4283B 4328B 4333B			
								4410B 4562B 4642B 4669B 4710B 4930B 4943B 4945B 4977B 4990B			
								5068B 5074B 5094B 5359B 5606B 5618B 5620B 5678B 5724B 5736B			
								6000B 6005B 6030B 6394B 6421B 6423B 6430B 6447B 6547B 7384B			
								7401B 7409B 7457B 7530B 7558B 7609B 7729B 7894B 8072B 8305B			
								8311B 8355B 8668B 8734B 8756B 8912B 8928B			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
GENTXT6	4	000005EE	00000001	I			715	699M 707M 711M 717M 1095B 1402B 2746B 2783B 2807B 2882B 2913B 3102B 3156B 3165B 3199B 3253B 3400B 3416B 3463B 3887B 4179B 4693B 4757B 5058B 6282B 6396B 6439B 6669B 7373B 7435B 7487B 7545B 7614B 7711B 7815B 8038B 8058B 8345B 9133B 9154B			
GEN1	4	00000602	00000001	I			720	689B			
GEN2	4	000005FE	00000001	I			719	695B			
GEN3	4	00000658	00000001	I			749	726B 728B 743B			
GEN4	2	0000064C	00000001	I			742	811B 833B			
GEN4A	4	00000652	00000001	I			744	722B 724B			
GEN5	6	00000728	00000001	I			826	832B			
GEN6	4	0000062A	00000001	I			729	789B 792B			
GETMSTO	1	00000114		U			2521	4765B			
GETPARP	6	0000415E	00000001	I			6460	5957B 6010B 6027B 6405B			
GFC2	4	0000472A	00000001	I			7117	7112B			
GHC2	4	0000474A	00000001	I			7139	7136B			
GHC3	4	00004758	00000001	I			7144	7140B			
GHC4	4	0000475E	00000001	I			7146	7150B			
GHC5	4	00004770	00000001	I			7152	7147B			
GJC2	4	0000479C	00000001	I			7181	7173B			
GLF2	4	000047AC	00000001	I			7201	7199			
GNB2	4	0000571A	00000001	I			8452	8145B			
GND2	4	0000572E	00000001	I			8458	8148B			
GND21	4	0000573E	00000001	I			8463	8459B			
GND22	4	00005748	00000001	I			8468	8150B			
GND3	4	00005736	00000001	I			8460	8466B 8469B 8474B			
GNE3	6	00005724	00000001	I			8456	8461B			
GOB3	4	0000587A	00000001	I			8554	8158B			
GOEZ	4	0000560E	00000001	I			8377	8500B 8571B 8751B			
GOE1	4	0000560A	00000001	I			8376	8413B 8483B 8485B 8533B 8654B 8682B			
GOE11	4	00005760	00000001	I			8476	8152B			
GOE111	4	00005778	00000001	I			8482	8477B			
GOE112	4	00005830	00000001	I			8530	8372B 8479B 8481B			
GOE2	2	00005788	00000001	I			8487	8206B 8386B 8528B 8536B 8546B			
GPBN	2	00000A60	FFFFFFFF	H	H		2388	851M 1015M 1123 1125 1129M 1139M 2769M 2888M 3056M 3064 3067M 3343M 3430M 3435M 3495M 5080M 5680M 6664M 6739M 7704M 8028M 8290 8292 8297M 8307M			
GPC3	4	000009D6	00000001	I			1139	1124B			
GPC31	2	000009AA	00000001	I			1127	1140B			
GPC4	4	000009CC	00000001	I			1135	1133M			
GPRA	1	00000003		U			124	4696M 4711 4764 4770 4776 4779M			
GPRB	1	00000005		U			125	4776M 4777M 4778			
GPRC	1	00000006		U			126	4695M 4768 4778M			
GQD3	4	00000A0A	00000001	I			1165	1161M 1162M 1163M 1170 1255M			
GQE3	4	000009EA	00000001	I			1158	1232B			
GQF3	4	00000A0E	00000001	I			1166	1260B			
GRC3	4	00000A5E	00000001	I			1200	1192B			
GRD3	4	00000A86	00000001	I			1209	1010 1012 1206M 1207M			
GRD31	4	00000A72	00000001	I			1205	1201B			
GREGN	2	000001D8	00000001	H	H		335	4616M 4805 4807M 4816 6892 6893M 6931 6932M			
GRE3	4	00000A4A	00000001	I			1194	1211B			
GTD3	4	00000AE0	00000001	I			1259	1254M 1256M 1257M			
GTE3	4	00000ABC	00000001	I			1251	1278B			
GVC2	4	00000B0A	00000001	I			1300	1297B			
GVC21	4	00000B1A	00000001	I			1304	1303M 1309			
GVE2	6	00000B2E	00000001	I			1309	1305B			
GWD3	4	00000B78	00000001	I			1343	1334B			
GWD4	4	00000B6E	00000001	I			1339	1338M			
GWD5	4	00000B58	00000001	I			1333	1340B			
GWD51	4	00000B50	00000001	I			1331	1329M 1330M			
GWD6	4	00000B6A	00000001	I			1338	1348B			
GXC3	4	00000BCC	00000001	I			1391	1388M 1389M			
GXC4	6	00000BD4	00000001	I			1394	1386B			
GXC5	6	00000BFC	00000001	I			1403	1394M 1395M 1396M 1399M			
GXC6	4	00000BEE	00000001	I			1400	1398B			
GZC2	4	00000C18	00000001	I			1426	1423B			
GZC21	4	00000C30	00000001	I			1432	1431M 1437			
GZE2	6	00000C44	00000001	I			1437	1433B			
HAD0	4	00000C88	00000001	I			1467	1477B			
HAD1	4	00000C74	00000001	I			1462	1469B			
HAD2	4	00000C8C	00000001	I			1468	1467M			
HAD3	4	00000C96	00000001	I			1472	1463B			
HAD4	4	00000C68	00000001	I			1459	1457M 1458M			
HALFW	2	00000A64	FFFFFFFF	H	H		2392	3900M 3927 3929M 3932 3938 3940M 3953 4962M 4963 4980M 4998 5000M 5004M 5005 5419M 5420 5715M 5716 6176M 6177 6358M 6359 6387M 6388 6460M 6463 6578M 6579			
HBC2	4	00000CE0	00000001	I			1514	1392B 1404B			
HBC3	4	00000CDC	00000001	I			1513	1508M 1510M			
HEB1	4	000052E6	00000001	I			8161	9018B			
HEC3	4	00005336	00000001	I			8181	8166B			
HEE3	4	000053B4	00000001	I			8215	8213M 8214M			
HEF2	4	0000531C	00000001	I			8174	8172B			
HEF21	4	000057B6	00000001	I			8499	8498M			
HEXFC	4	000042E8	00000001	X	X		6596	6575			
HEXFFF	4	000001E0	00000001	X	X		339	1564 4964			
HFB1	4	00005342	00000001	I			8184	8164B 8182B			
HFB11	2	000053C2	00000001	I			8221	8191B			
HFB12	2	00005394	00000001	I			8205	8199M			
HFB13	4	000053BA	00000001	I			8218	8202B			
HFB14	4	00005390	00000001	I			8204	8219B			
HFD2	6	000053F0	00000001	I			8235	8189B			
HFD3	6	00005412	00000001	I			8244	8237B			
HFE4	4	00005444	00000001	I			8257	8248B			
HFF2	4	000053E8	00000001	I			8232	8227B			
HFG2	4	000053E0	00000001	I			8229	8233B			
HFH3	4	0000542C	00000001	I			8249	8258B			
HFJ3	4	00005440	00000001	I			8255	8252B			
HGA5	4	000054FA	00000001	I			8306	8304M			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
HGB1	4	0000544C	00000001	I			8260	8187B			
HGB2	4	0000551E	00000001	I			8316	8282B			
HGB4	4	0000548C	00000001	I			8290	8286B			
HGB41	4	000054D6	00000001	I			8297	8291B			
HGB5	2	000054DA	00000001	I			8298	8293B			
HGC4	4	000054CE	00000001	I			8294	8308B			
HGD1	4	00005458	00000001	I			8263	8185B 8261B			
HGD2	4	00005490	00000001	I			8279	8264B 8630B			
HGE5	6	00005508	00000001	I			8310	8303B			
HGF5	4	00005512	00000001	I			8312	8310M			
HGG1	4	00005488	00000001	I			8276	8267B			
HGG11	4	00005430	00000001	I			8250	8272B 8274B			
HGH1	4	00005470	00000001	I			8269	8277B			
HHSOURCE	4	00002FB8	00000001	F	F		4787	4655M 4665			
HJB1	4	0000554A	00000001	I			8326	8280B			
HJC1	6	000055B8	00000001	I			8354	8332B			
HJC11	4	000055C2	00000001	I			8356	8354M			
HJH1	6	0000556E	00000001	I			8334	8288B 8295B 8314B 8358B			
HJH11	6	000055A0	00000001	I			8346	8284M 8287M 8294M 8313M 8317M 8318M 8322M 8323M 8328M 8329M			
								8334M 8335M 8336M 8339M 8344M			
HJH111	4	0000557A	00000001	I			8336	8324B			
HJH13	4	0000559C	00000001	I			8345	8338B 8341B			
HKA2	4	00005626	00000001	I			8382	8370B			
HKD1	6	000055CE	00000001	I			8360	8179B			
HKD2	4	000056B6	00000001	I			8419	8368B			
HKF2	4	000056BE	00000001	I			8422	8364B			
HKG2	4	00005604	00000001	I			8373	8404B 8449B			
HKG22	4	000055FC	00000001	I			8371	8514B			
HKH4	2	0000562E	00000001	I			8384	8360M 8361M 8365M 8382M 8419M 8422M			
HKH41	4	0000562A	00000001	I			8383	8363B 8367B 8420B 8423B			
HLB2	4	0000586A	00000001	I			8548	8512B			
HLD1	6	000057BE	00000001	I			8502	8174 8230B 8242B 8251			
HLE21	4	000055A6	00000001	I			8347	8524B 8691B			
HLF2	4	00005872	00000001	I			8551	8508B			
HLF3	4	0000583A	00000001	I			8535	8522B			
HLH3	2	00005864	00000001	I			8545	8538M 8543M			
HLJ4	4	0000580C	00000001	I			8520	8502M 8503M 8504M 8505M 8509M 8515M 8518M 8548M 8551M			
HLJ41	4	00005808	00000001	I			8519	8507B 8511B 8517B 8549B 8552B			
HOB1	4	000060D4	00000001	I			9140	8162B			
HOB11	4	0000611A	00000001	I			9158	9120B 9140B			
HOB2	4	0000613E	00000001	I			9167	9163B			
HOB21	4	0000612A	00000001	I			9162	9160B			
HOB3	4	00006152	00000001	I			9172	9168B			
HOB4	4	00006218	00000001	I			9223	9173M 9197 9207			
HOB5	4	0000621C	00000001	I			9224	9194M 9195M 9204M 9206M			
HOC11	6	000061AC	00000001	I			9194	9179			
HOC31	4	00006100	00000001	I			9151	9141			
HOD1	6	000061CC	00000001	I			9204	9130B 9151B			
HQB1	4	00005F1E	00000001	I			9017	8160B			
HQD2	4	000004CC	00000001	I			540	538M 539M			
HQF21	6	00000536	00000001	I			568	531			
HQG1	2	000004DE	00000001	I			544	542M			
HQG2	4	00000546	00000001	I			571	568M 569M			
HQH1	4	000004E0	00000001	I			545	572B			
HQJ1	4	000004EC	00000001	I			548	546B			
HQJ11	4	000004F8	00000001	I			551	549B			
HTB1	4	00005F26	00000001	I			9020	8555B			
HTRICK	1	00002FB0	00000001	X	X		4784	4656			
HW	1	0000009C		U			2441	6201M 6202			
HYG2	4	000058B8	00000001	I			8569	8565M			
HZC2	4	000058FC	00000001	I			8587	8576B			
HZF1	4	000058E6	00000001	I			8581	8579B			
IAB1	4	00005908	00000001	I			8590	8574B 8588B			
IAC2	4	0000598E	00000001	I			8626	8593B			
IAD3	4	0000599A	00000001	I			8629	8591B 8627B			
IAE1	6	0000593A	00000001	I			8603	8596B			
IAF3	4	00005972	00000001	I			8616	8638B 8640B			
IAG2	4	00005986	00000001	I			8623	8607B			
IAG3	4	000059CA	00000001	I			8642	8633B			
IAH3	4	000059B2	00000001	I			8635	8643B			
IAJ1	4	0000596E	00000001	I			8615	8624B			
IAK1	4	00005982	00000001	I			8621	8618B			
IEC3	6	000059D2	00000001	I			8645	8585B			
IED3	2	000059F0	00000001	I			8652	8645M 8646M 8650M 8657M			
IED31	4	000059EC	00000001	I			8651	8648B 8658B			
IED4	4	000059FE	00000001	I			8657	8649B			
IEX50000	1	00000000	00000001	J			110	147U 2552			
IFC3	6	00005A06	00000001	I			8660	8581 8601B 8617			
IFD3	4	00005A30	00000001	I			8669	8660M 8661M 8662M 8663M 8667M 8684M 8687M			
IFD31	4	00005A2C	00000001	I			8668	8665B 8686B 8688B			
IFD4	4	00005A68	00000001	I			8684	8666B			
IFD41	4	00005A7C	00000001	I			8690	8672B			
IFG3	2	00005A5E	00000001	I			8680	8671B 8674B 8677M 8678M			
IMB1	4	00005638	00000001	I			8387	8526B 8655B 8692B			
IMC4	4	000056C6	00000001	I			8425	8401B 8443B			
IMD2	4	000056A8	00000001	I			8415	8391M 8392M 8406 8407			
IMD4	4	000056CE	00000001	I			8428	8403B 8450B			
IME4	4	000056D6	00000001	I			8431	8397B 8442B			
IMF4	4	00005684	00000001	I			8405	8448B			
IMG4	4	000056DE	00000001	I			8434	8398B 8446B			
IMH4	4	000056AE	00000001	I			8417	8393M 8405M 8425M 8428M 8431M 8434M 8437M			
IMH41	4	000056E6	00000001	I			8437	8400B 8445B			
IMH5	4	000056B2	00000001	I			8418	8406M			
IMH51	6	00005688	00000001	I			8406	8426B 8429B 8432B 8435B 8438B			
INE2	4	000056EE	00000001	I			8440	8395B			
INREGBIT	1	00000040		U			5169	5192 5283 5435			
INTEGTYP	2	00003036	00000001	X	X		4843	4644 4676 4834			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
INTRRM	1	00000060		U			918	987			
IOTAB	1	00000A30	FFFFFFF	X	X		2366	5653M	6072M	6089	6145 6705M
IPB1	4	00005A88	00000001	I			8696	8558B			
IPD2	2	00005C5C	00000001	I			8819	8706B			
IPD21	4	00005C80	00000001	I			8829	8822B	8824B		
IPD3	4	00005BFE	00000001	I			8793	8778B	8787B		
IPD31	4	00005C0A	00000001	I			8796	8795M	8801M	8802	
IPD33	4	00005C06	00000001	I			8795	8831B			
IPE3	4	00005C24	00000001	I			8803	8797B			
IPE31	2	00005C4C	00000001	I			8812	8805M	8810M		
IPH1	4	00005AD4	00000001	I			8716	8715M			
IPH11	4	00005AC2	00000001	I			8711	8709M	8710M		
IPH31	4	00005B82	00000001	I			8760	8717B			
IPH4	4	00005BB2	00000001	I			8772	8761B	8763B	8768B	
IPH41	2	00005C52	00000001	I			8815	8774B			
IPH42	4	00005BC6	00000001	I			8777	8776M			
IPH43	4	00005BC2	00000001	I			8776	8817B			
IPH44	2	00005BEE	00000001	I			8788	8780B	8782B		
IPJ1	4	00005ADC	00000001	I			8718	8813B	8869B	8872B	
IQB1	2	00005B26	00000001	I			8736	8923B			
IQC11	2	00005D40	00000001	I			8884	8828B			
IQC13	4	00005B08	00000001	I			8729	8727M	8728M		
IQC14	4	00005B4C	00000001	I			8746	8745M			
IQD1	2	00005B16	00000001	I			8732	8721M	8730M		
IQD11	6	00005AE8	00000001	I			8721	8770B	8887B		
IQE1	4	00005B22	00000001	I			8735	8733M			
IQE11	6	00005B18	00000001	I			8733	8758B			
IQE2	6	00005B64	00000001	I			8753	8718			
IQE21	4	00005B7A	00000001	I			8757	8753M	8754M	8755M	
IRA1	4	00005D1C	00000001	I			8871	8867B			
IRB1	4	00005C8C	00000001	I			8833	8699B			
IRD1	4	00005C98	00000001	I			8836	8697B	8834B		
IRD11	4	00005D2A	00000001	I			8877	8837B			
IRD12	2	00005D24	00000001	I			8874	8839B	8878B		
IRD13	4	00005CC4	00000001	I			8848	8847M	8855		
IRD14	4	00005CB2	00000001	I			8843	8875B	8882B		
IRF1	4	00005CDA	00000001	I			8854	8849B			
IRF11	4	00005CF6	00000001	I			8861	8858M	8863M	8864	
IRG1	4	00005D0C	00000001	I			8866	8862B			
ISB1	4	00005D4E	00000001	I			8891	8562B			
ISB4	4	00005EA4	00000001	I			8979	8892B	8977B		
ISC2	4	00005E98	00000001	I			8976	8894B			
ISD5	4	00005EFC	00000001	I			9006	8980B			
ISD51	2	00005EF6	00000001	I			9003	8982B	9007B		
ISD52	4	00005EBE	00000001	I			8986	9004B	9010B		
ISE3	4	00005D78	00000001	I			8902	8900M	8901M		
ISE4	4	00005ECC	00000001	I			8990	8988M	8997		
ISF4	4	00005ED8	00000001	I			8993	8991B			
ISF41	4	00005EEE	00000001	I			9000	8994B			
ISF42	2	00005EE4	00000001	I			8996	9001B			
ISG4	4	00005E38	00000001	I			8952	8905B			
ISG401	2	00005F10	00000001	I			9012	8954B			
ISG41	4	00005E4C	00000001	I			8957	8956M	8961M	8962	9014M 9015B
ISH1	4	00005D94	00000001	I			8909	8908M			
ISH11	4	00005D88	00000001	I			8906	8974B	8998B		
ISH2	4	00005DF4	00000001	I			8932	8910B			
ISH3	4	00005E30	00000001	I			8949	8933B	8935B	8941B	
ISH4	4	00005E66	00000001	I			8963	8958B			
ISH41	2	00005E84	00000001	I			8970	8964M	8968M	8972	
ISJ1	4	00005DA6	00000001	I			8913	8911M			
ISJ11	6	00005D9C	00000001	I			8911	8947B	8950B		
ISJ2	2	00005E22	00000001	I			8944	8942M			
ITE1	2	00005DC6	00000001	I			8920	8917M	8918M		
ITF2	4	00005DEC	00000001	I			8929	8925M	8926M	8927M	
ITF21	6	00005DD6	00000001	I			8925	8914			
ITZZ	6	00005DC8	00000001	I			8921	8930B			
IUB1	4	00005F36	00000001	I			9027	8563B			
IUB13	4	0000608A	00000001	I			9115	9112B			
IUB2	4	00006036	00000001	I			9093	9028B	9030B	9032B	
IUB3	4	00006074	00000001	I			9109	9107M	9108M		
IUC1	4	00005F5C	00000001	I			9037	9034B			
IUC11	4	00005F70	00000001	I			9042	9038B			
IUG2	4	00006020	00000001	I			9086	9043M	9062		
IUH2	4	00006024	00000001	I			9087	9059M	9060M	9067M	9068M 9069
IUH21	6	00005FB4	00000001	I			9059	9049			
I1B1	4	00006092	00000001	I			9120	9021B	9093		
I1B13	4	00006228	00000001	I			9227	9017B	9095B	9097B	9099B 9101B 9116B
I1B14	4	0000623C	00000001	I			9232	9229B			
I1B15	4	0000626E	00000001	I			9245	9231B	9235B		
I1B16	4	0000624C	00000001	I			9236	9233B			
I1B17	4	00006276	00000001	I			9247	9243B			
I1C11	4	000060BA	00000001	I			9130	9121			
JAF2	4	000047C6	00000001	I			7238	7236B			
JBUFFER	4	000000CC	00000001	I			227	169B	188B	470B	3985B 4619B 5777B 7149B
JB1	4	000000D4	00000001	I			229	260M	486		
JB2	4	000000E8	00000001	I			239	229B			
JB3	4	00000112	00000001	I			253	155			
JGB2	4	000047FE	00000001	I			7270	7259B			
JGE1	4	000047EA	00000001	I			7264	7273B			
JIB2	4	00004820	00000001	I			7297	7289B			
JIF2	4	00004816	00000001	I			7293	7301B			
JBK2	4	00004842	00000001	I			7325	7318B			
JMC2	2	00004A3A	00000001	I			7466	7347B			
JMC3	4	00004A50	00000001	I			7474	7349B			
JMC31	6	00004A46	00000001	I			7471	7477B			
JNE1	4	00004890	00000001	I			7360	7443B	7464B		
JNE5	4	0000497A	00000001	I			7420	7361B			



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
JNF2	4	0000490E	00000001	I			7391	7363B			
JNF4	4	0000496C	00000001	I			7416	7392B			
JNF41	6	00004970	00000001	I			7417	7421B			
JOB1	4	00004982	00000001	I			7423	7357B			
JOE2	4	000049E2	00000001	I			7445	7424B			
JOE2	6	000049CC	00000001	I			7440	7428B			
JOE2	6	000049BC	00000001	I			7436	7432M 7433M 7434M			
JPB1	4	000049F6	00000001	I			7450	7438B			
JOB2	4	00004A5A	00000001	I			7479	7451B 7453B			
JOB4	4	00004A8E	00000001	I			7491	7481B			
JOE3	4	00004A6A	00000001	I			7483	7493B			
JOE1	4	00004A1A	00000001	I			7458	7454M 7455M 7456M			
JOE2	4	00004A22	00000001	I			7460	7489B			
JOE3	6	00004A84	00000001	I			7488	7484M 7485M 7486M			
JRB3	6	000048AA	00000001	I			7366	7418B			
JRC2	4	000048E8	00000001	I			7380	7371B			
JRC21	4	000048CA	00000001	I			7373	7381B 7389B			
JRC22	4	000048C6	00000001	I			7372	7387B			
JRC3	6	000048CE	00000001	I			7374	7366M 7367M 7372M 7380M 7383 7388M			
JRC4	6	000048F0	00000001	I			7383	7369B			
JRC41	4	000048FA	00000001	I			7385	7383M			
JRF4	4	000048D4	00000001	I			7375	7403B			
JRF41	4	000048E0	00000001	I			7378	7343 7351B 7472B			
JSE2	4	00004946	00000001	I			7405	7399B			
JSE21	4	0000493A	00000001	I			7401	7406B 7414B			
JSE22	4	00004936	00000001	I			7400	7412B			
JSE3	4	0000493E	00000001	I			7402	7393M 7394M 7395M 7400M 7405M 7408 7413M			
JSE4	6	0000494E	00000001	I			7408	7397B			
JSE41	4	00004958	00000001	I			7410	7408M			
JWB2	4	00004AF8	00000001	I			7533	7509			
JWD1	4	00004ABE	00000001	I			7519	7513B			
JWF2	4	00004B86	00000001	I			7566	7523B			
JWG3	4	00004AFC	00000001	I			7534	7527B			
JWG31	4	00004B00	00000001	I			7535	7568B			
JWH1	4	00004B40	00000001	I			7549	7525B			
JWH2	4	00004AF0	00000001	I			7531	7528M 7529M			
JWH21	6	00004AE2	00000001	I			7528	7547B			
JWH3	4	00004AF4	00000001	I			7532	7564B			
JWJ3	6	00004B36	00000001	I			7546	7541M 7542M 7543M 7544M			
JWK1	4	00004B6A	00000001	I			7559	7552M 7553M 7554M 7557M			
JWK12	4	00004B66	00000001	I			7558	7556B			
JWK3	4	00004ABA	00000001	I			7518	7520B			
JYD1	4	00004BC2	00000001	I			7598	7587B			
JYF2	4	00004C18	00000001	I			7619	7602B			
JYH1	4	00004BF6	00000001	I			7610	7607M 7608M			
JYH11	6	00004BE6	00000001	I			7607	7620B			
JYH12	4	00004BE2	00000001	I			7606	7604B			
JYJ3	4	00004C0E	00000001	I			7615	7613M			
JZB1	4	00004BAC	00000001	I			7591	7583 7599B 7617B			
KBB2	4	00004CA2	00000001	I			7673	7635			
KBD1	4	00004CB0	00000001	I			7676	7639B			
KBD2	4	00004CC0	00000001	I			7680	7644B 7649B 7903B 7904B			
KBD21	4	0000501A	00000001	I			7902	7755B			
KBD3	4	00004CC6	00000001	I			7683	7671B 7679B			
KBD31	6	00004D14	00000001	I			7702	7646B 7687B 7757B 7828B			
KBD4	6	00004CA6	00000001	I			7674	7684B			
KBE1	4	00004CCE	00000001	I			7686	7677B			
KBF3	4	00004D4C	00000001	I			7715	7692B			
KBF4	4	00004D68	00000001	I			7722	7690B			
KBG2	6	00004D2A	00000001	I			7707	7694B			
KBG21	6	00004D42	00000001	I			7712	7707M 7708M 7709M 7710M 7718M 7719M			
KBG22	6	00004D34	00000001	I			7709	7720B			
KBG3	6	00004D70	00000001	I			7725	7716B			
KBG31	4	00004D88	00000001	I			7730	7725M 7726M 7727M 7728M			
KBH1	6	00004CF4	00000001	I			7695	7651B 7663B 7713B 7731B 7776B 7866B			
KBH3	6	00004D58	00000001	I			7718	7723B			
KCB1	4	00004DE0	00000001	I			7754	7734B 7748B			
KCB11	4	00004D90	00000001	I			7733	7640B			
KCB12	4	00004DD0	00000001	I			7750	7742B			
KCB13	4	00004DD8	00000001	I			7752	7751M			
KCE11	6	00004E0C	00000001	I			7765	7900B			
KCE112	4	00004DC8	00000001	I			7747	7746M			
KCF2	2	00004E42	00000001	I			7778	7769B			
KCF21	4	00004E5C	00000001	I			7785	7783M 7784M			
KCF4	6	00004EA2	00000001	I			7804	7763			
KCG11	4	00004E32	00000001	I			7773	7801B			
KCG2	2	00004E72	00000001	I			7790	7787M 7788M			
KCH2	4	00004E8A	00000001	I			7797	7796M			
KCH21	2	00004E74	00000001	I			7791	7809B			
KCH4	4	00004EB8	00000001	I			7808	7804M 7805M 7806M			
KDB1	4	00004EC0	00000001	I			7811	7762B			
KDC4	4	00004F4A	00000001	I			7847	7844M 7845M			
KDC41	6	00004F3A	00000001	I			7844	7811			
KDE31	2	00004F08	00000001	I			7830	7814B			
KDF3	2	00004F34	00000001	I			7841	7833M			
KDG11	4	00004ED0	00000001	I			7815	7842B 7849B			
KEB1	4	00004F56	00000001	I			7851	7760B			
KEC2	4	0000500E	00000001	I			7898	7852B			
KEF2	2	00004F9C	00000001	I			7868	7859B			
KEF21	4	00004FB6	00000001	I			7875	7873M 7874M			
KEF31	6	00004FF0	00000001	I			7891	7853			
KEG1	4	00004F8C	00000001	I			7863	7889B			
KEG21	2	00004FC8	00000001	I			7879	7876M 7877M			
KEG3	4	00005006	00000001	I			7895	7891M 7892M 7893M			
KEH2	4	00004FE0	00000001	I			7886	7885M			
KEH21	2	00004FCA	00000001	I			7880	7896B			
KFB2	4	00004C98	00000001	I			7668	7642B			

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
KFE11	4	00004C90	00000001	I			7665	7652M 7659				
KFE12	4	00004C94	00000001	I			7666	7658M				
KH10	2	000001BE	00000001	H	H		324	2583 4812 6342 7775 7827 7865				
KH15	2	000001C0	00000001	H	H		325	3900 3941 4451 4494				
KH2	2	000001B4	00000001	H	H		319	1464 3659 4209 4610 6929				
KH20	2	000001C2	00000001	H	H		326	4273 4332				
KH290	2	000001C4	00000001	H	H		327	3436 4862				
KH324	2	000001C6	00000001	H	H		328	7218				
KH4	2	000001B6	00000001	H	H		320	4707 4731 4733 4735 4759 5879 5880 5881 6465				
KH5	2	000001B8	00000001	H	H		321	176 1167 1578 1717 1824 2855 2982 3016 3139 3377				
								3476 3569 3731 3880 3899 4745 4985 4999 5354 5699				
								5995 7048 7076 7355 7483 7961 8091 8111 8156 8170				
								8241 8321 8330 8600 8614 9061 9196 9247				
KH614	2	000001C8	00000001	H	H		329	4215 7595 7964				
KH8	2	000001BA	00000001	H	H		322	1363 2793 8773				
KH9	2	000001BC	00000001	H	H		323	3364				
KIB2	4	00005044	00000001	I			7929	7920B				
KIF2	4	00005038	00000001	I			7925	7930B 7932B				
KIF21	4	00000784	00000001	I			868	859B				
KIF22	4	00000760	00000001	I			857	862B 866B				
KIF24	4	000007BE	00000001	I			885	876B				
KIF25	4	0000079A	00000001	I			874	879B 883B				
KOC14	4	00004380	00000001	I			6709	6701				
KOC15	8	00004384	00000001	C	C		6710	6697M				
KOC16	2	0000438C	00000001	H	H		6711	6700M				
KONSUM	2	000005F6	FFFFFFF	H	H		2346	4611M 4612 8244M 8246 8603M 8605				
KP1	2	0000074C	00000001	P	P		838	783				
KUB2	4	00005076	00000001	I			7958	7948B				
KUE1	4	00005062	00000001	I			7952	7962B				
KUE2	4	00005084	00000001	I			7964	7953B				
KWE1	4	00005140	00000001	I			8031	7988B				
KWE3	4	00005200	00000001	I			8077	8032B				
KWF2	4	00005184	00000001	I			8048	8034B				
KWF21	4	000051D0	00000001	I			8065	8049B				
KWF22	4	000051F4	00000001	I			8073	8069M 8070M 8071M				
KWF23	6	000051BC	00000001	I			8060	8075B				
KWG1	4	00005154	00000001	I			8036	8098B				
KWG11	6	0000524C	00000001	I			8097	8117B				
KWG12	4	00005150	00000001	I			8035	8016B 8063B				
KWG13	4	00005114	00000001	I			8015	7995B				
KWG2	4	00005190	00000001	I			8051	8079B				
KWH1	4	00005162	00000001	I			8039	8037M				
KWH2	6	000051B6	00000001	I			8059	8054M 8055M 8056M 8057M				
KWJ3	6	00005134	00000001	I			8027	7981 7985B 8025B 8046B				
KXB1	4	0000520C	00000001	I			8081	7989B				
KXB3	4	0000525E	00000001	I			8103	8082B				
KXC2	4	00005230	00000001	I			8090	8084B 8088B				
KXC4	4	0000527A	00000001	I			8110	8104B 8108B				
KXG2	4	00005256	00000001	I			8100	8093B				
KXG4	4	0000529A	00000001	I			8119	8113B				
KXH2	4	00005244	00000001	I			8095	8101B				
KXH21	4	00005292	00000001	I			8116	8106B				
KXH22	4	00005248	00000001	I			8096	8086B				
KXH23	4	0000528E	00000001	I			8115	8120B				
KYB2	4	00005124	00000001	I			8021	7991B 7993B				
KYF1	6	000050D6	00000001	I			7999	7997B				
KYF11	4	0000511C	00000001	I			8018	7999M 8005				
KYF12	4	00005120	00000001	I			8019	8004M				
LABARRM	1	0000000C		U			921	1003				
LAT	1	0000000C		U			131	1020 4931 5060 5069 5619 5641 5643 5674 5966 5967				
								6397 6548 6670 7615 7665 8018 8039 9090 9134 9155				
LATAB	4	0000061C	FFFFFFF	A	A		2357	2358 2777 3207 3445 3830 3901 4075 4965 5006 5651				
								5717 6576 6672 6695 6736 7700 7820 8043 9083 9131				
								9152				
LATBEG	1	0000006C		U			2129	1777 2130				
LATNR	1	0000001C		U			2128	2129				
LATRES	4	00000EB8	00000001	I			1765	3449B 3884B 6540B 6667B 7611B 8036B				
LDRET	4	00000E74	00000001	F	F		1702	1665M 1699 1773M 1779				
LDVWPLC	4	00000DF0	00000001	I			1665	6416B				
LDVWR	4	00000EF6	00000001	I			1699	1684B 1695B				
LDVW1	4	00000E3A	00000001	I			1686	1668B				
LDVW1A	4	00000E4E	00000001	I			1691	1687B				
LDVW2	4	00000E64	00000001	I			1697	1692B				
LDVW3	4	00000E2E	00000001	I			1682	1670B 1679B 1690B				
LDVW4	4	00000E2A	00000001	I			1681	1676B				
LISTE	4	00004432	00000001	I			6802	6801B				
LN	2	000000A2	FFFFFFF	R	A		2130	1765 1767M 1771 1778M 2790 2792 2794M 3450 5118 6541				
								6546 6668 6676 7612 7613 8037 8045				
LNG	1	00000002		U			2068	1397				
LOADPP	1	000000FC		U			2511	6709B				
LOADR1	4	00004050	00000001	I			6382	5885B 6341B				
LOADR1R	4	00004188	00000001	F	F		6478	5908M 5920 6382M 6399 6404M 6449				
LOADR2	6	00004064	00000001	I			6387	6384B				
MAXCH	4	00000902	00000001	I			1051	1517B 2682B 3715B 4168B 4327B 4640B 6583B 7431B 7447B 7537B				
								7551B 8053B 8067B 8389B 9046B 9176B				
MAXCH1	4	00000934	00000001	I			1066	1056B 1059B 1061B				
MAXOVERF	2	00000A62	FFFFFFF	H	H		2389	1058 2390				
MCHSAV	4	0000093C	00000001	F	F		1071	1051M 1066				
MOVEOPDK	4	00000E80	00000001	I			1717	2584B 3648B 3881B 4647B 5113B 5850B 6520B 6523B 6539B				
MOVEOPTK	4	00000E78	00000001	I			1712	2578B 2617B 3787B 3836B 3876B 4016B 4029B 4127B 4145B 4447B				
								4452B 4654B 4810B 4886B 5144B 5215B 6501B 6554B 6589B 7117B				
								7134B 7174B 7264B 7266B 7293B 7925B				
MOVERET	2	00000E84	00000001	I			1718	1713B				
NDECK	1	00000020		U			2086	721 750 752				
NEXTERR	4	000000C0	FFFFFFF	A	A		2141	403 421 433 440M 446M				
NLOAD	1	00000040		U			2083	721 750 4224				
NOASSIGN	1	00000008		U			5168	5330				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
NOTEST	1	00000004			U		2110	1093 3130 4377 4387 4666				
NUMBBL	1	00000A59	FFFFFFFF	X	X		2384	257 259M 4521M 4533				
NUMP	1	00000003			U		909	940 946 971 988M				
NXTOPT	4	00000132	00000001	I			271	473B 2649B 3494B				
NX1	4	00000150	00000001	I			280	275B 306M 471 495				
NX2	4	00000162	00000001	I			288	280B				
NX3	4	000001A8	00000001	I			312	278B				
NX4	4	00000196	00000001	I			307	157				
OERR21	1	00000220			U		2539	1033B				
OERR22	1	00000224			U		2537	5243B 6006B				
ONEENTRY	2	00000A56	FFFFFFFF	H	H		2378	559 984 1006 1194 1310 1332 1438 1460 1541 1652				
								2379 2640 2660 2665 2669 2672 2718 3030 3096 3352				
								3355 3475 3600 3608 3713 4165 4166 4269 4314 4323				
								4348 4365 4491 4495 4496 4500 4560 4638 4677 4680				
								4689 4718 4835 4838 5013 5089 5434 5610 5807 6360				
								6389 6438 6454 6464 6580 7046 7074 7429 7445 7535				
								7549 7605 7848 8009 8035 8051 8065 8089 8109 8173				
								8183 8193 8262 8342 8387 8570 8589 8628 8704 8747				
								8769 8835 8886 8903 8978 9042 9044 9047 9052 9172				
								9174 9177 9181				
OPBUFB	4	00000610	FFFFFFFF	A	A		2354	271 308M				
OPDADR	2	00000A4C	FFFFFFFF	H	H		2372	1562M 1563 1633 6121 6133 6141M 6142M 6143				
OPDLN	2	00000A4E	FFFFFFFF	H	H		2373	1565M 3902 4074 5594 6694				
OPDPBN	2	00000A4A	FFFFFFFF	H	H		2371	1561M 3945 5591				
OPDREC	4	000007D2	00000001	I			931	1649B 1666B 2634B 2839B 2965B 3231B 4151B 4331B 4397B 4493B				
								4633B 4922B 5051B 5212B 5285B 5582B 5731B 6165B 6414B 7028B				
								7352B 7354B 7521B 7600B 7647B 7688B 7758B 7986B 8153B 8155B				
OPDREC1	4	0000081E	00000001	I			960	935B				
OPDREC3	4	000008A2	00000001	I			1003	961B				
OPDREC4	4	0000086E	00000001	I			984	956B 977B 979B 1008B 1016B				
OPDREC5	4	000008CE	00000001	I			1014	1011M 1012M				
OPDREC6	4	000008F2	00000001	I			1031	980				
OPDTEST	4	00000F50	00000001	I			1842	2602B 2696B 2832B 2956B 3220B 4140B 4191B 4443B 4601B 4913B				
								5044B 5275B 5849B 7019B 7200B 7344B 7510B 7584B 7636B 7982B				
OPERAND	1	00000001			U		2069	165 175 1842 1849 1853 1856 2572 3332 3779 3821				
								3851 3870 3908 4027 4050 4054 4107 4123 4208 4614				
								4858 4883 4893 5079 5138 5185 5307 5467 5520 5524				
								5572 5803 5819 5891 6178 6493 6659 6727 6731 6790				
								6796 6968 6993 7111 7135 7172 7258 7288 7317 7919				
								7947 8144 8455				
OPREL	4	000001B0	00000001	F	F		315	272 312M				
OPTABS	4	000000FC	FFFFFFFF	F	F		2163	274				
OPTCO	4	0000016C	00000001	F	F		293	283 499				
OUTAREA2	4	000000AC	FFFFFFFF	F	F		2133	766 776M				
PAGEHD1	121	0000010C	FFFFFFFF	C	C		2172	2173 2177				
PAGEHD2	121	00000185	FFFFFFFF	C	C		2182	2183				
PAGEHD3	121	000001FE	FFFFFFFF	C	C		2189	2190				
PARAM	1	000000F0			U		926	940				
PARCOUNT	2	00003976	00000001	H	H		5830	5740M 5741 5748M				
PBNHDL	2	00000D5C	00000001	I			1597	3791B 3893B 4089B				
PBNHDL1	4	00000D72	00000001	I			1607	1600B				
PBNHDL2	4	00000D7A	00000001	I			1609	1602B				
PBNP	1	00000002			U		910	947 965 986M 996M				
PBT	1	0000000B			U		130	1135 4944 5075 5621 5643 5674 5966 7666 8019 8306				
								8312				
PBTAB1	255	00000478	FFFFFFFF	C	C		2269	2270				
PBTAB2	510	00000278	FFFFFFFF	C	C		2267	1611M 1614				
PBTAB3	1	00000630	FFFFFFFF	C	C		2364	1055 1057M 4088M				
PIDENT	4	000000B0	FFFFFFFF	C	C		2134	782				
PLACE14	4	000005BC	FFFFFFFF	F	F		2342	715M 744				
PLPRST	4	00000D9C	00000001	I			1629	3346B 4052B 4125B 5522B 6661B 6729B				
PLPRST1	4	00000DCE	00000001	I			1647	1636B				
PLPRST3	4	00000DEA	00000001	I			1654	1640B 1645B 1648B 1651B				
PLPRST4	4	00000DC4	00000001	I			1642	1632B				
PPCODE	4	000008DA	00000001	I			1020	946M 947M 948				
PRECMASK	1	00000A58	FFFFFFFF	X	X		2381	703 2382				
PRELPOOL	1	00000278	FFFFFFFF	C	C		2207	2140 2141 2208 2266				
PROC	1	00000004			U		2065	3853				
PROCM	1	000000C0			U		924	936 976				
PROCTEST	4	00000F16	00000001	I			1810	1803B				
PROCTES1	4	00000F22	00000001	I			1814	1799B				
PROCWPS	1	00000900	00000001	X	X		1036	978 5581M 5583M 5730M 5732M				
PROGARR	4	00000EAC	00000001	I			1750	1742B				
PROLOG	1	000000E0			U		2497	1022B 3812B				
PROLOGFP	1	000000DC			U		2495	5738B				
PROLOGP	1	000000DC			U		2494	2495				
PROLPBN	1	000000A9			U		2450	1021M 5642M 5673M 5725M 5965M				
PROLREG	1	000000A0			U		2443	5643M 5674M 5966M				
PUNCHOUT	6	000006AA	00000001	I			779	764B				
PUT\$1	4	00000670	00000001	I			755	777B				
PUT1	2	00000674	00000001	I			758	754B				
RADRFREM	1	00000001			U		590	608 611				
RANDP	2	00000720	00000001	H	H		820	826				
REALTYPM	1	00000002			U		4597	4690				
REGADRM	1	00000080			U		929	988 1650 5805				
RELADR	4	00004154	00000001	I			6454	6432B				
RETADR	4	00000578	FFFFFFFF	F	F		2341	530M 565 852M 863M 865 880M 882 888 1128M 1136				
								1155M 1174 1190M 1197 1228M 1247M 1275M 1306M 1308 1378M				
								1384M 1434M 1436 1502M 1511M 1514 1519 1852M 1860 8789M				
								8791 8850M 8852 8959M 8971 9159M 9201 9205M 9220				
RETADR3	4	00000A94	00000001	F	F		1213	1202M 1204				
RETARR2	4	00000F4C	00000001	F	F		1828	1819M 1825				
RETPROG	1	000000E4			U		2499	5095B				
RET69	4	00006280	00000001	F	F		9251	9227M 9248				
RET691	2	00006284	00000001	H	H		9252	9236M 9242				
RII	2	00000A46	FFFFFFFF	H	H		2369	540M 548 608 611M 873 887M 990M 1193M 1200 1304				
								1309M 1331M 1339 1345 1362M 1653M 3394M 4270M 4315M 4349M				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
								4369 4374M 4497 4501M 5014M 5090M 5317 5321M 5326M 5437M 5808M 6279 6455M 7653M 7752M 7875M 7886M 7996 8015M 8711M 8716 8729M 8746M 8777 8796 8802M 8848 8855M 8861 8864M 8902M 8909 8957 8962M 8990 9033 9037 9041M 9073M 9109M 9167 9171M				
RIIADRM	1	00000001		U			922	990 1653 5090 5317 5808 6455				
RIR	2	00000A48	FFFFFFFF	H	H		2370	545 563M 596 601M 856 870M 1432 1437M 1459M 1468 1474 6264 6267M 6289 6292M 6299M 6344M 7747M 7785M 7797M 7823M 7839M 7898M 8190 8215M 8499M 9158 9162 9166M 9191M 9210M				
RLDFLAG	1	0000000C		U			681	828				
RLDT	1	00000718	00000001	X	X		816	686				
ROPTB	4	00000614	FFFFFFFF	A	A		2355	307 309M				
ROUTINE1	6	00000984	00000001	I			1118	1205B 1230B 1249B 1540B 1542B 1683B 2625B 3471B 3573B 3660B 4265B 4527B 4554B 5203B 5353B 5603B 5994B 7416B 7482B 7534B 7606B 7717B 7803B 8050B 8229B 8253B 8283B 8320B 8333B 8619B 9066B				
ROUTINE2	4	000009DE	00000001	I			1155	7051B 8094B 8218B 8232B 8268B				
ROUTINE3	4	00000A3A	00000001	I			1190	1005B 1157B 1277B 1536B 3474B 4268B 5363B 5613B 7420B 7491B 7566B 7619B 7722B 8077B 8255B 8316B 8327B 8621B				
ROUTINE4	4	00000A98	00000001	I			1228	7056B 8100B 8203B 8228B 8276B				
ROUTINE5	4	00000AAC	00000001	I			1247	7079B 8119B 8634B 8868B 8995B				
ROUTINE6	4	00000AE8	00000001	I			1275	7084B 8114B 8642B 8871B 9000B				
ROUTINE7	2	00000AF8	00000001	I			1295	3181B 3595B 4504B 5408B 6187B 6229B 6272B 7075B 8110B 8631B				
ROUTINE8	2	00000B3A	00000001	I			1325	541B 3492B 4164B 4364B 4414B 8116B 8580B 8584B 8597B 8623B 8639B 8720B 8916B 9056B 9127B				
ROUTINE9	4	00000B96	00000001	I			1378	881B 1307B 3628B 4163B 4371B 8790B 8799B 8851B 8865B 8949B 8960B 8992B 9036B 9040B 9055B 9126B 9170B				
ROUTIN10	4	00000B8E	00000001	I			1362	550B 610B 1203B 6281B 7998B				
ROUTIN11	2	00000C06	00000001	I			1421	6210B 6317B 7047B 8090B 8192B 8265B				
ROUTIN12	4	00000C50	00000001	I			1453	621B 3491B 6216B 6226B 6296B 8096B 8178B 8238B 8257B 8273B 9148B				
ROUTIN13	4	00000CAE	00000001	I			1502	864B 1435B 8225B 9147B 9165B 9185B				
ROUTIN14	2	00000CAC	00000001	I			1490	547B 600B 6266B 6291B 9161B				
ROUTIN15	4	00000CFC	00000001	I			1535	532B 603B 3486B 4172B 4407B 6184B 6209B 6263B 6316B 7764B 7812B 7854B 8175B 8240B 8582B 8599B 8719B 8915B 9050B 9122B 9142B 9180B				
ROUT151	4	00000D1C	00000001	I			1544	1538B				
RSRCB	4	00000604	FFFFFFFF	A	A		2351	253 254M				
RUTI	4	000005C0	FFFFFFFF	F	F		2343	989M 1210M 1252M 1380 1678M 1688M 3194M 3613M 3615 4271M 4385M 4507M 5319 5327M 5410M 6310M 6377M 7864M 8613M 8750M 9078M				
RUTIADR	1	00000020		U			912	989M				
RUTR	4	000005E4	FFFFFFFF	F	F		2344	562M 598 1159M 1504 1681M 6354M 7774M 7826M 8492M 9215M				
R0	1	00000000		U			9358	730M 731 735 737 738 2679 2704B 2755M 2772B 2817B 2849 2875M 2878 2905M 2908M 2915B 2930 2938B 2941B 2991 3006 3010 3026 3052 3083M 3088M 3093 3097B 3112 3115B 3125M 3129 3146 3154 3158 3160M 3186M 3319B 3336B 3387M 3414M 3418M 3427B 3437B 3438B 3621M 3639M 3689M 3698M 3722M 3928B 4252M 4253M 4254M 4289M 4381M 4417 4429M 4549M 4563M 5469M 5471M 5474M 5697M 5698M 5700M 5770M 5773 6763M 6768M 6769 6867M 6868M 6869M 6870M 6871				
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Symbol Cross Reference													PAGE	120
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X50			Symbol Cross Reference						PAGE 122			
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Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
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								6063 6065 6070 6073 6078 6081 6083 6087 6094 6097				
								6099 6104 6108 6113 6121 6126 6128 6130 6163 6166				
								6168 6170 6176 6179M 6250 6252 6258 6260 6287 6302				
								6303 6306 6309M 6310 6340M 6342M 6353 6358 6364 6366M				
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								6505 6507 6515 6524 6526 6528 6530 6532 6538 6541				
								6542 6552 6557 6559 6561 6572 6574 6579 6584 6662M				
								6673 6676 6730M 6734 6738M 6760M 6764 6765M 6767 6769M				
								6795M 6844M 6854M 6857M 6864M 6868 6870 6871M 6885 6886M				
								6891M 6892M 6930M 6931M 6935M 6973M 7021 7023 7029 7031				
								7033 7035 7042 7044 7048M 7049 7052M 7059 7061 7063				
								7072 7076M 7077 7080M 7090 7116M 7263M 7322M 7346 7348				
								7353M 7355M 7356 7358 7360 7362 7364 7377 7378M 7391				
								7393 7423 7425 7437 7440 7441 7442 7450 7452 7454				
								7459 7460 7461 7462 7463 7471 7479M 7480 7483M 7492				
								7512 7517 7522 7524 7526 7528 7532 7538 7539 7540				
								7555 7560 7561 7562 7563 7567 7586 7601 7603 7612				
								7638 7641 7643 7648 7650 7652 7655 7673M 7674 7676				
								7678 7683M 7689 7691 7693 7695 7698 7702 7703M 7705				
								7707 7709 7715 7725 7727 7733 7735 7738 7739 7741				
								7754 7759 7761 7766 7767 7773M 7774 7775M 7792 7804				
								7813 7818 7822M 7825M 7826 7827M 7831 7851 7856 7857				
								7863M 7864 7865M 7881 7891 7902 7924M 7961M 7987 7990				
								7992 7994 7999 8001 8011 8012 8013 8014 8024 8031				
								8033 8041 8045 8048 8060 8061 8062 8068 8071 8074				
								8078 8081 8083 8085 8087 8091M 8092 8095M 8097 8103				
								8105 8107 8111M 8112 8115M 8147 8149 8154M 8156M 8157				
								8159 8163 8165 8167 8168M 8170M 8181 8184 8186 8201				
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								8321M 8326M 8330M 8331 8337 8340 8354 8376M 8378 8379				
								8380 8390 8410 8411 8412 8456 8458 8460M 8468 8478				
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								8587 8590 8592 8594 8598M 8600M 8603 8604 8605 8609M				
								8610 8613 8614M 8616 8626 8632 8696 8698 8701 8723				
								8741 8749M 8750 8760 8762 8764 8779 8781 8784 8807				
								8821 8823 8825 8833 8866 8891 8893 8896 8904 8911				
								8917 8921 8925 8932 8934 8937 8945 8946 8965 8972				
								8976 8993 9027 9029 9048M 9053 9057 9061M 9076 9077M				
								9078 9079 9080 9081 9082 9094 9096 9098 9100 9103				
								9124 9128 9144 9149 9178M 9183 9192 9196M 9213 9214M				
								9215 9216 9217 9218 9219 9228 9230 9232 9234 9237				
								9240M 9245M 9247M				
SAVEAREA	4	00000000	FFFFFFFF	F	F		2000	2405				
SAVECIRI	4	000035C2	00000001	I			5442	5349B 5400B 5425B				
SAVELT	4	00000748	00000001	F	F		837	749M 763				
SAVOUTA	4	000000A8	FFFFFFFF	F	F		2132	720 762M 767 3811M				
SAVRT	4	000008FC	00000001	F	F		1035	934M 952 991				
SAVTRREI	4	00000588	00000001	F	F		624	595M 615 1743M 1747 1751M 1790M 1807				
SCHDL	4	00000954	00000001	I			1086	4113B 4129B 4861B 5009B 5527B 6919B				
SCHDLR	4	00000980	00000001	F	F		1102	1086M 1099				
SCHDL1	2	00000978	00000001	H	H		1097	1092M 1094B				
SCPTAB	4	000001EC	00000001	A	A		350	209 2600 2694 2710 2830 2954 3218 3331 3841 3860				



Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
								8542M 8543 8764M 8765M 8767 8809M 8810 8967M 8968 9045M 9075M 9076 9175M 9189M 9190M 9191 9212M 9213 9237M 9238M 9239				
WPLACE	2	00000A6A	FFFFFFFF	H	H		2395	569 605 1118M 1163 1196M 1206 1257 1694M 1698M 2626 3478 3574 3662 4177 4280 4350 4408 4529 4530M 4556 5204 5355 5604 5996 6185 6217 6268 6323 6419 6435 7364M 7365M 7367 7417M 7485 7543 7607 7718 7806 7844 7893 8056 8317 8322 8328 8334 8504 8662 8755 8927 9057M 9059 9067 9128M 9149M 9192M 9194 9204				
XFASSIGN	1	00000016		U			9345	5305 7235 8236 8263 8516 8523 8595 8629 8685 8690				
XFASTER	1	00000002		U			9318	7294 8556				
XFCOLON	1	00000007		U			9321	6920				
XFCOMMA	1	00000025		U			9330	1689 3930 4623 4674 4803 5872				
XFDELTA	1	00000029		U			9350	3909 4955 6553				
XFEND	1	0000002C		U			9351	4055				
XFEQUAL	1	00000010		U			9324	8385 8637				
XFFOR	1	00000018		U			9347	5778				
XFGOTO	1	00000017		U			9346	5782 7237				
XFIF	1	0000001D		U			9348	5780				
XFLBRAC	1	00000006		U			9320	3906 7152 7265				
XFLT	1	00000011		U			9325	8396 8441				
XFMINUS	1	00000001		U			9317	7139 8362 8506 8521 8647 8664 8670				
XFPLUS	1	00000000		U			9316	4069				
XFPOWER	1	00000005		U			9344	7176 8161 9020				
XFRBRAC	1	00000026		U			9331	4030 5689 6150				
XFRSQBR	1	00000028		U			9332	4198 4225 4606				
XFSCOLON	1	0000000B		U			9323	5525 6772 6860				
XFSLASH	1	00000003		U			9319	8188 8366				
XFZETA	1	0000002F		U			9352	166 185 3982 4615 5775 7146				
YPLACE	2	00000A6E	FFFFFFFF	H	H		2397	7358M 7359M 7366 7375M 7376 7395 7425M 7426M 7432 7448M 7449M 7456 7462 7484				
ZEROW	2	00000A50	FFFFFFFF	H	H		2374	870 887 1196 1694 2654 3394 3528 3562 3673 3981 4093 4616 5114 6542 6584 6893 6932 7765 7855				

Register References (M=modified, B=branch, U=USING, D=DROP, N=index)

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0(0)	544	730M	731	735	737	738	1051	1066M	1259M	1391	2755M	2849	2991	3052	3125M	3129	3146	3154
3158	3160M	3186M	3387M	3414M	3418M	3621M	3639M	3689M	3698M	3722M	4252M	4253M	4254M	4289M	4381M	4417	4429M	
4549M	4563M	4764M	5415M	5469M	5471M	5474M	5697M	5698M	5700M	5770M	5773	6202M	6203M	6204M	6244M	6246M	6248M	
6284M	6763M	6768M	6769	6867M	6868M	6869M	6870M	7069M	7879M	7895M	8652M	8669M	8680M	8732M	8735M	8757M	8812M	
8913M	8920M	8929M	8944	8970M														
1(1)	200M	201	202M	203M	203N	206M	207M	207N	208M	209N	232M	233	239M	247N	248N	249N	283M	284
292M	300N	301N	302N	307M	308	310	410M	413M	414	490M	491	499M	500	533M	534M	535M	537	
720M	725	727	730	736	738M	753M	755M	758M	759	762	767M	768	769M	772M	773	776	779	
780	781	782	784	785	786	787	790N	791	808	825	826	827	828	829M	831	1051	1066M	
1127M	1130M	1131M	1132	1563M	1564M	1565	1609M	1610M	1611N	1750M	1751	1765M	1766M	1767	1777M	1778	2585M	
2586M	2587	2588M	2588N	2589	2590M	2590N	2591	2626M	2627M	2627N	2628	2645M	2646	2703M	2704M	2705	2709M	
2712B	2777M	2778	2792M	2793M	2794	2803	3030M	3031M	3032	3063M	3066M	3066N	3069	3096M	3097M	3098	3171	
3193M	3194	3198	3207M	3208M	3209N	3252	3280	3309	3337M	3341M	3342N	3358M	3360	3388M	3389M	3389N	3390	
3444M	3445M	3446N	3455M	3456M	3456N	3503M	3504M	3504N	3505	3507	3509	3517	3525M	3535M	3551M	3558	3560	
3561	3562	3567	3568	3614M	3616	3618	3619M	3622M	3643	3658	3671M	3672M	3673	3681	3685M	3693M	3702M	
3703M	3703N	3704	3706	3707	3717	3720	3730M	3731M	3732	3829M	3830M	3831	3885	4078M	4081M	4081N	4082M	
4083M	4084M	4088	4093M	4096M	4243M	4244M	4245M	4246	4253	4274M	4275M	4276M	4276N	4277	4280M	4281	4304M	
4305M	4306M	4307	4322M	4323M	4324	4325	4326	4350M	4351M	4351N	4352	4353M	4353N	4354	4384M	4385	4458M	
4459N	4462M	4480M	4481M	4482M	4483M	4484	4519M	4520M	4521	4528M	4529M	4530	4541M	4542	4544M	4544N	4545M	
4546	4553	4658M	4660B	4671M	4672M	4673	4698M	4699M	4700	4701M	4702M	4703M	4704	4705M	4706	4707M	4708	
4709	4712M	4713M	4714M	4716	4744M	4745M	4747	4753M	4754	4766	4767	4768M	4769	4821M	4822M	4823M	4824M	
4824N	4825	4831M	4832M	4832N	4833	4967M	4968M	4969M	4970M	4971	5204M	5205M	5206	5294M	5296B	5301M	5303B	
5401M	5403B	5426M	5428B	5470M	5472M	5474	5658M	5698M	5700M	5701	5702	5852M	5853M	5854M	5854N	5855	5860	
5874M	5875M	5879M	5880M	5881M	5996M	5997M	5998	6353M	6354	6376M	6377	6395M	6672M	6675N	6736M	6737N	6798M	
6799M	6800M	6801N	6884M	6885M	6886	8298M	8299M	8300M	8301	8347M	8350B	8700M	8701M	8702	8703M	8708	8712M	
8725M	8726M	8727	8732M	8735M	8736M	8737M	8738M	8739	8740M	8741	8742M	8744	8748M	8750B	8757M	8778M	8773	
8786	8788	8792M	8793M	8798	8800M	8803M	8804	8815M	8820M	8827	8830	8840M	8841M	8842M	8844	8845	8846	
8853M	8859M	8860	8874M	8879M	8880M	8881M	8913M	8920M	8929M	8965M	8966M	8967	8983M	8984M	8985M	8987	8989	
9003M	9008M	9009M	9086M	9089	9223M	9226												
2(2)	201M	204M	205M	205N	206	228M	248	254	271M	276M	277	301	309	391M	402M	404	405M	414N
415M	427M	428	434M	435	439N	536M	537M	538	543M	551M	570M	606M	612M	619M	703	718N	808	
810M	827	830M	856M	858M	860M	863	865M	873M	875M	877M	880	882M	948M	972M	980M	1013M	1051	
1066M	1095M	1134M	1164M	1208M	1258M	1390M	1402M	1512M	1597M	1598M	1607M	1612	1613M	1614N	2630M	2727M	2733M	
2746M	2754M	2758M	2765M	2783M	2807M	2845M	2848M	2859M	2867M	2874M	2877M	2882M	2891M	2896M	2899M	2904M	2907M	
2913M	2916M	2922M	2929M	2934M	2972M	2980M	2986M	2990M	2993M	3001M	3005M	3007M	3009M	3014M	3021M	3025M	3051M	
3061M	3068M	3077M	3082M	3087M	3092M	3102M	3108M	3111M	3124M	3128M	3132M	3137M	3141M	3145M	3149M	3153M	3156M	
3159M	3165M	3172M	3177M	3185M	3199M	3233M	3239M	3243M	3247M	3253M	3267M	3271M	3275M	3281M	3285M	3289M	3299M	
3359M	3360	3362	3364M	3367	3386M	3400M	3413M	3416M	3463M	3496M	3497	3502	3507	3509	3513	3520N	3521N	
3528	3542	3544M	3546M	3561	3564N	3566	3568	3577M	3585M	3614M	3656	3661M	3662	3663	3667M	3671	3678	
3685N	3688M	3690M	3693N	3709M	3710	3711	3712N	3716M	3716N	3719	3721M	3725	3726M	3805M	3855M	3887M	3916M	
3961M	3967M	3974M	4064M	4091M	4156M	4179M	4283M	4284M	4294M	4310M	4328M	4333M	4335M	4344M	4380M	4386M	4401M	
4410M	4416M	4459M	4460	4505M	4507	4548M	4562M	4642M	4669M	4693M	4710M	4719M	4740M	4757M	4779M	4930M	4936M	
4943M	4945M	4974M	4977M	4990M	4992M	5058M	5068M	5074M	5094M	5208M	5359M	5414M	5606M	5618M	5620M	5631M	5657M	
5661M	5678M	5699M	5700	5724M	5736M	5754M	5757M	5859M	5860M	5861	5960M	6000M	6005M	6013M	6030M	6058	6067	
6145M	6195M	6219M	6221M	6237M	6270M	6282M	6294M	6325M	6333M	6394M	6396M	6421M	6423M	6430M	6439M	6447M	6547M	
6549M	6669M	6674M	6675	6701M	6735M	6737	7040M	7068M	7373M	7384M	7401M	7409M	7435M	7457M	7487M	7530M	7545M	
7558M	7609M	7614M	7659M	7711M	7729M	7789M	7807M	7815M	7840M	7846M	7878M	7894M	8005M	8038M	8058M	8072M	8204M	
8305M	8311M	8345M	8355M	8383M	8407M	8519M	8544M	8568M	8651M	8668M	8679M	8707M	8708M	8709	8714M	8715	8722M	
8723M	8724M	8726	8731M	8734M	8743M	8744M	8745	8756M	8775M	8776	8789	8791M	8794M	8795	8807M	8808M	8809	
8811M	8816M	8819M	8825M	8826M	8827	8829M	8830M	8843M	8845M	8847	8850	8852M	8854M	8858	8884M	8885	8898M	
8899M	8900	8906M	8908	8912M	8919M	8928M	8943M	8955M	8956	8959	8969M	8971M	8986M	8987M	8988	8996M	8997M	
9013M	9014	9062M	9069M	9133M	9154M	9197M	9207M											
3(3)	227M	247	257M	258M	259	272M	273M	274	276	288M	300	311M	312	390M	396M	401M	406M	416M
422M	423	437M	438	450M	451	532M	602M	686M	719M	725	727	740B	779	786	787	788	860M	
861M	877M	878M	964M	965M	966M	967	968M	969M	970	1009M	1010M	1011	1051	1053M	1054M	1055N	1057N	
1066M	1548B	1843B	2602M	2696M	2832M	2956M	3220M	3486M	3512M	3513M	3515	3518M	3519M	3519N	3520M	3521	3522M	
3532M	3547M	3557M	3558	3563M	3564M	3565	3605M	3606	3609M	3610M	3611M	3613N	3615M	3615N	3616	3618M	3622	
3644M	3645	3650M	3651M	3651N	3652	3656	3667M	3672N	3674M	3675	3676	3680	3690M	3691M	3699M	4100M	4171M	
4191M	4406M	4443M	4518M	4522M	4522N	4523	4533	4535	4601M	4696M	4711	4764	4770	4776	4779M	4913M	5044M	
5275M	5849M	5886M	5887B	6208M	6262M	6315M	7019M	7200M	7344M	7510M	7584M	7636M	7764M	7812M	7854M	7982M	8175M	
8195M	8197M	8199	8200	8208M	8209M	8210M	8212	8582M	8719M	8783M	8784M	8785M	8786	8915M	8936M	8937M	8938M	
8939	8940	9050M	9120M	9122M	9130M	9140M	9142M	9151M	9159	9180M	9201M	9202B	9205	9220M	9221B			
4(4)	152M	153	155M	156	157M	158	169M	188M	192M	261B	313B	437	451M	452B	461M	470M	473M	530
531M	541M	547M	550M	565M	566B	595	600M	603M	610M	615M	616B	621M	685M	693M	718M	745B	852	
864M	881M	888M	889B	932B	934	937B	939B	941B	945M	952M	953B	963M	991M	993B	995B	999B	1004B	
1005M	1051	1052M	1055	1057	1058	1060	1063M	1066M	1067B	1086	1099M	1100B	1121B	1126B	1128	1136M	1137B	
1155	1157M	1174M	1175B	1190	1197M	1198B	1203M	1205M	1228	1230M	1247	1249M	1275	1277M	1286	1307M	1308M	
1311B	1341B	1346B	1378	1434	1435M	1436M	1439B	1470B	1475B	1502	1517M	1519M	1520B	1566B	1582B	1616B	1629	
1630M	1633M	1634M	1635M	1637M	1642M	1649M	1654M	1655B	166									

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)																X390 3.1.04 2012/08/17 13.13									
5(5)	8268M	8273M	8276M	8283M	8316M	8320M	8327M	8333M	8373M	8389M	8452M	8463M	8471M	8530M	8564M	8567M	8580M	8581M								
	8584M	8597M	8599M	8617M	8623M	8631M	8634M	8639M	8642M	8718M	8720M	8790M	8799M	8851M	8865M	8868M	8871M	8914M								
	8916M	8949M	8960M	8992M	8995M	9000M	9017M	9022M	9036M	9040M	9046M	9049M	9055M	9056M	9066M	9093M	9116M	9121M								
	9126M	9127M	9141M	9147M	9148M	9161M	9165M	9170M	9176M	9179M	9185M	9227	9241M	9246M	9248M	9249B										
	149M	151U	2582B	2592B	2620B	2683B	3344B	3431B	3441B	3681	3790B	3792B	3839B	3892B	3997B	4033B	4035B	4114B								
6(6)	4130B	4147B	4248B	4250B	4255B	4257B	4461B	4467B	4487B	4550B	4564B	4608B	4625B	4629B	4681B	4776M	4777M	4778								
	4808B	4839B	4863B	4888B	4956B	5011B	5120B	5148B	5150B	5152B	5217B	5477B	5479B	5488B	5528B	5690B	5873B	6555B								
	6591B	6666B	6677B	6707B	6926B	6933B	6936B	6974B	7119B	7138B	7142B	7148B	7153B	7157B	7177B	7179B	7184B	7268B								
	7295B	7323B	7328B	7593B	7596B	7927B	7956B	7966B	8029B																	
	790	809M	2676	2740	3209	3260	3446	3746M	3747	3831	3903	4076	4695M	4768	4778M	4949	4966	4976								
7(7)	4987	5007	5115	5655	5682	5718	5753	6551	6675	6696	6737	7701	7821	8044												
	559M	560	984M	985	1006M	1060	1062M	1168	1194M	1310M	1332M	1438M	1460M	1541M	1611	1614M	1652M	2640M								
	2641	2660M	2661	2665M	2666	2669M	2672M	2673	2681	2718M	3182	3351M	3352M	3355M	3475M	3600M	3602	3605M								
	3607M	3607N	3608M	4165M	4166M	4167	4269M	4314M	4317	4322	4348M	4365M	4491M	4495M	4496M	4500M	4510	4560M								
	4638M	4639	4641	4645	4677M	4678	4680M	4717	4718M	4835M	4836	4838M	5013M	5089M	5313M	5419	5434M	5442								
8(8)	5610M	5807M	6177M	6359M	6360M	6361	6388M	6390	6438M	6454M	6578	6580M	6581M	6581N	6582	7046M	7074M	7376M								
	7429M	7430	7445M	7446	7448	7535M	7536	7549M	7550	7605M	7697M	7848M	8009M	8010	8035M	8051M	8052	8065M								
	8066	8089M	8109M	8173M	8183M	8193M	8262M	8377	8387M	8388	8570M	8589M	8628M	8704M	8747M	8769M	8835M	8886M								
	8903M	8978M	9042M	9043	9044M	9045	9047M	9052M	9075	9172M	9173	9174M	9175	9177M	9181M	9212	9236	9239M								
	9242M																									
9(9)	166	172M	179	180M	185	191M	191N	195M	202	253M	255	256M	408	553M	614M	1020M	1030M	1032								
	1087	1088M	1088N	1209M	1403	1598	1599	1601	1607	1608M	1689	2579	2719	2721	2723	2868M	2892M	2966								
	2994M	3008M	3109M	3161	3244	3249	3264	3272	3286	3428	3433	3440	3545M	3637	3640	3788	3789	3799								
	3804	3877	3878	3891	3906	3909	3930	3982	3988	3989M	3992M	3999	4004M	4055	4069	4128	4146	4198								
	4225	4423M	4430	4453	4519	4606	4615	4622M	4623	4655	4656M	4665M	4674	4765M	4773M	4774	4803	4887								
10(A)	4931M	4955	5069M	5145	5216	5525	5607M	5619M	5641M	5669M	5689	5775	5778	5780	5782	5787M	5791M	5872								
	6150	6283M	6431	6548M	6550B	6590	6697	6706M	6709M	6860	7118	7137	7139	7146	7152	7175	7267	7592								
	7665M	7926	7954	8018M	8027																					
	176M	177	179	534N	554	555	556	557	558	561	562	598	931	933	936	938	940	946								
	947	951	960	965	971	976	986	987	988	989	992	994	996	1003	1007	1014M	1118	1120								
11(B)	1125	1129	1130	1135M	1156M	1159	1167M	1169	1170	1171	1172	1173	1191	1210	1229M	1231	1248M	1250								
	1252	1276M	1535	1537	1539	1544	1547	1561	1562	1578M	1579	1581	1631	1650	1667	1669	1672	1675								
	1678	1681	1686	1688	1691	1698	1717M	1718	1739	1741	1794	1796	1798	1800	1802	1810	1812	1820M								
	1824M	1855M	2577M	2583M	2587N	2591N	2603	2605	2607	2612	2621	2623	2635	2638	2642	2643	2646	2652								
	2656	2662	2667	2670	2674	2680	2707	2716	2725	2726	2729	2732	2737	2743	2745	2752	2762	2764								
12(C)	2779	2780	2788	2790	2797	2805	2811	2813	2814M	2814N	2840	2842	2850	2851	2853M	2853N	2855M	2856								
	2857	2863	2865	2869	2871	2879	2881	2886	2893	2911	2928	2933	2963	2968	2970	2974	2976M	2976N								
	2977	2982M	2983	2992	2995M	2995N	2998	3016M	3017	3029	3033	3035	3048	3049	3053	3054	3055	3057M								
	3057N	3058	3070	3074	3076	3081	3106	3120M	3120N	3134	3136	3139M	3147M	3147N	3163	3164	3174	3176								
	3179	3183	3184	3188	3193N	3222	3235M	3235N	3236	3238	3261	3266	3291	3293	3298	3338	3340	3342M								
13(D)	3347M	3347N	3350	3353	3356	3362	3369	3372	3374	3375	3382N	3395	3397	3399	3408	3410	3412	3415								
	3422M	3422N	3425M	3425N	3426M	3426N	3443	3450	3454	3459	3460	3467M	3467N	3469	3476M	3490	3497	3499								
	3530	3541	3567	3571	3581	3584	3589	3591	3603	3604	3612N	3629	3631	3649	3653	3657	3658M	3659M								
	3668M	3701	3703	3734	3786M	3825	3828	3838M	3875M	3875N	3880M	3886	3895	3896M	3896N	3898M	3899M	3950								
	4000	4040M	4053M	4053N	4062	4077M	4077N	4083N	4085M	4085N	4097M	4097N	4112M	4126M	4144M	4152	4155	4161N								
14(E)	4173	4176	4194	4196	4204	4205	4206	4207M	4207N	4221	4227	4229	4235	4242M	4244	4246	4249	4251								
	4262	4263M	4263N	4271	4272	4273M	4275N	4277N	4285	4287	4292	4293	4302	4305N	4308	4316	4319	4330M								
	4330N	4332M	4343	4355	4356	4367M	4383	4384N	4393	4398	4422M	4444	4451M	4454	4456	4466	4469	4477								
	4478	4479	4481	4484N	4485	4488	4489	4492M	4494M	4505N	4512	4513	4514	4515	4516	4525	4526M	4535								
	4536	4537	4540	4552	4553M	4555M	4605M	4609M	4611	4612M	4613M	4634	4644	4646	4648	4649	4650	4651								
15(F)	4652	4676	4679	4685M	4687	4690	4725M	4727	4748M	4751	4812M	4813	4815	4816	4822N	4829	4834	4837								
	4867M	4892M	4914	4916	4918	4923	4928	4929	4933	4938M	4944M	4950	4951	4953	4954	4958	4959	4980								
	5003M	5022M	5022N	5045	5047	5052	5054	5056	5057	5066	5067	5071N	5075M	5078M	5082	5114	5116	5118								
	5143M	5190	5192	5194	5196	5213	5230M	5230N	5235	5236	5237	5238	5239	5277	5279	5283	5293M	5300M								
	5308M	5315	5316M	5319	5322	5324	5327	5330	5332	5335	5342	5344	5350M	5351	5354M	5357	5358	5366								
16(G)	5368	5375	5379	5386	5392	5394	5405	5410	5416	5417	5418	5420	5421	5432	5435	5469	5470	5476								
	5478	5523M	5574	5576	5578	5587	5597	5599	5601	5608	5621M	5626	5628	5630	5637	5647	5649N	5660								
	5681	5683	5687	5709M	5710M	5710N	5711	5722	5733	5734	5805	5809M	5809N	5851	5853N	5855	5856	5858								
	5863	5869	5871M	5871N	5875N	5876	5892M	5892N	5894	5902M	5902N	5909	5911	5915	5918	5927	5933									

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)																X390 3.1.04				2012/08/17 13.13			
11(B)	7952	7954	7965	8027	8059	8073	8161	8171	8188	8236	8247	8263	8271	8356N	8362	8366	8369	8371						
	8381M	8385	8396	8399	8402	8415	8418	8441	8444	8447	8457M	8470M	8473M	8476	8482	8506	8510	8513						
	8516	8521	8523	8525	8556	8559	8561	8569N	8578	8595	8606	8629	8637	8647	8653	8664	8670	8685						
	8690	9020	9085M	9086N	9136M	9157M	9223N																	
	154M	203	205	207	1135N	2580M	2580N	3436M	3525	3535	3551	3996M	4031M	4210	4212M	4213	4215M	4422N						
	4448	4449M	4450M	4657M	4862M	4885M	4944N	5010M	5075N	5117M	5146M	5258M	5504M	5547M	5621N	5643	5674	5804M						
12(C)	5813M	5890M	5901M	5966	6161M	6175M	6495	6502	6503	6514M	6588M	6612M	6875M	6878M	6881M	6992M	7218M	7595M						
	7666N	7964M	8019N	8306N	8312N																			
	209M	210B	1020N	2571U	2600M	2694M	2710M	2728N	2784	2808	2830M	2944N	2954M	3166N	3173N	3200N	3218M	3254N						
	3268N	3282N	3322N	3331M	3417N	3464	3747	3778U	3820U	3841M	3842B	3850U	3860M	3861B	3869U	3888N	4015U	4026U						
	4049U	4106U	4122U	4138U	4189U	4423N	4441U	4599U	4659M	4802U	4857U	4882U	4911U	4931N	5042U	5060N	5069N	5112U						
	5137U	5184U	5257U	5273U	5295M	5302M	5402M	5427M	5466U	5473M	5475N	5483N	5503U	5519U	5546U	5571U	5619N	5641N						
13(D)	5643	5674	5769D	5770	5771M	5772U	5785M	5795D	5799U	5847U	5966	5967	6397N	6492U	6548N	6611U	6625U	6658U						
	6670N	6692U	6726U	6754U	6789U	6901M	6902B	6917U	6950U	6952M	6953B	6967U	6976M	6977B	6991U	7017U	7110U	7133U						
	7171U	7198U	7217U	7233U	7239M	7240N	7241M	7242B	7257U	7287U	7316U	7342U	7508U	7582U	7615N	7634U	7665N	7918U						
	7946U	7980U	8018N	8039N	8143U	8349M	9090N	9134N	9155N															
	148U	553B	614N	1021	1022B	1027B	1031N	1033N	1096N	2686N	2868N	2892N	2914N	3008N	3109N	3133N	3244N	3272N						
	3286N	3812N	3856N	4001N	4005N	4065N	4092N	4424N	4426N	4428N	4431N	4670B	4765N	4947N	5095N	5243N	5642	5643						
14(E)	5673	5674	5679N	5725	5738N	5965	5966	6006N	6201	6202	6283N	6709N												
	233M	234	235M	251M	284M	285	286M	304M	491M	492	493M	500M	501	502M	544M	571M	685	687M						
	688M	693	694M	715	716M	718	732	734	739M	742M	744M	749	760M	763M	766M	768	774M	853M						
	854M	855M	857M	871M	872M	874M	949M	973M	981M	1031M	1032	1158M	1159N	1160M	1161	1166M	1202	1204M						
	1251M	1252N	1253M	1254	1255	1295M	1298M	1299M	1300	1302	1325M	1326M	1328	1335M	1336	1344M	1363M	1379M						
	1381N	1382M	1387M	1388	1421M	1424M	1425M	1426	1427M	1429	1430M	1453M	1455M	1456	1461M	1464M	1465	1473M						
15(F)	1490M	1503M	1505N	1506M	1507M	1508	1518M	2631M	2655M	2675M	2731M	2734M	2739M	2744B	2747M	2748	2749B	2751M						
	2753B	2766M	2772M	2773M	2773N	2774	2785M	2799M	2801M	2817M	2818M	2818N	2819	2846M	2849M	2860M	2897M	2900						
	2917M	2923M	2935	2981M	2987	2991	3062M	3071M	3078M	3129M	3138	3142M	3146M	3150M	3154M	3157M	3158M	3259M						
	3303M	3311M	3319M	3320M	3320N	3321	3373M	3374M	3374N	3377M	3378	3382M	3383	3385	3465B	3578M	3586M	3596M						
	3597	3601M	3625M	3626M	3627M	3638M	3641M	3654B	3664M	3687M	3727M	3739M	3740M	3741	3806M	3962M	3968M	3975M						
	4157	4160M	4161M	4162M	4284M	4295M	4311M	4336M	4345M	4366M	4367M	4368M	4375M	4375N	4376	4379	4389M	4402						

X50						Dsect Cross Reference			PAGE 129
Dsect	Length	Id	Defn	Con	Member	X390	3.1.04	2012/08/17	13.13
WORKAREA	00000DA8	FFFFFFFF	1992		PRIMARY INPUT				



Con	Source	Members	X390	3.1.04	2012/08/17	13.13
1	SYS1.MACLIB					
2	SYSD.TOOLS.MACLIB	CHECK DCB IEZREGS IHBINNRA IHBINNRB IHBWDWRS IHB01 PUT READ XCTL				
3	SYSD.ALGOLF.ASM					
4	SYSD.ALGOLF.MACLIB	IEX5000C IEX50002 IEX50003 IEX50004 IEX50005 IEX50006				
5	SYSD.ALGOLFRT.MACLIB	IEXCGEN IEXCHAR IEXENTRY WAEXT WORKAREA				
6	SYS1.AMODGEN	FSAREA				

Stmnt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.13
147		USING	Ordinary	00000001	00000000	00001000	15	00048	149	IEX50000,R15			
148		USING	Ordinary	FFFFFFF	00000000	00001000	13	00DA8	9239	WORKAREA,R13			
150		DROP					15			R15			
151		USING	Ordinary	00000001	00000048	00001000	5	00F38	9247	SUBSTART,R5			
2571		USING	Ordinary	00000001	00001348	00001000	12	00FF4	3746	CP6,R12			
3778		USING	Ordinary	00000001	0000233E	00001000	12	00063	3809	CP0,R12			
3820		USING	Ordinary	00000001	000023A8	00001000	12	0004C	3835	CP1,R12			
3850		USING	Ordinary	00000001	000023FA	00001000	12	0001C	3854	CP3,R12			
3869		USING	Ordinary	00000001	0000241C	00001000	12	001EE	3990	CP4,R12			
4015		USING	Ordinary	00000001	0000260C	00001000	12			CP7,R12			
4026		USING	Ordinary	00000001	00002618	00001000	12	00020	4041	CP8,R12			
4049		USING	Ordinary	00000001	00002646	00001000	12	000B0	4098	CP16,R12			
4106		USING	Ordinary	00000001	00002702	00001000	12	00012	4108	CP24,R12			
4122		USING	Ordinary	00000001	0000271A	00001000	12	00010	4124	CP25,R12			
4138		USING	Ordinary	00000001	0000273A	00001000	12	000A0	4181	CP36,R12			
4189		USING	Ordinary	00000001	000027E0	00001000	12	00370	4418	CP38,R12			
4441		USING	Ordinary	00000001	00002B54	00001000	12	001E2	4561	CP41,R12			
4599		USING	Ordinary	00000001	00002D38	00001000	12	002FE	4760	CP51,R12			
4802		USING	Ordinary	00000001	00002FC0	00001000	12	00076	4834	CP52,R12			
4857		USING	Ordinary	00000001	00003038	00001000	12	00014	4868	CP54,R12			
4882		USING	Ordinary	00000001	0000305A	00001000	12	00018	4894	CP56,R12			
4911		USING	Ordinary	00000001	00003084	00001000	12	0017C	5023	CP59,R12			
5042		USING	Ordinary	00000001	00003204	00001000	12	000A8	5096	CP62,R12			
5112		USING	Ordinary	00000001	000032B8	00001000	12			CP85,R12			
5137		USING	Ordinary	00000001	000032DC	00001000	12	00012	5139	CP34,R12			
5184		USING	Ordinary	00000001	0000330E	00001000	12	0009C	5240	CP12,R12			
5257		USING	Ordinary	00000001	000033B0	00001000	12			CP19,R12			
5273		USING	Ordinary	00000001	000033B8	00001000	12	0022C	5443	CP20,R12			
5466		USING	Ordinary	00000001	000035E8	00001000	12	00038	5468	CP21,R12			
5503		USING	Ordinary	00000001	00003628	00001000	12			CP22,R12			
5519		USING	Ordinary	00000001	00003630	00001000	12	00022	5526	CP23,R12			
5546		USING	Ordinary	00000001	00003656	00001000	12			CP33,R12			
5571		USING	Ordinary	00000001	0000365E	00001000	12	0031A	5763	CP57,R12			
5769		DROP					12			R12			
5772		USING	Ordinary	00000001	000038C6	00001000	12	0004A	5791	*,R12			
5795		DROP					12			R12			
5799		USING	Ordinary	00000001	0000365E	00001000	12	002E2	5820	CP57,R12			
5847		USING	Ordinary	00000001	0000397C	00001000	12	0080C	6449	CP61,R12			
6492		USING	Ordinary	00000001	0000418C	00001000	12	0015C	6586	CP64,R12			
6611		USING	Ordinary	00000001	000042EC	00001000	12			CP71,R12			
6625		USING	Ordinary	00000001	000042F4	00001000	12			CP84,R12			
6658		USING	Ordinary	00000001	000042FE	00001000	12	0002E	6668	CP17,R12			
6692		USING	Ordinary	00000001	0000434A	00001000	12	00042	6701	CP83,R12			
6726		USING	Ordinary	00000001	0000438E	00001000	12	0002E	6733	CP18,R12			
6754		USING	Ordinary	00000001	000043C8	00001000	12	00038	6774	CP26,R12			
6789		USING	Ordinary	00000001	0000440C	00001000	12	00174	6899	CP27,R12			
6917		USING	Ordinary	00000001	00004586	00001000	12	00038	6925	CP28,R12			
6950		USING	Ordinary	00000001	000045C4	00001000	12			CP29,R12			
6967		USING	Ordinary	00000001	000045CE	00001000	12	00014	6969	CP30,R12			
6991		USING	Ordinary	00000001	000045E8	00001000	12	00016	6994	CP31,R12			
7017		USING	Ordinary	00000001	00004608	00001000	12	00100	7085	CP63,R12			
7110		USING	Ordinary	00000001	00004718	00001000	12	00012	7112	CP65,R12			
7133		USING	Ordinary	00000001	00004736	00001000	12	0003A	7150	CP66,R12			
7171		USING	Ordinary	00000001	0000477E	00001000	12	0001E	7173	CP67,R12			
7198		USING	Ordinary	00000001	000047A4	00001000	12	00008	7199	CP68,R12			
7217		USING	Ordinary	00000001	000047B0	00001000	12			CP70,R12			
7233		USING	Ordinary	00000001	000047B8	00001000	12	0000E	7236	CP72,R12			
7257		USING	Ordinary	00000001	000047D8	00001000	12	00026	7273	CP73,R12			
7287		USING	Ordinary	00000001	00004808	00001000	12	00018	7301	CP74,R12			
7316		USING	Ordinary	00000001	0000482E	00001000	12	00014	7318	CP75,R12			
7342		USING	Ordinary	00000001	0000484A	00001000	12	00244	7493	CP76,R12			
7508		USING	Ordinary	00000001	00004A9A	00001000	12	000EC	7568	CP77,R12			
7582		USING	Ordinary	00000001	00004B92	00001000	12	00086	7620	CP78,R12			
7634		USING	Ordinary	00000001	00004C20	00001000	12	003FA	7904	CP79,R12			
7918		USING	Ordinary	00000001	00005026	00001000	12	0001E	7932	CP80,R12			
7946		USING	Ordinary	00000001	00005054	00001000	12	00030	7962	CP86,R12			
7980		USING	Ordinary	00000001	0000508E	00001000	12	0020C	8120	CP87,R12			
8143		USING	Ordinary	00000001	000052A2	00001000	12	00FE2	9248	CP69,R12			

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8      JOBNAME: T1X50      STEPNAME: IEX50      PROCSTEP: X390

Primary input: lines      1 to      1946 of SYSD.ALGOLF.ASM(IEX50)

SYSLIB library records read: 10333

SYSUT1 work file size: 952733 bytes

SYSUT2 work file size: 271751 bytes

SYSUT3 work file size: 155680 bytes

SYSLIN file records written: 461

TXA000I Return code 0, elapsed time 7.64 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX50000 006286 2

**IEX51**

**LEVEL**

**V2.M01**

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Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	
	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	
	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
SysadataA(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SysterM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEX51)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131331.RA000.T1X51.OBJECT
SYSPRINT	JES2.JOB09279.S00102
SYSUT1	SYS12230.T131331.RA000.T1X51.SYSUT1
SYSUT2	SYS12230.T131331.RA000.T1X51.SYSUT2
SYSUT3	SYS12230.T131331.RA000.T1X51.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17	13.13
2	*							00002001
3	*				FUNCTION/OPERATION -			00003001
4	*				THE TABLES NEEDED AT OBJECT TIME ARE PREPARED AND			00004001
5	*				INCLUDED IN THE OBJECT MODULE. THEY ARE PROGRAM BLOCK			00005001
6	*				TABLE, LABEL ADDRESS TABLE, AND DATASET TABLE. ESD			00006001
7	*				RECORDS FOR THE REQUIRED LIBRARY ROUTINES ARE GENERATED.			00007001
8	*				THE INFORMATION REQUIRED TO START THE EXECUTION,			00008001
9	*				INCLUDING THE END STMT, IS GENERATED. A TABLE CONTAINING			00009001
10	*				THE DSA SIZES FOR THE PROGRAM BLOCKS IS PREPARED AND			00010001
11	*				TOGETHER WITH THE OBJECT MODULE SIZE OUTPUT TO			00011001
12	*				SYSPRINT			00012001
13	*							00013001
14	*				CSECT IEX60000 -			00014001
15	*				THE ERROR PATTERNS GENERATED DURING COMPILATION PHASE			00015001
16	*				ARE HANDLED AND THE CORRESPONDING DIAGNOSTIC MESSAGES			00016001
17	*				ARE GENERATED			00017001
18	*							00018001
19	*				CSECT IEX51002 -			00019001
20	*				ALL AREAS RESERVED ARE RELEASED AND THE DCBS			00020001
21	*				NOT CLOSED EARLIER ARE CLOSED, THE ORIGINAL PICA IS			00021001
22	*				RESTORED, THE RETURN CODE IS FOUND. CONTROL IS			00022001
23	*				RETURNED TO COMPILER DIRECTORY IEX00			00023001
24	*							00024001
25	*				ENTRY POINTS -			00025001
26	*				IEX51000 - NORMAL END OF COMPILATION			00026001
27	*				XCTL EP=IEX51000 THE MODULE IS			00027001
28	*				NORMALLY ENTERED FROM IEX40			00028001
29	*				IEX51ER1 - ABNORMAL END OF COMPILATION			00029001
30	*				XCTL EP=IEX51ER1 IS USED BY IEX40			00030001
31	*				AND IEX50			00031001
32	*				IEX51ER2 - ABNORMAL END OF COMPILATION			00032001
33	*				XCTL EP=IEX51ER2 IS USED BY IEX40			00033001
34	*				IEX51002 - ABNORMAL END OF COMPILATION			00034001
35	*				XCTL EP=IEX51002 IS USED BY IEX00,			00035001
36	*				IEX21, AND IEX31			00036001
37	*							00037001
38	*				INPUT - N/A			00038001
39	*							00039001
40	*				OUTPUT -			00040001
41	*				PART OF THE OBJECT MODULE IS GENERATED AND OUTPUT ON			00041001
42	*				SYSLIN AND/OR SYSPUNCH			00042001
43	*				STORAGE REQUIREMENTS AND DIAGNOSTIC MESSAGES ARE			00043001
44	*				OUTPUT ON SYSPRINT			00044001
45	*							00045001
46	*				EXTERNAL ROUTINES -			00046001
47	*				THE PRINT ROUTINE IN IEX00 IS USED			00047001
48	*							00048001
49	*				EXIT - NORMAL -			00049001
50	*				CONTROL IS GIVEN TO COMPILER DIRECTORY, IEX00, BY MEANS			00050001
51	*				OF THE RETURN MACRO INSTRUCTION			00051001
52	*							00052001
53	*				EXIT - ERROR -			00053001
54	*				AFTER PROGRAM INTERRUPTS AND I/O ERRORS THE MODULE GETS			00054001
55	*				CONTROL BACK AND EXITS NORMALLY			00055001
56	*							00056001
57	*				TABLES/WORKAREAS -			00057001
58	*				THE MESSAGE TEXTS WITH CORRESPONDING ADDRESS TABLE ARE			00058001
59	*				IN THE LOAD MODULE IEX51M			00059001
60	*				THE ERROR MESSAGE EDITING ROUTINE, CSECT IEX60000, ALSO			00060001
61	*				USES THE FOLLOWING TABLES -			00061001
62	*				WINTBC - TRANSLATION OF INTERNAL CHARACTERS TO EBCDIC			00062001
63	*				WSYMSRC - TRANSLATION OF SOURCE OPERATORS			00063001
64	*				WSYMBSTK - TRANSLATION OF INTERNAL SYMBOLS TO EBCDIC			00064001
65	*				WORDSEBC - TRANSLATION OF COMPOUND SYMBOLS IF SOURCE IN			00065001
66	*				EBCDIC			00066001
67	*				WORDSISO - TRANSLATION OF COMPOUND SYMBOLS IF SOURCE IN			00067001
68	*				ISOCODE			00068001
69	*				WEBCDIC - TRANSLATION EBCDIC-EBCDIC			00069001
70	*				A WORKAREA OF 270 BYTES, WAREA, IS USED FOR BUILDING			00070001
71	*				THE MESSAGES			00071001
72	*							00072001
73	*				FOR THE EXTERNAL REFERENCES TO THE LIBRARY ROUTINES ONE			00073001
74	*				OF THE TABLES SHRTAB AND LNGTAB, CONTAINING THE MODULE			00074001
75	*				NAMES, IS USED. THE GENERATE ROUTINE USES THREE TABLES,			00075001
76	*				ESDT, TXTT, AND RLDT, FOR GENERATION OF THE DIFFERENT			00076001
77	*				TYPES OF OBJECT RECORDS.			00077001
78	*							00078001
79	*				THE PART OF COMMON WORKAREA STARTING AT SYSUT1 IS			00079001
80	*				INITIALIZED BY THE LOAD MODULE IEX40 AND IS USED BY THIS			00080001
81	*				AND THE PRECEDING LOAD MODULE			00081001
82	*							00082001
83	*				ATTRIBUTES - NONE			00083001
84	*							00084001
85	*				NOTES -			00085001
86	*				CHARACTER CODE DEPENDENCE -			00086001
87	*							00087001
88	*				CSECT IEX51000 -			00088001
89	*				THE OPERATION OF THE ROUTINES GENERATE AND PRINT			00089001
90	*				STORAGE REQUIREMENTS DEPENDS UPON AN INTERNAL			00090001
91	*				REPRESENTATION OF THE EXTERNAL CHARACTER SET WHICH IS			00091001
92	*				EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME.			00092001
93	*							00093001
94	*				CSECT IEX60000 -			00094001
95	*				FOR THE BUILDING OF A MESSAGE (CODE PART BETWEEN COT03			00095001
96	*				AND COT12) THE FOLLOWING APPLIES -			00096001
97	*				IN CASE NO SOURCE INFORMATION IS TO BE INSERTED			00097001



Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
				98 *	(COT31), OR IF THE INFORMATION IS EBCDIC-CHARACTERS	00098001
				99 *	(COT07), THE OPERATION OF CSECT IEX60000 DEPENDS UPON AN	00099001
				100 *	INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER SET	00100001
				101 *	WHICH IS EQUIVALENT TO THE ONE USED AT ASSEMBLY TIME.	00101001
				102 *	IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL	00102001
				103 *	CHARACTERS (COT33) THE OPERATION OF CSECT IEX60000	00103001
				104 *	DEPENDS UPON A TRANSLATION FROM THE INTERNAL	00104001
				105 *	REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF	00105001
				106 *	THE TABLE 'WINTIBC'.	00106001
				107 *	IF THE SOURCE INFORMATION TO BE INSERTED IS INTERNAL	00107001
				108 *	ALGOL SYMBOLS (COT10) THE OPERATION OF CSECT IEX60000	00108001
				109 *	DEPENDS UPON A TRANSLATION FROM THE INTERNAL	00109001
				110 *	REPRESENTATION TO THE EBCDIC CHARACTER SET BY MEANS OF	00110001
				111 *	THE TABLES 'WSYMBSTK'/'WSYMBSRC' AND 'WORDSISO'/'	00111001
				112 *	'WORDSEBC'.	00112001
				113 *		00113001
				114 *	FOR THE OUTPUT OF A MESSAGE (CODE PART BETWEEN COT12	00114001
				115 *	AND COT21) THE FOLLOWING APPLIES -	00115001
				116 *	WHEN A MESSAGE HAS BEEN BUILT IN EBCDIC, AN EBCDIC-	00116001
				117 *	EBCDIC TRANSLATION IS PERFORMED BEFORE OUTPUT BY MEANS	00117001
				118 *	OF THE TABLE 'WEBDCIC'. THUS THE OUTPUT MAY BE MODIFIED	00118001
				119 *	BY MAKING CHANGES IN THIS TABLE.	00119001
				120 *		00120001
				121 *	THE OPERATION OF THE OTHER PARTS DOES NOT DEPEND UPON A	00121001
				122 *	PARTICULAR INTERNAL REPRESENTATION OF THE EXTERNAL	00122001
				123 *	CHARACTER SET.	00123001
				124 *		00124001
				125 *	THIS MODULE WILL BE LINKED TOGETHER WITH THE MODULE	00125001
				126 *	IEX51M TO FORM THE MODULE IEX51	00126001
				127 *		00127001
				128 *	THIS MODULE IS ONLY INTENDED TO BE EXECUTED IN	00128001
				129 *	CONNECTION WITH THE OTHER MODULES OF THE ALGOL COMPILER	00129001
				130 *	IN PARTICULAR IT REQUIRES THE COMMON WORKAREA	00130001
				131 *		00131001
000000		00000	00A0E	132	IEX51000 CSECT	00132001
				133 *		00133001
				134 *	DEFINITIONS	00134001
				135 *		00135001
		00800		136	RASLGT EQU 2048 LENGTH OF RETURN ADDR STACK	00136001
		0001C		137	LPGCF EQU 28 LENGTH OF PUT/GET CONTROL FIELD	00137001
				138 *		00138001
				139 *	ENTRY POINTS	00139001
				140 *		00140001
				141	ENTRY IEX51ER1	00141001
				142	ENTRY IEX51ER2	00142001
				143 *		00143001
				144	IEXENTRY 'IEX51000 LEVEL 2.1 &SYSDATE &SYSTIME'	00144001
				145+*		01-IEXEN
000000	47F0 F026		00026	146+	B 38(,R15) BRANCH AROUND ID	01-IEXEN
000004	21			147+	DC AL1(33) LENGTH OF IDENTIFIER	01-IEXEN
000005	C9C5E7F5F1F0F0F0			148+	DC CL33'IEX51000 LEVEL 2.1 08/17/12 13.13'	+01-IEXEN
				+	IDENTIFIER	01-IEXEN
				149 *		00145001
	R:A 00000			150	USING IEX51000,R10	00146001
	R:D 00000			151	USING WORKAREA,R13	00147001
				152 *		00148001
000026	18AF			153	LR R10,R15	00149001
000028	1B88			154	SR R8,R8	00150001
				155 *		00151001
				156 *	TEST MODE	00152001
				157 *		00153001
00002A	4120 A564		00564	158	TRM1 LA R2,IEX51ER1 GIVE DIRECTORY	00154001
00002E	5020 D090		00090	159	ST R2,ERET RETURN ADDR	00155001
000032	9608 D082	00082		160	OI COMPFLLGS+2,NOSC INDICATE NO SC AVAILABLE	00156001
000036	9180 D080	00080		161	TM COMPFLLGS,COMPmode SYNTAX CHECK MODE ?	00157001
00003A	4710 A1CA	001CA		162	BO TRM10 YES, BYPASS ALL CODE GENERATION	00158001
00003E	9160 D081	00081		163	TM COMPFLLGS+1,NLOAD+NDECK NOLOAD AND NODECK SPECIFIED ?	00159001
000042	4710 A1CA	001CA		164	BO TRM10 YES, NO CODE GENERATION	00160001
				165 *		00161001
				166 *	GENERATE LAT, TXT RECORDS	00162001
				167 *		00163001
000046	5060 A608		00608	168	TRM8 ST R6,PRPTAR SET	00164001
00004A	9102 A60B	0060B		169	TM PRPTAR+3,X'02' PRPOINTER	00165001
00004E	4780 A05C	0005C		170	BZ TRM4 TO	00166001
000052	4120 DA50	00A50		171	LA R2,ZEROHW FULL WORD BOUNDARY	00167001
000056	45E0 A866	00866		172	BAL R14,GENTXTS	00168001
00005A	0002			173	DC H'2' GENERATE 2 BYTES	00169001
				174 *		00170001
00005C	5060 A698		00698	175	TRM4 ST R6,ALAT SAVE PRPOINTER AT LAT-BEGIN	00171001
000060	5820 D61C	0061C		176	L R2,LATAB GET ADDR OF LAT	00172001
000064	4830 D0A2	000A2		177	LH R3,LN GET DISPLACEMENT OF LAST LABEL	00173001
000068	4130 3004	00004		178	LA R3,4(,R3) LENGTH OF LAT	00174001
00006C	4030 A074	00074		179	STH R3,TRM39 STORE LENGTH IN TRM39	00175001
000070	45E0 A866	00866		180	BAL R14,GENTXTS GENERATE TXT RECORDS	00176001
000074	0000			181	TRM39 DC H'0' LENGTH OF LAT	00177001
				182 *		00178001
				183 *	RLD RECORDS FOR LAT	00179001
				184 *		00180001
000076	4830 A074		00074	185	TRM40 LH R3,TRM39 GET LENGTH OF LAT	00181001
00007A	4140 0070	00070		186	LA R4,LATBEG+4 GET LENGTH OF 1ST PART	00182001
00007E	1B34			187	SR R3,R4 GET LENGTH OF LAST PART	00183001
000080	47D0 A09A	0009A		188	BNP TRM42 -> ZERO, BRANCH	00184001
000084	4030 A094	00094		189	STH R3,TRM41 STORE LENGTH OF LAST PART	00185001
000088	5820 A698	00698		190	L R2,ALAT GET PRPOINTER AT LAT BEGIN	00186001
00008C	4120 2070	00070		191	LA R2,LATBEG+4(,R2) PRPOINTER AT LAST PART	00187001
000090	45E0 A876	00876		192	BAL R14,GENRLD GENERATE RLD RECORD	00188001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000094	0000			193	TRM41	DC H'0'	LENGTH OF LAST PART 00189001
000096	0001			194		DC H'1'	00190001
000098	0001			195		DC H'1'	00191001
				196	*		00192001
				197	*	ESD RECORDS FOR LAT	00193001
				198	*		00194001
00009A	5850 D61C		0061C	199	TRM42	L R5,LATAB	00195001
00009E	4170 001C		0001C	200		LA R7,LATNR	00196001
0000A2	4190 A74C		0074C	201		LA R9,SHRTAB	00197001
0000A6	9102 D080	00080		202		TM COMPLFGS,LNG	00198001
0000AA	4780 A0B2		000B2	203		BZ TRM44	00199001
0000AE	4190 A7D3		007D3	204		LA R9,LNGTAB	00200001
0000B2	9500 5000	00000		205	TRM44	CLI 0(R5),0	00201001
0000B6	4770 A0CE		000CE	206		BNE TRM45	00202001
0000BA	D204 A0C7	9000 000C7	00000	207		MVC TRM43+3(5),0(R9)	00203001
0000C0	4520 A85A		0085A	208		BAL R2,GENESD	00204001
0000C4	C9C8C94040404040			209	TRM43	DC CL8'1HI	00205001
0000CC	02			210		DC X'02'	00206001
				211	*		00207001
0000CD	00						
0000CE	4150 5004		00004	212	TRM45	LA R5,4(,R5)	00208001
0000D2	4190 9005		00005	213		LA R9,5(,R9)	00209001
0000D6	4670 A0B2		000B2	214		BCT R7,TRM44	00210001
				215	*		00211001
				216	*	RLD RECORDS FOR ESD ENTRIES IN LAT	00212001
				217	*		00213001
0000DA	5880 A698		00698	218	TRM46	L R11,ALAT	00214001
0000DE	5850 D61C		0061C	219		L R5,LATAB	00215001
0000E2	4170 001C		0001C	220		LA R7,LATNR	00216001
0000E6	4190 0001		00001	221		LA R9,1	00217001
				222	*		00218001
0000EA	9500 5000	00000		223	TRM49	CLI 0(R5),0	00219001
0000EE	4770 A106		00106	224		BNE TRM48	00220001
0000F2	4190 9001		00001	225		LA R9,1(,R9)	00221001
0000F6	4090 A102		00102	226		STH R9,TRM47	00222001
0000FA	182B			227		LR R2,R11	00223001
0000FC	45E0 A876		00876	228		BAL R14,GENRLD	00224001
000100	0004			229		DC H'4'	00225001
000102	0000			230	TRM47	DC H'0'	00226001
000104	0001			231		DC H'1'	00227001
				232	*		00228001
000106	41B0 B004		00004	233	TRM48	LA R11,4(,R11)	00229001
00010A	4150 5004		00004	234		LA R5,4(,R5)	00230001
00010E	4670 A0EA		000EA	235		BCT R7,TRM49	00231001
				236	*		00232001
				237	*	GENERATE PB TAB, 4TH VERSION, TXT RECORDS	00233001
				238	*		00234001
000112	5060 A694		00694	239	TRM2	ST R6,APBT	00235001
000116	4130 D634		00634	240		LA R3,PBTAB3+4	00236001
00011A	5840 D61C		0061C	241		L R4,APBTAB4	00237001
00011E	5080 4000		00000	242		ST R8,0(,R4)	00238001
000122	4820 D09E		0009E	243		LH R2,PBN	00239001
000126	4140 4004		00004	244		LA R4,4(,R4)	00240001
00012A	D203 4000	D0B0 00000	000B0	245		MVC 0(4,R4),PIDENT	00241001
000130	5080 4004		00004	246	TRM5	ST R8,4(,R4)	00242001
000134	4140 4008		00008	247		LA R4,8(,R4)	00243001
000138	5880 3000		00000	248		L R11,0(,R3)	00244001
00013C	4850 DA56		00A56	249		LH R5,ONEENTRY	00245001
000140	8950 0010		00010	250		SLL R5,16	00246001
000144	1AB5			251		AR R11,R5	00247001
000146	50B0 4000		00000	252		ST R11,0(,R4)	00248001
00014A	4130 3004		00004	253		LA R3,4(,R3)	00249001
00014E	4620 A130		00130	254		BCT R2,TRM5	00250001
000152	4140 4004		00004	255		LA R4,4(,R4)	00251001
000156	4820 D0A0		000A0	256		LH R2,KBN	00252001
00015A	1222			257		LTR R2,R2	00253001
00015C	4780 A17C		0017C	258		BZ TRM7	00254001
000160	4B20 D09E		0009E	259		SH R2,PBN	00255001
000164	4830 A61A		0061A	260		LH R3,KH4096	00256001
000168	1853			261		LR R5,R3	00257001
00016A	5080 4004		00004	262		ST R8,4(,R4)	00258001
00016E	5030 4000		00000	263	TRM6	ST R3,0(,R4)	00259001
000172	4140 4008		00008	264		LA R4,8(,R4)	00260001
000176	1A35			265		AR R3,R5	00261001
000178	4620 A16E		0016E	266		BCT R2,TRM6	00262001
				267	*		00263001
00017C	5820 D61C		0061C	268	TRM7	L R2,APBTAB4	00264001
000180	1854			269		LR R5,R4	00265001
000182	1852			270		SR R5,R2	00266001
000184	4050 A18C		0018C	271		STH R5,TRM7AA	00267001
000188	45E0 A866		00866	272		BAL R14,GENTXTS	00268001
00018C	0000			273	TRM7AA	DC H'0'	00269001
				274	*		00270001
				275	*	RLD RECODS FOR PB TAB4	00271001
				276	*		00272001
00018E	5870 A694		00694	277	TRM52	L R7,APBT	00273001
000192	47F0 A1B2		001B2	278		B TRM53	00274001
				279	*		00275001
000196	940F A1BF	001BF		280	TRM70	NI TRM71+1,X'0F'	00276001
00019A	4850 D0A0		000A0	281		LH R5,KBN	00277001
00019E	1985			282		CR R8,R5	00278001
0001A0	4780 A1CA		001CA	283		BE TRM10	00279001
0001A4	4820 D09E		0009E	284		LH R2,PBN	00280001
0001A8	1852			285		SR R5,R2	00281001
0001AA	8920 0003		00003	286		SLL R2,3	00282001
0001AE	4172 7008		00008	287		LA R7,8(R2,R7)	00283001

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0001B2 1827				288	TRM53	LR R2,R7	00284001
0001B4 45E0 A876			00876	289		BAL R14,GENRLD	00285001
0001B8 0004				290		DC H'4'	00286001
0001BA 0001				291		DC H'1'	00287001
0001BC 0001				292		DC H'1'	00288001
				293	*		00289001
0001BE 47F0 A196			00196	294	TRM71	B TRM70	00290001
0001C2 4170 7008			00008	295		LA R7,8(,R7)	00291001
0001C6 4650 A1B2			001B2	296		BCT R5,TRM53	00292001
				297	*		00293001
				298	*	CONSTRUCT DATASET TABLE	00294001
				299	*		00295001
0001CA 4120 DAA8			00AA8	300	TRM10	LA R2,DSTAB	00296001
0001CE 5060 A60C			0060C	301		ST R6,DSTABPRP	00297001
0001D2 4170 DA30			00A30	302		LA R7,IOTAB	00298001
0001D6 4150 000F			0000F	303		LA R5,15	00299001
0001DA 91FF 7010			00010	304		TM 16(R7),X'FF'	00300001
0001DE 4770 A204			00204	305		BNZ TRM12A	00301001
0001E2 4130 000F			0000F	306		LA R3,15	00302001
0001E6 41B0 0001			00001	307		LA R11,1	00303001
0001EA 4143 7000			00000	308	TRM11	LA R4,0(R3,R7)	00304001
0001EE 9500 4000			00000	309		CLI 0(R4),0	00305001
0001F2 4770 A1FE			001FE	310		BNE TRM11A	00306001
0001F6 0630				311		BCTR R3,0	00307001
0001F8 193B				312		CR R3,R11	00308001
0001FA 4770 A1EA			001EA	313		BNE TRM11	00309001
0001FE 1853				314	TRM11A	LR R5,R3	00310001
000200 4030 A618			00618	315		STH R3,MDSN	00311001
000204 0650				316	TRM12A	BCTR R5,0	00312001
000206 4130 0024			00024	317	TRM12	LA R3,36	00313001
00020A 4C30 A618			00618	318		MH R3,MDSN	00314001
00020E 4130 3028			00028	319		LA R3,40(,R3)	00315001
000212 4030 A640			00640	320		STH R3,DSTABLGT	00316001
000216 4133 6000			00000	321		LA R3,0(R3,R6)	00317001
00021A 5030 2000			00000	322		ST R3,0(,R2)	00318001
00021E 1BBB				323		SR R11,R11	00319001
000220 9170 7000			00000	324		TM 0(R7),X'70'	00320001
000224 41E0 A24C			0024C	325		LA R14,TRM19	00321001
000228 4770 A590			00590	326		BNZ ERR188	00322001
00022C D223 2004 A61C 00004			00004	327		MVC 4(DSTABLEL,R2),DSTABLE	00323001
000232 41B0 0001			00001	328		LA R11,1	00324001
000236 91A0 7001			00001	329		TM 1(R7),X'A0'	00325001
00023A 4770 A590			00590	330		BNZ ERR188	00326001
00023E D223 2028 A61C 00028			0061C	331		MVC 40(DSTABLEL,R2),DSTABLE	00327001
000244 9202 2042			00042	332		MVI 66(R2),X'02'	00328001
000248 9202 204A			0004A	333		MVI 74(R2),X'02'	00329001
00024C 1835				334	TRM19	LR R3,R5	00330001
00024E 1233				335		LTR R3,R3	00331001
000250 4780 A330			00330	336		BZ TRM22	00332001
000254 94EF 7010			00010	337		NI 16(R7),X'EF'	00333001
000258 9101 7010			00010	338		TM 16(R7),X'01'	00334001
00025C 4780 A27E			0027E	339		BZ TRM192	00335001
000260 4140 204C			0004C	340		LA R4,76(,R2)	00336001
000264 D223 4000 A61C 00000			0061C	341	TRM191	MVC 0(DSTABLEL,R4),DSTABLE	00337001
00026A 9242 401A			0001A	342		MVI 26(R4),X'42'	00338001
00026E 9242 4022			00022	343		MVI 34(R4),X'42'	00339001
000272 4140 4024			00024	344		LA R4,DSTABLEL(,R4)	00340001
000276 4630 A264			00264	345		BCT R3,TRM191	00341001
00027A 47F0 A330			00330	346		B TRM22	00342001
				347	*		00343001
00027E 91FF 7010			00010	348	TRM192	TM 16(R7),X'FF'	00344001
000282 4780 A29C			0029C	349		BZ TRM15	00345001
000286 4143 7001			00001	350	TRM14	LA R4,1(R3,R7)	00346001
00028A 9110 4000			00000	351		TM 0(R4),X'10'	00347001
00028E 4710 A298			00298	352		BO TRM14A	00348001
000292 D600 4000 7010 00000			00010	353		OC 0(1,R4),16(R7)	00349001
000298 4630 A286			00286	354	TRM14A	BCT R3,TRM14	00350001
00029C 1835				355	TRM15	LR R3,R5	00351001
00029E 4143 7001			00001	356	TRM16	LA R4,1(R3,R7)	00352001
0002A2 91C0 4000			00000	357		TM 0(R4),X'C0'	00353001
0002A6 47E0 A2AE			002AE	358		BNO TRM16A	00354001
0002AA 9620 4000			00000	359		OI 0(R4),X'20'	00355001
0002AE 4630 A29E			0029E	360	TRM16A	BCT R3,TRM16	00356001
0002B2 1835				361		LR R3,R5	00357001
0002B4 4143 7001			00001	362	TRM17	LA R4,1(R3,R7)	00358001
0002B8 41B0 3001			00001	363		LA R11,1(,R3)	00359001
0002BC 9110 4000			00000	364		TM 0(R4),X'10'	00360001
0002C0 4780 A2D8			002D8	365		BZ TRM18	00361001
0002C4 91A0 4000			00000	366		TM 0(R4),X'A0'	00362001
0002C8 4780 A2D4			002D4	367		BZ TRM17A	00363001
0002CC 41E0 A2D8			002D8	368		LA R14,TRM18	00364001
0002D0 47F0 A590			00590	369		B ERR188	00365001
				370	*		00366001
0002D4 94F7 4000			00000	371	TRM17A	NI 0(R4),X'F7'	00367001
0002D8 4630 A2B4			002B4	372	TRM18	BCT R3,TRM17	00368001
0002DC 1835				373		LR R3,R5	00369001
0002DE 4140 204C			0004C	374		LA R4,76(,R2)	00370001
0002E2 4110 7002			00002	375		LA R1,21(,R7)	00371001
0002E6 D223 4000 A61C 00000			0061C	376	TRM20	MVC 0(DSTABLEL,R4),DSTABLE	00372001
0002EC 9128 1000			00000	377		TM 0(R1),X'28'	00373001
0002F0 4770 A308			00308	378		BNZ TRM21	00374001
0002F4 9140 1000			00000	379		TM 0(R1),X'40'	00375001
0002F8 4780 A324			00324	380		BZ TRM211	00376001
0002FC 9202 401A			0001A	381		MVI 26(R4),X'02'	00377001
000300 9202 4022			00022	382		MVI 34(R4),X'02'	00378001
000304 47F0 A324			00324	383		B TRM211	00379001

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				384 *			00380001
000308	9140 1000	00000		385 TRM21	TM	0(R1),X'40'	00381001
00030C	4710 A31C		0031C	386	BO	TRM21A	00382001
000310	9240 401A	0001A		387	MVI	26(R4),X'40'	00383001
000314	9240 4022	00022		388	MVI	34(R4),X'40'	00384001
000318	47F0 A324		00324	389	B	TRM211	00385001
				390 *			00386001
00031C	9242 401A	0001A		391 TRM21A	MVI	26(R4),X'42'	00387001
000320	9242 4022	00022		392	MVI	34(R4),X'42'	00388001
000324	4140 4024	00024		393 TRM211	LA	R4,36(,R4)	00389001
000328	4110 1001	00001		394	LA	R1,1(,R1)	00390001
00032C	4630 A2E6	002E6		395	BCT	R3,TRM20	00391001
000330	91FF 7011	00011		396 TRM22	TM	17(R7),X'FF'	00392001
000334	4780 A356		00356	397	BZ	TRM27	00393001
000338	4830 A640		00640	398	LH	R3,DSTABLGT	00394001
00033C	4133 2000	00000		399	LA	R3,0(R3,R2)	00395001
000340	9200 3000	00000		400	MVI	0(R3),0	00396001
000344	D21A 3001 3000	00001	00000	401	MVC	1(27,R3),0(R3)	00397001
00034A	4140 0800		00800	402	LA	R4,2048	00398001
00034E	5040 3010		00010	403	ST	R4,16(,R3)	00399001
000352	47F0 A35A		0035A	404	B	TRM23	00400001
				405 *			00401001
000356	9280 2000	00000		406 TRM27	MVI	0(R2),X'80'	00402001
				407 *			00403001
				408 *		GENERATE DSTABLE, TXT RECORDS	00404001
				409 *			00405001
00035A	9180 D080	00080		410 TRM23	TM	COMPLGFS,COMPMODE	00406001
00035E	4710 A564		00564	411	BO	TRM37	00407001
000362	9160 D081	00081		412	TM	COMPLGFS+1,NLOAD+NDECK	00408001
000366	4710 A564		00564	413	BO	TRM37	00409001
00036A	9104 D080	00080		414	TM	COMPLGFS,PROC	00410001
00036E	4710 A39A		0039A	415	BO	TRM24	00411001
000372	4830 A640		00640	416	LH	R3,DSTABLGT	00412001
000376	9580 2000	00000		417	CLI	0(R2),X'80'	00413001
00037A	4780 A382		00382	418	BE	TRM23A	00414001
00037E	4130 301C		0001C	419	LA	R3,LPGCF(,R3)	00415001
000382	4030 A38A		0038A	420 TRM23A	STH	R3,TRM23B	00416001
000386	45E0 A866		00866	421	BAL	R14,GENTXTS	00417001
00038A	0000			422 TRM23B	DC	H'0'	00418001
				423 *			00419001
				424 *		RLD RECORD FOR PGCF ADDR IN DSTAB	00420001
				425 *			00421001
00038C	5820 A60C		0060C	426 TRM32	L	R2,DSTABPRP	00422001
000390	45E0 A876		00876	427	BAL	R14,GENRLD	00423001
000394	0004			428	DC	H'4'	00424001
000396	0001			429 TRM32ID	DC	H'1'	00425001
000398	0001			430	DC	H'1'	00426001
				431 *			00427001
				432 *		GENERATE TXT RECORDS ADDR TABLE	00428001
				433 *			00429001
00039A	D202 A69D D0A5	0069D	000A5	434 TRM24	MVC	ASTART(3),PRPT+1	00430001
0003A0	9102 D080		00080	435	TM	COMPLGFS,LNG	00431001
0003A4	4780 A3AC		003AC	436	BZ	TRM24A	00432001
0003A8	9200 A69C		0069C	437	MVI	SW,0	00433001
0003AC	5060 A614		00614	438 TRM24A	ST	R6,ADRPRP	00434001
0003B0	4120 A694		00694	439	LA	R2,APBT	00435001
0003B4	45E0 A866		00866	440	BAL	R14,GENTXTS	00436001
0003B8	000C			441	DC	H'12'	00437001
				442 *			00438001
				443 *		ESD RECORD FOR FSA ADDR	00439001
				444 *			00440001
0003BA	9104 D080	00080		445 TRM28	TM	COMPLGFS,PROC	00441001
0003BE	4710 A3D0		003D0	446	BO	TRM54	00442001
0003C2	4520 A85A		0085A	447	BAL	R2,GENESD	00443001
0003C6	C9C8C9C6E2C1C9D5			448 TRM29	DC	C'IHIFSAIN'	00444001
0003CE	0200			449	DC	X'0200'	00445001
				450 *			00446001
				451 *		RLD RECORDS FOR ADDR TABLE	00447001
				452 *			00448001
0003D0	5820 A614		00614	453 TRM54	L	R2,ADRPRP	00449001
0003D4	45E0 A876		00876	454	BAL	R14,GENRLD	00450001
0003D8	000C			455	DC	H'12'	00451001
0003DA	0001			456	DC	H'1'	00452001
0003DC	0001			457	DC	H'1'	00453001
				458 *			00454001
				459 *		ESD RECORD, LD ENTRY, FOR ENTRY INFO	00455001
				460 *			00456001
0003DE	9104 D080	00080		461 TRM25	TM	COMPLGFS,PROC	00457001
0003E2	4710 A41A		0041A	462	BO	TRM35	00458001
0003E6	D202 A3F9 A615	003F9	00615	463	MVC	TRM26(3),ADRPRP+1	00459001
0003EC	4520 A85A		0085A	464	BAL	R2,GENESD	00460001
0003F0	C9C8C9C5D5E3C9C6			465	DC	CL8'IHIENTIF'	00461001
0003F8	01			466	DC	X'01'	00462001
0003F9	000000			467 TRM26	DC	X'000000'	00463001
0003FC	40			468	DC	C' '	00464001
0003FD	000001			469	DC	X'000001'	00465001
				470 *			00466001
				471 *		ESD RECORD, LD ENTRY, FOR DSTAB	00467001
				472 *			00468001
000400	D202 A413 A60D	00413	0060D	473 TRM56	MVC	TRM57(3),DSTABPRP+1	00469001
000406	4520 A85A		0085A	474	BAL	R2,GENESD	00470001
00040A	C9C8C9C4E2E3C1C2			475	DC	CL8'IHIDSTAB'	00471001
000412	01			476	DC	X'01'	00472001
000413	000000			477 TRM57	DC	X'000000'	00473001
000416	40			478	DC	C' '	00474001
000417	000001			479	DC	X'000001'	00475001



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				480 *		00476001
				481 *	GENERATE END RECORD	00477001
				482 *		00478001
				483 TRM35	TIME	00479001
				484+ /*	MACDATE Y-1 72277	*/ 01-TIME
				485+ /*		01-TIME
00041A	4110 0002		00002	486+TRM35	LA 1,2(0,0)	LOAD 1 TO SPECIFY UNIT 01-TIME
00041E	0A0B			487+	SVC 11	ISSUE TIME SVC 01-TIME
				488 *		00480001
000420	5010 A71C		0071C	489	ST R1,SV	USE A SAVEAREA AS A WORKAREA 00481001
000424	F342 A673 A71D 00673	0071D		490	UNPK ENDRECD,SV+1(3)	DATE OF COMPILE 00482001
00042A	5060 A660		00660	491	ST R6,ENDRECL	STORE LENGTH OF CSECT IN ENDREC 00483001
00042E	9104 D080		00080	492	TM COMPLFGS,PROC	PROCEDURE COMPILATION ? 00484001
000432	4710 A440		00440	493	BO TRM34	YES, BRANCH 00485001
000436	D207 A654 A3C6 00654	003C6		494	MVC ENDRECN,TRM29	MOVE IN ENTRY POINT ESD NAME 00486001
00043C	47F0 A44C		0044C	495	B TRM33	00487001
				496 *		00488001
000440	D202 A649 A615 00649	00615		497 TRM34	MVC ENDRECA,ADRPRP+1	ADDR TABLE IS ENTRY POINT 00489001
000446	D201 A652 A396 00652	00396		498	MVC ENDRECID,TRM32ID	GET ESD ID FOR ENTRY POINT 00490001
00044C	D203 A68C D0B0 0068C	000B0		499 TRM33	MVC ENDRECK,PIDENT	INSERT PROGRAM IDENT 00491001
000452	FA30 D0B4 AA0D 000B4	00A0D		500	AP CARDNCT,KP1	INCR SEQUENCE NUMBER 00492001
000458	F333 A690 D0B4 00690	000B4		501	UNPK ENDRECC,CARDNCT	CONVERT TO CHARACTER 00493001
00045E	96F0 A693		00693	502	OI ENDRECC+3,X'F0'	MAKE PRINTABLE 00494001
000462	9140 D081		00081	503	TM COMPLFGS+1,NLOAD	NLOAD ? 00495001
000466	4710 A47C		0047C	504	BO TRM50A	YES, BRANCH 00496001
00046A	5810 D048		00048	505	L R1,ALINDCB	R1 -> SYSLIN DCB 00497001
				507	PUT (R1)	PUT FOR SYSLIN 00499001
00046E	1811			508+	LR 1,R1	LOAD PARAMETER REG 1 02-IHBN
000470	58F0 1030		00030	509+	L 15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
000474	05EF			510+	BALR 14,15	LINK TO PUT ROUTINE 01-PUT
				512	MVC 0(L'ENDREC,R1),ENDREC	00501001
00047C	9120 D081		00081	513 TRM50A	TM COMPLFGS+1,NDECK	NODECK ? 00502001
000480	4710 A496		00496	514	BO TRM51	YES, BRANCH 00503001
000484	5810 D060		00060	515	L R1,APCHDCB	R1 -> SYSUNCH DCB 00504001
				517	PUT (R1)	PUT FOR SYSUNCH 00506001
000488	1811			518+	LR 1,R1	LOAD PARAMETER REG 1 02-IHBN
00048A	58F0 1030		00030	519+	L 15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
00048E	05EF			520+	BALR 14,15	LINK TO PUT ROUTINE 01-PUT
				522	MVC 0(L'ENDREC,R1),ENDREC	00508001
000490	D24F 1000 A644 00000	00644		523 *		00509001
				524 *	PRINT STORAGE REQUIREMENTS	00510001
				525 *		00511001
000496	92FF D099		00099	526 TRM51	MVI LINCNT+1,255	FORCE HEADINGS TO BE PRINTED 00512001
00049A	9240 D10D		0010D	527	MVI PAGEHD1C+1,C'	BLANK FIRST HEADING LINE 00513001
00049E	D26C D10E D10D 0010E	0010D		528	MVC PAGEHD1C+2(109),PAGEHD1C+1	00514001
0004A4	D263 D190 D117 00190	00117		529	MVC PAGEHD2D(L'PAGEHD2D),PAGEHD1D	BLANK SEC HEADING LINE 00515001
0004AA	D263 D209 D117 00209	00117		530	MVC PAGEHD3D(L'PAGEHD3D),PAGEHD1D	BLANK 3RD HEADING LINE 00516001
0004B0	D21D D13A A6A0 0013A	006A0		531	MVC PAGEHD1D+35(L'HEAD1),HEAD1	00517001
0004B6	4E60 A700		00700	532	CVD R6,DEC	CONVERT LENGTH OF OBJECT MODULE 00518001
0004BA	45E0 A556		00556	533	BAL R14,EDNR	EDIT TO PRINTABLE FORMAT 00519001
0004BE	D205 A6D0 A712 006D0	00712		534	MVC KOBJSZB,EDAREA+2	MOVE OBJ SIZE INTO MSG 00520001
0004C4	45E0 A546		00546	535	BAL R14,PRINTT	OBTAIN OUTPUT BUFFER 00521001
0004C8	D21D 1000 A6BE 00000	00000		536	MVC 0(KOBJSZL,R1),KOBJSZ	MOVE MSG INTO BUFFER 00522001
0004CE	45E0 A546		00546	537	BAL R14,PRINTT	OBTAIN OUTPUT BUFFER 00523001
0004D2	D216 1000 A6DC 00000	006DC		538	MVC 0(L'KDSA,R1),KDSA	SECOND PRINT LINE 00524001
0004D8	45E0 A546		00546	539	BAL R14,PRINTT	OBTAIN OUTPUT BUFFER 00525001
0004DC	4120 0005		00005	540	LA R2,5	GET NO OF ENTRIES IN ONE LINE 00526001
0004E0	D20A 1000 A6F3 00000	006F3		541 TRM60	MVC 0(L'KPBN,R1),KPBN	BUILD THIRD PRINT LINE 00527001
0004E6	4110 1012		00012	542	LA R1,L'KPBN+7(,R1)	BUMP BUFFER POINTER 00528001
0004EA	4620 A4E0		004E0	543	BCT R2,TRM60	LOOP 5 TIMES 00529001
0004EE	45E0 A546		00546	544	BAL R14,PRINTT	00530001
0004F2	5830 D61C		0061C	545	L R3,APBTAB4	INITIATE 00531001
0004F6	4880 D09E		0009E	546	LH R8,PBN	REGISTERS 00532001
0004FA	1B44			547	SR R4,R4	FOR TABLE 00533001
0004FC	4120 0005		00005	548 TRM62	LA R2,5	INITIATE FOR EACH PRINT LINE 00534001
000500	4140 4001		00001	549 TRM61	LA R4,1(,R4)	ENTRY 00535001
000504	4E40 A700		00700	550	CVD R4,DEC	00536001
000508	F321 A718 A706 00718	00706		551	UNPK BLNR,DEC+6(2)	CONVERT AND MOVE 00537001
00050E	96F0 A71A		0071A	552	OI BLNR+2,X'F0'	BLOCK 00538001
000512	D202 1000 A718 00000	00718		553	MVC 0(L'BLNR,R1),BLNR	NUMBER 00539001
000518	4130 3008		00008	554	LA R3,8(,R3)	GET PBTAB ENTRY 00540001
00051C	48B0 3004		00004	555	LH R11,4(,R3)	GET DSA SIZE 00541001
000520	4EB0 A700		00700	556	CVD R11,DEC	CONVERT TO DECIMAL 00542001
000524	45E0 A556		00556	557	BAL R14,EDNR	EDIT 00543001
000528	D204 1006 A713 00006	00713		558	MVC 6(5,R1),EDAREA+3	MOVE IN VALUE 00544001
00052E	0680			559 TRM65	BCTR R8,0	00545001
000530	1288			560	LTR R8,R8	ALL PBTAB ENTRIES HANDLED ? 00546001
000532	4780 A564		00564	561	BZ TRM37	YES 00547001
000536	4110 1012		00012	562	LA R1,18(,R1)	MAKE NEXT ENTRY 00548001
00053A	4620 A500		00500	563	BCT R2,TRM61	IF LINE NOT FULL 00549001
00053E	45E0 A546		00546	564	BAL R14,PRINTT	OBTAIN PRINT BUFFER 00550001
000542	47F0 A4FC		004FC	565	B TRM62	00551001
				566 *		00552001
				567 *	OBTAIN OUTPUT BUFFER	00553001
				568 *		00554001
				569 *	ON RETURN R1 -> BUFFER	00555001
				570 *		00556001
000546	90EF A71C		0071C	571 PRINTT	STM R14,R15,SV	SAVE R14 AND R15 00557001
00054A	58F0 D0B8		000B8	572	L R15,PRTRTADD	00558001
00054E	05EF			573	BALR R14,R15	CALL PRINT ROUTINE 00559001
000550	98EF A71C		0071C	574	LM R14,R15,SV	RESTORE REGS 00560001
000554	07FE			575	BR R14	00561001

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					576	*					00562001
					577	*	EDIT	DECIMAL NUMBER			00563001
					578	*					00564001
000556	D207	A710	A708	00710	00708	579	EDNR	MVC	EDAREA,EDPTRN	MOVE PATTERN	00565001
00055C	DE07	A710	A704	00710	00704	580		ED	EDAREA,DEC+4	EDIT	00566001
000562	07FE					581		BR	R14		00567001
					582	*					00568001
					583	*	DIRECTORY	RETURN BEFORE FREEMAIN			00569001
					584	*					00570001
			00564		585	IEX51ER1	EQU	*			00571001
000564	5820	D62C		0062C	586	TRM37	L	R2,FREEMSIZ		GET INFO FOR AREA RELEASE	00572001
000568	5810	D628		00628	587		L	R1,FREEMADR			00573001
					588	*					00574001
					589			FREEMAIN R,LV=(2),A=(1)		RELEASE AREA	00575001
					590+	*		05/VS2 RELEASE 3 VERSION -- 10/25/74			01-FREEM
00056C	1802				591+		LR	0,2		LOAD LENGTH	01-FREEM
00056E	4110	1000		00000	592+		LA	1,0(0,1)		CLEAR HI ORDER BYTE	01-FREEM
000572	0A0A				593+		SVC	10		ISSUE FREEMAIN SVC	01-FREEM
					594	*					00576001
000574	05F0				595		BALR	R15,0		LOAD NEW BASE REGISTER	00577001
					596	*					00578001
			00576		597	IEX51ER2	EQU	*		TERMINATION	00579001
			R:F 00576		598		USING	*,R15			00580001
** TXA533W USING range overlaps prior USING at statement 150.											
** TXA301I Record 580 in SYSD.ALGOLF.ASM(IEX51)											
					599	*					00581001
000576	5820	F012		00588	600	TRM38	L	R2,=A(IEX60000)		R2 -> IEX60000	00582001
00057A	58E0	F016		0058C	601		L	R14,=A(IEX51002)		LOAD RETURN ADDR	00583001
00057E	4110	F1CA		00740	602		LA	R1,ERRINFO		ADDR INFO FOR ERROR ED ROUT	00584001
000582	07F2				603		BR	R2		GOTO ERROR MESSAGE EDITING	00585001
					604	*					00586001
					605	*	LTORG				00587001
					606	*					00588001
000588					607		LTORG				00589001
000588	00000A10				608			=A(IEX60000)			
00058C	00001238				609			=A(IEX51002)			
					610	*					00590001
					611		DROP	R15			00591001
					612	*					00592001
					613	*		GENERATE A PATTERN FOR ERROR MSG 188			00593001
					614	*					00594001
000590	1899				615	ERR188	SR	R9,R9			00595001
000592	4190	000A		0000A	616		LA	R9,10			00596001
000596	19B9				617		CR	R11,R9		DS NUMBER 9 OR LOWER	00597001
000598	4740	A5B4		005B4	618		BL	ER1		YES	00598001
00059C	18B9				619		SR	R11,R9		NO, SUBTRACT 10	00599001
00059E	42B0	A72F		0072F	620		STC	R11,EP188+11		STORE	00600001
0005A2	DC00	A72F	A735	0072F	00735						

Loc	Object	Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17 13.13
000635	00				669+	Q	DC	X'00'	
000636	0000				670+	DSF	DC	H'00'	NO OF RECORDS PER SECTION
					671+	*			DATASET FLAGS
					672+	*			
					673+	*			
					674+	DS0	EQU	X'80'	
			00080		675+	DS1	EQU	X'40'	DATASET OPEN
			00040		676+	DS2	EQU	X'20'	
			00020		677+	DS3	EQU	X'10'	LAST I/O OUTPUT
			00010		678+	DS4	EQU	X'08'	
			00008		679+	DS5	EQU	X'04'	
			00004		680+	DS6	EQU	X'02'	
			00002		681+	DS7	EQU	X'01'	OPEN FOR OUTPUT
			00001		682+	*			END OF FILE
					683+	*			
					684+	*			
			00080		685+	DS8	EQU	X'80'	
			00040		686+	DS9	EQU	X'40'	END OF DATA
			00020		687+	DS10	EQU	X'20'	
			00010		688+	DS11	EQU	X'10'	OPENED BY SYSACT 12
			00008		689+	DSEOD	EQU	X'08'	INDICATE IHIERR-ROUT
			00004		690+	DSIOERR	EQU	X'04'	
			00002		691+	DS14	EQU	X'02'	I/O ERROR
			00001		692+	DS15	EQU	X'01'	DATASET OPENED
					693+	*			CLOSE FROM IHIERR
000638	00000000				694+	NOTEADR	DC	F'0'	
00063C	0000				695+	BL	DC	H'0'	
00063E	0000				696+		DC	H'0'	LRECL+ TWO ARB
					697+	*			
			00024		698+	DSTABLEL	EQU	*-DSTABLE	
					699+	*			L'DSTABLE ENTRY
					700	*			
000640	0000				701	DSTABLGT	DC	H'0'	
					702	*			LENGTH OF DSTAB WITHOUT PGCF
					703	*			
					704	*			
000642	0000				705		DC	0F'0'	
000644					706	ENDREC	DC	CL80' '	
000644	4040404040404040				707		ORG	ENDREC	
000644	02		00694	00644	708		DC	X'02'	
000645	C5D5C4				709		DC	C'END'	
000648	40				710		DC	C' '	
000649	404040				711	ENDRECA	DC	C' '	
00064C	404040404040				712		DC	C' '	
000652	4040				713	ENDRECID	DC	C' '	
000654	4040404040404040				714	ENDRECN	DC	C' '	
00065C	40404040				715		DC	C' '	
000660	40404040				716	ENDRECL	DC	C' '	
000664	F1				717		DC	C'1'	
000665	F3F6F0E2C1D3F5F3				718		DC	C'360SAL531 '	
00066F	F0F2F0F1				719		DC	C'0201'	
000673	F9F9F9F9F9F9				720	ENDRECD	DC	C'99999'	
000678			00678	0068C	721		ORG	ENDREC+72	
00068C	40404040				722	ENDRECK	DC	CL4' '	
000690	40404040				723	ENDRECC	DC	CL4' '	
000694			00694	00694	724		ORG	,	
					725	*			
000694	00000000				726	APBT	DC	A(0)	
000698	00000000				727	ALAT	DC	A(0)	
00069C	20				728	SW	DC	X'20'	
00069D	000000				729	ASTART	DC	AL3(0)	
					730	*			



Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				760	*		00700001
00074C	E2E8E2C3E3			761	SHRTAB	DC C'SYSCT'	00701001
000751	E2E2D84040			762		DC C'SSQ'	00702001
000756	E2E2C3E240			763		DC C'SSCS'	00703001
00075B	E2E2C3C340			764		DC C'SSCC'	00704001
000760	E2C1E34040			765		DC C'SAT'	00705001
000765	E2D3D64040			766		DC C'SLO'	00706001
00076A	E2C5E74040			767		DC C'SEX'	00707001
00076F	C9E2E8D4C2			768		DC C'ISYMB'	00708001
000774	C9C4C5C9D9			769		DC C'IDEIR'	00709001
000779	C9C4C5C9C9			770		DC C'IDEII'	00710001
00077E	C9C2D6D6D3			771		DC C'IBOOL'	00711001
000783	C9C1D9D9E8			772		DC C'IARRY'	00712001
000788	C9C1D9D9E3			773		DC C'IARRT'	00713001
00078D	C9C2C1D9D9			774		DC C'IBARR'	00714001
000792	D6E2E8D4C2			775		DC C'OSYMB'	00715001
000797	E2D6D9C5D3			776		DC C'SOREL'	00716001
00079C	D6C9D5E3C7			777		DC C'OINTG'	00717001
0007A1	D6C2D6D6D3			778		DC C'OBOOL'	00718001
0007A6	D6C1D9D9E8			779		DC C'OARRY'	00719001
0007AB	D6E3C1D9D9			780		DC C'OTARR'	00720001
0007B0	D6C2C1D9D9			781		DC C'OBARR'	00721001
0007B5	D6E2E3D9C7			782		DC C'OSTRG'	00722001
0007BA	C7D7D9D7E3			783		DC C'GPRPT'	00723001
0007BF	C7D7D9C7E3			784		DC C'GPRGT'	00724001
0007C4	C6C9C94040			785		DC C'FII'	00725001
0007C9	C6D9C94040			786		DC C'FRI'	00726001
0007CE	C6D9D94040			787		DC C'FRR'	00727001
				788	*		00728001
				789	*	LIBRARY ROUTINES - LONG	00729001
				790	*		00730001
0007D3	E2E8E2C3E3			791	LNGTAB	DC C'SYSCT'	00731001
0007D8	D3E2D84040			792		DC C'LSQ'	00732001
0007DD	D3E2C3E240			793		DC C'LSCS'	00733001
0007E2	D3E2C3C340			794		DC C'LSCC'	00734001
0007E7	D3C1E34040			795		DC C'LAT'	00735001
0007EC	D3D3D64040			796		DC C'LLO'	00736001
0007F1	D3C5E74040			797		DC C'LEX'	00737001
0007F6	C9E2E8D4C2			798		DC C'ISYMB'	00738001
0007FB	C9C4C5C9D9			799		DC C'IDEIR'	00739001
000800	C9C4C5C9C9			800		DC C'IDEII'	00740001
000805	C9C2D6D6D3			801		DC C'IBOOL'	00741001
00080A	C9C1D9D9E8			802		DC C'IARRY'	00742001
00080F	C9C1D9D9E3			803		DC C'IARRT'	00743001
000814	C9C2C1D9D9			804		DC C'IBARR'	00744001
000819	D6E2E8D4C2			805		DC C'OSYMB'	00745001
00081E	D3D6D9C5D3			806		DC C'LOREL'	00746001
000823	D6C9D5E3C7			807		DC C'OINTG'	00747001
000828	D6C2D6D6D3			808		DC C'OBOOL'	00748001
00082D	D6C1D9D9E8			809		DC C'OARRY'	00749001
000832	D6E3C1D9D9			810		DC C'OTARR'	00750001
000837	D6C2C1D9D9			811		DC C'OBARR'	00751001
00083C	D6E2E3D9C7			812		DC C'OSTRG'	00752001
000841	C7D7D9D7E3			813		DC C'GPRPT'	00753001
000846	C7D7D9C7E3			814		DC C'GPRGT'	00754001
00084B	C6C9C94040			815		DC C'FII'	00755001
000850	C6C4C94040			816		DC C'FDI'	00756001
000855	C6C4C44040			817		DC C'FDD'	00757001
				818	*		00758001
				819	*****		00759001
				820	*		00760001
				821	*	SUBROUTINE GENERATE	00761001
				822	*		00762001
				823	*****		00763001
				824	*		00764001
				825	*	REGISTER DEFINITIONS	00765001
				826	*		00766001
				827	*	R1	00767001
				828	*	R2	00768001
				829	*	R3	00769001
				830	*	R4	00770001
				831	*	R14	00771001
				832	*	R15	00772001
				833	*		00773001
				834	*	BIT PATTERNS	00774001
				835	*		00775001
	00000			836	SDENTRY	EQU X'00'	00776001
	00001			837	LDENTRY	EQU X'01'	00777001
	0000C			838	RLDFLAG	EQU B'00001100'	00778001
				839	*		00779001
				840	*	GENERATE ESD RECORDS	00780001
				841	*		00781001
	00085A	41E0	0010	842	GENESD	LA R14,16	00782001
	00085E	4130	A968	843		LA R3,ESDT	00783001
	000862	47F0	A88C	844		B GEN1	00784001
				845	*		00785001
				846	*	GENERATE TXT RECORDS	00786001
				847	*		00787001
	000866	4140	E002	848	GENTXTS	LA R4,2(,R14)	00788001
	00086A	48E0	E000	849		LH R14,0(,R14)	00789001
	00086E	4130	A9A8	850	GEN2	LA R3,TXTT	00790001
	000872	47F0	A88C	851		B GEN1	00791001
				852	*		00792001
				853	*	GENERATE RLD RECORDS	00793001
				854	*		00794001
	000876	4140	E006	855	GENRLD	LA R4,6(,R14)	00795001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
00087A	4130 A9CE		009CE	856	LA	R3,RLDT	INDICATE RLD CALL 00796001
00087E	D203 A9D6 E002 009D6	00002		857	MVC	RANDP(4),2(R14)	INSERT NEW R AND P 00797001
000884	48E0 E000	00000		858	LH	R14,0(,R14)	LOAD LENGTH GIVEN IN CALL 00798001
000888	89E0 0001	00001		859	SLL	R14,1	DOUBLE LENGTH 00799001
00088C	5810 D0A8	000A8		860	L	R1,SAVOUTA	LOAD ADDR OF OUT RECORD 00800001
000890	D502 1001 3001 00001	00001		861	CLC	1(3,R1),1(R3)	RECORD RIGHT TYPE ? 00801001
000896	4770 A8CE	008CE		862	BNE	GEN3	NO, CALL FOR NEW 00802001
00089A	D501 100A 300C 0000A	0000C		863	CLC	10(2,R1),12(R3)	RECORD FILLED ? 00803001
0008A0	47B0 A8CE	008CE		864	BNL	GEN3	YES, CALL FOR NEW 00804001
0008A4	41F0 0038	00038		865	LA	R15,56	00805001
0008A8	4800 100A	0000A		866	LH	R0,10(,R1)	R0=LENGTH OF DATA IN REC 00806001
0008AC	1BF0			867	SR	R15,R0	R15=EMPTY POS LEFT IN RECORD 00807001
0008AE	19FE			868	CR	R15,R14	ENOUGH SPACE LEFT ? 00808001
0008B0	4740 A8B6	008B6		869	BL	*+6	NO 00809001
0008B4	18FE			870	LR	R15,R14	YES, R15=LENGTH FROM CALL 00810001
0008B6	1AF0			871	AR	R15,R0	00811001
0008B8	40F0 100A	0000A		872	STH	R15,10(,R1)	INSERT NEW LENGTH INTO RECORD 00812001
0008BC	1BF0			873	SR	R15,R0	00813001
0008BE	1A10			874	AR	R1,R0	START ADDR WITHIN RECORD 00814001
0008C0	1BEF			875	SR	R14,R15	REMAINING LENGTH 00815001
0008C2	47F0 300E	0000E		876	B	14(,R3)	TO DIFFERENT MOVE ROUTINES 00816001
				877 *			00817001
0008C6	12EE			878	GEN4	LTR R14,R14	MORE INFORMATION MUST BE MOVED ? 00818001
0008C8	4720 A8CE	008CE		879	BH	GEN3	YES 00819001
0008CC	07F4			880	BR	R4	NO, RETURN 00820001
				881 *			00821001
				882 *		CALL FOR NEW OUTPUT RECORD	00822001
				883 *			00823001
0008CE	50E0 AA00	00A00		884	GEN3	ST R14,SAVELT	SAVE LENGTH 00824001
0008D2	9160 D081	00081		885	TM	COMPLFGS+1,NLOAD+NDECK	DECK AND LOAD SPECIFIED ? 00825001
0008D6	4780 A8FE	008FE		886	BZ	BOTH	YES 00826001
0008DA	9120 D081	00081		887	TM	COMPLFGS+1,NDECK	ONLY DECK ? 00827001
0008DE	5810 D060	00060		888	L	R1,APCHDCB	R1 -> SYSPUNCH DCB 00828001
0008E2	4780 A8EA	008EA		889	BZ	PUT1	YES 00829001
0008E6	5810 D048	00048		890	PUT1A	L R1,ALINDCB	R1 -> SYSLIN DCB 00830001
				891 *			00831001
				892	PUT1	PUT (R1)	PUT FOR SYSLIN AND SYSPUNCH IF 00832001
0008EA	1811			893+PUT1	LR	1,R1	LOAD PARAMETER REG 1 02-IHBN
0008EC	58F0 1030	00030		894+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
0008F0	05EF			895+	BALR	14,15	LINK TO PUT ROUTINE 01-PUT
				896 *			00833001
0008F2	5010 D0A8	000A8		897	ST	R1,SAVOUTA	ONLY SYSPUNCH SPECIFIED 00834001
0008F6	58E0 AA00	00A00		898	L	R14,SAVELT	RESTORE LENGTH 00835001
0008FA	47F0 A920	00920		899	B	PUNCHOUT	00836001
				900 *			00837001
0008FE	58E0 D0AC	000AC		901	BOTH	L R14,OUTAREA2	COPY SYSLIN BUFFER TO SYSPUNCH 00838001
000902	5810 D0A8	000A8		902	L	R1,SAVOUTA	00839001
000906	D24F E000 1000 00000	00000		903	MVC	0(80,R14),0(R1)	BUFFER 00840001
00090C	5810 D060	00060		904	PUT2	L R1,APCHDCB	R1 -> SYSPUNCH DCB 00841001
				905 *			00842001
				906	PUT	(R1)	PUT FOR SYSPUNCH WHEN BOTH HAS 00843001
000910	1811			907+	LR	1,R1	LOAD PARAMETER REG 1 02-IHBN
000912	58F0 1030	00030		908+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 01-PUT
000916	05EF			909+	BALR	14,15	LINK TO PUT ROUTINE 01-PUT
				910 *			00844001
000918	5010 D0AC	000AC		911	ST	R1,OUTAREA2	BEEN SPECIFIED 00845001
00091C	47F0 A8E6	008E6		912	B	PUT1A	GOTO PUT SYSLIN 00846001
				913 *			00847001
000920	D203 1000 3000 00000	00000		914	PUNCHOUT	MVC 0(4,R1),0(R3)	INSERT FIRST 4 BYTES 00848001
000926	9240 1004	00004		915	MVI	4(R1),C' '	INSERT ONE BLANK 00849001
00092A	D242 1005 1004 00005	00004		916	MVC	5(67,R1),4(R1)	BLANK OUTPUT RECORD 00850001
000930	D203 1048 D0B0 00048	000B0		917	MVC	72(4,R1),PIDENT	INSERT PROGRAM IDENT 00851001
000936	FA30 D0B4 AA0D 000B4	000B4		918	AP	CARDCNT,KP1	INCR SEQUENCE NUMBER 00852001
00093C	F333 104C D0B4 0004C	000B4		919	UNPK	76(4,R1),CARDCNT	CONVERT TO CHARACTER 00853001
000942	96F0 104F 0004F			920	OI	79(R1),X'F0'	MAKE PRINTABLE 00854001
000946	D201 100A 3004 0000A	00004		921	MVC	10(2,R1),4(R3)	INSERT INITIAL LENGTH 00855001
00094C	D205 100E 3006 0000E	00006		922	MVC	14(6,R1),6(R3)	INSERT ESID + R AND P 00856001
000952	D502 A9A9 3001 009A9	00001		923	CLC	TEXTT+1(3),1(R3)	TEXT RECORD PROCESSED ? 00857001
000958	4770 A8A4	008A4		924	BNE	GEN6	NO 00858001
00095C	5061 0004	00004		925	ST	R6,4(R1)	YES, INSERT R6 00859001
000960	9240 1004	00004		926	MVI	4(R1),C' '	00860001
000964	47F0 A8A4	008A4		927	B	GEN6	00861001
				928 *			00862001
				929 *		ESD RECORD	00863001
				930 *			00864001
000968				931	DC	0H'0'	00865001
000968	02			932	ESDT	DC X'02'	RECORD CODE 00866001
000969	C5E2C4			933	DC	C'ESD'	IDENTIFICATION 00867001
00096C	0000			934	DC	H'0'	INITIAL LENGTH 0 00868001
00096E	404040404040			935	DC	C' '	00869001
000974	0030			936	DC	H'48'	MAXIMUM LENTH IN RECORD 00870001
				937 *			00871001
				938 *		MOVE ESD INFORMATION TO OUTAREA	00872001
				939 *			00873001
000976	D20F 1010 2000 00010	00000		940	GEN7	MVC 16(16,R1),0(R2)	MOVE DATA TO OUTAREA 00874001
00097C	9501 2008	00008		941	CLI	8(R2),LDENTRY	LD ENTRY MOVED ? 00875001
000980	4782 0010	00010		942	BE	16(R2)	YES, RETURN TO CALLING ROUTINE 00876001
000984	D206 1019 AA06 00019	00A06		943	MVC	25(L'ESDCON,R1),ESDCON	CHANGE LAST PART OF ENTRY 00877001
00098A	4830 AA04	00A04		944	LH	R3,ESID	00878001
00098E	4130 3001	00001		945	LA	R3,1(,R3)	INCR ESD ID 00879001
000992	4030 AA04	00A04		946	STH	R3,ESID	STORE NEW ESID NUMBER 00880001
000996	1B10			947	SR	R1,R0	00881001
000998	9540 100E	0000E		948	CLI	14(R1),C' '	FIRST SD OR ER ENTRY ? 00882001
00099C	4772 000A	0000A		949	BNE	10(R2)	NO, RETURN TO CALLING ROUTINE 00883001
0009A0	4031 000E	0000E		950	STH	R3,14(R1)	YES, INSERT ESID NUMBER 00884001
0009A4	47F2 000A	0000A		951	B	10(R2)	RETURN TO CALLING ROUTINE 00885001

Loc	Object Code	Addr1	Addr2	Stmnt	Source Statement	X390 3.1.04 2012/08/17 13.13
				952 *		00886001
				953 *	TXT RECORD	00887001
				954 *		00888001
0009A8				955	DC 0H'0'	00889001
0009A8 02				956 TXTT	DC X'02'	00890001
0009A9 E3E7E3				957	DC C'TXT'	00891001
0009AC 0000				958	DC H'0'	00892001
0009AE 0001				959	DC H'1'	00893001
0009B0 40404040				960	DC C' '	00894001
0009B4 0038				961	DC H'56'	00895001
				962 *		00896001
				963 *	MOVE TXT INFORMATION OUTAREA	00897001
				964 *		00898001
0009B6 06F0				965 GEN8	BCTR R15,0	00899001
0009B8 42F0 A9BD		009BD		966	STC R15,*+5	00900001
0009BC D200 1010 2000 00010 00000				967	MVC 16(0,R1),0(R2)	00901001
0009C2 416F 6001		00001		968	LA R6,1(R15,R6)	00902001
0009C6 412F 2001		00001		969	LA R2,1(R15,R2)	00903001
0009CA 47F0 A8C6		008C6		970	B GEN4	00904001
				971 *		00905001
				972 *	RLD RECORD	00906001
				973 *		00907001
0009CE				974	DC 0H'0'	00908001
0009CE 02				975 RLDT	DC X'02'	00909001
0009CF D9D3C4				976	DC C'RLD'	00910001
0009D2 0000				977	DC H'0'	00911001
0009D4 4040				978	DC C' '	00912001
0009D6 40404040				979 RANDP	DC C' '	00913001
0009DA 0038				980	DC H'56'	00914001
				981 *		00915001
				982 *	MOVE RLD INFORMATION TO OUTAREA	00916001
				983 *		00917001
0009DC 1AF1				984 GEN9	AR R15,R1	00918001
0009DE D203 1010 A9D6 00010 009D6				985 GEN5	MVC 16(4,R1),RANDP	00919001
0009E4 5020 1014		00014		986	ST R2,20(,R1)	00920001
0009E8 920C 1014		00014		987	MVI 20(R1),RLDFLAG	00921001
0009EC 4110 1008		00008		988	LA R1,8(,R1)	00922001
0009F0 4120 2004		00004		989	LA R2,4(,R2)	00923001
0009F4 191F				990	CR R1,R15	00924001
0009F6 4740 A9DE		009DE		991	BL GEN5	00925001
0009FA 47F0 A8C6		008C6		992	B GEN4	00926001
				993 *		00927001
				994 *	VARIABLES AND CONSTANTS	00928001
				995 *		00929001
0009FE 0000						
000A00 00000000				996 SAVELT	DC F'0'	00930001
000A04 0001				997 ESID	DC H'1'	00931001
000A06 00000040404040				998 ESDCON	DC X'00000040404040'	00932001
000A0D 1C				999 KP1	DC PL1'1'	00933001
				1000 *		00934001

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement
				1002 *	
				1003	COPY IEX60000

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00936001  
00937001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13	
				1005=*				00002001	
				1006=*		COMPONENT ID - 360S-AL-531 ALGOL F COMPILER		00003001	
				1007=*				00004001	
000A10		00A10	00824	1008=	IEX60000	CSECT		00005001	
				1009=*				00006001	
	R:2	00A10		1010=		USING IEX60000,R2		00007001	
				1011=*				00008001	
				1012=*		REGISTER DEFINITIONS		00009001	
				1013=*				00010001	
				1014=*	R1	POINTS TO PARAMETER LIST		00011001	
				1015=*	R1	RETURNS ADDR OF PRINT BUFFER		00012001	
				1016=*	R2	BASE REGISTER FOR COTEMER		00013001	
				1017=*	R4	BASE REGISTER FOR MESSAGE POOL		00014001	
				1018=*	R5	POINTER TO ENTRY IN ERROR POOL		00015001	
				1019=*	R6	POINTER TO INSERTION CODE		00016001	
				1020=*	R7	POINTER TO ENTRY IN MSG POOL		00017001	
				1021=*	R14	PTR TO MESSAGE TEXT WORKAREA		00018001	
				1022=*				00019001	
				1023=*		INITIALIZATION		00020001	
				1024=*				00021001	
	R:D	00000		1025=		USING WORKAREA,R13	BASEREG FOR WORKAREA DSECT	00022001	
000A10	D209	2518	1000	00F28	00000	MVC AWEMPOOL(10),0(R1)	GET ADDR AND MOD NUMBER	00023001	
000A16	4190	233E		00D4E	1027=	COT00 LA R9,WDIRET1	STORE RETURN ADDR	00024001	
000A1A	5090	D090		00090	1028=	ST R9,ERET	IN WORKAREA	00025001	
000A1E	90EF	252C		00F3C	1029=	STM R14,R15,SVAR1	SAVE RETURN ADDR AND BASE	00026001	
000A22	9190	D082		00082	1030=	TM COMPFLLGS+2,PRT+PRTNO	SYSPRINT DOWN/NOT OPENED ?	00027001	
000A26	4770	2346		00D56	1031=	BNZ COT18	YES, GIVE CONSOLE MESSAGE	00028001	
000A2A	5850	D08C		0008C	1032=	L R5,ERRPOOL	ADDR ERROR POOL	00029001	
000A2E	5550	D0C0		000C0	1033=	CL R5,NEXTERR	ERROR POOL EMPTY ?	00030001	
000A32	4780	231C		00D2C	1034=	BE COT28	YES	00031001	
000A36	D50A	D133	24DE	00133	00EEE	CLC PAGEHEAD+39(L'HEADD1),HEADD1	HEADINGS ALREADY SET ?	00032001	
000A3C	4780	2056		00A66	1036=	BE COT01	YES, BYPASS HEADINGS	00033001	
000A40	92FF	D099		00099	1037=	MVI LINCNT+1,255	FORCE HEADINGS TO BE PRINTED	00034001	
000A44	9240	D10D		0010D	1038=	MVI PAGEHDC+1,C' '	BLANK FIRST HEADING LINE	00035001	
000A48	D26C	D10E	D10D	0010E	0010D	1039=	MVC PAGEHDC+2(109),PAGEHDC+1	00036001	
000A4E	D263	D190	D117	00190	00117	1040=	MVC PAGEHD2D(L'PAGEHD2D),PAGEHD1D	BLANK 2ND HEADING LINE	00037001
000A54	D263	D209	D117	00209	00117	1041=	MVC PAGEHD3D(L'PAGEHD3D),PAGEHD1D	BLANK 3RD HEADING LINE	00038001
000A5A	D20A	D13E	24DE	0013E	00EEE	1042=	MVC PAGEHD1D+39(L'HEADD1),HEADD1	MOVE IN HEADD1	00039001
000A60	D21A	D190	24E9	00190	00EF9	1043=	MVC PAGEHD2D(L'HEADD2),HEADD2	MOVE IN HEADD2	00040001
				1044=*				00041001	
				1045=*		HANDLING OF THE ENTRIES IN ERROR POOL		00042001	
				1046=*				00043001	
000A66	5840	2518		00F28	1047=	COT01 L R4,AWEMPOOL	ADDR ERROR MESSAGE POOL	00044001	
000A6A	1B77				1048=	SR R7,R7		00045001	
000A6C	4370	5001		00001	1049=	IC R7,1(,R5)	GET ERROR MSG NUMBER	00046001	
000A70	41A0	00C8		000C8	1050=	LA R10,200		00047001	
000A74	197A				1051=	CR R7,R10	DIRECTORY MESSAGE ?	00048001	
000A76	4740	2070		00A80	1052=	BL COT36	NO	00049001	
000A7A	48A0	2520		00F30	1053=	LH R10,MODNUMB	YES, MODIFY NUMBER	00050001	
000A7E	1B7A				1054=	SR R7,R10		00051001	
000A80	8970	0002		00002	1055=	COT36 SLL R7,2	GET IT FOUR TIMES	00052001	
000A84	5890	251C		00F2C	1056=	L R9,AWADDTAB	ADDR ADDR TABLE	00053001	
000A88	1A79				1057=	AR R7,R9	GET CORRECT ENTRY	00054001	
000A8A	5870	7000		00000	1058=	L R7,0(,R7)	LOAD ADDR TO ENTRY IN ERMSG POOL	00055001	
				1059=*				00056001	
				1060=*		GET LENGTH OF INSERT CODE PART		00057001	
				1061=*				00058001	
000A8E	4160	7002		00002	1062=	COT02 LA R6,2(,R7)	POINT TO FIRST INSERTION CODE	00059001	
000A92	1B99				1063=	SR R9,R9		00060001	
000A94	4390	7001		00001	1064=	IC R9,1(,R7)	GET NUMBER OF INSERTION CODES	00061001	
000A98	18A9				1065=	LR R10,R9		00062001	
000A9A	18C9				1066=	LR R12,R9		00063001	
000A9C	41C0	C001		00001	1067=	LA R12,1(,R12)	SET INSERTION CODE COUNTER	00064001	
000AA0	8990	0001		00001	1068=	SLL R9,1	DOUBLE IT	00065001	
000AA4	1A9A				1069=	AR R9,R10	GET IT 3 TIMES	00066001	
				1070=*				00067001	
				1071=*		HANDLE SEVERITY CODE		00068001	
				1072=*				00069001	
000AA6	41A9	7002		00002	1073=	COT03 LA R10,2(R9,R7)	GET ADDR TO BYTE BEFORE TEXT	00070001	
000AAA	D200	23D9	A000	00DE9	00000	1074=	MVC WAREA+9(1),0(R10)	INSERT SEVERITY CODE	00071001
000AB0	95E6	A000		00000	1075=	CLI 0(R10),C'W'		00072001	
000AB4	4770	20B0		00AC0	1076=	BNE COT03A		00073001	
000AB8	9620	D080		00080	1077=	OI COMPFLLGS,WERR	SET WARNING MESSAGE	00074001	
000ABC	47F0	20C8		00AD8	1078=	B COT04		00075001	
				1079=*				00076001	
000AC0	95E2	A000		00000	1080=	COT03A CLI 0(R10),C'S'		00077001	
000AC4	4770	20C4		00AD4	1081=	BNE COT03B		00078001	
000AC8	9610	D080		00080	1082=	OI COMPFLLGS,SERR	SET SEVERE ERROR	00079001	
000ACC	9680	D080		00080	1083=	OI COMPFLLGS,COMPmode	SET SYNTAX CHECK MODE	00080001	
000AD0	47F0	20C8		00AD8	1084=	B COT04		00081001	
				1085=*				00082001	
000AD4	9608	D080		00080	1086=	COT03B OI COMPFLLGS,TERR	SET BIT FOR TERMINATING ERROR	00083001	
				1087=*				00084001	
				1088=*		INSERTION OF MSG NUMBER AND SEMICOLON COUNTER		00085001	
				1089=*				00086001	
000AD8	1BA A				1090=	COT04 SR R10,R10	CLEAR REG	00087001	
000ADA	43A5	0001		00001	1091=	IC R10,1(R5)	GET ERROR MSG NUMBER	00088001	
000ADE	4EA0	23C8		00DD8	1092=	CVD R10,WDEC+8		00089001	
000AE2	F327	23D3	23C8	00DE3	00DD8	1093=	UNPK WAREA+3(3),WDEC+8(8)	CONVERT TO PRINTABLE DECIMAL	00090001
000AE8	96F0	23D5		00DE5	1094=	OI WAREA+5,X'F0'	MAKE CHAR PRINTABLE	00091001	
000AEC	9180	5000		00000	1095=	TM 0(R5),X'80'	BLANKS FOR SC ?	00092001	
000AF0	4780	20F2		00B02	1096=	BZ COT26	NO	00093001	
000AF4	D204	23DC	2534	00DEC	00F44	1097=	MVC WAREA+12(5),BLANKS	YES, MOVE BLANKS	00094001
000AFA	947F	5000		00000	1098=	NI 0(R5),X'7F'	REMOVE TAG	00095001	
000AFE	47F0	2104		00B14	1099=	B COT31		00096001	
				1100=*				00097001	

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000B02	48A0 5002		00002	1101=COT26	LH	R10,2(,R5)	GET SEMICOLON COUNTER 00098001
000B06	4EA0 23C8		00DD8	1102=	CVD	R10,WDEC+8	00099001
000B0A	F347 23DC	23C8 00DEC	00DD8	1103=	UNPK	WAREA+12(5),WDEC+8(8)	CONVERT TO READABLE DECIMAL 00100001
000B10	96F0 23E0		00DF0	1104=	OI	WAREA+16,X'F0'	MAKE CHAR PRINTABLE 00101001
				1105=*			00102001
				1106=*			00103001
				1107=*		INSERTION OF FIXED MESSAGE	00104001
000B14	41E0 23E4		00DF4	1108=COT31	LA	R14,WAREA+20	POINT TO FIRST TEXTBYTE IN WAREA 00105001
000B18	9500 7001	00001		1109=	CLI	1(R7),0	ANY INSERTION CODE ? 00106001
000B1C	4770 2126		00B36	1110=	BNE	COT05	YES 00107001
000B20	41A0 7003		00003	1111=	LA	R10,3(,R7)	GET ADDR OF MSG TXT 00108001
000B24	18BB			1112=	SR	R11,R11	00109001
000B26	43B0 7000		00000	1113=	IC	R11,0(,R7)	GET L'ENTRY 00110001
000B2A	1AB7			1114=	AR	R11,R7	GET NEXT ENTRY 00111001
000B2C	18BA			1115=	SR	R11,R10	GET L'MSG TXT 00112001
000B2E	44B0 23AC		00DBC	1116=	EX	R11,WMOVE1	MOVE MSG TXT TO WORKAREA 00113001
000B32	41EB E001		00001	1117=	LA	R14,1(R11,R14)	UPDATE WAREA POINTER 00114001
000B36	46C0 212E		00B3E	1118=COT05	BCT	R12,COT06	GOTO INS CODE TREATMENT IF ANY 00115001
000B3A	47F0 222E		00C3E	1119=	B	COT12	ALL INS CODES TREATED 00116001
				1120=*			00117001
				1121=*		INSERTION CODE TREATMENT	00118001
				1122=*			00119001
				1123=*		TEST ACTION PART OF INSERT CODE	00120001
				1124=*			00121001
000B3E	4190 000F		0000F	1125=COT06	LA	R9,15	LOAD REG TO ZERO HIGHORDER BITS 00122001
000B42	1BAA			1126=	SR	R10,R10	00123001
000B44	18BB			1127=	SR	R11,R11	00124001
000B46	91F0 6000		00000	1128=	TM	0(R6),X'F0'	00125001
000B4A	4710 215A		00B6A	1129=	BO	COT37	GOTO 'INSERT BLANKS' 00126001
000B4E	47B0 2174		00B84	1130=	BZ	COT30	GOTO 'INSERT MESSAGE TEXT' 00127001
000B52	9180 6000		00000	1131=	TM	0(R6),X'80'	00128001
000B56	4710 2190		00BA0	1132=	BO	COT07	GOTO 'UNALTERED TEXT' 00129001
000B5A	9140 6000		00000	1133=	TM	0(R6),X'40'	00130001
000B5E	4710 21A6		00BB6	1134=	BO	COT10	GOTO 'ALGOL SYMBOL' 00131001
000B62	9120 6000		00000	1135=	TM	0(R6),X'20'	00132001
000B66	4710 220E		00C1E	1136=	BO	COT33	GOTO 'INTERNAL CHARACTERS' 00133001
				1137=*			00134001
				1138=*		INSERTION OF BLANKS AT END OF PRTLIN	00135001
				1139=*			00136001
000B6A	4130 242A		00E3A	1140=COT37	LA	R3,WAREA+90	CALC FREE SPACE ON 1ST PRT LINE 00137001
000B6E	1B3E			1141=	SR	R3,R14	00138001
000B70	47D0 2188		00B98	1142=	BNP	COT09	BYPASS BLANKING IF LINE FULL 00139001
000B74	9240 E000		00000	1143=COT38	MVI	0(R14),C' '	INSERT BLANK 00140001
000B78	41E0 E001		00001	1144=	LA	R14,1(,R14)	STEP WAREA POINTER 00141001
000B7C	4630 2164		00B74	1145=	BCT	R3,COT38	BRANCH IF 1ST PRT LINE NOT FULL 00142001
000B80	47F0 2188		00B98	1146=	B	COT09	GOTO NEXT INS CODE 00143001
				1147=*			00144001
				1148=*		INSERTION OF MESSAGE TEXT PART	00145001
				1149=*			00146001
000B84	43A0 6002		00002	1150=COT30	IC	R10,2(,R6)	00147001
000B88	41A0 7000		00000	1151=	LA	R10,0(R10,R7)	GET ADDR OF TEXT PART 00148001
000B8C	43B0 6001		00001	1152=	IC	R11,1(,R6)	GET L'TEXT PART 00149001
000B90	44B0 23AC		00DBC	1153=COT08	EX	R11,WMOVE1	MOVE TO WORKAREA 00150001
000B94	41EB E001		00001	1154=COT35	LA	R14,1(R11,R14)	UPDATE WORKAREA POINTER 00151001
000B98	4160 6003		00003	1155=COT09	LA	R6,3(,R6)	UPDATE INS CODE POINTER 00152001
000B9C	47F0 2126		00B36	1156=	B	COT05	GOTO NEXT INS CODE 00153001
				1157=*			00154001
				1158=*		UNALTERED TEXT	00155001
				1159=*			00156001
000BA0	43B0 5000		00000	1160=COT07	IC	R11,0(,R5)	GET LENGTH OF SOURCE TEXT 00157001
000BA4	41A0 0005		00005	1161=	LA	R10,5	00158001
000BA8	18BA			1162=	SR	R11,R10	00159001
000BAA	4740 2188		00B98	1163=	BM	COT09	NO MOVE IF NO SOURCE TEXT 00160001
000BAE	41A0 5004		00004	1164=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00161001
000BB2	47F0 2180		00B90	1165=	B	COT08	MOVE TEXT, GOTO NEXT INS CODE 00162001
				1166=*			00163001
				1167=*		ALGOL SYMBOL	00164001
				1168=*			00165001
000BB6	9102 D082		00082	1169=COT10	TM	COMPLFGLS+2,SET60	60 CHARACTER SET USED ? 00166001
000BBA	4710 2186		00BC6	1170=	BO	COT32	YES, BRANCH 00167001
000BBE	41B0 263C		0104C	1171=	LA	R11,WORDSISO	USE ISO TABLE 00168001
000BC2	47F0 21BA		00BCA	1172=	B	COT32A	00169001
				1173=*			00170001
000BC6	41B0 2554		00F64	1174=COT32	LA	R11,WORDSEBC	USE EBCDIC TABLE 00171001
000BCA	4130 25F6		01006	1175=COT32A	LA	R3,WSYMBSTK	TABLE FOR STACK OPERATOR 00172001
000BCE	43A0 6000		00000	1176=	IC	R10,0(,R6)	GET ONE BYTE ALGOL SYMBOL 00173001
000BD2	1AA9			1177=	NR	R10,R9	00174001
000BD4	43AA 5000		00000	1178=	IC	R10,0(R10,R5)	00175001
000BD8	42A0 23C0		00DD0	1179=	STC	R10,WDEC	00176001
000BDC	9180 23C0		00DD0	1180=	TM	WDEC,X'80'	SOURCE OPERATOR ? 00177001
000BE0	47B0 21E0		00BF0	1181=	BZ	COT32B	NO 00178001
000BE4	4130 2598		00FA8	1182=	LA	R3,WSYMBSRC	YES, CHANGE TABLE 00179001
000BE8	947F 23C0		00DD0	1183=	NI	WDEC,X'7F'	REMOVE TAG 00180001
000BEC	43A0 23C0		00DD0	1184=	IC	R10,WDEC	00181001
000BF0	89A0 0001		00001	1185=COT32B	SLL	R10,1	MULTIPLY BY 2 00182001
000BF4	48AA 3000		00000	1186=	LH	R10,0(R10,R3)	CONVERT TO EBCDIC OR DISPLACEMT 00183001
000BF8	4190 0100		00100	1187=	LA	R9,256	TEST KIND OF SYMBOL 00184001
000BFC	15A9			1188=	CLR	R10,R9	00185001
000BFE	4740 2204		00C14	1189=	BL	COT11	ONE CHARACTER SYMBOL 00186001
000C02	41AA B000		00000	1190=	LA	R10,0(R10,R11)	ADDR WORDS ENTRY 00187001
000C06	18BB			1191=	SR	R11,R11	00188001
000C08	43B0 A000		00000	1192=	IC	R11,0(,R10)	GET LENGTH OF SYMBOL 00189001
000C0C	41A0 A001		00001	1193=	LA	R10,1(,R10)	GET ADDR OF SYMBOL 00190001
000C10	47F0 2180		00B90	1194=	B	COT08	MOVE SYMB, GOTO NEXT INS CODE 00191001
				1195=*			00192001
000C14	18BB			1196=COT11	SR	R11,R11	GET LENGTH-1 OF ONE-CHAR SYMBOL 00193001



Active USINGS: WORKAREA,R13 IEX60000,R2 IEX51000,R10

Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000C16	42A0 E000		00000	1197=	STC	R10,0(,R14)	MOVE SYMBOL TO MSG AREA 00194001
000C1A	47F0 2184		00B94	1198=	B	COT35	GOTO NEXT INS CODE 00195001
				1199=*			00196001
				1200=*		INTERNAL CHARACTERS	00197001
				1201=*			00198001
000C1E	4190 0005		00005	1202=COT33	LA	R9,5	00199001
000C22	43B0 5000		00000	1203=	IC	R11,0(,R5)	GET NUMBER OF INT CHARACTERS-1 00200001
000C26	18B9			1204=	SR	R11,R9	00201001
000C28	42B0 2225		00C35	1205=	STC	R11,COT34+1	STORE IT IN TRANSLATE INSTR 00202001
000C2C	41A0 5004		00004	1206=	LA	R10,4(,R5)	GET ADDR OF SOURCE TEXT 00203001
000C30	44B0 23AC		00DBC	1207=	EX	R11,WMOVE1	00204001
000C34	DC00 E000	2539 00000	00F49	1208=COT34	TR	0(0,R14),TRINTEXT	TRANSLATE 00205001
000C3A	47F0 2184		00B94	1209=	B	COT35	UPDATE PTR, GOTO NEXT INS CODE 00206001
				1210=*			00207001
				1211=*		TRANSLATION AND OUTPUT OF MESSAGE	00208001
				1212=*			00209001
000C3E	9180 2522	00F32		1213=COT12	TM	SWT0,X'80'	MESSAGE TO CONSOLE ? 00210001
000C42	4710 2286		00C96	1214=	BO	COT25	YES 00211001
				1215=*			00212001
				1216=*		MESSAGE TO SYSPRINT	00213001
				1217=*			00214001
000C46	18BE			1218=COT16	LR	R11,R14	00215001
000C48	4190 23E4		00DF4	1219=	LA	R9,WAREA+20	GET L'MESSAGE TEXT 00216001
000C4C	18B9			1220=	SR	R11,R9	00217001
000C4E	4190 0046		00046	1221=	LA	R9,70	GET L'TEXT ON FIRST LINE 00218001
000C52	18B9			1222=	SR	R11,R9	SUBTRACT IT 00219001
000C54	4190 0059		00059	1223=	LA	R9,89	GET L'PRINTLINE 00220001
000C58	41A0 23D0		00DE0	1224=	LA	R10,WAREA	GET ADDR OF ERROR MESSAGE 00221001
000C5C	45F0 22E6		00CF6	1225=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00222001
000C60	12BB			1226=	LTR	R11,R11	L'MSG TXT > 70 ? 00223001
000C62	47B0 2258		00C68	1227=	BNL	COT17	YES 00224001
000C66	1E9B			1228=	ALR	R9,R11	OBTAIN PRTLINE LENGTH IF < 90 00225001
000C68	4490 23B2		00DC2	1229=COT17	EX	R9,WMOVE3	MOVE FIRST PART OF ERROR MSG 00226001
000C6C	41A9 A001		00001	1230=COT20	LA	R10,1(R9,R10)	INCREASE ADDR IN WORKAREA 00227001
000C70	12BB			1231=	LTR	R11,R11	MORE TEXT TO BE MOVED ? 00228001
000C72	47D0 22F6		00D06	1232=	BNH	COT21	NO 00229001
000C76	4190 0046		00046	1233=	LA	R9,70	YES, GET L'NEXT PRTLINE 00230001
000C7A	18B9			1234=	SR	R11,R9	SUBTRACT IT FROM REMAIN TXTLGT 00231001
000C7C	45F0 22E6		00CF6	1235=	BAL	R15,COT27	OBTAIN OUTPUT BUFFER, BLANK IT 00232001
000C80	12BB			1236=	LTR	R11,R11	LENGTH > 70 ? 00233001
000C82	47B0 2278		00C88	1237=	BNL	COT19	YES 00234001
000C86	1E9B			1238=	ALR	R9,R11	OBTAIN LENGTH IF LESS THAN 70 00235001
000C88	41F0 0001		00001	1239=COT19	LA	R15,1	MODIFY LENGTH FOR MOVE INSTR 00236001
000C8C	1B9F			1240=	SR	R9,R15	00237001
000C8E	4490 23B8		00DC8	1241=	EX	R9,WMOVE4	MOVE TEXT TO OUTPUT BUFFER 00238001
000C92	47F0 225C		00C6C	1242=	B	COT20	PUT OUT NEXT TEXTLINE IF ANY 00239001
				1243=*			00240001
				1244=*		MESSAGE TO WTP	00241001
				1245=*			00242001
000C96	41B0 B028		00028	1246=COT25	LA	R11,40(,R11)	GET LENGTH FOR MOVE INSTRUCTION 00243001
000C9A	44B0 22DC		00CEC	1247=	EX	R11,EXMVC	00244001
				1248=*			00245001
				1249=COT24	WTO	'	X00246001
				=		',ROUTCDE=11,DESC=7	00247001
000C9E	0700			1250+	CNOP	0,4	01-WTO
000CA0	4510 22DA		00CEA	1251+COT24	BAL	1,IHB0013A	BRANCH AROUND MESSAGE 01-WTO
000CA4	0042			1252+	DC	AL2(66)	TEXT LENGTH 01-WTO
000CA6	8000			1253+	DC	B'1000000000000000'	MCS FLAGS 01-WTO
000CA8	4040404040404040			1254+	DC	C'	+01-WTO
				+		'	01-WTO
000CE6	0200			1255+	DC	B'0000001000000000'	DESCRIPTOR CODES 01-WTO
000CE8	0020			1256+	DC	B'0000000000100000'	ROUTING CODES 01-WTO
000CEA				1257+IHB0013A	DS	0H	01-WTO
000CEA	0A23			1258+	SVC	35	01-WTO
				1259=*			00248001
000CEC	D200 2298 23D0 00CA8	00DE0		1260=EXMVC	MVC	COT24+8(0),WAREA	MOVE MESSAGE 00249001
				1261=*			00250001
000CF2	47F0 2396		00DA6	1262=	B	WDIRET2	TERMINATE 00251001
				1263=*			00252001
				1264=*		OBTAIN OUTPUT BUFFER	00253001
				1265=*			00254001
000CF6	90EF 2524		00F34	1266=COT27	STM	R14,R15,SVAR2	SAVE REGS FOR CALL OF PRINT RTN 00255001
000CFA	58F0 D0B8		000B8	1267=	L	R15,PRTRTADD	LOAD ADDR OF PRINT ROUTINE 00256001
000CFE	05EF			1268=	BALR	R14,R15	CALL PRINT ROUTINE 00257001
000D00	98EF 2524		00F34	1269=	LM	R14,R15,SVAR2	RESTORE REGS 00258001
000D04	07FF			1270=	BR	R15	00259001
				1271=*			00260001
				1272=*		GOTO NEXT MESSAGE OR TERMINATE	00261001
				1273=*			00262001
000D06	1899			1274=COT21	SR	R9,R9	00263001
000D08	4390 5000		00000	1275=	IC	R9,0(,R5)	GET L'TREATED ENTRY 00264001
000D0C	1A59			1276=	AR	R5,R9	POINT TO NEXT ENTRY 00265001
000D0E	5890 D0C0		000C0	1277=	L	R9,NEXTERR	GET ADDR OF FIRST FREE ENTRY 00266001
000D12	1959			1278=	CR	R5,R9	NEXT ENTRY = FIRST FREE ? 00267001
000D14	4740 2056		00A66	1279=	BL	COT01	NO, HANDLE NEXT ENTRY 00268001
000D18	41A0 2396		00DA6	1280=	LA	R10,WDIRET2	LOAD NEW RETURN ADDR 00269001
000D1C	50A0 D090		00090	1281=	ST	R10,ERET	00270001
000D20	58A0 D0BC		000BC	1282=	L	R10,ERRPOOL	YES, POOL EXHAUSTED, ZERO PTR 00271001
000D24	50A0 D0C0		000C0	1283=	ST	R10,NEXTERR	00272001
000D28	9108 D080		00080	1284=	TM	COMPFLGS,TERR	TERMINATING ERROR ? 00273001
000D2C	98EF 252C		00F3C	1285=COT28	LM	R14,R15,SVAR1	LOAD RETURN ADDR AND BASE 00274001
000D30	4710 2326		00D36	1286=	BO	COT29	YES 00275001
000D34	07FE			1287=	BR	R14	RETURN 00276001
				1288=*			00277001
				1289=COT29	XCTL	EP=IEX51002	BRANCH TO TERMINATION 00278001
000D36				1290+COT29	DS	0H	01-XCTL



Active USINGS: WORKAREA,R13 IEX60000,R2 IEX51000,R10

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
000D36	0700			1291+	CNOP	0,4	02-IHBIN
000D38	45F0 233C		00D4C	1292+	BAL	15,*+20	02-IHBIN
000D3C	00000D44			1293+	DC	A(*+8)	02-IHBIN
000D40	00000000			1294+	DC	A(0)	02-IHBIN
000D44	C9C5E7F5F1F0F0F2			1295+	DC	CL8'IEX51002'	02-IHBIN
000D4C	0A07			1296+	SVC	7	01-XCTL
				1297=*			00279001
				1298=*			00280001
				1299=*			00281001
				1300=*			00282001
000D4E	9180 D082	00082		1301=WDIRET1	TM	COMPFLGS+2,PRT	00283001
000D52	4780 234E		00D5E	1302=	BZ	COT18A	00284001
000D56	9680 2522	00F32		1303=COT18	OI	SWTO,X'80'	00285001
000D5A	47F0 239E		00DAE	1304=	B	LAST	00286001
				1305=*			00287001
000D5E	9180 D081	00081		1306=COT18A	TM	COMPFLGS+1,ERR	00288001
000D62	4780 239E		00DAE	1307=	BZ	LAST	00289001
000D66	4170 00D3		000D3	1308=	LA	R7,211	00290001
000D6A	48A0 2520		00F30	1309=	LH	R10,MODNUMB	00291001
000D6E	1B7A			1310=	SR	R7,R10	00292001
000D70	8970 0002		00002	1311=	SLL	R7,2	00293001
000D74	5890 251C		00F2C	1312=	L	R9,AWADDTAB	00294001
000D78	1A79			1313=	AR	R7,R9	00295001
000D7A	5870 7000		00000	1314=	L	R7,0(,R7)	00296001
000D7E	45F0 22E6		00CF6	1315=	BAL	R15,COT27	00297001
000D82	D213 1000 2504 00000	00F14		1316=	MVC	0(20,R1),CPI	00298001
000D88	D232 1014 7000 00014	00000		1317=	MVC	20(51,R1),0(R7)	00299001
000D8E	45F0 22E6		00CF6	1318=	BAL	R15,COT27	00300001
000D92	5890 D0C0		000C0	1319=	L	R9,NEXTERR	00301001
000D96	41A0 0010		00010	1320=	LA	R10,16	00302001
000D9A	1B9A			1321=	SR	R9,R10	00303001
000D9C	D20F 1014 9000 00014	00000		1322=	MVC	20(16,R1),0(R9)	00304001
000DA2	924B 1025	00025		1323=	MVI	37(R1),C'.'	00305001
				1324=*			00306001
000DA6	9680 D081	00081		1325=WDIRET2	OI	COMPFLGS+1,NSRCE	00307001
000DAA	47F0 2326		00D36	1326=	B	COT29	00308001
				1327=*			00309001
				1328=*			00310001
				1329=*			00311001
000DAE	5850 D0C0		000C0	1330=LAST	L	R5,NEXTERR	00312001
000DB2	41A0 000C		0000C	1331=	LA	R10,12	00313001
000DB6	1B5A			1332=	SR	R5,R10	00314001
000DB8	47F0 2056		00A66	1333=	B	COT01	00315001
				1334=*			00316001
				1335=*			00317001
				1336=*			00318001
000DBC				1337=	CNOP	0,4	00319001
000DBC	D200 E000 A000 00000 00000			1338=WMOVE1	MVC	0(0,R14),0(R10)	00320001
000DC2	D200 1000 A000 00000 00000			1339=WMOVE3	MVC	0(0,R1),0(R10)	00321001
000DC8	D200 1014 A000 00014 00000			1340=WMOVE4	MVC	20(0,R1),0(R10)	00322001
				1341=*			00323001
000DCE	0000						
000DD0	0000000000000000			1342=WDEC	DC	2D'0'	00324001
000DE0	C9C5E7F0F0F0C940			1343=WAREA	DC	C'IEX000I 0 00000 '	00325001
000DF4	4040404040404040			1344=	DC	250C' '	00326001
				1345=*			00327001
				1346=*			00328001
				1347=*			00329001
000EEE	C4C9C1C7D5D6E2E3			1348=HEADD1	DC	C'DIAGNOSTICS'	00330001
000EF9	C3D6C4C540404040			1349=HEADD2	DC	C'CODE SEV SC MESSAGE'	00331001
				1350=*			00332001
000F14	C9C5E7F2F1F1C940			1351=CPI	DC	C'IEX211I T ' FIRST PART OF MESSAGE 211	00333001
				1352=*			00334001
				1353=*			00335001
				1354=*			00336001
000F28	00000000			1355=AWEMPOOL	DC	F'0'	00337001
000F2C	00000000			1356=AWADDTAB	DC	F'0'	00338001
000F30	0000			1357=MODNUMB	DC	H'0'	00339001
				1358=*			00340001
				1359=*			00341001
				1360=*			00342001
000F32	00			1361=SWTO	DC	X'00'	00343001
000F33	00						
000F34	0000000000000000			1362=SVAR2	DC	2F'0'	00344001
000F3C	0000000000000000			1363=SVAR1	DC	2F'0'	00345001
000F44	4040404040			1364=BLANKS	DC	CL5' '	00346001
				1365=*			00347001
				1366=*			00348001
				1367=*			00349001
				1368=*			00350001
				1369=*			00351001
000F49	4E605C617B7B4D7A			1370=TRINTEXT	DC	C'+-*/##(:'	00352001
000F51	AD7B7B5E7B7B7B7B			1371=	DC	C'[##;####'	00353001
000F59	7E4C6E7B7B7B7B7B			1372=	DC	C'=<>#####'	00354001
000F61	7B7B7B7B7B7B7B7B			1373=	DC	C'#####'	00355001
000F69	5F7B4F507B6B5D7A			1374=	DC	C'~# &#;,):'	00356001
000F71	BD7B7B407B4B7D7B			1375=	DC	C']## #.' '#'	00357001
000F79	F0F1F2F3F4F5F6F7			1376=	DC	C'01234567'	00358001
000F81	F8F97B7B7B7B4B7D			1377=	DC	C'89####.'''	00359001
000F89	C1C2C3C4C5C6C7C8			1378=	DC	C'ABCDEFGH'	00360001
000F91	C9D1D2D3D4D5D6D7			1379=	DC	C'IJKLMNOP'	00361001
000F99	D8D9E2E3E4E5E6E7			1380=	DC	C'QRSTUVWXYZ'	00362001
000FA1	E8E95B6D7B7C			1381=	DC	C'YZ\$_#@'	00363001
				1382=*			00364001
				1383=*			00365001
				1384=*			00366001
						CONVERSION OF SOURCE OPERATORS	

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17 13.13
				1385=*			00367001
000FA7	00						
000FA8				1386=	DC 0F'0'		00368001
000FA8	00			1387=WSYMBSRC	DC X'00'	00	PLUS
000FA9	4E			1388=	DC C'+'		00369001
000FAA	00			1389=	DC X'00'	01	MINUS
000FAB	60			1390=	DC C'-'		00371001
000FAC	00			1391=	DC X'00'	02	MULTIPLY
000FAD	5C			1392=	DC C'*'		00372001
000FAE	00			1393=	DC X'00'	03	DIVIDE
000FAF	61			1394=	DC C'/'		00373001
000FB0	0100			1395=	DC H'256'	04	INTEGER DIVIDE
000FB2	0104			1396=	DC H'260'	05	'POWER'
000FB4	00			1397=	DC X'00'	06	LEFT PARENTHESIS
000FB5	4D			1398=	DC C'('		00374001
000FB6	010C			1399=	DC H'268'	07	COLON
000FB8	010F			1400=	DC H'271'	08	LEFT BRACKET
000FBA	0112			1401=	DC H'274'	09	'ARRAY'
000FBC	011A			1402=	DC H'282'	0A	'SWITCH'
000FBE	0123			1403=	DC H'291'	0B	SEMICOLON
000FC0	0126			1404=	DC H'294'	0C	'BEGIN'
000FC2	0126			1405=	DC H'294'	0D	'BEGIN'
000FC4	01D5			1406=	DC H'469'	0E	'PROCEDURE'
000FC6	01D5			1407=	DC H'469'	0F	'PROCEDURE'
000FC8	012E			1408=	DC H'302'	10	'EQUAL'
000FCA	0136			1409=	DC H'310'	11	'LESS'
000FCC	013D			1410=	DC H'317'	12	'GREATER'
000FCE	0147			1411=	DC H'327'	13	'NOTEQUAL'
000FD0	0152			1412=	DC H'338'	14	'NOTGREATER'
000FD2	015F			1413=	DC H'351'	15	'NOTLESS'
000FD4	0169			1414=	DC H'361'	16	COLON EQUAL
000FD6	016C			1415=	DC H'364'	17	'GOTO'
000FD8	0173			1416=	DC H'371'	18	'FOR'
000FDA	0179			1417=	DC H'377'	19	'STEP'
000FDC	0180			1418=	DC H'384'	1A	'UNTIL'
000FDE	0188			1419=	DC H'392'	1B	'WHILE'
000FE0	0190			1420=	DC H'400'	1C	'DO'
000FE2	0195			1421=	DC H'405'	1D	'IF'
000FE4	019A			1422=	DC H'410'	1E	'THEN'
000FE6	01A1			1423=	DC H'417'	1F	'ELSE'
000FE8	01A8			1424=	DC H'424'	20	'NOT'
000FEA	01AE			1425=	DC H'430'	21	'IMPL'
000FEC	01B5			1426=	DC H'437'	22	'OR'
000FEE	01BA			1427=	DC H'442'	23	'AND'
000FF0	01C0			1428=	DC H'448'	24	'EQUIV'
000FF2	00			1429=	DC X'00'	25	COMMA
000FF3	6B			1430=	DC C','		00400001
000FF4	00			1431=	DC X'00'	26	RIGHT PARENTHESIS
000FF5	5D			1432=	DC C')'		00401001
000FF6	010C			1433=	DC H'268'	27	COLON
000FF8	01C8			1434=	DC H'456'	28	RIGHT SUBSCRIPT BRACK
000FFA	0123			1435=	DC H'291'	29	DELTA
000FFC	01CB			1436=	DC H'459'	2A	'END'
000FFE	0123			1437=	DC H'291'	2B	ETA
001000	01CB			1438=	DC H'459'	2C	'END'
001002	00			1439=	DC X'00'	2D	OMEGA
001003	40			1440=	DC C' '		00420001
001004	01E1			1441=	DC H'481'	2E	'CODE'
				1442=*			00421001
				1443=*	CONVERSION OF STACK OPERATORS		00422001
				1444=*			00423001
001006	00			1445=WSYMBSTK	DC X'00'	00	PLUS
001007	4E			1446=	DC C'+'		00424001
001008	00			1447=	DC X'00'	01	MINUS
001009	60			1448=	DC C'-'		00425001
00100A	00			1449=	DC X'00'	02	MULTIPLY
00100B	5C			1450=	DC C'*'		00426001
00100C	00			1451=	DC X'00'	03	DIVIDE
00100D	61			1452=	DC C'/'		00427001
00100E	0100			1453=	DC H'256'	04	INTEGER DIVIDE
001010	0104			1454=	DC H'260'	05	'POWER'
001012	00			1455=	DC X'00'	06	LEFT PARENTHESIS
001013	4D			1456=	DC C'('		00428001
001014	010C			1457=	DC H'268'	07	COLON
001016	010F			1458=	DC H'271'	08	LEFT BRACKET
001018	0112			1459=	DC H'274'	09	'ARRAY'
00101A	011A			1460=	DC H'282'	0A	'SWITCH'
00101C	0123			1461=	DC H'291'	0B	SEMICOLON
00101E	0126			1462=	DC H'294'	0C	'BEGIN'
001020	0126			1463=	DC H'294'	0D	'BEGIN'
001022	01D5			1464=	DC H'469'	0E	'PROCEDURE'
001024	01D5			1465=	DC H'469'	0F	'PROCEDURE'
001026	012E			1466=	DC H'302'	10	'EQUAL'
001028	0136			1467=	DC H'310'	11	'LESS'
00102A	013D			1468=	DC H'317'	12	'GREATER'
00102C	0147			1469=	DC H'327'	13	'NOTEQUAL'
00102E	0152			1470=	DC H'338'	14	'NOTGREATER'
001030	015F			1471=	DC H'351'	15	'NOTLESS'
001032	0169			1472=	DC H'361'	16	COLON EQUAL
001034	016C			1473=	DC H'364'	17	'GOTO'
001036	0173			1474=	DC H'371'	18	'FOR'
001038	0179			1475=	DC H'377'	19	'STEP'
00103A	0180			1476=	DC H'384'	1A	'UNTIL'
00103C	0188			1477=	DC H'392'	1B	'WHILE'
00103E	0190			1478=	DC H'400'	1C	'DO'
001040	0195			1479=	DC H'405'	1D	'IF'

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
001042	019A			1480=	DC	H'410'	1E	'THEN'
001044	01A1			1481=	DC	H'417'	1F	'ELSE'
001046	01A8			1482=	DC	H'424'	20	'NOT'
001048	01AE			1483=	DC	H'430'	21	'IMPL'
00104A	01B5			1484=	DC	H'437'	22	'OR'
00104C	01BA			1485=	DC	H'442'	23	'AND'
00104E	01C0			1486=	DC	H'448'	24	'EQUIV'
001050	00			1487=	DC	X'00'	25	ALPHA
001051	40			1488=	DC	C' '		
001052	0195			1489=	DC	H'405'	26	IFS
001054	019A			1490=	DC	H'410'	27	THENS
001056	01A1			1491=	DC	H'417'	28	ELSES
001058	00			1492=	DC	X'00'	29	LEFT PARENTHESIS
001059	4D			1493=	DC	C'('		
00105A	00			1494=	DC	X'00'	2A	LEFT PARENTHESIS
00105B	4D			1495=	DC	C'('		
00105C	00			1496=	DC	X'00'	2B	MONADIC MINUS
00105D	60			1497=	DC	C'-'		
00105E	010F			1498=	DC	H'271'	2C	LEFT SUBSCRIPT BRACKET
001060	0169			1499=	DC	H'361'	2D	COLON EQUAL
001062	0169			1500=	DC	H'361'	2E	COLON EQUAL
				1501=*				
				1502=*		COMPOUND ALGOL SYMBOLS, EBCDIC		
				1503=*				
001064		00F64		1504=	DC	0F'0'		
				1505=WORDSEBC	EQU	*-256		
001064	02			1506=	DC	X'02'	256	INTEGER DIVIDE
001065	7D617D			1507=	DC	C' '/'		
001068	01			1508=	DC	X'01'	260	POWER
001069	5C5C4040404040			1509=	DC	C' **		
001070	00			1510=	DC	X'00'	268	COLON
001071	7A40			1511=	DC	C' :		
001073	01			1512=	DC	X'01'	271	LEFT BRACKET
001074	4D61			1513=	DC	C' (/		
001076	06			1514=	DC	X'06'	274	'ARRAY'
001077	7DC1D9D9C1E87D			1515=	DC	C' 'ARRAY'		
00107E	07			1516=	DC	X'07'	282	'SWITCH'
00107F	7DE2E6C9E3C3C87D			1517=	DC	C' 'SWITCH'		
001087	00			1518=	DC	X'00'	291	SEMICOLON
001088	5E40			1519=	DC	C' ;		
00108A	06			1520=	DC	X'06'	294	'BEGIN'
00108B	7DC2C5C7C9D57D			1521=	DC	C' 'BEGIN'		
001092	00			1522=	DC	X'00'	302	EQUAL
001093	7E404040404040			1523=	DC	C' =		
00109A	00			1524=	DC	X'00'	310	LESSTHAN
00109B	4C404040404040			1525=	DC	C' <		
0010A1	00			1526=	DC	X'00'	317	GREATER THAN
0010A2	6E40404040404040			1527=	DC	C' >		
0010AB	01			1528=	DC	X'01'	327	NOT EQUAL
0010AC	5F7E404040404040			1529=	DC	C' -		
0010B6	01			1530=	DC	X'01'	338	LESS THAN OR EQU
0010B7	4C7E404040404040			1531=	DC	C' <=		
0010C3	01			1532=	DC	X'01'	351	GR THAN OR EQU
0010C4	6E7E404040404040			1533=	DC	C' >=		
0010CD	01			1534=	DC	X'01'	361	COLON EQUAL
0010CE	7A7E			1535=	DC	C' :=		
0010D0	05			1536=	DC	X'05'	364	'GOTO'
0010D1	7DC7D6E3D67D			1537=	DC	C' 'GOTO'		
0010D7	04			1538=	DC	X'04'	371	'FOR'
0010D8	7DC6D6D97D			1539=	DC	C' 'FOR'		
0010DD	03			1540=	DC	X'03'	377	'STEP'
0010DE	7DE2E3C5D77D			1541=	DC	C' 'STEP'		
0010E4	06			1542=	DC	X'06'	384	'UNTIL'
0010E5	7DE4D5E3C9D37D			1543=	DC	C' 'UNTIL'		
0010EC	06			1544=	DC	X'06'	392	'WHILE'
0010ED	7DE6C8C9D3C57D			1545=	DC	C' 'WHILE'		
0010F4	03			1546=	DC	X'03'	400	'DO'
0010F5	7DC4D67D			1547=	DC	C' 'DO'		
0010F9	03			1548=	DC	X'03'	405	'IF'
0010FA	7DC9C67D			1549=	DC	C' 'IF'		
0010FE	05			1550=	DC	X'05'	410	'THEN'
0010FF	7DE3C8C5D57D			1551=	DC	C' 'THEN'		
001105	05			1552=	DC	X'05'	417	'ELSE'
001106	7DC5D3E2C57D			1553=	DC	C' 'ELSE'		
00110C	00			1554=	DC	X'00'	424	NOT
00110D	5F40404040			1555=	DC	C' -		
001112	05			1556=	DC	X'05'	430	'IMPL'
001113	7DC9D4D7D37D			1557=	DC	C' 'IMPL'		
001119	00			1558=	DC	X'00'	437	OR
00111A	4F404040			1559=	DC	C'		
00111E	00			1560=	DC	X'00'	442	AND
00111F	5040404040			1561=	DC	C' &&		
001124	06			1562=	DC	X'06'	448	'EQUIV'
001125	7DC5D8E4C9E57D			1563=	DC	C' 'EQUIV'		
00112C	01			1564=	DC	X'01'	456	RIGHT BRACKET
00112D	615D			1565=	DC	C' /)		
00112F	04			1566=	DC	X'04'	459	'END'
001130	7DC5D5C47D			1567=	DC	C' 'END'		
001135	02			1568=	DC	X'02'	465	LEFT STRINGQUOTE
001136	7D4D7D			1569=	DC	C' '('		
001139	0A			1570=	DC	X'0A'	469	'PROCEDURE'
00113A	7DD7D9D6C3C5C4E4			1571=	DC	C' 'PROCEDURE'		
001145	05			1572=	DC	X'05'	481	'CODE'
001146	7DC3D6C4C57D			1573=	DC	C' 'CODE'		
				1574=*				
00114C				1575=	DS	0F		

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04	2012/08/17	13.13
		0104C		1576=	WORDSISO EQU *-256	LIST OF COMPOUND ALGOL SYMBOLS, ISO	00558001	
00114C	02			1577=	DC X'02'	256 INTEGER DIVIDE	00559001	
00114D	7D617D			1578=	DC C'/'/'		00560001	
001150	06			1579=	DC X'06'	260 'POWER'	00561001	
001151	7DD7D6E6C5D97D			1580=	DC C'/'/'POWER'/'		00562001	
001158	01			1581=	DC X'01'	268 COLON	00563001	
001159	4B4B			1582=	DC C'..'		00564001	
00115B	01			1583=	DC X'01'	271 LEFT BRACKET	00565001	
00115C	4D61			1584=	DC C'(/'/'		00566001	
00115E	06			1585=	DC X'06'	274 'ARRAY'	00567001	
00115F	7DC1D9D9C1E87D			1586=	DC C'/'/'ARRAY'/'		00568001	
001166	07			1587=	DC X'07'	282 'SWITCH'	00569001	
001167	7DE2E6C9E3C3C87D			1588=	DC C'/'/'SWITCH'/'		00570001	
00116F	01			1589=	DC X'01'	291 SEMICOLON	00571001	
001170	486B			1590=	DC C'..'		00572001	
001172	06			1591=	DC X'06'	294 'BEGIN'	00573001	
001173	7DC2C5C7C9D57D			1592=	DC C'/'/'BEGIN'/'		00574001	
00117A	06			1593=	DC X'06'	302 'EQUAL'	00575001	
00117B	7DC5D8E4C1D37D			1594=	DC C'/'/'EQUAL'/'		00576001	
001182	05			1595=	DC X'05'	310 'LESS'	00577001	
001183	7DD3C5E2E27D			1596=	DC C'/'/'LESS'/'		00578001	
001189	08			1597=	DC X'08'	317 'GREATER'	00579001	
00118A	7DC7D9C5C1E3C5D9			1598=	DC C'/'/'GREATER'/'		00580001	
001193	09			1599=	DC X'09'	327 'NOTEQUAL'	00581001	
001194	7DD5D6E3C5D8E4C1			1600=	DC C'/'/'NOTEQUAL'/'		00582001	
00119E	08			1601=	DC X'0B'	338 'NOTGREATER'	00583001	
00119F	7DD5D6E3C7D9C5C1			1602=	DC C'/'/'NOTGREATER'/'		00584001	
0011AB	08			1603=	DC X'08'	351 'NOTLESS'	00585001	
0011AC	7DD5D6E3D3C5E2E2			1604=	DC C'/'/'NOTLESS'/'		00586001	
0011B5	01			1605=	DC X'01'	361 COLON EQUAL	00587001	
0011B6	4B7E			1606=	DC C'..'=		00588001	
0011B8	05			1607=	DC X'05'	364 'GOTO'	00589001	
0011B9	7DC7D6E3D67D			1608=	DC C'/'/'GOTO'/'		00590001	
0011BF	04			1609=	DC X'04'	371 'FOR'	00591001	
0011C0	7DC6D6D97D			1610=	DC C'/'/'FOR'/'		00592001	
0011C5	03			1611=	DC X'03'	377 'STEP'	00593001	
0011C6	7DE2E3C5D77D			1612=	DC C'/'/'STEP'/'		00594001	
0011CC	06			1613=	DC X'06'	384 'UNTIL'	00595001	
0011CD	7DE4D5E3C9D37D			1614=	DC C'/'/'UNTIL'/'		00596001	
0011D4	06			1615=	DC X'06'	392 'WHILE'	00597001	
0011D5	7DE6C8C9D3C57D			1616=	DC C'/'/'WHILE'/'		00598001	
0011DC	03			1617=	DC X'03'	400 'DO'	00599001	
0011DD	7DC4D67D			1618=	DC C'/'/'DO'/'		00600001	
0011E1	03			1619=	DC X'03'	405 'IF'	00601001	
0011E2	7DC9C67D			1620=	DC C'/'/'IF'/'		00602001	
0011E6	05			1621=	DC X'05'	410 'THEN'	00603001	
0011E7	7DE3C8C5D57D			1622=	DC C'/'/'THEN'/'		00604001	
0011ED	05			1623=	DC X'05'	417 'ELSE'	00605001	
0011EE	7DC5D3E2C57D			1624=	DC C'/'/'ELSE'/'		00606001	
0011F4	04			1625=	DC X'04'	424 'NOT'	00607001	
0011F5	7DD5D6E37D</							

Active USINGS: WORKAREA,R13 IEX60000,R2 IEX51000,R10

Loc	Object Code	Addr1	Addr2	Stmt	Source Statement	X390 3.1.04 2012/08/17 13.13
001238		01238	00160	1650 *		00940001
				1651 IEX51002 CSECT		00941001
				1652 *		00942001
001238 0520				1653	BALR R2,0	00943001
	R:2	0123A		1654	USING *,R2	00944001
				1655 *		00945001
00123A 9604 D081		00081		1656	OI COMPFLGS+1,TERM	00946001
00123E 4100 2026			01260	1657	LA R0,CLOSEDCB	00947001
001242 5000 D090			00090	1658	ST R0,ERET	00948001
				1659 *		00949001
				1660 *	FREE THE STORAGE OF THE ERROR POOL AND SOURCE PROG	00950001
				1661 *	BUFFER 1	00951001
				1662 *		00952001
001246 9102 D081		00081		1663	TM COMPFLGS+1,NOBUF	00953001
00124A 4710 2026			01260	1664	BO CLOSEDCB	00954001
00124E 5800 D0DC			000DC	1665	L R0,POOLS	00955001
001252 5A00 D0E0			000E0	1666	A R0,SRCE1S	00956001
001256 5810 D0BC			000BC	1667	L R1,ERRPOOL	00957001
				1668 *		00958001
				1669	FREEMAIN R, LV=(0),A=(1)	00959001
				1670+*	OS/VS2 RELEASE 3 VERSION -- 10/25/74	01-FREEM
00125A 4110 1000		00000		1671+	LA 1,0(0,1)	01-FREEM
00125E 0A0A				1672+	SVC 10	01-FREEM
				1673 *		00960001
				1674 *	CLOSE THE DCBS AND FREE THE BUFFER POOLS	00961001
				1675 *		00962001
001260 0520				1676 CLOSEDCB	BALR R2,0	00963001
	R:2	01262		1677	USING *,R2	00964001
001262 4100 20F0			01352	1678	LA R0,SPIE	00965001
001266 5000 D090			00090	1679	ST R0,ERET	00966001
00126A 983C D048			00048	1680	LM R3,R12,DCBTABLE	00967001
	R:8	00000		1681	USING IHADCB,R8	00968001
00126E 9110 8030		00030		1682	TM DCBOFLGS,DCBOFOPN	00969001
				1683	DROP R8	00970001
001272 4710 201A			0127C	1684	BO CLOSEB	00971001
001276 96F0 20BF		01321		1685	OI SWITCH+1,X'F0'	00972001
				1686 *		00973001
				1687 CLOSEB	CLOSE ((3),,(8),,(9),,(11),,(12))	00974001
00127A 0700				1688+	CNOP 0,4	01-CLOSE
00127C 4510 2032			01294	1689+CLOSEB	BAL 1,*,+24	01-CLOSE
001280 00000000				1690+	DC A(0)	01-CLOSE
001284 00000000				1691+	DC A(0)	01-CLOSE
001288 00000000				1692+	DC A(0)	01-CLOSE
00128C 00000000				1693+	DC A(0)	01-CLOSE
001290 00000000				1694+	DC A(0)	01-CLOSE
001294 5031 0000		00000		1695+	ST 3,0(1,0)	01-CLOSE
001298 5081 0004		00004		1696+	ST 8,4(1,0)	01-CLOSE
00129C 5091 0008		00008		1697+	ST 9,8(1,0)	01-CLOSE
0012A0 5081 000C		0000C		1698+	ST 11,12(1,0)	01-CLOSE
0012A4 50C1 0010		00010		1699+	ST 12,16(1,0)	01-CLOSE
0012A8 9280 1010		00010		1700+	MVI 16(1),128	01-CLOSE
0012AC 0A14				1701+	SVC 20	01-CLOSE
				1702 *		00975001
0012AE 9140 D081		00081		1703	TM COMPFLGS+1,NLOAD	00976001
0012B2 4710 2084			012E6	1704	BO FRPPCH	00977001
0012B6 1813				1705	LR R1,R3	00978001
				1706 *		00979001
				1707	FREEPOL (1)	00980001
0012B8 58F0 1014		00014		1708+	L 15,20(0,1)	01-FREEM
0012BC 9601 1017		00017		1709+	OI 23(1),1	01-FREEM
0012C0 1BEE				1710+	SR 14,14	01-FREEM
0012C2 1B11				1711+	SR 1,1	01-FREEM
0012C4 BF13 F006		00006		1712+	ICM 1,3,6(15)	01-FREEM
0012C8 43E0 F005		00005		1713+	IC 14,5(0,15)	01-FREEM
0012CC 1C0E				1714+	MR 0,14	01-FREEM
0012CE 4110 1008		00008		1715+	LA 1,8(0,1)	01-FREEM
0012D2 9140 F004		00004		1716+	TM 4(15),X'40'	01-FREEM
0012D6 47E0 207C			012DE	1717+	BNO *+8	01-FREEM
0012DA 4110 1008		00008		1718+	LA 1,8(0,1)	01-FREEM
0012DE 1801				1719+	LR 0,1	01-FREEM
0012E0 4110 F000		00000		1720+	LA 1,0(0,15)	01-FREEM
0012E4 0A0A				1721+	SVC 10	01-FREEM
				1722 *		00981001
0012E6 9120 D081		00081		1723 FRPPCH	TM COMPFLGS+1,NDECK	00982001
0012EA 4710 20BC			0131E	1724	BO FRPPRT	00983001
0012EE 1819				1725	LR R1,R9	00984001
				1726 *		00985001
				1727	FREEPOL (1)	00986001
0012F0 58F0 1014		00014		1728+	L 15,20(0,1)	01-FREEM
0012F4 9601 1017		00017		1729+	OI 23(1),1	01-FREEM
0012F8 1BEE				1730+	SR 14,14	01-FREEM
0012FA 1B11				1731+	SR 1,1	01-FREEM
0012FC BF13 F006		00006		1732+	ICM 1,3,6(15)	01-FREEM
001300 43E0 F005		00005		1733+	IC 14,5(0,15)	01-FREEM
001304 1C0E				1734+	MR 0,14	01-FREEM
001306 4110 1008		00008		1735+	LA 1,8(0,1)	01-FREEM
00130A 9140 F004		00004		1736+	TM 4(15),X'40'	01-FREEM
00130E 47E0 20B4			01316	1737+	BNO *+8	01-FREEM
001312 4110 1008		00008		1738+	LA 1,8(0,1)	01-FREEM
001316 1801				1739+	LR 0,1	01-FREEM
001318 4110 F000		00000		1740+	LA 1,0(0,15)	01-FREEM
00131C 0A0A				1741+	SVC 10	01-FREEM
				1742 *		00987001
00131E 1818				1743 FRPPRT	LR R1,R8	00988001
001320 4700 20F0			01352	1744 SWITCH	NOP SPIE	00989001
				1745 *		00990001



Active USINGS: IEX51002+X'2A',R2 WORKAREA,R13 IEX51000,R10

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
001324	58F0 1014		00014	1746		FREEPOOL (1)	FREE SYSIN BUFFERS		00991001
001328	9601 1017		00017	1747+	L	15,20(0,1)	LOAD BUFCB ADDRESS		01-FREEP
00132C	1BEE			1748+	OI	23(1),1	INDICATE NO BUFCB ADDR		01-FREEP
00132E	1B11			1749+	SR	14,14	CLEAR REGISTER		01-FREEP
001330	BF13 F006		00006	1750+	SR	1,1	CLEAR REGISTER @ZA79785		01-FREEP
001334	43E0 F005		00005	1751+	ICM	1,3,6(15)	LOAD LENGTH OF BUFFERS @ZA86199		01-FREEP
001338	1C0E			1752+	IC	14,5(0,15)	NUMBER OF BUFFERS @ZA79785		01-FREEP
00133A	4110 1008		00008	1753+	MR	0,14	AREA TO BE FREED @ZA79785		01-FREEP
00133E	9140 F004		00004	1754+	LA	1,8(0,1)	ACCOUNT FOR BCB @ZA86199		01-FREEP
001342	47E0 20E8		0134A	1755+	TM	4(15),X'40'	IS BUFCB 16 BYTES @ZA19719		01-FREEP
001346	4110 1008		00008	1756+	BNO	*+8	BRANCH IF BUFCB = 8 BYTES		01-FREEP
00134A	1801			1757+	LA	1,8(0,1)	ADJUST SIZE PLUS 8 @ZA87508		01-FREEP
00134C	4110 F000		00000	1758+	LR	0,1	LOAD LENGTH TO BE FREED @ZA86199		01-FREEP
001350	0A0A			1759+	LA	1,0(0,15)	LOAD AREA ADDRESS		01-FREEP
				1760+	SVC	10	ISSUE FREEMAIN SVC		01-FREEP
				1761 *					00992001
				1762 *					00993001
				1763 *					00994001
001352	0520			1764 SPIE	BALR	R2,0			00995001
		R:2	01354	1765	USING	*,R2			00996001
001354	5840 D088		00088	1766	L	R4,PICADD			00997001
				1767 *					00998001
				1768	SPIE	MF=(E,(R4))			00999001
001358	1814			1769+	LR	1,R4	LOAD PARAMETER REG 1		02-IHBN
00135A	0A0E			1770+	SVC	14	ISSUE THE SPIE SVC		01-SPIE
				1771 *					01000001
				1772 *					01001001
				1773 *					01002001
				1774 *					01003001
00135C	9108 D080		00080	1775 RTNCODE	TM	COMPFLGS,TERR			01004001
001360	4780 2018		0136C	1776	BZ	NOTERM	IF NO TERMINAL ERROR		01005001
001364	41F0 0010		00010	1777	LA	R15,16			01006001
001368	47F0 2036		0138A	1778	B	RETURNN			01007001
				1779 *					01008001
00136C	9110 D080		00080	1780 NOTERM	TM	COMPFLGS,SERR			01009001
001370	4780 2028		0137C	1781	BZ	NOSER	IF NO SERIOUS ERROR		01010001
001374	41F0 0008		00008	1782	LA	R15,8			01011001
001378	47F0 2036		0138A	1783	B	RETURNN			01012001
				1784 *					01013001
00137C	1BFF			1785 NOSER	SR	R15,R15			01014001
00137E	9120 D080		00080	1786	TM	COMPFLGS,WERR			01015001
001382	4780 2036		0138A	1787	BZ	RETURNN			01016001
001386	41F0 0004		00004	1788	LA	R15,4			01017001
00138A	58D0 D004		00004	1789 RETURNN	L	R13,SAVEAREA+4			01018001
				1790 *					01019001
				1791	RETURN	(14,12),RC=(15)			01020001
00138E	58ED 000C		0000C	1792+	L	14,12(13,0)	RESTORE REGISTER 14		01-RETUR
001392	980C D014		00014	1793+	LM	0,12,20(13)	RESTORE THE REGISTERS		01-RETUR
001396	07FE			1794+	BR	14	RETURN		01-RETUR
				1795 *					01021001
001398				1796	LTORG				01022001
				1797 *					01023001
				1798 *					01024001
				1799 *					01025001
				1800	PRINT	NOGEN			01026001
				1801 *					01027001
				1802	DCBD	DSORG=(PS),DEV=(DA)			01028001
				2360 *					01029001
				2361	PRINT	GEN			01030001
				2362 *					01031001
000000		00000	00DA8	2363 WORKAREA	DSECT				01032001
				2364 *					01033001
				2365	COPY	WORKAREA			01034001
				2366=*					00001001
				2367=*					00002001
				2368=*		WORKAREA - MAPPING CSECT IEX00001			00003001
				2369=*		ANY CHANGES MADE TO IEX00001 MUST BE REFLECTED IN THIS DSECT			00004001
				2370=*					00005001
000000	0000000000000000			2371=SAVEAREA	DC	18F'0'			00006001
				2372=*					00007001
				2373=*					00008001
				2374=*		DCB ADDRS			00009001
000048				2375=DCBTABLE	DC	0F'0'			00010001
000048	00000000			2376=ALINDCB	DC	A(0)			00011001
00004C	00000000			2377=	DC	A(0)			00012001
000050	00000000			2378=	DC	A(0)			00013001
000054	00000000			2379=	DC	A(0)			00014001
000058	00000000			2380=ASYSDCB	DC	A(0)			00015001
00005C	00000000			2381=APRTDCB	DC	A(0)			00016001
000060	00000000			2382=APCHDCB	DC	A(0)			00017001
000064	00000000			2383=AUT1DCB	DC	A(0)			00018001
000068	00000000			2384=AUT2DCB	DC	A(0)			00019001
00006C	00000000			2385=AUT3DCB	DC	A(0)			00020001
				2386=*					00021001
				2387=*		END OF DATA EXIT ADDRS			00022001
				2388=*					00023001
000070	00000000			2389=EODUT1	DC	A(0)	SYSUT1		00024001
000074	00000000			2390=EODUT2	DC	A(0)	SYSUT2		00025001
000078	00000000			2391=EODUT3	DC	A(0)	SYSUT3		00026001
00007C	00000000			2392=EODIN	DC	A(0)	SYSIN		00027001
				2393=*					00028001
				2394=*		OPTION SWITCHES IN COMPFLGS			00029001
				2395=*					00030001
				2396=*		ALLOCATION OF THE BIT POSITIONS IN COMPFLGS -			00031001
				2397=*					00032001
				2398=*		PURPOSE	POSITION		00033001

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

				2399=*		BYTE 1	BYTE 2	BYTE 3	00034001
				2400=*		01234567	01234567	01234567	00035001
				2401=*					00036001
				2402=*	COMPMODE (SYNTAX CHECK)	X			00037001
				2403=*	SUBSCRIPT OPTIMIZATION	X			00038001
				2404=*	WARNING ERROR	X			00039001
				2405=*	SERIOUS ERROR	X			00040001
				2406=*	TERMINATING ERROR	X			00041001
				2407=*	PROCEDURE/PROGRAM	X			00042001
				2408=*	LONG/SHORT PRECISION	X			00043001
				2409=*	OPERAND	X			00044001
				2410=*					00045001
				2411=*	NOSOURCE/SOURCE		X		00046001
				2412=*	NLOAD/LOAD		X		00047001
				2413=*	NODECK/DECK		X		00048001
				2414=*	ISO/EBCDIC		X		00049001
				2415=*	PROGRAM INTERRUPT		X		00050001
				2416=*	TERMINATING PHASE ENTERED		X		00051001
				2417=*	NO BUFFERS ASSIGNED		X		00052001
				2418=*	NO COMPILATION POSSIBLE		X		00053001
				2419=*					00054001
				2420=*	SYSPRINT DOWN			X	00055001
				2421=*	WHOLE SOURCE PROG IN CORE			X	00056001
				2422=*	NO OPTAB			X	00057001
				2423=*	SYSPRINT NOT OPENED			X	00058001
				2424=*	ERROR UNRELATED TO SEMICOLON NR			X	00059001
				2425=*	NOTEST/TEST (SC COUNT IN CODE, NOT SYSGEN OPT)			X	00060001
				2426=*	60 CHARACTER SET			X	00061001
				2427=*	(RESERVED)			X	00062001
				2428=*					00063001
000080	00220000			2429=COMPFLGS	DC X'00220000'			PARAMETERS AND SWITCHES	00064001
				2430=*					00065001
				2431=*	OPTION SWITCHES IN COMPFLGS				00066001
				2432=*					00067001
000080				2433=COMPMODE	EQU X'80'			SYNTAX CHECK MODE	00068001
000040				2434=SUBSCOPT	EQU X'40'			SUBSCRIPT OPTIMIZATION	00069001
0000FB				2435=PGR	EQU X'FB'				00070001
000004				2436=PROC	EQU X'04'			PRECOMPILED PROCEDURE	00071001
				2437=*					00072001
0000FD				2438=SHRT	EQU X'FD'				00073001
000002				2439=LNG	EQU X'02'				00074001
000001				2440=OPERAND	EQU X'01'				00075001
				2441=*					00076001
				2442=*	ERROR SEVERITY INDICATORS IN COMPFLGS				00077001
				2443=*					00078001
000020				2444=WERR	EQU X'20'			WARNING ERROR	00079001
000010				2445=SERR	EQU X'10'			SERIOUS ERROR	00080001
000008				2446=TERR	EQU X'08'			TERMINATING ERROR	00081001
				2447=*					00082001
				2448=*	OPTION SWITCHES IN COMPFLGS+1				00083001
				2449=*					00084001
00007F				2450=SRCE	EQU X'7F'				00085001
000080				2451=NSRCE	EQU X'80'				00086001
				2452=*					00087001
0000BF				2453=LOAD	EQU X'BF'				00088001
000040				2454=NLOAD	EQU X'40'				00089001
				2455=*					00090001
0000DF				2456=DECK	EQU X'DF'				00091001
000020				2457=NDECK	EQU X'20'				00092001
				2458=*					00093001
0000EF				2459=EBCDIC	EQU X'EF'				00094001
000010				2460=ISO	EQU X'10'				00095001
				2461=*					00096001
				2462=*	TERMINATION SWITCHES IN COMPFLGS+1				00097001
				2463=*					00098001
000008				2464=ERR	EQU X'08'			PROGRAM INTERRUPT HAS	00099001
				2465=*				OCCURED IN COMPILER	00100001
000004				2466=TERM	EQU X'04'			LAST PHASE HAS BEEN ENTERED	00101001
000002				2467=NOBUF	EQU X'02'			ERROR POOL IS IN WORKAREA	00102001
				2468=*				NO SCE PROG BUFF 1	00103001
000001				2469=NOGO	EQU X'01'			COMPILATION NOT POSSIBLE	00104001
				2470=*				DO NOT START SCAN 1	00105001
000003				2471=NOBUNOGO	EQU X'03'			NOBUF AND NOGO	00106001
				2472=*					00107001
				2473=*	SWITCHES IN COMPFLGS+2				00108001
				2474=*					00109001
000080				2475=PRT	EQU X'80'			SYSPRINT NOT AVAILABLE	00110001
000040				2476=SPIC	EQU X'40'			SOURCE PROGRAM IN STORAGE	00111001
000020				2477=NOPT	EQU X'20'			NO SUBSCRIPT OPTIMIZATION	00112001
000010				2478=PRTNO	EQU X'10'			SYSPRINT NOT OPENED	00113001
000008				2479=NOSC	EQU X'08'			SEMICOLON COUNTER NOT VALID	00114001
				2480=*					00115001
000004				2481=NOTEST	EQU X'04'				00116001
0000FB				2482=TEST	EQU X'FB'			EMBED SC COUNT IN CODE (DEFAULT)	00117001
				2483=*					00118001
000002				2484=SET60	EQU X'02'			60 CHARACTER SET IS TO BE USED	00119001
				2485=*					00120001
				2486=*	MISCELLANEOUS CONTROL INFORMATION				00121001
				2487=*					00122001
000084	0000B000			2488=SIZE	DC F'45056'			AVAILABLE MAIN STORAGE - NOT USED	00123001
000088	00000000			2489=PICAAADD	DC A(0)			ADDR OF PICA OF THE INVOKER	00124001
00008C	00000000			2490=HDING	DC F'0'			ADDR OF HEADING INFO OF THE INVOKER	00125001
000090	00000000			2491=ERET	DC F'0'			RETURN ADDR FOR PROGRAM	00126001
				2492=*				AND I/O ERRORS	00127001
000094	0000000C			2493=PAGECNT	DC PL4'0'			PAGE COUNT	00128001
000098	0000			2494=LINCNT	DC H'0'			COUNTER OF LINES PER PAGE	00129001



D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17 13.13
00009A	0038			2495=MAXLINES	DC	H'56'	MAX NUMBER OF PRINT LINES PER PAGE	00130001
00009C	0000			2496=SEMCNT	DC	H'0'	SEMICOLON COUNTER	00131001
00009E	0032			2497=PBN	DC	H'50'	HIGHEST PROGRAM BLOCK NUMBER	00132001
0000A0	0000			2498=KBN	DC	H'0'	HIGHEST CONSTANT POOL NUMBER	00133001
		0001C		2499=LATNR	EQU	28	NR OF LIBRARY STAND FUNCTIONS	00134001
		0006C		2500=LATBEG	EQU	4*(LATNR-1)		00135001
0000A2	006C			2501=LN	DC	AL2(LATBEG)	LAST USED DISPLACEMENT IN LAT	00136001
0000A4	00000000			2502=PRPT	DC	F'0'	PROGRAM POINTER	00137001
0000A8	00000000			2503=SAVOUTA	DC	F'0'		00138001
0000AC				2504=OUTAREA2	DS	F	SYSPUNCH SAVE AREA	00139001
0000B0	40404040			2505=PIDENT	DC	CL4'	PROGRAM IDENTIFICATION	00140001
0000B4	0000000C			2506=CARDCNT	DC	PL4'0'	OBJECT PROGRAM DECK SEQUENCE NUMBER	00141001
0000B8	00000000			2507=PRTRTADD	DC	A(0)	ADDR OF PRINT ROUTINE	00142001
				2508=*				00143001
				2509=*		ADDRS OF AREAS WHICH ARE USED BY MORE THAN A SINGLE PHASE		00144001
				2510=*				00145001
0000BC	00000278			2511=ERRPOOL	DC	A(PRELPOOL)	FIRST BYTE OF PRELIMINARY ERROR POOL	00146001
0000C0	00000278			2512=NEXTERR	DC	A(PRELPOOL)	NEXT FREE PLACE IN ERROR POOL	00147001
0000C4				2513=ENDPOOL	DS	F	LAST BYTE OF ERROR POOL-23	00148001
0000C8				2514=SRCE1ADD	DS	F	SOURCE PROGRAM BUFFER 1	00149001
0000CC				2515=SRCE1END	DS	F	ADDR OF LAST BYTE+1	00150001
0000D0				2516=SULTSTRT	DS	F	ID OF LAST ITAB RECORD	00151001
				2517=*				00152001
				2518=*				00153001
				2519=*		TABLE OF THE LENGTHS OF VARIABLE SIZE AREAS		00154001
				2520=*				00155001
0000D4				2521=INBLKS	DS	H	MAX BLKSIZE FOR SYSIN - NOT USED	00156001
0000D6				2522=PRTBLKS	DS	H	MAX BLKSIZE SYSPRINT - NOT USED	00157001
0000D8				2523=LINBLKS	DS	H	MAX BLKSIZE FOR SYSLIN - NOT USED	00158001
0000DA				2524=PCHBLKS	DS	H	MAX BLKSIZE FOR SYSPUNCH - NOT USED	00159001
0000DC				2525=POOLS	DS	F	SIZE OF ERROR POOL	00160001
0000E0				2526=SRCE1S	DS	F	SIZE OF SOURCE PROG BUFFERS 1 AND 2	00161001
		000E0		2527=SRCE3S	EQU	SRCE1S	SIZE OF SOURCE PROG BUFFERS 3 AND 4	00162001
0000E4				2528=ITAB10S	DS	F	SIZE OF ITAB FOR PHASE 10	00163001
0000E8				2529=ITAB20S	DS	F	SIZE OF ITAB FOR PHASE 20	00164001
0000EC				2530=ITAB30S	DS	F	SIZE OF ITAB FOR PHASE 30	00165001
0000F0				2531=CRIDTABS	DS	F	SIZE OF CRIDTAB FOR PHASE 30	00166001
0000F4				2532=SUTAB30S	DS	F	SIZE OF SUTAB BUFFER OF PHASE 30	00167001
0000F8				2533=LVTAB30S	DS	F	SIZE OF LVTAB BUFFER FOR PHASE 30	00168001
0000FC				2534=OPTABS	DS	F	SIZE OF OPTAB BUFFERS 1 AND 2	00169001
000100				2535=SUTAB40S	DS	F	SIZE OF SUTAB IN PHASE 40	00170001
000104				2536=LVTAB40S	DS	F	SIZE OF LVTAB IN PHASE 40	00171001
000108				2537=OOSTACKS	DS	F	SIZE OF OPERATOR/OPERAND STACK	00172001
				2538=*				00173001
				2539=*		AREA FOR HEADING INFORMATION TO APPEAR AT THE TOP OF		00174001
				2540=*		EACH NEW PAGE		00175001
				2541=*				00176001
		0010C		2542=PAGEHEAD	EQU	*		00177001
00010C	4040404040404040			2543=PAGEHD1	DC	CL121'	FIRST HEADLINE	00178001
000185		00185	0010C	2544=	ORG	PAGEHD1		00179001
00010C	F1			2545=PAGEHD1C	DC	C'1'	ASA CNTL	00180001
00010D	4040404040404040			2546=	DC	CL10'	SPACER	00181001
000117	4040404040404040			2547=PAGEHD1D	DC	CL100'	PAGE TEXT HEADING	00182001
00017B		0017B	0017D	2548=	ORG	PAGEHD1+113		00183001
00017D	D7C1C7C5			2549=PAGEHD1P	DC	CL4'PAGE'	PAGE	00184001
000181	40404040			2550=PAGENUMB	DC	CL4'	PAGE COUNTER	00185001
000185		00185	00185	2551=	ORG			00186001
				2552=*				00187001
000185	4040404040404040			2553=PAGEHD2	DC	CL121'	SECOND HEADLINE	00188001
0001FE		001FE	00185	2554=	ORG	PAGEHD2		00189001
000185	40			2555=PAGEHD2C	DC	C' '	ASA CNTL	00190001
000186	4040404040404040			2556=	DC	CL10'	SPACER	00191001
000190	4040404040404040			2557=PAGEHD2D	DC	CL100'	PAGE TEXT HEADING	00192001
0001F4		001F4	001FE	2558=	ORG			00193001
				2559=*				00194001
0001FE	4040404040404040			2560=PAGEHD3	DC	CL121'	THIRD HEADLINE	00195001
000277		00277	001FE	2561=	ORG	PAGEHD3		00196001
0001FE	40			2562=PAGEHD3C	DC	C' '	ASA CNTL	00197001
0001FF	4040404040404040			2563=	DC	CL10'	SPACER	00198001
000209	4040404040404040			2564=PAGEHD3D	DC	CL100'	PAGE TEXT HEADING	00199001
00026D		0026D	00277	2565=	ORG			00200001
				2566=*				00201001
				2567=*				00202001
				2568=*		END OF STANDARD COMMON AREA		00203001
				2569=*				00204001
		00277		2570=STANDX	EQU	*		00205001
				2571=*				00206001
				2572=*		THE FOLLOWING AREAS ARE NEEDED BY SOME BUT NOT ALL		00207001
				2573=*		PHASES AND PARTLY OVERLAY EACH OTHER		00208001
				2574=*				00209001
				2575=*		NAME OR PURPOSE	NEEDED BY PHASES	00210001
				2576=*				00211001
000277	00							
000278				2577=	DC	0F'0'		00212001
000278	4040404040404040			2578=PRELPOOL	DC	236C' ',20C'X'	PRELIMINARY ERROR POOL IEX10	00213001
000378		00378	00416	2579=	ORG	PRELPOOL+414		00214001
				2580=*			DCB FOR SYSIN	00215001
				2581=SYSIN	DCB	DDNAME=SYSIN,		X00216001
				=		DSORG=PS,		X00217001
				=		MACRF=(GM),		X00218001
				=		RECFM=FB,		X00219001
				=		LRECL=80,		X00220001
				=		BFTEK=S		00221001
				2583+*				

Active USINGS: IEX51002+X'11C',R2 WORKAREA,R13 IEX51000,R10

D-Loc Object Code Addr1 Addr2 Stmt Source Statement X390 3.1.04 2012/08/17 13.13

				2584+*					01-DCB
000416	0000								
000418				2585+SYSIN	DC	0F'0'		ORIGIN ON WORD BOUNDARY	01-DCB
				2587+*				DIRECT ACCESS DEVICE INTERFACE	01-DCB
000418	0000000000000000			2589+	DC	BL16'0'		FDAD,DVTBL	01-DCB
000428	00000000			2590+	DC	A(0)		KEYLE,DEVT,TRBAL	01-DCB
				2592+*				COMMON ACCESS METHOD INTERFACE	01-DCB
00042C	00			2594+	DC	AL1(0)		BUFNO	01-DCB
00042D	000001			2595+	DC	AL3(1)		BUFCB	01-DCB
000430	0000			2596+	DC	AL2(0)		BUFL	01-DCB
000432	4000			2597+	DC	BL2'0100000000000000'		DSORG	01-DCB
000434	00000001			2598+	DC	A(1)		IOBAD	01-DCB
				2600+*				FOUNDATION EXTENSION	01-DCB
000438	40			2602+	DC	BL1'01000000'		BFTEK,BFLN,HIARCHY	01-DCB
000439	000001			2603+	DC	AL3(1)		EODAD	01-DCB
00043C	90			2604+	DC	BL1'10010000'		RECFM	01-DCB
00043D	000000			2605+	DC	AL3(0)		EXLST	01-DCB
				2607+*				FOUNDATION BLOCK	01-DCB
000440	E2E8E2C9D5404040			2609+	DC	CL8'SYSIN'		DDNAME	01-DCB
000448	02			2610+	DC	BL1'00000010'		OFLGS	01-DCB
000449	00			2611+	DC	BL1'00000000'		IFLG	01-DCB
00044A	5000			2612+	DC	BL2'0101000000000000'		MACR	01-DCB
				2614+*				BSAM-BPAM-QSAM INTERFACE	01-DCB
00044C	00			2616+	DC	BL1'00000000'			RER1 01-DCB
00044D	000001			2617+	DC	AL3(1)		CHECK, GERR, PERR	01-DCB
000450	00000001			2618+	DC	A(1)		SYNAD	01-DCB
000454	0000			2619+	DC	H'0'		CIND1, CIND2	01-DCB
000456	0000			2620+	DC	AL2(0)		BLKSIZE	01-DCB
000458	00000000			2621+	DC	F'0'		WCPO, WCPL, OFFSR, OFFSW	01-DCB
00045C	00000001			2622+	DC	A(1)		IOBA	01-DCB
000460	00			2623+	DC	AL1(0)		NCP	01-DCB
000461	000001			2624+	DC	AL3(1)		EOBR, EOBA	01-DCB
				2626+*				QSAM INTERFACE	01-DCB
000464	00000001			2628+	DC	A(1)		RECAD	01-DCB
000468	0000			2629+	DC	H'0'		QSW	01-DCB
00046A	0050			2630+	DC	AL2(80)		LRECL	01-DCB
00046C	00			2631+	DC	BL1'00000000'		EROPT	01-DCB
00046D	000001			2632+	DC	AL3(1)		CNTRL	01-DCB
000470	00000000			2633+	DC	F'0'		PRECL	01-DCB
000474	00000001			2634+	DC	A(1)		EOB	01-DCB
				2635=*				SYNAD=SYNAD (ASSEMBLED IN IEX00001)	00222001
				2636=*				EODAD=EODADIN (INSERTED BY IEX11)	00223001
000478		00478 00278		2637=	ORG	PRELPOOL			00224001
000278				2638=PB TAB2	DS	CL510		PROGR. BLOCK TABLE 2	20-50 00225001
000478				2639=	DS	0F			00226001
000478				2640=PB TAB1	DS	CL255		PROGR. BLOCK TABLE 1	11-20 00227001
000577		00577 00478		2641=	ORG	PB TAB1			00228001
000478				2642=FSTAB	DS	CL255		FOR STATEMENT TABLE	30-40 00229001
				2643=*				DCB FOR SYSUT1	11-30 00230001
				2644=SYSUT1	DCB	DDNAME=SYSUT1,			X00231001
				=		DSORG=PS,			X00232001
				=		MACRF=(R,W),			X00233001
				=		RECFM=F			00234001
				2646+*				DATA CONTROL BLOCK	01-DCB
				2647+*					01-DCB
000577	00								
000578				2648+SYSUT1	DC	0F'0'		ORIGIN ON WORD BOUNDARY	01-DCB
				2650+*				DIRECT ACCESS DEVICE INTERFACE	01-DCB
000578	0000000000000000			2652+	DC	BL16'0'		FDAD,DVTBL	01-DCB
000588	00000000			2653+	DC	A(0)		KEYLE,DEVT,TRBAL	01-DCB
				2655+*				COMMON ACCESS METHOD INTERFACE	01-DCB
00058C	00			2657+	DC	AL1(0)		BUFNO	01-DCB
00058D	000001			2658+	DC	AL3(1)		BUFCB	01-DCB
000590	0000			2659+	DC	AL2(0)		BUFL	01-DCB
000592	4000			2660+	DC	BL2'0100000000000000'		DSORG	01-DCB
000594	00000001			2661+	DC	A(1)		IOBAD	01-DCB
				2663+*				FOUNDATION EXTENSION	01-DCB
000598	00			2665+	DC	BL1'00000000'		BFTEK,BFLN,HIARCHY	01-DCB
000599	000001			2666+	DC	AL3(1)		EODAD	01-DCB
00059C	80			2667+	DC	BL1'10000000'		RECFM	01-DCB
00059D	000000			2668+	DC	AL3(0)		EXLST	01-DCB
				2670+*				FOUNDATION BLOCK	01-DCB
0005A0	E2E8E2E4E3F14040			2672+	DC	CL8'SYSUT1'		DDNAME	01-DCB
0005A8	02			2673+	DC	BL1'00000010'		OFLGS	01-DCB

Active USINGS: IEX51002+X'11C',R2 WORKAREA,R13 IEX51000,R10

D-Loc	Object Code	Addr1	Addr2	Stmnt	Source	Statement	X390 3.1.04	2012/08/17 13.13
0005A9 00				2674+	DC	BL1 '00000000'	IFLG	01-DCB
0005AA 2020				2675+	DC	BL2 '0010000000100000'	MACR	01-DCB
				2677+*		BSAM-BPAM-QSAM INTERFACE		01-DCB
0005AC 00				2679+	DC	BL1 '00000000'	RER1	01-DCB
0005AD 000001				2680+	DC	AL3(1)	CHECK, GERR, PERR	01-DCB
0005B0 00000001				2681+	DC	A(1)	SYNAD	01-DCB
0005B4 0000				2682+	DC	H'0'	CIND1, CIND2	01-DCB
0005B6 0000				2683+	DC	AL2(0)	BLKSIZE	01-DCB
0005B8 00000000				2684+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW	01-DCB
0005BC 00000001				2685+	DC	A(1)	IOBA	01-DCB
0005C0 00				2686+	DC	AL1(0)	NCP	01-DCB
0005C1 000001				2687+	DC	AL3(1)	EOBR, EOBD	01-DCB
				2689+*		BSAM-BPAM INTERFACE		01-DCB
0005C4 00000001				2691+	DC	A(1)	EOBW	01-DCB
0005C8 0000				2692+	DC	H'0'	DIRCT	01-DCB
0005CA 0000				2693+	DC	AL2(0)	LRECL	01-DCB
0005CC 00000001				2694+	DC	A(1)	CNTRL, NOTE, POINT	01-DCB
				2695=*		SYNAD=SYNAD, (ASSEMBLED IN IEX00001)		00235001
				2696=*		EODAD=EODAD1		00236001
				2697=*				00237001
0005D0				2698=	DS	0F		00238001
0005D0				2699=SPTAB	DS	CL255	SCOPE TABLE	11-30 00239001
0006D0				2700=	DS	0F		00240001
	006CD			2701=GPTAB	EQU	*-3	GROUP TABLE	11-30 00241001
0006D0				2702=	DS	CL1510		00242001
				2703=*				00243001
				2704=*		END OF SYMLIB PART OF COMMON WORK AREA		00244001
				2705=*				00245001
				2706 *				01035001
				2707 *		AREA USED BY COMPILATION PHASE		01036001
				2708 *				01037001
000CB6		00CB6 00578		2709	ORG	SYSUT1		01038001
				2710 *				01039001
000578				2711 RETADR	DS	17F	SAVE AREA	01040001
0005BC				2712 PLACE14	DS	F	'''	01041001
0005C0				2713 RUTI	DS	9F	GPR CONTROL	01042001
0005E4				2714 RUTR	DS	4F	FLREG CONTROL	01043001
0005F4				2715 GPROLN	DS	H	LABEL NR OF OBJ PRG ENTRY POINT	01044001
0005F6				2716 KONSUM	DS	H	WORKPLACE	01045001
0005F8				2717 WORKPL	DS	F	WORKPLACE	01046001
	000C8			2718 IBUF1	EQU	SRCE1ADD	ADDR OF FIRST SOURCE BUFFER	01047001
0005FC				2719 IBUF2	DS	A	''' SECOND '''	01048001
000600				2720 SOURCEB	DS	A	''' CURRENT '''	01049001
000604				2721 RSRCB	DS	A	''' READ '''	01050001
000608				2722 OPBUF1	DS	A	ADDR OF FIRST OPTAB BUFFER	01051001
00060C				2723 OPBUF2	DS	A	''' SECOND '''	01052001
000610				2724 OPBUFB	DS	A	''' CURRENT '''	01053001
000614				2725 ROPTB	DS	A	''' READ '''	01054001
000618				2726 AOPTABE	DS	A	ADDR OF CURRENT OPTAB ENTRY	01055001
00061C				2727 LATAB	DS	A	ADDR OF LABEL ADDR TABLE	01056001
	0061C			2728 APBTAB4	EQU	LATAB	ADDR OF PBTAB4	01057001
000620				2729 SUTABCA	DS	A	ADDR OF LAST USED SUTAB ENTRY	01058001
000624				2730 STRETURN	DS	F	RETURN ADDR	01059001
000628				2731 FREEMADR	DS	A	ADDR FOR FREEMAIN IN 50000	01060001
00062C				2732 FREEMSIZ	DS	F	SIZE	01061001
				2733 *			'''	01062001
000630				2734 PBTAB3	DS	1024C	PROGRAM BLOCK TABLE, 3RD VERS	01063001
				2735 *				01064001
000A30 0000000000000000				2736 IOTAB	DC	18X'00'	LIST OF DATASETS	01065001
000A42 0000				2737 CII	DC	H'0'	REGISTER CONTROL	01066001
000A44 0000				2738 CIR	DC	H'0'	'''	01067001
000A46 0000				2739 RII	DC	H'0'	'''	01068001
000A48 0000				2740 RIR	DC	H'0'	'''	01069001
000A4A 0000				2741 OPDPBN	DC	H'0'	PROGRAM BLOCK NR (BYTE 2 OF OPD	01070001
000A4C 0000				2742 OPDADR	DC	H'0'	BYTES 3 AND 4 OF OPERAND	01071001
000A4E 0000				2743 OPDLN	DC	H'0'	LABEL NUMBER TIMES FOUR	01072001
000A50 0000				2744 ZEROHW	DC	H'0'	ZEROES	01073001
000A52 00				2745 CFSN	DC	X'00'	CURRENT FS NUMBER	01074001
000A53 FF				2746 MAXFSN	DC	X'FF'	MAX FS NUMBER	01075001
000A54 F000				2747 CLEARDIS	DC	X'F000'	FOR CLEARING OF DISPLACMENT PART	01076001
000A56 0004				2748 ONEENTRY	DC	H'4'	SHORT, FOR INCR OF OT STACK PTR	01077001
000A58		00A58 00A56		2749	ORG	ONEENTRY		01078001
000A56 0008				2750	DC	H'8'	LONG	01079001
000A58 10				2751 PRECMASK	DC	X'10'	SHORT, TO MODIFY INSTRUCTIONS	01080001
000A59		00A59 00A58		2752	ORG	PRECMASK		01081001
000A58 00				2753	DC	X'00'	LONG	01082001
000A59 00				2754 NUMBBL	DC	X'00'	RECORD COUNTER	01083001
000A5A				2755	DS	H		01084001
000A5C 0000				2756 SPBNST	DC	H'0'	CURRENT PBN	01085001
000A5E				2757	DS	H	AND DISPLACEMENT	01086001
000A60 00FF				2758 GPBN	DC	H'255'	GLOBAL DSA CONTROL	01087001
000A62 0FFC				2759 MAXOVERF	DC	H'4092'	SHORT, TO CHECK OT STACK OVERFL	01088001
000A64		00A64 00A62		2760	ORG	MAXOVERF		01089001
000A62 0FF8				2761	DC	H'4088'	LONG	01090001
000A64				2762 HALFW	DS	H	WORKPLACE	01091001
000A66				2763 USPEI2	DS	H	FOR ARRAY DECLA-	01092001
000A68				2764 USPEI4	DS	H	RATION HANDLING	01093001
000A6A				2765 WPLACE	DS	H	FOR INSTRUCTION GENERATION	01094001
000A6C				2766 XPLACE	DS	H		01095001
000A6E				2767 YPLACE	DS	H		01096001
000A70				2768 UPLACE	DS	H		01097001
000A72				2769 VPLACE	DS	C	'''	01098001

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04	2012/08/17	13.13
000A73				2770	STRDNAME	DS 5C	TO STORE OPERAND		01099001
000A78				2771	CBVTAB	DS 48C	CALLED-BY-VALUE TABLE		01100001
000AA8				2772	SUTABC	DS 768C			01101001
000DA8	00DA8	00AA8		2773		ORG SUTABC			01102001
000AA8				2774	DSTAB	DS 608C	DATASET TABLE		01103001
				2775	*				01104001
				2776	*	REGISTER EQUATES			01105001
				2777	*				01106001
				2778		IEZREGS			01107001
	00000			2779	+R0	EQU 0			01-IEZRE
	00001			2780	+R1	EQU 1			01-IEZRE
	00002			2781	+R2	EQU 2			01-IEZRE
	00003			2782	+R3	EQU 3			01-IEZRE
	00004			2783	+R4	EQU 4			01-IEZRE
	00005			2784	+R5	EQU 5			01-IEZRE
	00006			2785	+R6	EQU 6			01-IEZRE
	00007			2786	+R7	EQU 7			01-IEZRE
	00008			2787	+R8	EQU 8			01-IEZRE
	00009			2788	+R9	EQU 9			01-IEZRE
	0000A			2789	+R10	EQU 10			01-IEZRE
	0000B			2790	+R11	EQU 11			01-IEZRE
	0000C			2791	+R12	EQU 12			01-IEZRE
	0000D			2792	+R13	EQU 13			01-IEZRE
	0000E			2793	+R14	EQU 14			01-IEZRE
	0000F			2794	+R15	EQU 15			01-IEZRE
				2795	*				01108001
				2796	*	CHARACTER EQUATES			01109001
				2797	*				01110001
				2798		IEXCHAR			01111001
				2799	+				01-IEXCH
				2800	+	CHARACTER A - Z			01-IEXCH
				2801	+				01-IEXCH
	00040			2802	+XFA	EQU X'40'			02-IEXCG
	00041			2803	+XFB	EQU X'41'			02-IEXCG
	00042			2804	+XFC	EQU X'42'			02-IEXCG
	00043			2805	+XFD	EQU X'43'			02-IEXCG
	00044			2806	+XFE	EQU X'44'			02-IEXCG
	00045			2807	+XFF	EQU X'45'			02-IEXCG
	00046			2808	+XFG	EQU X'46'			02-IEXCG
	00047			2809	+XFH	EQU X'47'			02-IEXCG
	00048			2810	+XFI	EQU X'48'			02-IEXCG
	00049			2811	+XFJ	EQU X'49'			02-IEXCG
	0004A			2812	+XFK	EQU X'4A'			02-IEXCG
	0004B			2813	+XFL	EQU X'4B'			02-IEXCG
	0004C			2814	+XFM	EQU X'4C'			02-IEXCG
	0004D			2815	+XFN	EQU X'4D'			02-IEXCG
	0004E			2816	+XFO	EQU X'4E'			02-IEXCG
	0004F			2817	+XFP	EQU X'4F'			02-IEXCG
	00050			2818	+XFQ	EQU X'50'			02-IEXCG
	00051			2819	+XFR	EQU X'51'			02-IEXCG
	00052			2820	+XFS	EQU X'52'			02-IEXCG
	00053			2821	+XFT	EQU X'53'			02-IEXCG
	00054			2822	+XFU	EQU X'54'			02-IEXCG
	00055			2823	+XFV	EQU X'55'			02-IEXCG
	00056			2824	+XFW	EQU X'56'			02-IEXCG
	00057			2825	+XFX	EQU X'57'			02-IEXCG
	00058			2826	+XFY	EQU X'58'			02-IEXCG
	00059			2827	+XFZ	EQU X'59'			02-IEXCG
				2828	+				01-IEXCH
				2829	+	NATIONAL CHARACTERS			01-IEXCH
				2830	+				01-IEXCH
	0005A			2831	+XFDOLLAR	EQU X'5A'			02-IEXCG
	0005B			2832	+XFUNDER	EQU X'5B'			02-IEXCG
	0005C			2833	+XFHASH	EQU X'5C'			02-IEXCG
	0005D			2834	+XFAT	EQU X'5D'			02-IEXCG
				2835	+				01-IEXCH
				2836	+	NUMERIC 0 - 9			01-IEXCH
				2837	+				01-IEXCH
	00030			2838	+XF0	EQU X'30'			02-IEXCG
	00031			2839	+XF1	EQU X'31'			02-IEXCG
	00032			2840	+XF2	EQU X'32'			02-IEXCG
	00033			2841	+XF3	EQU X'33'			02-IEXCG
	00034			2842	+XF4	EQU X'34'			02-IEXCG
	00035			2843	+XF5	EQU X'35'			02-IEXCG
	00036			2844	+XF6	EQU X'36'			02-IEXCG
	00037			2845	+XF7	EQU X'37'			02-IEXCG
	00038			2846	+XF8	EQU X'38'			02-IEXCG
	00039			2847	+XF9	EQU X'39'			02-IEXCG
				2848	+				01-IEXCH
				2849	+	SPECIAL CHARS			01-IEXCH
				2850	+				01-IEXCH
	00000			2851	+XFPLUS	EQU X'00'			02-IEXCG
	00001			2852	+XFMINUS	EQU X'01'			02-IEXCG
	00002			2853	+XFASTER	EQU X'02'			02-IEXCG
	00003			2854	+XFSLASH	EQU X'03'			02-IEXCG
	00006			2855	+XFLBRAC	EQU X'06'			02-IEXCG
	00007			2856	+XFCOLON	EQU X'07'			02-IEXCG
	00008			2857	+XFLSQBR	EQU X'08'			02-IEXCG
	0000B			2858	+XFSCOLON	EQU X'0B'			02-IEXCG
	00010			2859	+XFEQUAL	EQU X'10'			02-IEXCG
	00011			2860	+XFLT	EQU X'11'			02-IEXCG
	00012			2861	+XFGT	EQU X'12'			02-IEXCG
	00020			2862	+XFNOT	EQU X'20'			02-IEXCG
	00022			2863	+XFOR	EQU X'22'			02-IEXCG
	00023			2864	+XFAMPER	EQU X'23'			02-IEXCG
	00025			2865	+XFCOMMA	EQU X'25'			02-IEXCG

Active USINGs: IEX51002+X'11C',R2 WORKAREA,R13 IEX51000,R10

D-Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	
		00026		2866+XFRBRAC	EQU	X'26'	02-IEXCG
		00028		2867+XFRSQBR	EQU	X'28'	02-IEXCG
		0002B		2868+XFLANK	EQU	X'2B'	02-IEXCG
		0002D		2869+XFPERIOD	EQU	X'2D'	02-IEXCG
		0002E		2870+XFQUOTE	EQU	X'2E'	02-IEXCG
				2871+*			01-IEXCH
		0000C		2872+XFDQUOTE	EQU	X'0C'	02-IEXCG
				2873+*			01-IEXCH
		0002C		2874+XFEXCLM	EQU	X'2C'	02-IEXCG
		0002C		2875+XFPERCT	EQU	X'2C'	02-IEXCG
				2876+*			01-IEXCH
				2877+*	INTERNAL CONTROL CODES		01-IEXCH
				2878+*			01-IEXCH
		00005		2879+XFPOWER	EQU	X'05'	01-IEXCH
		00016		2880+XFASSIGN	EQU	X'16'	01-IEXCH
		00017		2881+XFGOTO	EQU	X'17'	01-IEXCH
		00018		2882+XFFOR	EQU	X'18'	01-IEXCH
		0001D		2883+XFIF	EQU	X'1D'	01-IEXCH
		00027		2884+XFLABEL	EQU	X'27'	01-IEXCH
		00029		2885+XFDELTA	EQU	X'29'	01-IEXCH
		0002C		2886+XFEND	EQU	X'2C'	01-IEXCH
		0002F		2887+XFZETA	EQU	X'2F'	01-IEXCH
		0003E		2888+XFDECP	EQU	X'3E'	01-IEXCH
				2889 *			01112001
				2890	END		01113001

X390 3.1.04 2012/08/17 13.13

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
=A(IEX51002)	4	0000058C	00000001	A	A		609	601				
=A(IEX60000)	4	00000588	00000001	A	A		608	600				
ADRP RP	4	00000614	00000001	A	A		653	438M	453	463	497	
ALAT	4	00000698	00000001	A	A		727	175M	190	218		
ALINDCB	4	00000048	FFFFFFFFE	A	A		2376	505	890			
APBT	4	00000694	00000001	A	A		726	239M	277	439		
APBTAB4	4	0000061C	FFFFFFFFE	U			2728	241	268	545		
APCHDCB	4	00000060	FFFFFFFFE	A	A		2382	515	888	904		
ASTART	3	0000069D	00000001	R	A		729	434M				
AWADDTAB	4	00000F2C	00000004	F	F		1356	1056	1312			
AWEMPPOOL	4	00000F28	00000004	F	F		1355	1026M	1047			
BLANKS	5	00000F44	00000004	C	C		1364	1097				
BLNR	3	00000718	00000001	C	C		743	551M	552M	553		
BOTH	4	000008FE	00000001	I			901	886B				
CARDCNT	4	000000B4	FFFFFFFFE	P	P		2506	500M	501	918M	919	
CLOSEB	4	0000127C	00000005	I			1689	1684B				
CLOSEDCB	2	00001260	00000005	I			1676	1657	1664B			
COMPFLGS	4	00000080	FFFFFFFFE	X	X		2429	160M	161	163	202	410
								492	503	513	640M	885
								1086M	1169	1284	1301	1306
								1775	1780	1786	1325M	1656M
											1663	1703
											1082M	1083M
COMP MODE	1	00000080		U			2433	161	410	640	1083	
COT01	4	00000A66	00000004	I			1047	1036B	1279B	1333B		
COT03A	4	00000AC0	00000004	I			1080	1076B				
COT03B	4	00000AD4	00000004	I			1086	1081B				
COT04	2	00000AD8	00000004	I			1090	1078B	1084B			
COT05	4	00000B36	00000004	I			1118	1110B	1156B			
COT06	4	00000B3E	00000004	I			1125	1118B				
COT07	4	00000BA0	00000004	I			1160	1132B				
COT08	4	00000B90	00000004	I			1153	1165B	1194B			
COT09	4	00000B98	00000004	I			1155	1142B	1146B	1163B		
COT10	4	00000BB6	00000004	I			1169	1134B				
COT11	2	00000C14	00000004	I			1196	1189B				
COT12	4	00000C3E	00000004	I			1213	1119B				
COT17	4	00000C68	00000004	I			1229	1227B				
COT18	4	00000D56	00000004	I			1303	1031B				
COT18A	4	00000D5E	00000004	I			1306	1302B				
COT19	4	00000C88	00000004	I			1239	1237B				
COT20	4	00000C6C	00000004	I			1230	1242B				
COT21	2	00000D06	00000004	I			1274	1232B				
COT24	4	00000CA0	00000004	I			1251	1260M				
COT25	4	00000C96	00000004	I			1246	1214B				
COT26	4	00000B02	00000004	I			1101	1096B				
COT27	4	00000CF6	00000004	I			1266	1225B	1235B	1315B	1318B	
COT28	4	00000D2C	00000004	I			1285	1034B				
COT29	2	00000D36	00000004	H	H		1290	1286B	1326B			
COT30	4	00000B84	00000004	I			1150	1130B				
COT31	4	00000B14	00000004	I			1108	1099B				
COT32	4	00000BC6	00000004	I			1174	1170B				
COT32A	4	00000BCA	00000004	I			1175	1172B				
COT32B	4	00000BF0	00000004	I			1185	1181B				
COT33	4	00000C1E	00000004	I			1202	1136B				
COT34	6	00000C34	00000004	I			1208	1205M				
COT35	4	00000B94	00000004	I			1154	1198B	1209B			
COT36	4	00000A80	00000004	I			1055	1052B				
COT37	4	00000B6A	00000004	I			1140	1129B				
COT38	4	00000B74	00000004	I			1143	1145B				
CPI	20	00000F14	00000004	C	C		1351	1316				
DCBBIT0	1	00000080		U			1824	1910	1918	1930	1953	1980
								2031	2035	2050	2087	2142
								2331	2341			
								1911	1919	1932	1954	1955
								2013	2031	2033	2035	2053
								2175	2218	2220	2232	2276
								1912	1920	1933	1934	1935
								1981	1986	2015	2036	2037
								2143	2180	2221	2237	2279
								1913	1933	1935	1936	1954
								2062	2063	2064	2098	2099
								2238	2279	2283	2329	
								1921	1968	1988	2019	2041
								2103	2105	2106	2144	2190
								1922	1969	1991	1992	2021
								2073	2074	2075	2109	2110
								2225	2241	2274		
								1914	1970	1971	1974	1991
								2081	2115	2116	2117	2118
								1915	1970	1972	1974	1995
								2124	2125	2201	2227	2244
											2287	2287
DCBF DAD	8	00000005	FFFFFFFFF	C	C		1851	1854				
DCBOFLGS	1	00000030	FFFFFFFFF	B	B		2007	1682				
DCBOFOPN	1	00000010		U			2018	1682				
DCBTABLE	4	00000048	FFFFFFFFE	F	F		2375	1680				
DEC	8	00000700	00000001	D	D		740	532M	550M	551	556M	580
DSTAB	1	00000AA8	FFFFFFFFE	C	C		2774	300				
DSTABLE	4	0000061C	00000001	F	F		660	327	331	341	376	698
DSTABLEL	1	00000024		U			698	327	331	341	344	376
DSTAB LGT	2	00000640	00000001	H	H		701	320M	398	416		
DSTAB PRP	4	0000060C	00000001	A	A		651	301M	426	473		
EDAREA	8	00000710	00000001	C	C		742	534	558	579M	580M	
EDNR	6	00000556	00000001	I			579	533B	557B			
EDPTRN	8	00000708	00000001	X	X		741	579				
ENDPOOL	4	000000C4	FFFFFFFFE	F	F		2513	638				
ENDREC	80	00000644	00000001	C	C		706	512	522	707	721	
ENDRECA	3	00000649	00000001	C	C		711	497M				

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
ENDRECC	4	00000690	00000001	C	C		723	501M 502M				
ENDRECD	5	00000673	00000001	C	C		720	490M				
ENDRECID	2	00000652	00000001	C	C		713	498M				
ENDRECK	4	0000068C	00000001	C	C		722	499M				
ENDRECL	4	00000660	00000001	C	C		716	491M				
ENDREC�	8	00000654	00000001	C	C		714	494M				
EP0	4	00000731	00000001	X	X		749	643				
EP188	4	00000724	00000001	X	X		746	620M 621M 622M 626M 627M 628M 630M 631M 635				
ERET	4	00000090	FFFFFFFE	F	F		2491	159M 1028M 1281M 1658M 1679M				
ERR	1	00000008			U		2464	1306				
ERRINFO	4	00000740	00000001	V	V		753	602				
ERRPOOL	4	000000BC	FFFFFFFE	A	A		2511	1032 1282 1667				
ERR188	2	00000590	00000001	I			615	326B 330B 369B				
ER1	4	000005B4	00000001	I			626	618B				
ER2	4	000005C6	00000001	I			630	624B				
ER3	6	000005D8	00000001	I			635	633M				
ER4	6	000005F4	00000001	I			643	639B				
ESDCON	7	00000A06	00000001	X	X		998	943				
ESDT	1	00000968	00000001	X	X		932	843				
ESID	2	00000A04	00000001	H	H		997	944 946M				
EXMVC	6	00000CEC	00000004	I			1260	1247X				
FREEMADR	4	00000628	FFFFFFFE	A	A		2731	587				
FREEMSIZ	4	0000062C	FFFFFFFE	F	F		2732	586				
FRPPCH	4	000012E6	00000005	I			1723	1704B				
FRPPRT	2	0000131E	00000005	I			1743	1724B				
GENESD	4	0000085A	00000001	I			842	208B 447B 464B 474B				
GENRLD	4	00000876	00000001	I			855	192B 228B 289B 427B 454B				
GENTXTS	4	00000866	00000001	I			848	172B 180B 272B 421B 440B				
GEN1	4	0000088C	00000001	I			860	844B 851B				
GEN3	4	000008CE	00000001	I			884	862B 864B 879B				
GEN4	2	000008C6	00000001	I			878	970B 992B				
GEN5	6	000009DE	00000001	I			985	991B				
GEN6	4	000008A4	00000001	I			865	924B 927B				
HEAD01	11	00000EEE	00000004	C	C		1348	1035 1042				
HEAD02	27	00000EF9	00000004	C	C		1349	1043				
HEAD1	30	000006A0	00000001	C	C		731	531				
IEX51ER1	1	00000564	00000001	U			585	141 158				
IEX51ER2	1	00000576	00000001	U			597	142				
IEX51M00	1	00000000	00000002	T			753	753				
IEX51M01	1	00000000	00000003	T			754	754				
IEX51000	1	00000000	00000001	J			132	150U				
IEX51002	1	00001238	00000005	J			1651	609				
IEX60000	1	00000A10	00000004	J			1008	608 1010U				
IHADCB	1	00000000	FFFFFFF	J			1807	1681U 1892 1939 2004 2133 2148 2155 2168 2264 2270				
								2297 2320				
IHB0013A	2	00000CEA	00000004	H	H		1257	1251B				
IOTAB	1	00000A30	FFFFFFFE	X	X		2736	302				
KBN	2	000000A0	FFFFFFFE	H	H		2498	256 281				
KDSA	23	000006DC	00000001	C	C		738	538				
KH4096	2	0000061A	00000001	H	H		655	260				
KOBJSZ	18	000006BE	00000001	C	C		733	536 736				
KOBJSZB	6	000006D0	00000001	C	C		734	534M				
KOBJSZL	1	0000001E			U		736	536				
KPBN	11	000006F3	00000001	C	C		739	541 542				
KP1	1	00000A0D	00000001	P	P		999	500 918				
LAST	4	00000DAE	00000004	I			1330	1304B 1307B				
LATAB	4	0000061C	FFFFFFFE	A	A		2727	176 199 219 2728				
LATBEG	1	0000006C			U		2500	186 191 2501				
LATNR	1	0000001C			U		2499	200 220 2500				
LDENTRY	1	00000001			U		837	941				
LINCNT	2	00000098	FFFFFFFE	H	H		2494	526M 1037M				
LN	2	000000A2	FFFFFFFE	R	A		2501	177				
LNG	1	00000002			U		2439	202 435				
LNGTAB	5	000007D3	00000001	C	C		791	204				
LPGCF	1	0000001C			U		137	419				
MAXOVERF	2	00000A62	FFFFFFFE	H	H		2759	2760				
MDSN	2	00000618	00000001	H	H		654	315M 318				
MODNUMB	2	00000F30	00000004	H	H		1357	1053 1309				
NDECK	1	00000020			U		2457	163 412 513 885 887 1723				
NEXTERR	4	000000C0	FFFFFFFE	A	A		2512	634 637M 645M 1033 1277 1283M 1319 1330				
NLOAD	1	00000040			U		2454	163 412 503 885 1703				
NOBUF	1	00000002			U		2467	1663				
NOSC	1	00000008			U		2479	160				
NOSER	2	0000137C	00000005	I			1785	1781B				
NOTERM	4	0000136C	00000005	I			1780	1776B				
NRTRA	10	00000735	00000001	C	C		751	621 627				
NSRCE	1	00000080			U		2451	1325				
ONEENTRY	2	00000A56	FFFFFFFE	H	H		2748	249 2749				
OUTAREA2	4	000000AC	FFFFFFFE	F	F		2504	901 911M				
PAGEHD1	121	0000010C	FFFFFFFE	C	C		2543	2544 2548				
PAGEHD1C	1	0000010C	FFFFFFFE	C	C		2545	527M 528M 1038M 1039M				
PAGEHD1D	100	00000117	FFFFFFFE	C	C		2547	529 530 531M 1040 1041 1042M				
PAGEHD2	121	00000185	FFFFFFFE	C	C		2553	2554				
PAGEHD2D	100	00000190	FFFFFFFE	C	C		2557	529M 1040M 1043M				
PAGEHD3	121	000001FE	FFFFFFFE	C	C		2560	2561				
PAGEHD3D	100	00000209	FFFFFFFE	C	C		2564	530M 1041M				
PAGEHEAD	1	0000010C	FFFFFFFE	U			2542	1035				
PBN	2	0000009E	FFFFFFFE	H	H		2497	243 259 284 546				
PBTAB1	255	00000478	FFFFFFFE	C	C		2640	2641				
PBTAB3	1	00000630	FFFFFFFE	C	C		2734	240				
PICAADD	4	00000088	FFFFFFFE	A	A		2489	1766				
PIDENT	4	000000B0	FFFFFFFE	C	C		2505	245 499 917				
POOLS	4	000000DC	FFFFFFFE	F	F		2525	1665				
PRECMASK	1	00000A58	FFFFFFFE	X	X		2751	2752				
PRELPOOL	1	00000278	FFFFFFFE	C	C		2578	2511 2512 2579 2637				
PRINTT	4	00000546	00000001	I			571	535B 537B 539B 544B 564B				
PROC	1	00000004			U		2436	414 445 461 492				



X51	Symbol Cross Reference													PAGE	31		
Symbol	Length	Value	Id	Type	Asm	Program	Defn	References		X390	3.1.04	2012/08/17	13.13				
PRPT	4	000000A4	FFFFFFFFE	F	F		2502	434									
PRPTAR	4	00000608	00000001	A	A		650	168M	169								
PRT	1	00000080		U			2475	1030	1301								
PRTNO	1	00000010		U			2478	1030									
PRTRTADD	4	000000B8	FFFFFFFFE	A	A		2507	572	1267								
PUNCHOUT	6	00000920	00000001	I			914	899B									
PUT1	2	000008EA	00000001	I			893	889B									
PUT1A	4	000008E6	00000001	I			890	912B									
RANDP	4	000009D6	00000001	C	C		979	857M	985								
RETURNN	4	0000138A	00000005	I			1789	1778B	1783B	1787B							
RLDFLAG	1	0000000C		U			838	987									
RLDT	1	000009CE	00000001	X	X		975	856									
R0	1	00000000		U			2779	866M	867	871	873	874	947	1657M	1658	1665M	1666M
								1678M	1679								
R1	1	00000001		U			2780	375M	377	379	385	394M	489	505M	508	512	515M
								518	522	536	538	541	542M	553	558	562M	587M
								602M	860M	861	863	866	872	874M	888M	890M	893
								897	902M	903	904M	907	911	914	915	916	917
								919	920	921	922	925	926	940	943	947M	948
								950	967	984	985	986	987	988M	990	1026	1316
								1317	1322	1323	1339	1340	1667M	1705M	1725M	1743M	
R10	1	0000000A		U			2789	150U	153M	1050M	1051	1053M	1054	1065M	1069	1073M	1074
								1075	1080	1090M	1091M	1092	1101M	1102	1111M	1115	1126M
								1150M	1151M	1161M	1162	1164M	1176M	1177M	1178M	1179	1184M
								1185M	1186M	1188	1190M	1192	1193M	1197	1206M	1224M	1230M
								1280M	1281	1282M	1283	1309M	1310	1320M	1321	1331M	1332
								1338	1339	1340							
R11	1	0000000B		U			2790	218M	227	233M	248M	251M	252	307M	312	323M	328M
								363M	555M	556	617	619M	620	626	634M	635	636M
								637	638	643	644M	645	1112M	1113M	1114M	1115M	1116
								1117	1127M	1152M	1153	1154	1160M	1162M	1171M	1174M	1190
								1191M	1192M	1196M	1203M	1204M	1205	1207	1218M	1220M	1222M
								1226M	1228	1231M	1234M	1236M	1238	1246M	1247		
R12	1	0000000C		U			2791	1066M	1067M	1118M	1680M						
R13	1	0000000D		U			2792	151U	1025U	1789M							
R14	1	0000000E		U			2793	172M	180M	192M	228M	272M	289M	325M	368M	421M	427M
								440M	454M	533M	535M	537M	539M	544M	557M	564M	571
								573M	574M	575B	581B	601M	641B	842M	848	849M	855
								857	858M	859M	868	870	875M	878M	884	898M	901M
								903	1029	1108M	1117M	1141	1143	1144M	1154M	1197	1208
								1218	1266	1268M	1269M	1285M	1287B	1338			
R15	1	0000000F		U			2794	146	153	571	572M	573B	574M	595M	598U	611D	865M
								867M	868	870M	871M	872	873M	875	965M	966	968
								969	984M	990	1029	1225M	1235M	1239M	1240	1266	1267M
								1268B	1269M	1270B	1285M	1315M	1318M	1777M	1782M	1785M	1788M
R2	1	00000002		U			2781	158M	159	171M	176M	190M	191M	208M	227M	243M	254M
								256M	257M	259M	266M	268M	270	284M	285	286M	287
								288M	300M	322	327	331	332	333	340	374	399
								406	417	426M	439M	447M	453M	464M	474M	540M	543M
								548M	563M	586M	600M	603B	940	941	942	949	951
								967	969M	986	989M	1010U	1653M	1654U	1676M	1677U	1764M
								1765U									
R3	1	00000003		U			2782	177M	178M	179	185M	187M	189	240M	248	253M	260M
								261	263	265M	306M	308	311M	312	314	315	317M
								318M	319M	320	321M	322	334M	335M	345M	350	354M
								355M	356	360M	361M	362	363	372M	373M	395M	398M
								399M	400	401	403	416M	419M	420	545M	554M	555
								843M	850M	856M	861	863	876	914	921	922	923
								944M	945M	946	950	1140M	1141M	1145M	1175M	1182M	1186
								1680M	1705								
R4	1	00000004		U			2783	186M	187	241M	242	244M	245	246	247M	252	255M
								262	263	264M	269	308M	309	340M	341	342	343
								344M	350M	351	353	356M	357	359	362M	364	366
								371	374M	376	381	382	387	388	391	392	393M
								402M	403	547M	549M	550	848M	855M	880B	1047M	1766M
								1769									
R5	1	00000005		U			2784	199M	205	212M	219M	223	234M	249M	250M	251	261M
								265	269M	270M	271	281M	282	285M	296M	303M	314M
								316M	334	355	361	373	1032M	1033	1049	1091	1095
								1098	1101	1160	1164	1178	1203	1206	1275	1276M	1278
								1330M	1332M								
R6	1	00000006		U			2785	168	175	239	301	321	438	491	532	925	968M
								1062M	1128	1131	1133	1135	1150	1152	1155M	1176	
R7	1	00000007		U			2786	200M	214M	220M	235M	277M	287M	288	295M	302M	304
								308	324	329	337	338	348	350	353	356	362
								375	396	1048M	1049M	1051	1054M	1055M	1057M	1058M	1062
								1064	1073	1109	1111	1113	1114	1151	1308M	1310M	1311M
								1313M	1314M	1317							
R8	1	00000008		U			2787	154M	242	246	262	282	546M	559M	560M	1681U	1683D
								1743									
R9	1	00000009		U			2788	201M	204M	207	213M	221M	225M	226	615M	616M	617
								619	623M	629M	630	632M	633	636	1027M	1028	1056M
								1057	1063M	1064M	1065	1066	1068M	1069M	1073	1125M	117

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390	3.1.04	2012/08/17	13.13
SVAR1	4	00000F3C	00000004	F	F		1363	1029M 1285				
SVAR2	4	00000F34	00000004	F	F		1362	1266M 1269				
SW	1	0000069C	00000001	X	X		728	437M				
SWITCH	4	00001320	00000005	I			1744	1685M				
SWTO	1	00000F32	00000004	X	X		1361	1213 1303M				
SYSUT1	4	00000578	FFFFFFFE	F	F		2648	2709				
TERM	1	00000004		U			2466	1656				
TERR	1	00000008		U			2446	1086 1284 1775				
TRINTEXT	8	00000F49	00000004	C	C		1370	1208				
TRM10	4	000001CA	00000001	I			300	162B 164B 283B				
TRM11	4	000001EA	00000001	I			308	313B				
TRM11A	2	000001FE	00000001	I			314	310B				
TRM12A	2	00000204	00000001	I			316	305B				
TRM14	4	00000286	00000001	I			350	354B				
TRM14A	4	00000298	00000001	I			354	352B				
TRM15	2	0000029C	00000001	I			355	349B				
TRM16	4	0000029E	00000001	I			356	360B				
TRM16A	4	000002AE	00000001	I			360	358B				
TRM17	4	000002B4	00000001	I			362	372B				
TRM17A	4	000002D4	00000001	I			371	367B				
TRM18	4	000002D8	00000001	I			372	365B 368				
TRM19	2	0000024C	00000001	I			334	325				
TRM191	6	00000264	00000001	I			341	345B				
TRM192	4	0000027E	00000001	I			348	339B				
TRM20	6	000002E6	00000001	I			376	395B				
TRM21	4	00000308	00000001	I			385	378B				
TRM21A	4	0000031C	00000001	I			391	386B				
TRM211	4	00000324	00000001	I			393	380B 383B 389B				
TRM22	4	00000330	00000001	I			396	336B 346B				
TRM23	4	0000035A	00000001	I			410	404B				
TRM23A	4	00000382	00000001	I			420	418B				
TRM23B	2	0000038A	00000001	H	H		422	420M				
TRM24	6	0000039A	00000001	I			434	415B				
TRM24A	4	000003AC	00000001	I			438	436B				
TRM26	3	000003F9	00000001	X	X		467	463M				
TRM27	4	00000356	00000001	I			406	397B				
TRM29	8	000003C6	00000001	C	C		448	494				
TRM32ID	2	00000396	00000001	H	H		429	498				
TRM33	6	0000044C	00000001	I			499	495B				
TRM34	6	00000440	00000001	I			497	493B				
TRM35	4	0000041A	00000001	I			486	462B				
TRM37	4	00000564	00000001	I			586	411B 413B 561B 646B				
TRM39	2	00000074	00000001	H	H		181	179M 185				
TRM4	4	0000005C	00000001	I			175	170B				
TRM41	2	00000094	00000001	H	H		193	189M				
TRM42	4	0000009A	00000001	I			199	188B				
TRM43	8	000000C4	00000001	C	C		209	207M				
TRM44	4	000000B2	00000001	I			205	203B 214B				
TRM45	4	000000CE	00000001	I			212	206B				
TRM47	2	00000102	00000001	H	H		230	226M				
TRM48	4	00000106	00000001	I			233	224B				
TRM49	4	000000EA	00000001	I			223	235B				
TRM5	4	00000130	00000001	I			246	254B				
TRM50A	4	0000047C	00000001	I			513	504B				
TRM51	4	00000496	00000001	I			526	514B				
TRM53	2	000001B2	00000001	I			288	278B 296B				
TRM54	4	000003D0	00000001	I			453	446B				
TRM57	3	00000413	00000001	X	X		477	473M				
TRM6	4	0000016E	00000001	I			263	266B				
TRM60	6	000004E0	00000001	I			541	543B				
TRM61	4	00000500	00000001	I			549	563B				
TRM62	4	000004FC	00000001	I			548	565B				
TRM7	4	0000017C	00000001	I			268	258B				
TRM7AA	2	0000018C	00000001	H	H		273	271M				
TRM70	4	00000196	00000001	I			280	294B				
TRM71	4	000001BE	00000001	I			294	280M				
TXTT	1	000009A8	00000001	X	X		956	850 923				
WAREA	20	00000DE0	00000004	C	C		1343	1074M 1093M 1094M 1097M 1103M 1104M 1108 1140 1219 1224 1260				
WDEC	8	00000DD0	00000004	D	D		1342	1092M 1093 1102M 1103 1179M 1180 1183M 1184				
WDIRET1	4	00000D4E	00000004	I			1301	1027				
WDIRET2	4	00000DA6	00000004	I			1325	1262B 1280				
WERR	1	00000020		U			2444	1077 1786				
WMOVE1	6	00000DBC	00000004	I			1338	1116X 1153X 1207X				
WMOVE3	6	00000DC2	00000004	I			1339	1229X				
WMOVE4	6	00000DC8	00000004	I			1340	1241X				
WORDSEBC	1	00000F64	00000004	U			1505	1174				
WORDSISO	1	0000104C	00000004	U			1576	1171				
WORKAREA	1	00000000	FFFFFFFE	J			2363	151U 1025U				
WSYB SRC	1	00000FA8	00000004	X	X		1387	1182				
WSYB STK	1	00001006	00000004	X	X		1445	1175				
ZEROW	2	00000A50	FFFFFFFE	H	H		2744	171				

Register	References (M=modified, B=branch, U=USING, D=DROP, N=index)														X390 3.1.04 2012/08/17 13.13				
0(0)	591M	866M	867	871	873	874	947	1657M	1658	1665M	1666M	1678M	1679	1714M	1719M	1734M	1739M	1753M	
1(1)	1758M	1793M																	
	375M	377	379	385	394M	486M	489	505M	508M	509	512	515M	518M	519	522	536	538	541	
	542M	553	558	562M	587M	592M	602M	860M	861	863	866	872	874M	888M	890M	893M	894	897	
	902M	903	904M	907M	908	911	914	915	916	917	919	920	921	922	925N	926	940	943	
	947M	948	950N	967	984	985	986	987	988M	990	1026	1251M	1316	1317	1322	1323	1339	1340	
	1667M	1671M	1689M	1695N	1696N	1697N	1698N	1699N	1700	1705M	1708	1709	1711M	1712M	1714M	1715M	1718M	1719	
	1720M	1725M	1728	1729	1731M	1732M	1734M	1735M	1738M	1739	1740M	1743M	1747	1748	1750M	1751M	1753M	1754M	
	1757M	1758	1759M	1769M	1793M														
2(2)	158M	159	171M	176M	190M	191M	208M	227M	243M	254M	256M	257M	259M	266M	268M	270	284M	285	
	286M	287N	288M	300M	322	327	331	332	333	340	374	399	406	417	426M	439M	447M	453M	
	464M	474M	540M	543M	548M	563M	586M	591	600M	603B	940	941	942N	949N	951N	967	969M	986	
	989M	1010U	1653M	1654U	1676M	1677U	1764M	1765U	1793M										
3(3)	177M	178M	179	185M	187M	189	240M	248	253M	260M	261	263	265M	306M	308N	311M	312	314	
	315	317M	318M	319M	320	321M	321N	322	334M	335M	345M	350N	354M	355M	356N	360M	361M	362N	
	363	372M	373M	395M	398M	399M	399N	400	401	403	416M	419M	420	545M	554M	555	843M	850M	
	856M	861	863	876B	914	921	922	923	944M	945M	946	950	1140M	1141M	1145M	1175M	1182M	1186	
4(4)	1680M	1695	1705	1793M															
	186M	187	241M	242	244M	245	246	247M	252	255M	262	263	264M	269	308M	309	340M	341	
	342	343	344M	350M	351	353	356M	357	359	362M	364	366	371	374M	376	381	382	387	
	388	391	392	393M	402M	403	547M	549M	550	848M	855M	880B	1047M	1680M	1766M	1769	1793M		
5(5)	199M	205	212M	219M	223	234M	249M	250M	251	261M	265	269M	270M	271	281M	282	285M	296M	
	303M	314M	316M	334	355	361	373	1032M	1033	1049	1091N	1095	1098	1101	1160	1164	1178	1203	
	1206	1275	1276M	1278	1330M	1332M	1680M	1793M											
6(6)	168	175	239	301	321	438	491	532	925	968M	1062M	1128	1131	1133	1135	1150	1152	1155M	
	1176	1680M	1793M																
	200M	214M	220M	235M	277M	287M	288	295M	302M	304	308	324	329	337	338	348	350	353	
7(7)	356	362	375	396	1048M	1049M	1051	1054M	1055M	1057M	1058M	1062	1064	1073	1109	1111	1113	1114	
	1151	1308M	1310M	1311M	1313M	1314M	1317	1680M	1793M										
	154M	242	246	262	282	546M	559M	560M	1680M	1681U	1683D	1696	1743	1793M					
8(8)	201M	204M	207	213M	221M	225M	226	615M	616M	617	619	623M	629M	630	632M	633	636N	1027M	
	1028	1056M	1057	1063M	1064M	1065	1066	1068M	1069M	1073N	1125M	1177	1187M	1188	1202M	1204	1219M	1220	
	1221M	1222	1223M	1228M	1229	1230N	1233M	1234	1238M	1240M	1241	1274M	1275M	1276	1277M	1278	1312M	1313	
9(9)	1319M	1321M	1322	1680M	1697	1725	1793M												
	150U	153M	1050M	1051	1053M	1054	1065M	1069	1073M	1074	1075	1080	1090M	1091M	1092	1101M	1102	1111M	
	1115	1126M	1150M	1151M	1151N	1161M	1162	1164M	1176M	1177M	1178M	1178N	1179	1184M	1185M	1186M	1186N	1188	
10(A)	1190M	1190N	1192	1193M	1197	1206M	1224M	1230M	1280M	1281	1282M	1283	1309M	1310	1320M	1321	1331M	1332	
	1338	1339	1340	1680M	1793M														
	218M	227	233M	248M	251M	252	307M	312	323M	328M	363M	555M	556	617	619M	620	626	634M	
11(B)	635	636M	637	638	643	644M	645	1112M	1113M	1114M	1115M	1116	1117N	1127M	1152M	1153	1154N	1160M	
	1162M	1171M	1174M	1190	1191M	1192M	1196M	1203M	1204M	1205	1207	1218M	1220M	1222M	1226M	1228	1231M	1234M	
	1236M	1238	1246M	1247	1680M	1698	1793M												
12(C)	1066M	1067M	1118M	1680M	1699	1793M													
13(D)	151U	1025U	1789M	1792N	1793														
14(E)	172M	180M	192M	228M	272M	289M	325M	368M	421M	427M	440M	454M	510M	520M	533M	535M	537M	539M	
	544M	557M	564M	571	573M	574M	575B	581B	601M	641B	842M	848	849M	855	857	858M	859M	868	
	870	875M	878M	884	895M	898M	901M	903	909M	1029	1108M	1117M	1141	1143	1144M	1154M	1197	1208	
15(F)	1218	1266	1268M	1269M	1285M	1287B	1338	1710M	1713M	1714	1730M	1733M	1734	1749M	1752M	1753	1792M	1794B	
	146B	153	509M	510B	519M	520B	571	572M	573B	574M	595M	598U	611D	865M	867M	868	870M	871M	
	872	873M	875	894M	895B	908M	909B	965M	966	968N	969N	984M	990	1029	1225M	1235M	1239M	1240	
	1266	1267M	1268B	1269M	1270B	1285M	1292M	1315M	1318M	1708M	1712	1713	1716	1720	1728M	1732	1733	1736	
	1740	1747M	1751	1752	1755	1759	1777M	1782M	1785M	1788M									

X51 Dsect Cross Reference						PAGE 34		
Dsect	Length	Id	Defn	Con	Member	X390 3.1.04	2012/08/17	13.13
IHADCB	00000060	FFFFFFFF	1807	1	DCBD			
WORKAREA	00000DA8	FFFFFFFE	2363		PRIMARY INPUT			

Con	Source	Members								X390	3.1.04	2012/08/17	13.13
1	SYS1.MACLIB	CLOSE SPIE	DCB TIME	DCBD WTO	FREEMAIN XCTL	FREEPOOL	IEZREGS	IHBINNRA	IHBINNRB	IHB01	PUT	RETURN	
2	SYSD.TOOLS.MACLIB												
3	SYSD.ALGOLF.ASM												
		IEX60000											
4	SYSD.ALGOLF.MACLIB	IEXCGEN	IEXCHAR	IEXENTRY	WORKAREA								
5	SYSD.ALGOLFR.T.MACLIB	DSTABLE											
6	SYS1.AMODGEN												

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text	X390 3.1.04	2012/08/17	13.13
150		USING	Ordinary	00000001	00000000	00001000	10	00A0D	992	IEX51000, R10			
151		USING	Ordinary	FFFFFFFFE	00000000	00001000	13	00AA8	919	WORKAREA, R13			
598		USING	Ordinary	00000001	00000576	00001000	15	001CA	602	*, R15			
611		DROP							15	R15			
1010		USING	Ordinary	00000004	00000A10	00001000	2	0063C	1333	IEX60000, R2			
1025		USING	Ordinary	FFFFFFFFE	00000000	00001000	13	00209	1789	WORKAREA, R13			
1654		USING	Ordinary	00000005	0000123A	00001000	2	00026	1664	*, R2			
1677		USING	Ordinary	00000005	00001262	00001000	2	000F0	1756	*, R2			
1681		USING	Ordinary	FFFFFFFFF	00000000	00001000	8	00030	1682	IHADCB, R8			
1683		DROP							8	R8			
1765		USING	Ordinary	00000005	00001354	00001000	2	00036	1787	*, R2			

The following statements were flagged -

SYSD.ALGOLF.ASM(IEX51)  
598(580)

1 statement flagged in this assembly, 4 was the highest severity code.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1X51 STEPNAME: IEX51 PROCSTEP: X390

Primary input: lines 1 to 1113 of SYSD.ALGOLF.ASM(IEX51)

SYSLIB library records read: 6972

SYSUT1 work file size: 246584 bytes

SYSUT2 work file size: 544662 bytes

SYSUT3 work file size: 89040 bytes

SYSLIN file records written: 99

TXA000I Return code 4, elapsed time 5.29 seconds.



Csect	Rel	Addr(hex)	Length(dec)
-------	-----	-----------	-------------

IEX51000		000A0E	2
----------	--	--------	---

IEX60000		001234	4
----------	--	--------	---

**IEX51M**

**LEVEL**

**V2.M01**

TLC002I Tachyon Legacy Assembler is licensed to Thomas Armstrong  
 TLC011I License expires on 2012/10/17 at 01:00

Command Line Parameters- -PARM("LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT")  
 -S1//DDN:SYSUT1  
 -S2//DDN:SYSUT2  
 -S3//DDN:SYSUT3  
 -SN//DDN:SYSLIN  
 -SL//DDN:SYSLIB  
 -ST//DDN:SYSPRINT  
 -SH//DDN:SYSPUNCH  
 -SA//DDN:SYSADATA  
 -SM1

Options for this Assembly	Source
-----	-----
AControl(Align,NoLibMac)	(default)
NoADData	(default)
AdataLevel(5)	(default)
NoCompAT	(default)
DXref	(default)
NoEsd	Command Line
Flag(0,Align,ConT,EXlitw,NoImpLen,PUSH,ReCord,NoSubstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra	
2,Hlasm,NoTRunc,NoIndex)	(default)
NoFOld	(default)
IDR('X390ASM 3104')	(default)
NoINFO	Command Line
Language(EN)	(default)
LineCount(101)	Command Line
List(121)	(default)
MsgLevel(0,0)	Command Line
MXref(Source)	(default)
Object(0mf)	Command Line
OPtable(Uni,NoList)	(default)
PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL,NT)	Command Line
NoPControl	(default)
PRIntctl(Asa)	//DDN:SYSPRINT
ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)	(default)
NoProFile	(default)
NoRLd	Command Line
RXref(NoCr,Gr,NoFr)	(default)
Size(3145728)	Command Line
NoSuppress	(default)
Sysadata(//DDN:SYSADATA)	Command Line
SysLib(//DDN:SYSLIB)	Command Line
Syslin(//DDN:SYSLIN)	Command Line
NoSysParm	(default)
Sysprint(//DDN:SYSPRINT)	Command Line
Syspunch(//DDN:SYSPUNCH)	Command Line
SystemId('MVS 3.8')	(default)
SystemM(1)	Command Line
Sysut1(//DDN:SYSUT1)	Command Line
Sysut2(//DDN:SYSUT2)	Command Line
Sysut3(//DDN:SYSUT3)	Command Line
NoTerm	Command Line
NoTEst	(default)
TypeCheck(Magnitude,Register)	(default)
NoUsingLimit	(default)
UsingMap	(default)
Xref(Short)	Command Line

DDNAMEs	File/Data Set Names
-----	-----
SYSIN	SYSD.ALGOLF.ASM(IEXS1M)
SYSLIB	SYS1.MACLIB
	SYSD.TOOLS.MACLIB
	SYSD.ALGOLF.ASM
	SYSD.ALGOLF.MACLIB
	SYSD.ALGOLFRT.MACLIB
	SYS1.AMODGEN
SYSLIN	SYS12230.T131337.RA000.T151M.OBJECT
SYSPRINT	JES2.JOB09280.S00102
SYSUT1	SYS12230.T131337.RA000.T151M.SYSUT1
SYSUT2	SYS12230.T131337.RA000.T151M.SYSUT2
SYSUT3	SYS12230.T131337.RA000.T151M.SYSUT3

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
				2 *			00002001
				3 *		FUNCTION/OPERATION -	00003001
				4 *		THIS MODULE CONTAINS MESSAGE TEXTS FOR ALL ERRORS THAT	00004001
				5 *		MAY BE DETECTED BY IEX00, IEX50, AND IEX51, AND THE	00005001
				6 *		CORRESPONDING ADDRESS TABLE	00006001
				7 *			00007001
				8 *		ENTRY POINT - N/A	00008001
				9 *			00009001
				10 *		INPUT - N/A	00010001
				11 *			00011001
				12 *		OUTPUT - N/A	00012001
				13 *			00013001
				14 *		EXTERNAL ROUTINES - N/A	00014001
				15 *			00015001
				16 *		EXITS - NORMAL - N/A	00016001
				17 *			00017001
				18 *		EXITS - ERROR - N/A	00018001
				19 *			00019001
				20 *		TABLES/WORKAREAS - N/A	00020001
				21 *			00021001
				22 *		ATTRIBUTES - N/A	00022001
				23 *			00023001
				24 *		NOTES -	00024001
				25 *		AT SYSTEM GENERATION THIS MODULE WILL BE LINKED	00025001
				26 *		TOGETHER WITH THE MODULE IEX51 TO FORM THE MODULE IEX51	00026001
				27 *			00027001
000000		00000	008FC	28	IEX51M00	CSECT	00028001
				29 *			00029001
				30		ENTRY IEX51M01	00030001
				31 *			00031001
				32 *		ERROR MESSAGE POOL 3	00032001
				33 *			00033001
		00000		34	WEMPOOL3	EQU *	00034001
				35 *			00035001
000000	280500081244001B			36	W160	DC X'280500081244001B00001B45001C000C1C'	00036001
000011	E2E2C5D8E4C5D5C3			37		DC CL24'SSEQUENCE NOT ALLOWED.'	00037001
				38 *			00038001
000029	300500081244001B			39	W161	DC X'300500081244001B00001B450024000C24'	00039001
00003A	E2E2C5D8E4C5D5C3			40		DC CL32'SSEQUENCE OPERAND NOT ALLOWED.'	00040001
				41 *			00041001
00005A	2F0500171244002A			42	W162	DC X'2F0500171244002A00042A45002F00002F'	00042001
00006B	E2D6D7C5D9C1D5C4			43		DC CL31'SOPERAND MISSING BETWEEN AND .'	00043001
				44 *			00044001
00008A	3B0300110C44001E			45	W163	DC X'3B0300110C44001E001D1E'	00045001
000095	E2D6D7C5D9C1D5C4			46		DC CL49'SOPERAND FOLLOWING MUST BE OF ARITHMETICAL TYPE.'	00046001
				47 *			00047001
0000C6	3205001A1244002D			48	W164	DC X'3205001A1244002D00042D450032000032'	00048001
0000D7	E2D5D640D6D7C5D9			49		DC CL34'SNO OPERAND ALLOWED BETWEEN AND .'	00049001
				50 *			00050001
0000F9	3500			51	W165	DC X'3500'	00051001
0000FB	E2C5E7D7D9C5E2E2			52		DC CL52'SEXPRESSIONS BEFORE AND AFTER ''ELSE''	00052001
00012F	D5D6E340C3D6D4D7			53		DC C'NOT COMPATIBLE.'	00053001
				54 *			00054001
00013E	2100			55	W166	DC X'2100'	00055001
000140	E2C4C5C3D3C1D9C1			56		DC CL32'SDECLARATOR IN ILLEGAL POSITION.'	00056001
				57 *			00057001
000160	3202440009002909			58	W167	DC X'3202440009002909'	00058001
000168	E240C1D5C440D6D7			59		DC CL43'S AND OPERAND PRECEDING DECLARATOR ILLEGAL.'	00059001
				60 *			00060001
000193	330300110C44001E			61	W168	DC X'330300110C44001E00151E'	00061001
00019E	E2D6D7C5D9C1D5C4			62		DC CL41'SOPERAND PRECEDING CANNOT POSSESS VALUE.'	00062001
				63 *			00063001
0001C7	2403000F0C44001C			64	W169	DC X'2403000F0C44001C00081C'	00064001
0001D2	E2D3C1C2C5D340C6			65		DC CL26'SLABEL FOLLOWING ILLEGAL.'	00065001
				66 *			00066001
0001EC	2400			67	W172	DC X'2400'	00067001
0001EE	E2C4C9C6C6C5D9C5			68		DC CL35'SDIFFERENT TYPES IN LEFT PART LIST.'	00068001
				69 *			00069001
000211	3C00			70	W173	DC X'3C00'	00070001
000213	E3C3D6D4D7C9D3C1			71		DC CL59'TCOMPILATION UNSUCCESSFUL DUE TO COMPILER OR MACHINX E ERROR.'	00071001
				72 *			00072001
00024E	3C00			73	W174	DC X'3C00'	00073001
000250	E2D7C1D9C1D4C5E3			74		DC CL59'SPARAMETERS NOT ALLOWED FOR TYPE PROCEDURE CALLED BX Y VALUE.'	00074001
				75 *			00075001
00028B	360300120C44001E			76	W175	DC X'360300120C44001E00181E'	00076001
000296	E2D6D7C5D9C1D5C4			77		DC CL44'SOPERAND FOLLOWING MUST BE LABEL OR SWITCH.'	00077001
				78 *			00078001
0002C2	230300160C440023			79	W176	DC X'230300160C440023000023'	00079001
0002CD	E2D6D7C5D9C1D5C4			80		DC CL25'SOPERAND MISSING BEFORE .'	00080001
				81 *			00081001
0002E6	2703001A0C440027			82	W177	DC X'2703001A0C440027000027'	00082001
0002F1	E2D6D7C5D9C1D5C4			83		DC CL29'SOPERAND NOT ALLOWED BEFORE .'	00083001
				84 *			00084001
00030E	3700			85	W178	DC X'3700'	00085001
000310	E2C9D3D3C5C7C1D3			86		DC CL54'SILLEGAL OPERAND IN EXPRESSION BEFORE OR AFTER ''ELX SE''.'	00086001
				87 *			00087001
000346	6100			88	W179	DC X'6100'	00088001
000348	E2D5E4D4C2C5D940			89		DC CL96'SNUMBER OF SUBSCRIPT EXPRESSIONS DIFFERS FROM DIMENX SION IN ARRAY DECLARATION FOR VARIABLE.'	00089001
				90 *			00090001
0003A8	1C00			91	W180	DC X'1C00'	00091001
0003AA	E2C9D5E5C1D3C9C4			92		DC CL27'SINVALID SWITCH DESIGNATOR.'	00092001
				93 *			00093001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	X390 3.1.04 2012/08/17 13.13
0003C5	2800			94	W181	DC X'2800'	00098001
0003C7	E2E2E6C9E3C3C840			95		DC CL39'SSWITCH DESIGNATOR IN ILLEGAL POSITION.'	00099001
				96	*		00100001
0003EE	2E0300110C44001E			97	W182	DC X'2E0300110C44001E00101E'	00101001
0003F9	E2D6D7C5D9C1D5C4			98		DC CL36'SOPERAND FOLLOWING MUST BE BOOLEAN.'	00102001
				99	*		00103001
00041D	3D0300110C44001E			100	W183	DC X'3D0300110C44001E001F1E'	00104001
000428	E2D6D7C5D9C1D5C4			101		DC CL51'SOPERAND PRECEDING MUST BE A PROCEDURE IDENTIFIER.	X00105001
						'	00106001
				102	*		00107001
00045B	440300110C44001E			103	W184	DC X'440300110C44001E00261E'	00108001
000466	E2D6D7C5D9C1D5C4			104		DC CL58'SOPERAND PRECEDING MUST BE AN ARRAY OR SWITCH IDENTIFIER.'	X00109001
							00110001
				105	*		00111001
0004A0	440300160C440023			106	W185	DC X'440300160C440023002123'	00112001
0004AB	E2D9C5C1D340D6D7			107		DC CL58'SREAL OPERAND PRECEDING NOT ALLOWED FOR INTEGER DIVISION.'	X00113001
							00114001
				108	*		00115001
0004E5	3B00			109	W186	DC X'3B00'	00116001
0004E7	E3E2E8D5E3C1C3E3			110		DC CL58'TSYNTACTICAL STRUCTURE TOO COMPLICATED. INTERNAL OVERFLOW.'	X00117001
							00118001
				111	*		00119001
000521	2800			112	W187	DC X'2800'	00120001
000523	E2C9D5C3D6D9D9C5			113		DC CL39'SINCORRECT NUMBER OF ACTUAL PARAMETERS.'	00121001
				114	*		00122001
00054A	3902003009800004			115	W188	DC X'3902003009800004'	00123001
000552	E2C9D5E5C1D3C9C4			116		DC CL50'SINVALID ACTUAL PARAMETER FOR STANDARD PROCEDURE.'	00124001
				117	*		00125001
000584	3D00			118	W189	DC X'3D00'	00126001
000586	E2C4C1E3C140E2C5			119		DC CL60'SDATA SET NUMBER OR FUNCTION OF SYSACT OUT OF ALLOWED RANGE.'	X00127001
							00128001
				120	*		00129001
0005C2	1A00			121	W190	DC X'1A00'	00130001
0005C4	E2C1E2E2C9C7D5D4			122		DC CL25'SASSIGNMENT NOT POSSIBLE.'	00131001
				123	*		00132001
0005DD	2E0300200C44002D			124	W191	DC X'2E0300200C44002D00012D'	00133001
0005E8	E2D5D640D6D7C5D9			125		DC CL36'SNO OPERAND ALLOWED BETWEEN ) AND .'	00134001
				126	*		00135001
00060C	2D00			127	W192	DC X'2D00'	00136001
00060E	E2C9D5E5C1D3C9C4			128		DC CL44'SINVALID RIGHT PART IN ASSIGNMENT STATEMENT.'	00137001
				129	*		00138001
00063A	2D00			130	W193	DC X'2D00'	00139001
00063C	E2C9D5C3D6D4D7C1			131		DC CL44'SINCOMPATIBLE TYPES IN ASSIGNMENT STATEMENT.'	00140001
				132	*		00141001
000668	1502440009000C09			133	W194	DC X'1502440009000C09'	00142001
000670	E240D5D6E340C1D3			134		DC CL14'S NOT ALLOWED.'	00143001
				135	*		00144001
00067E	290300100C44001D			136	W195	DC X'290300100C44001D000C1D'	00145001
000689	E2E2C5D8E4C5D5C3			137		DC CL31'SSEQUENCE OPERAND NOT ALLOWED.'	00146001
				138	*		00147001
0006A8	3303001A0C440027			139	W196	DC X'3303001A0C440027000C27'	00148001
0006B3	E2C1D9D9C1E840C9			140		DC CL41'SARRAY IDENTIFIER PRECEDING NOT ALLOWED.'	00149001
				141	*		00150001
				142	*	DIRECTORY MESSAGES	00151001
				143	*		00152001
		006DC		144	W209	EQU *	00153001
0006DC	460400360FF00000			145	W197	DC X'460400360FF00000840046000046'	00154001
0006EA	E3C3D6D4D7C9D3C1			146		DC CL57'TCOMPILATION UNSUCCESSFUL DUE TO PROGRAM INTERRUPT.	X00155001
						PSW .'	00156001
				147	*		00157001
		00723		148	W210	EQU *	00158001
000723	300300270C840030			149	W198	DC X'300300270C840030000030'	00159001
00072E	E3E4D5D9C5C3D6E5			150		DC CL38'TUNRECOVERABLE I/O ERROR ON DATA SET .'	00160001
				151	*		00161001
		00754		152	W211	EQU *	00162001
000754	D7D9D6C7D9C1D440			153	W199	DC CL56'PROGRAM INTERRUPT IN ERROR MESSAGE EDITING ROUTINE.	X00163001
						PSW '	00164001
				154	*		00165001
				155	*	MESSAGES USED BY MORE THAN ONE PHASE	00166001
				156	*		00167001
		0078C		157	W212	EQU *	00168001
00078C	1200			158	W200	DC X'1200'	00169001
00078E	E3E3D6D640D4C1D5			159		DC CL17'TTOO MANY ERRORS.'	00170001
				160	*		00171001
		0079F		161	W213	EQU *	00172001
00079F	2800			162	W201	DC X'2800'	00173001
0007A1	E3C9D5E3C5D9D5C1			163		DC CL39'TINTERNAL OVERFLOW OF IDENTIFIER TABLE.'	00174001
				164	*		00175001
		007C8		165	W214	EQU *	00176001
0007C8	3903002D0C84003A			166	W202	DC X'3903002D0C84003A00003A'	00177001
0007D3	E2C4C1E3C140E2E3			167		DC CL48'SDATA STORAGE AREA EXCEEDED, PROGRAM BLOCK NO. .'	00178001
				168	*		00179001
		00803		169	W215	EQU *	00180001
000803	1A00			170	W203	DC X'1A00'	00181001
000805	E3E2D6E4D9C3C540			171		DC CL25'TSOURCE PROGRAM TOO LONG.'	00182001
				172	*		00183001
		0081E		173	W216	EQU *	00184001
00081E	2600			174	W204	DC X'2600'	00185001
000820	E2E3D6D640D4C1D5			175		DC CL37'TTOO MANY LABELS. LABEL NUMBER RESET.'	00186001
				176	*		00187001
000845	000000						
000848				177		DC 0F'0'	00188001
				178	*		00189001
				179	*	ADDRESS TABLE FOR WEMPOOL3	00190001
				180	*		00191001
		005C8		181	IEX51M01	EQU *-640	00192001

Loc	Object Code	Addr1	Addr2	Stmt	Source	Statement	
							X390 3.1.04 2012/08/17 13.13
000848	00000000			182	DC	A(W160)	00193001
00084C	00000029			183	DC	A(W161)	00194001
000850	0000005A			184	DC	A(W162)	00195001
000854	0000008A			185	DC	A(W163)	00196001
000858	000000C6			186	DC	A(W164)	00197001
00085C	000000F9			187	DC	A(W165)	00198001
000860	0000013E			188	DC	A(W166)	00199001
000864	00000160			189	DC	A(W167)	00200001
000868	00000193			190	DC	A(W168)	00201001
00086C	000001C7			191	DC	A(W169)	00202001
000870	00000000			192	DC	A(0)	00203001
000874	00000000			193	DC	A(0)	00204001
000878	000001EC			194	DC	A(W172)	00205001
00087C	00000211			195	DC	A(W173)	00206001
000880	0000024E			196	DC	A(W174)	00207001
000884	0000028B			197	DC	A(W175)	00208001
000888	000002C2			198	DC	A(W176)	00209001
00088C	000002E6			199	DC	A(W177)	00210001
000890	0000030E			200	DC	A(W178)	00211001
000894	00000346			201	DC	A(W179)	00212001
000898	000003A8			202	DC	A(W180)	00213001
00089C	000003C5			203	DC	A(W181)	00214001
0008A0	000003EE			204	DC	A(W182)	00215001
0008A4	0000041D			205	DC	A(W183)	00216001
0008A8	0000045B			206	DC	A(W184)	00217001
0008AC	000004A0			207	DC	A(W185)	00218001
0008B0	000004E5			208	DC	A(W186)	00219001
0008B4	00000521			209	DC	A(W187)	00220001
0008B8	0000054A			210	DC	A(W188)	00221001
0008BC	00000584			211	DC	A(W189)	00222001
0008C0	000005C2			212	DC	A(W190)	00223001
0008C4	000005DD			213	DC	A(W191)	00224001
0008C8	0000060C			214	DC	A(W192)	00225001
0008CC	0000063A			215	DC	A(W193)	00226001
0008D0	00000668			216	DC	A(W194)	00227001
0008D4	0000067E			217	DC	A(W195)	00228001
0008D8	000006A8			218	DC	A(W196)	00229001
0008DC	000006DC			219	DC	A(W197)	00230001
0008E0	00000723			220	DC	A(W198)	00231001
0008E4	00000754			221	DC	A(W199)	00232001
0008E8	0000078C			222	DC	A(W200)	00233001
0008EC	0000079F			223	DC	A(W201)	00234001
0008F0	000007C8			224	DC	A(W202)	00235001
0008F4	00000803			225	DC	A(W203)	00236001
0008F8	0000081E			226	DC	A(W204)	00237001
				227	*		00238001
				228	END		00239001

Symbol	Length	Value	Id	Type	Asm	Program	Defn	References	X390 3.1.04	2012/08/17	13.13
IEX51M01	1	000005C8	00000001	U			181	30			
W160	17	00000000	00000001	X	X		36	182			
W161	17	00000029	00000001	X	X		39	183			
W162	17	0000005A	00000001	X	X		42	184			
W163	11	0000008A	00000001	X	X		45	185			
W164	17	000000C6	00000001	X	X		48	186			
W165	2	000000F9	00000001	X	X		51	187			
W166	2	0000013E	00000001	X	X		55	188			
W167	8	00000160	00000001	X	X		58	189			
W168	11	00000193	00000001	X	X		61	190			
W169	11	000001C7	00000001	X	X		64	191			
W172	2	000001EC	00000001	X	X		67	194			
W173	2	00000211	00000001	X	X		70	195			
W174	2	0000024E	00000001	X	X		73	196			
W175	11	0000028B	00000001	X	X		76	197			
W176	11	000002C2	00000001	X	X		79	198			
W177	11	000002E6	00000001	X	X		82	199			
W178	2	0000030E	00000001	X	X		85	200			
W179	2	00000346	00000001	X	X		88	201			
W180	2	000003A8	00000001	X	X		91	202			
W181	2	000003C5	00000001	X	X		94	203			
W182	11	000003EE	00000001	X	X		97	204			
W183	11	0000041D	00000001	X	X		100	205			
W184	11	0000045B	00000001	X	X		103	206			
W185	11	000004A0	00000001	X	X		106	207			
W186	2	000004E5	00000001	X	X		109	208			
W187	2	00000521	00000001	X	X		112	209			
W188	8	0000054A	00000001	X	X		115	210			
W189	2	00000584	00000001	X	X		118	211			
W190	2	000005C2	00000001	X	X		121	212			
W191	11	000005DD	00000001	X	X		124	213			
W192	2	0000060C	00000001	X	X		127	214			
W193	2	0000063A	00000001	X	X		130	215			
W194	8	00000668	00000001	X	X		133	216			
W195	11	0000067E	00000001	X	X		136	217			
W196	11	000006A8	00000001	X	X		139	218			
W197	14	000006DC	00000001	X	X		145	219			
W198	11	00000723	00000001	X	X		149	220			
W199	56	00000754	00000001	C	C		153	221			
W200	2	0000078C	00000001	X	X		158	222			
W201	2	0000079F	00000001	X	X		162	223			
W202	11	000007C8	00000001	X	X		166	224			
W203	2	00000803	00000001	X	X		170	225			
W204	2	0000081E	00000001	X	X		174	226			



No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8    JOBNAME: T151M    STEPNAME: IEX51M    PROCSTEP: X390

Primary input: lines    1 to    239 of SYSD.ALGOLF.ASM(IEX51M)

SYSLIB library records read: 0

SYSUT1 work file size: 24395 bytes

SYSUT3 work file size: 19120 bytes

SYSLIN file records written: 48

TXA000I Return code 0, elapsed time 0.13 seconds.

INITOBJ - Uninitialized Areas Page No. 1  
Csect Rel Addr(hex) Length(dec)  
IEX51M00 0008FC 4

**LINKEDIT**

**RELEASE**

**LVL2.1**

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,LET,MAP,NCAL

```

DEFAULT OPTION(S) USED - SIZE=(1015808,516096)
IEW0000      INCLUDE OBJECT(OPTIONS)                00046001
IEW0000      INCLUDE OBJECT(IEW00)                   00047001
IEW0000      ENTRY  IEX00000                          00048001
IEW0000      ALIAS  ALGOL                             00049001
IEW0000      IDENTIFY IEX00000('360SAL531 V02 M01 ALGOL F COMPILER') 00050001
IEW0670      IEX00000      360SAL531 V02 M01 ALGOL F COMPILER
IEW0000      IDENTIFY IEX00001('360SAL531 V02 M01 ALGOL F COMPILER') 00051001
IEW0670      IEX00001      360SAL531 V02 M01 ALGOL F COMPILER
IEW0000      NAME    IEX00(R)                        00052001
  
```

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX00001	00	DA8								
IEX00000	DA8	4A0								
			IEX00PIC	E5C	IEX00ED1	F1E	IEX00EDI	F30	IEX00SYN	F3C
			IEX00PRI	F8A	IEX00PRT	1074	IEX00LIN	10D4	IEX00PCH	1134
			IEX00UT2	1194	IEX00UT3	11EC				

ENTRY ADDRESS        DA8

TOTAL LENGTH        1248

\*\*\*IEX00        DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*ALGOL        IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS        0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE	OBJECT(IEX10)	00053001
IEW0000	ALIAS	IEX10000	00054001
IEW0000	ENTRY	IEX10000	00055001
IEW0000	IDENTIFY	IEX10000('360SAL531 V02 M01 ALGOL F COMPILER')	00056001
IEW0670		IEX10000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY	IEX10001('360SAL531 V02 M01 ALGOL F COMPILER')	00057001
IEW0670		IEX10001 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME	IEX10(R)	00058001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX10000	00	818								
IEX10001	818	18								

ENTRY ADDRESS            00

TOTAL LENGTH            830

\*\*\*\*IEX10        DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*\*IEX10000    IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS        0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE	OBJECT(IEX11)	00059001
IEW0000	ALIAS	IEX11000	00060001
IEW0000	ENTRY	IEX11000	00061001
IEW0000	IDENTIFY	IEX11000('360SAL531 V02 M01 ALGOL F COMPILER')	00062001
IEW0670		IEX11000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME	IEX11(R)	00063001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX11000	00	2E40								

ENTRY ADDRESS            00

TOTAL LENGTH            2E40

\*\*\*\*IEX11        DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*\*IEX11000    IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS        0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE	OBJECT(IEX20)	00064001
IEW0000	ALIAS	IEX20000	00065001
IEW0000	ENTRY	IEX20000	00066001
IEW0000	IDENTIFY	IEX20000('360SAL531 V02 M01 ALGOL F COMPILER')	00067001
IEW0670		IEX20000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME	IEX20(R)	00068001

# MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEWX20000	00	898								

ENTRY ADDRESS 00

TOTAL LENGTH 898

\*\*\*\*IEX20 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*\*IEWX20000 IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS 0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.



IEW0000	INCLUDE OBJECT(IEX21)	00069001
IEW0000	INCLUDE OBJECT(IEX21M)	00070001
IEW0000	ENTRY IEX21000	00071001
IEW0000	ALIAS IEX21000	00072001
IEW0000	IDENTIFY IEX21000('360SAL531 V02 M01 ALGOL F COMPILER')	00073001
IEW0670	IEX21000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX21M00('360SAL531 V02 M01 ALGOL F COMPILER')	00074001
IEW0670	IEX21M00 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX60000('360SAL531 V02 M01 ALGOL F COMPILER')	00075001
IEW0670	IEX60000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME IEX21(R)	00076001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX21000	00	60								
IEX60000	60	828								
IEX21M00	888	EC0								
			IEX21M01	1640						
ENTRY ADDRESS		00								
TOTAL LENGTH		1748								
***IEX21 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET										
***IEX21000 IS AN ALIAS FOR THIS MEMBER										
AUTHORIZATION CODE IS 0.										

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000  
IEW0000  
IEW0000  
IEW0000  
IEW0670  
IEW0000

INCLUDE OBJECT(IEX30)  
ALIAS IEX30000  
ENTRY IEX30000  
IDENTIFY IEX30000('360SAL531 V02 M01 ALGOL F COMPILER')  
IEX30000 360SAL531 V02 M01 ALGOL F COMPILER  
NAME IEX30(R)

00077001  
00078001  
00079001  
00080001  
  
00081001

MODULE MAP

CONTROL SECTION

ENTRY

NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEW0000	00	25F0								

ENTRY ADDRESS

00

TOTAL LENGTH

25F0

\*\*\*IEW30 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*IEW30000 IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS 0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE OBJECT(IEX31)	00082001
IEW0000	INCLUDE OBJECT(IEX31M)	00083001
IEW0000	ENTRY IEX31000	00084001
IEW0000	ALIAS IEX31000	00085001
IEW0000	IDENTIFY IEX31000('360SAL531 V02 M01 ALGOL F COMPILER')	00086001
IEW0670	IEX31000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX31M00('360SAL531 V02 M01 ALGOL F COMPILER')	00087001
IEW0670	IEX31M00 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX60000('360SAL531 V02 M01 ALGOL F COMPILER')	00088001
IEW0670	IEX60000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME IEX31(R)	00089001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX31000	00	60								
IEX60000	60	828								
IEX31M00	888	400								
			IEX31M01	B00						
ENTRY ADDRESS		00								
TOTAL LENGTH		C88								
***IEX31 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET										
***IEX31000 IS AN ALIAS FOR THIS MEMBER										
AUTHORIZATION CODE IS 0.										

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE	OBJECT(IEX40)	00090001
IEW0000	ALIAS	IEX40000	00091001
IEW0000	ENTRY	IEX40000	00092001
IEW0000	IDENTIFY	IEX40000('360SAL531 V02 M01 ALGOL F COMPILER')	00093001
IEW0670		IEX40000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME	IEX40(R)	00094001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEW40000	00	AD0								
ENTRY ADDRESS		00								
TOTAL LENGTH		AD0								
***IEX40 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET										
***IEX40000 IS AN ALIAS FOR THIS MEMBER										
AUTHORIZATION CODE IS 0.										

DIAGNOSTIC MESSAGE DIRECTORY  
IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE	OBJECT(IEX50)	00095001
IEW0000	ALIAS	IEX50000	00096001
IEW0000	ENTRY	IEX50000	00097001
IEW0000	IDENTIFY	IEX50000('360SAL531 V02 M01 ALGOL F COMPILER')	00098001
IEW0670		IEX50000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME	IEX50(R)	00099001

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEW50000	00	6288								

ENTRY ADDRESS 00

TOTAL LENGTH 6288

\*\*\*IEX50 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

\*\*\*IEX50000 IS AN ALIAS FOR THIS MEMBER

AUTHORIZATION CODE IS 0.

DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

IEW0000	INCLUDE OBJECT(IEX51)	00100001
IEW0000	INCLUDE OBJECT(IEX51M)	00101001
IEW0000	ENTRY IEX51000	00102001
IEW0000	ALIAS IEX51000, IEX51002, IEX51ER1, IEX51ER2	00103001
IEW0000	IDENTIFY IEX51000('360SAL531 V02 M01 ALGOL F COMPILER')	00104001
IEW0670	IEX51000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX51002('360SAL531 V02 M01 ALGOL F COMPILER')	00105001
IEW0670	IEX51002 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX51M00('360SAL531 V02 M01 ALGOL F COMPILER')	00106001
IEW0670	IEX51M00 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	IDENTIFY IEX60000('360SAL531 V02 M01 ALGOL F COMPILER')	00107001
IEW0670	IEX60000 360SAL531 V02 M01 ALGOL F COMPILER	
IEW0000	NAME IEX51(R)	00108001

# MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEX51000	00	A10								
			IEX51ER1	564	IEX51ER2	576				
IEX60000	A10	828								
IEX51002	1238	160								
IEX51M00	1398	900								
			IEX51M01	1960						
ENTRY ADDRESS 00										
TOTAL LENGTH 1C98										
****IEX51 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET										
****IEX51ER2 IS AN ALIAS FOR THIS MEMBER										
****IEX51ER1 IS AN ALIAS FOR THIS MEMBER										
****IEX51002 IS AN ALIAS FOR THIS MEMBER										
****IEX51000 IS AN ALIAS FOR THIS MEMBER										
AUTHORIZATION CODE IS 0.										

# DIAGNOSTIC MESSAGE DIRECTORY

IEW0670 THE SPECIFIED IDENTIFY DATA HAS BEEN ADDED TO THE IDR FOR THE CONTROL SECTION NAME PRINTED.

