

				HH		HH	EEEEEEEEEEEE	RRRRRRRRRR	CCCCCCCC	00000000	11	AAAAAAAA				
				HH		HH	EEEEEEEEEEEE	RRRRRRRRRR	CCCCCCCC	00000000	111	AAAAAAAA				
				HH		HH	EE	RR	RR	CC	00	0000	1111	AA	AA	
				HH		HH	EE	RR	RR	CC	00	00	00	11	AA	AA
				HH		HH	EE	RR	RR	CC	00	00	00	11	AA	AA
				HHHHHHHHHH		EEEEEEEE		RRRRRRRRRR	CC		00	00	00	11	AAAAAAAA	
				HHHHHHHHHH		EEEEEEEE		RRRRRRRRRR	CC		00	00	00	11	AAAAAAAA	
				HH		HH	EE	RR	RR	CC	00	00	00	11	AA	AA
				HH		HH	EE	RR	RR	CC	0000	00	00	11	AA	AA
				HH		HH	EE	RR	RR	CC	000	00	00	11	AA	AA
				HH		HH	EEEEEEEEEEEE	RR	RR	CCCCCCCC	00000000	11111111	AA	AA	AA	
				HH		HH	EEEEEEEEEEEE	RR	RR	CCCCCCCC	00000000	11111111	AA	AA	AA	

				JJJJJJJJJ		11		11							AAAAAAAA	
				JJJJJJJJJ		111		111							AAAAAAAA	
				JJ		1111		1111							AA	AA
				JJ		11		11							AA	AA
				JJ		11		11							AA	AA
				JJ		11		11							AAAAAAAA	
				JJ		11		11							AAAAAAAA	
				JJ		11		11							AA	AA
				JJ		11		11							AA	AA
				JJ		11		11							AA	AA
				JJ		11		11							AA	AA
				JJJJJJJ		11111111		11111111							AA	AA
				JJJJJ		11111111		11111111							AA	AA

****A	START	JOB	11	HERC01A	ASM	DASM		ROOM	12.48.46	AM	11	JUL	18	PRINTER1	SYS	TK4-	JOB	11	START	A****
****A	START	JOB	11	HERC01A	ASM	DASM		ROOM	12.48.46	AM	11	JUL	18	PRINTER1	SYS	TK4-	JOB	11	START	A****
****A	START	JOB	11	HERC01A	ASM	DASM		ROOM	12.48.46	AM	11	JUL	18	PRINTER1	SYS	TK4-	JOB	11	START	A****
****A	START	JOB	11	HERC01A	ASM	DASM		ROOM	12.48.46	AM	11	JUL	18	PRINTER1	SYS	TK4-	JOB	11	START	A****

J E S 2 J O B L O G

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00.48.13 JOB    11  IEF677I WARNING MESSAGE(S) FOR JOB HERC01A  ISSUED
00.48.13 JOB    11  $HASP373 HERC01A  STARTED - INIT  1 - CLASS A - SYS TK4-
00.48.13 JOB    11  IEF403I HERC01A - STARTED - TIME=00.48.13
00.48.13 JOB    11  IEFACRTT - STEPNAME  PROCSTEP  PROGRAM  RETCODE
00.48.13 JOB    11  HERC01A    M00        ASM        IFOX00    RC= 0000
00.48.15 JOB    11  HERC01A    M02        ASM        IFOX00    RC= 0000
00.48.17 JOB    11  HERC01A    M03        ASM        IFOX00    RC= 0000
00.48.17 JOB    11  HERC01A    M04        ASM        IFOX00    RC= 0000
00.48.18 JOB    11  HERC01A    M05        ASM        IFOX00    RC= 0000
00.48.19 JOB    11  HERC01A    M06        ASM        IFOX00    RC= 0000
00.48.20 JOB    11  HERC01A    M07        ASM        IFOX00    RC= 0000
00.48.21 JOB    11  HERC01A    M08        ASM        IFOX00    RC= 0000
00.48.22 JOB    11  HERC01A    M09        ASM        IFOX00    RC= 0000
00.48.24 JOB    11  HERC01A    M13        ASM        IFOX00    RC= 0000
00.48.25 JOB    11  HERC01A    M19        ASM        IFOX00    RC= 0000
00.48.25 JOB    11  HERC01A    M55        ASM        IFOX00    RC= 0000
00.48.27 JOB    11  HERC01A    MDB        ASM        IFOX00    RC= 0000
00.48.28 JOB    11  HERC01A    MDT        ASM        IFOX00    RC= 0000
00.48.29 JOB    11  HERC01A    MLS        ASM        IFOX00    RC= 0000
00.48.30 JOB    11  HERC01A    MOP        ASM        IFOX00    RC= 0000
00.48.31 JOB    11  HERC01A    MPR        ASM        IFOX00    RC= 0000
00.48.33 JOB    11  HERC01A    MPU        ASM        IFOX00    RC= 0000
00.48.34 JOB    11  HERC01A    ALINK      ASM        IFOX00    RC= 0000
00.48.34 JOB    11  HERC01A    ALINK      LKED      IEWL      RC= 0000
00.48.36 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.36 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.37 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.38 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.40 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.40 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.41 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.41 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.42 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.42 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.44 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.44 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.46 JOB    11  HERC01A    ASM        IFOX00    RC= 0000
00.48.46 JOB    11  HERC01A    LKED      IEWL      RC= 0000
00.48.46 JOB    11  IEF404I HERC01A - ENDED - TIME=00.48.46
00.48.46 JOB    11  $HASP395 HERC01A  ENDED
```

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

11 JUL 18 JOB EXECUTION DATE

85 CARDS READ

35,123 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.54 MINUTES EXECUTION TIME

1	//HERC01A	JOB (Z), 'ASM DASM', CLASS=A, MSGCLASS=A, MSGLEVEL=(1,1),	JOB 11
	//	NOTIFY=HERC01, REGION=2M,	00000200
	//	USER=HERC01, PASSWORD=	
		GENERATED BY GDL	
	*****		00000300
	***		* 00000400
	***	THIS ASSEMBLES AND LINKS THE DISASSEMBLER (DISASM01)	* 00000500
	***		* 00000600
	***		* 00000700
	*****		00000800
	//ASMC	PROC MEM= '?MEMBER?'	00000900
	//ASM	EXEC PGM=IFOX00, PARM='OBJECT, LIST, NODECK'	00001000
	//SYSLIB	DD DISP=SHR, DSN=SYS1.MACLIB, DCB=BLKSIZE=27920	00001100
	//	DD DISP=SHR, DSN=SYS1.AMODGEN	00001200
	//	DD DISP=SHR, DSN=HERC01.DASM.SOURCE	00001300
	//SYSUT1	DD DSN= &&SYSUT1, UNIT=SYSDA, SPACE=(1700, (6000, 1000)),	00001400
	//	SEP=(SYSLIB)	00001500
	//SYSUT2	DD DSN= &&SYSUT2, UNIT=SYSDA, SPACE=(1700, (3000, 500)),	00001600
	//	SEP=(SYSLIB, SYSUT1)	00001700
	//SYSUT3	DD DSN= &&SYSUT3, UNIT=SYSDA, SPACE=(1700, (3000, 500))	00001800
	//SYSTEM	DD SYSOUT=*	00001900
	//SYSPRINT	DD SYSOUT=*	00002000
	//SYSPUNCH	DD SYSOUT=B	00002100
	//SYSGO	DD DSN= &&OBJSET, UNIT=SYSDA, SPACE=(80, (200, 50)),	00002200
	//	DISP=(MOD, PASS)	00002300
	//SYSIN	DD DISP=SHR, DSN=HERC01.DASM.SOURCE(&MEM)	00002400
	//	PEND	00002500
	//SUBCL	PROC MEM= '?MEMBER?'	00002600
	//ASM	EXEC PGM=IFOX00, PARM='OBJECT, LIST, NODECK', REGION=4096K	00002700
	//SYSLIB	DD DISP=SHR, DSN=SYS1.MACLIB, DCB=BLKSIZE=27920	00002800
	//	DD DISP=SHR, DSN=SYS1.AMODGEN	00002900
	//	DD DISP=SHR, DSN=HERC01.DASM.SOURCE	00003000
	//SYSTEM	DD SYSOUT=*	00003100
	//SYSPRINT	DD SYSOUT=*	00003200
	//SYSPUNCH	DD DUMMY	00003300
	//SYSUT1	DD DSN= &&SYSUT1, UNIT=SYSDA, SPACE=(1700, (600, 100)),	00003400
	//	SEP=(SYSLIB)	00003500
	//SYSUT2	DD DSN= &&SYSUT2, UNIT=SYSDA, SPACE=(1700, (300, 50)),	00003600
	//	SEP=(SYSLIB, SYSUT1)	00003700
	//SYSUT3	DD DSN= &&SYSUT3, UNIT=SYSDA, SPACE=(1700, (300, 50))	00003800
	//SYSGO	DD DSN= &&OBJSET, UNIT=SYSDA, SPACE=(80, (200, 50)),	00003900
	//	DISP=(NEW, PASS)	00004000
	//SYSIN	DD DISP=SHR, DSN=HERC01.DASM.SOURCE(&MEM)	00004100
	//LKED	EXEC PGM=IEWL, PARM=(LET, LIST, NCAL),	00004200
	//	COND=(4, LT, ASM)	00004300
	//SYSLIN	DD DSN= &&OBJSET, DISP=(OLD, DELETE)	00004400
	//	DD DDNAME=SYSIN	00004500
	//SYSLMOD	DD DISP=SHR, DSN=SYS1.LINKLIB(&MEM)	00004600
	//SYSUT1	DD DSN= &&SYSUT1, UNIT=(SYSDA, SEP=(SYSLIN, SYSLMOD)),	00004700
	//	SPACE=(1024, (50, 20))	00004800
	//SYSPRINT	DD SYSOUT=*	00004900
	//	PEND	00005000
2	//MOO	EXEC ASMC, MEM=DISASM00	00005100
3	++ASMC	PROC MEM= '?MEMBER?'	00000900
4	++ASM	EXEC PGM=IFOX00, PARM='OBJECT, LIST, NODECK'	00001000
5	++SYSLIB	DD DISP=SHR, DSN=SYS1.MACLIB, DCB=BLKSIZE=27920	00001100
6	++	DD DISP=SHR, DSN=SYS1.AMODGEN	00001200
7	++	DD DISP=SHR, DSN=HERC01.DASM.SOURCE	00001300
8	++SYSUT1	DD DSN= &&SYSUT1, UNIT=SYSDA, SPACE=(1700, (6000, 1000)),	00001400
	++	SEP=(SYSLIB)	00001500
9	++SYSUT2	DD DSN= &&SYSUT2, UNIT=SYSDA, SPACE=(1700, (3000, 500)),	00001600
	++	SEP=(SYSLIB, SYSUT1)	00001700
10	++SYSUT3	DD DSN= &&SYSUT3, UNIT=SYSDA, SPACE=(1700, (3000, 500))	00001800
11	++SYSTEM	DD SYSOUT=*	00001900

12	++SYSPRINT	DD	SYSOUT=*	00002000
13	++SYSPUNCH	DD	SYSOUT=B	00002100
14	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
15	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
16	//M02	EXEC	ASMC,MEM=DISASM02	00005200
17	++ASMC	PROC	MEM='?MEMBER?'	00000900
18	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
19	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
20	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
21	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
22	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
23	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
24	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
25	++SYSTEM	DD	SYSOUT=*	00001900
26	++SYSPRINT	DD	SYSOUT=*	00002000
27	++SYSPUNCH	DD	SYSOUT=B	00002100
28	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
29	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
30	//M03	EXEC	ASMC,MEM=DISASM03	00005300
31	++ASMC	PROC	MEM='?MEMBER?'	00000900
32	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
33	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
34	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
35	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
36	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
37	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
38	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
39	++SYSTEM	DD	SYSOUT=*	00001900
40	++SYSPRINT	DD	SYSOUT=*	00002000
41	++SYSPUNCH	DD	SYSOUT=B	00002100
42	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
43	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
44	//M04	EXEC	ASMC,MEM=DISASM04	00005400
45	++ASMC	PROC	MEM='?MEMBER?'	00000900
46	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
47	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
48	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
49	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
50	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
51	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
52	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
53	++SYSTEM	DD	SYSOUT=*	00001900
54	++SYSPRINT	DD	SYSOUT=*	00002000
55	++SYSPUNCH	DD	SYSOUT=B	00002100
56	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
57	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
58	//M05	EXEC	ASMC,MEM=DISASM05	00005500
59	++ASMC	PROC	MEM='?MEMBER?'	00000900
60	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
61	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
62	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
63	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
64	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
65	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700

66	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
67	++SYSTEM	DD	SYSOUT=*	00001900
68	++SYSPRINT	DD	SYSOUT=*	00002000
69	++SYSPUNCH	DD	SYSOUT=B	00002100
70	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
71	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
72	//M06	EXEC	ASMC,MEM=DISASM06	00005600
73	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
74	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
75	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
76	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
77	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
78	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
79	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
80	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
81	++SYSTEM	DD	SYSOUT=*	00001900
82	++SYSPRINT	DD	SYSOUT=*	00002000
83	++SYSPUNCH	DD	SYSOUT=B	00002100
84	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
85	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
86	//M07	EXEC	ASMC,MEM=DISASM07	00005700
87	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
88	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
89	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
90	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
91	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
92	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
93	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
94	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
95	++SYSTEM	DD	SYSOUT=*	00001900
96	++SYSPRINT	DD	SYSOUT=*	00002000
97	++SYSPUNCH	DD	SYSOUT=B	00002100
98	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
99	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
100	//M08	EXEC	ASMC,MEM=DISASM08	00005800
101	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
102	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
103	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
104	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
105	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
106	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
107	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
108	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
109	++SYSTEM	DD	SYSOUT=*	00001900
110	++SYSPRINT	DD	SYSOUT=*	00002000
111	++SYSPUNCH	DD	SYSOUT=B	00002100
112	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
113	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
114	//M09	EXEC	ASMC,MEM=DISASM09	00005900
115	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
116	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
117	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
118	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
119	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
120	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500

121	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
122	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
123	++SYSTEM	DD	SYSOUT=*	00001900
124	++SYSPRINT	DD	SYSOUT=*	00002000
125	++SYSPUNCH	DD	SYSOUT=B	00002100
126	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
127	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
128	//M13	EXEC	ASMC,MEM=DISASM13	00006000
129	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
130	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
131	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
132	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
133	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
134	++SYSUT1	DD	DSN=��SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
135	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
136	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
137	++SYSTEM	DD	SYSOUT=*	00001900
138	++SYSPRINT	DD	SYSOUT=*	00002000
139	++SYSPUNCH	DD	SYSOUT=B	00002100
140	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
141	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
142	//M19	EXEC	ASMC,MEM=DISASM19	00006100
143	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
144	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
145	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
146	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
147	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
148	++SYSUT1	DD	DSN=��SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
149	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
150	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
151	++SYSTEM	DD	SYSOUT=*	00001900
152	++SYSPRINT	DD	SYSOUT=*	00002000
153	++SYSPUNCH	DD	SYSOUT=B	00002100
154	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
155	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
156	//M55	EXEC	ASMC,MEM=DISASM55	00006200
157	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
158	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
159	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
160	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
161	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
162	++SYSUT1	DD	DSN=��SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
163	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
164	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
165	++SYSTEM	DD	SYSOUT=*	00001900
166	++SYSPRINT	DD	SYSOUT=*	00002000
167	++SYSPUNCH	DD	SYSOUT=B	00002100
168	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
169	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
170	//MDB	EXEC	ASMC,MEM=DISASMDB	00006300
171	++ASMC	PROC	MEM=' '?MEMBER?'	00000900
172	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
173	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
174	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
175	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300

176	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
177	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
178	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
179	++SYSTEM	DD	SYSOUT=*	00001900
180	++SYSPRINT	DD	SYSOUT=*	00002000
181	++SYSPUNCH	DD	SYSOUT=B	00002100
182	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
183	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
184	//MDT	EXEC	ASMC,MEM=DISASMDT	00006400
185	++ASMC	PROC	MEM='?MEMBER?'	00000900
186	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
187	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
188	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
189	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
190	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
191	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
192	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
193	++SYSTEM	DD	SYSOUT=*	00001900
194	++SYSPRINT	DD	SYSOUT=*	00002000
195	++SYSPUNCH	DD	SYSOUT=B	00002100
196	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
197	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
198	//MLS	EXEC	ASMC,MEM=DISASMLS	00006500
199	++ASMC	PROC	MEM='?MEMBER?'	00000900
200	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
201	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
202	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
203	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
204	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
205	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
206	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
207	++SYSTEM	DD	SYSOUT=*	00001900
208	++SYSPRINT	DD	SYSOUT=*	00002000
209	++SYSPUNCH	DD	SYSOUT=B	00002100
210	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
211	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
212	//MOP	EXEC	ASMC,MEM=DISASMOP	00006600
213	++ASMC	PROC	MEM='?MEMBER?'	00000900
214	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
215	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
216	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
217	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
218	++SYSUT1	DD	DSN=&&SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
219	++SYSUT2	DD	DSN=&&SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
220	++SYSUT3	DD	DSN=&&SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
221	++SYSTEM	DD	SYSOUT=*	00001900
222	++SYSPRINT	DD	SYSOUT=*	00002000
223	++SYSPUNCH	DD	SYSOUT=B	00002100
224	++SYSGO	DD	DSN=&&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
225	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
226	//MPR	EXEC	ASMC,MEM=DISASMPR	00006700
227	++ASMC	PROC	MEM='?MEMBER?'	00000900
228	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
229	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100

230	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
231	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
232	++SYSUT1	DD	DSN=��SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
233	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
234	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
235	++SYSTEM	DD	SYSOUT=*	00001900
236	++SYSPRINT	DD	SYSOUT=*	00002000
237	++SYSPUNCH	DD	SYSOUT=B	00002100
238	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
239	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
240	//MPU	EXEC	ASMC,MEM=DISASMPU	00006800
241	++ASMC	PROC	MEM='?MEMBER?'	00000900
242	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK'	00001000
243	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00001100
244	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00001200
245	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00001300
246	++SYSUT1	DD	DSN=��SYSUT1,UNIT=SYSDA,SPACE=(1700,(6000,1000)),	00001400
	++		SEP=(SYSLIB)	00001500
247	++SYSUT2	DD	DSN=��SYSUT2,UNIT=SYSDA,SPACE=(1700,(3000,500)),	00001600
	++		SEP=(SYSLIB,SYSUT1)	00001700
248	++SYSUT3	DD	DSN=��SYSUT3,UNIT=SYSDA,SPACE=(1700,(3000,500))	00001800
249	++SYSTEM	DD	SYSOUT=*	00001900
250	++SYSPRINT	DD	SYSOUT=*	00002000
251	++SYSPUNCH	DD	SYSOUT=B	00002100
252	++SYSGO	DD	DSN=��OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00002200
	++		DISP=(MOD,PASS)	00002300
253	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00002400
254	//ALINK	EXEC	ASMFC,PARM.ASM='OBJECT,LIST,NODECK'	00006900
255	XXASMFC	PROC	MAC='SYS1.MACLIB',MAC1='SYS1.MACLIB',	00000100
	XX		MAC2='SYS1.MACLIB',MAC3='SYS1.MACLIB',SOUT='*'	00000200
256	XXASM	EXEC	PGM=IFOX00,PARM=OBJ,REGION=128K	00000300
257	//SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00007000
	X/SYSLIB	DD	DSN=&MAC,DISP=SHR	00000400
258	//	DD	DISP=SHR,DSN=SYS1.AMODGEN	00007100
	X/	DD	DSN=&MAC1,DISP=SHR	00000500
259	//	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00007200
	X/	DD	DSN=&MAC2,DISP=SHR	00000600
260	XX	DD	DSN=&MAC3,DISP=SHR	00000700
261	XXSYSUT1	DD	DSN=��SYSUT1,UNIT=SYSSQ,SPACE=(1700,(600,100)),	00000800
	XX		SEP=(SYSLIB)	00000900
262	XXSYSUT2	DD	DSN=��SYSUT2,UNIT=SYSSQ,SPACE=(1700,(300,50)),	00001000
	XX		SEP=(SYSLIB,SYSUT1)	00001100
263	XXSYSUT3	DD	DSN=��SYSUT3,UNIT=SYSSQ,SPACE=(1700,(300,50))	00001200
264	XXSYSPRINT	DD	SYSOUT=&SOUT,DCB=BLKSIZE=1089	00001300
265	XXSYSPUNCH	DD	SYSOUT=B	00001400
266	XXSYSGO	DD	DSN=��OBJSET,UNIT=SYSSQ,SPACE=(80,(200,50)),	00001500
	XX		DISP=(MOD,PASS)	00001600
267	//SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM01)	00007300
268	XXLKED	EXEC	PGM=IEWL,PARM=(XREF,LET,LIST,NCAL),REGION=128K,	00001700
	XX		COND=(8,LT,ASM)	00001800
269	XXSYSLIN	DD	DSN=��OBJSET,DISP=(OLD,DELETE)	00001900
270	XX	DD	DDNAME=SYSIN	00002000
271	//LKED.SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(DISASM01)	00007400
	***			00007500
	***		OPTIONAL OPCODE TABLES (360 WITH SSM; 370 WITH BAS/BASR)	00007600
	***			00007700
	X/SYSLMOD	DD	DSN=��GOSET(GO),UNIT=SYSDA,SPACE=(1024,(50,20,1)),	00002100
	XX		DISP=(MOD,PASS)	00002200
272	XXSYSUT1	DD	DSN=��SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00002300
	XX		SPACE=(1024,(50,20))	00002400
273	XXSYSPRINT	DD	SYSOUT=&SOUT	00002500
274	//	EXEC	SUBCL,MEM=DISOP360	00007800
275	++SUBCL	PROC	MEM='?MEMBER?'	00002600

276	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
277	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
278	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
279	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
280	++SYSTEM	DD	SYSOUT=*	00003100
281	++SYSPRINT	DD	SYSOUT=*	00003200
282	++SYSPUNCH	DD	DUMMY	00003300
283	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
284	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB,SYSUT1)	00003700
285	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
286	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
287	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
288	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
289	++SYSLIN	DD	DSN=##OBJSET,DISP=(OLD,DELETE)	00004400
290	++	DD	DDNAME=SYSIN	00004500
291	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
292	++SYSUT1	DD	DSN=##SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
293	++SYSPRINT	DD	SYSOUT=*	00004900
294	//	EXEC	SUBCL,MEM=DISOP370	00007900
295	++SUBCL	PROC	MEM='?MEMBER?'	00002600
296	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
297	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
298	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
299	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
300	++SYSTEM	DD	SYSOUT=*	00003100
301	++SYSPRINT	DD	SYSOUT=*	00003200
302	++SYSPUNCH	DD	DUMMY	00003300
303	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
304	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB,SYSUT1)	00003700
305	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
306	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
307	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
308	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
309	++SYSLIN	DD	DSN=##OBJSET,DISP=(OLD,DELETE)	00004400
310	++	DD	DDNAME=SYSIN	00004500
311	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
312	++SYSUT1	DD	DSN=##SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
313	++SYSPRINT	DD	SYSOUT=*	00004900
314	//	EXEC	SUBCL,MEM=DISOP390	00008000
315	++SUBCL	PROC	MEM='?MEMBER?'	00002600
316	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
317	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
318	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
319	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
320	++SYSTEM	DD	SYSOUT=*	00003100
321	++SYSPRINT	DD	SYSOUT=*	00003200
322	++SYSPUNCH	DD	DUMMY	00003300
323	++SYSUT1	DD	DSN=##SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
324	++SYSUT2	DD	DSN=##SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB,SYSUT1)	00003700
325	++SYSUT3	DD	DSN=##SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
326	++SYSGO	DD	DSN=##OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
327	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
328	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200

	++		COND=(4,LT,ASM)	00004300
329	++SYSLIN	DD	DSN= &&OBJSET,DISP=(OLD,DELETE)	00004400
330	++	DD	DDNAME=SYSIN	00004500
331	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
332	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
333	++SYSPRINT	DD	SYSOUT=*	00004900
334	//	EXEC	SUBCL, MEM=DISOPAPP	00008100
335	++SUBCL	PROC	MEM=' '?MEMBER?'	00002600
336	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
337	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
338	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
339	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
340	++SYSTEM	DD	SYSOUT=*	00003100
341	++SYSPRINT	DD	SYSOUT=*	00003200
342	++SYSPUNCH	DD	DUMMY	00003300
343	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
344	++SYSUT2	DD	DSN= &&SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB, SYSUT1)	00003700
345	++SYSUT3	DD	DSN= &&SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
346	++SYSGO	DD	DSN= &&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
347	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
348	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
349	++SYSLIN	DD	DSN= &&OBJSET,DISP=(OLD,DELETE)	00004400
350	++	DD	DDNAME=SYSIN	00004500
351	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
352	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
353	++SYSPRINT	DD	SYSOUT=*	00004900
354	//	EXEC	SUBCL, MEM=DISOPAP2	00008200
355	++SUBCL	PROC	MEM=' '?MEMBER?'	00002600
356	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
357	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
358	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
359	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
360	++SYSTEM	DD	SYSOUT=*	00003100
361	++SYSPRINT	DD	SYSOUT=*	00003200
362	++SYSPUNCH	DD	DUMMY	00003300
363	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
364	++SYSUT2	DD	DSN= &&SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB, SYSUT1)	00003700
365	++SYSUT3	DD	DSN= &&SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
366	++SYSGO	DD	DSN= &&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
367	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
368	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
369	++SYSLIN	DD	DSN= &&OBJSET,DISP=(OLD,DELETE)	00004400
370	++	DD	DDNAME=SYSIN	00004500
371	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
372	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
373	++SYSPRINT	DD	SYSOUT=*	00004900
374	//	EXEC	SUBCL, MEM=DISOP36S	00008300
375	++SUBCL	PROC	MEM=' '?MEMBER?'	00002600
376	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
377	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
378	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
379	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
380	++SYSTEM	DD	SYSOUT=*	00003100
381	++SYSPRINT	DD	SYSOUT=*	00003200
382	++SYSPUNCH	DD	DUMMY	00003300

383	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
384	++SYSUT2	DD	DSN= &&SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB, SYSUT1)	00003700
385	++SYSUT3	DD	DSN= &&SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
386	++SYSGO	DD	DSN= &&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
387	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
388	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
389	++SYSLIN	DD	DSN= &&OBJSET,DISP=(OLD,DELETE)	00004400
390	++	DD	DDNAME=SYSIN	00004500
391	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
392	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
393	++SYSPRINT	DD	SYSOUT=*	00004900
394	//	EXEC	SUBCL, MEM=DISOP37B	00008400
395	++SUBCL	PROC	MEM= '?MEMBER?'	00002600
396	++ASM	EXEC	PGM=IFOX00,PARM='OBJECT,LIST,NODECK',REGION=4096K	00002700
397	++SYSLIB	DD	DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=27920	00002800
398	++	DD	DISP=SHR,DSN=SYS1.AMODGEN	00002900
399	++	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE	00003000
400	++SYSTEM	DD	SYSOUT=*	00003100
401	++SYSPRINT	DD	SYSOUT=*	00003200
402	++SYSPUNCH	DD	DUMMY	00003300
403	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=SYSDA,SPACE=(1700,(600,100)),	00003400
	++		SEP=(SYSLIB)	00003500
404	++SYSUT2	DD	DSN= &&SYSUT2,UNIT=SYSDA,SPACE=(1700,(300,50)),	00003600
	++		SEP=(SYSLIB, SYSUT1)	00003700
405	++SYSUT3	DD	DSN= &&SYSUT3,UNIT=SYSDA,SPACE=(1700,(300,50))	00003800
406	++SYSGO	DD	DSN= &&OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),	00003900
	++		DISP=(NEW,PASS)	00004000
407	++SYSIN	DD	DISP=SHR,DSN=HERC01.DASM.SOURCE(&MEM)	00004100
408	++LKED	EXEC	PGM=IEWL,PARM=(LET,LIST,NCAL),	00004200
	++		COND=(4,LT,ASM)	00004300
409	++SYSLIN	DD	DSN= &&OBJSET,DISP=(OLD,DELETE)	00004400
410	++	DD	DDNAME=SYSIN	00004500
411	++SYSLMOD	DD	DISP=SHR,DSN=SYS1.LINKLIB(&MEM)	00004600
412	++SYSUT1	DD	DSN= &&SYSUT1,UNIT=(SYSDA,SEP=(SYSLIN,SYSLMOD)),	00004700
	++		SPACE=(1024,(50,20))	00004800
413	++SYSPRINT	DD	SYSOUT=*	00004900

STMT NO. MESSAGE

15 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM00)
29 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM02)
43 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM03)
57 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM04)
71 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM05)
85 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM06)
99 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM07)
113 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM08)
127 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM09)
141 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM13)
155 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM19)
169 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASM55)
183 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMDB)
197 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMDT)
211 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMLS)
225 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMOP)
239 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMPR)
253 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISASMPU)
257 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
258 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
259 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
260 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
264 IEF653I SUBSTITUTION JCL - SYSOUT=*,DCB=BLKSIZE=1089
273 IEF653I SUBSTITUTION JCL - SYSOUT=*

287 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOP360)
291 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOP360)
307 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOP370)
311 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOP370)
327 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOP390)
331 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOP390)
347 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOPAPP)
351 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOPAPP)
367 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOPAP2)
371 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOPAP2)
387 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOP36S)
391 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOP36S)
407 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=HERC01.DASM.SOURCE(DISOP37B)
411 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.LINKLIB(DISOP37B)

274 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
294 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
314 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
334 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
354 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
374 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
394 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
413 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED

IEF236I ALLOC. FOR HERC01A ASM M00

IEF237I 148 ALLOCATED TO SYSLIB

IEF237I 248 ALLOCATED TO

IEF237I 280 ALLOCATED TO

IEF237I 240 ALLOCATED TO SYS00042

IEF237I 190 ALLOCATED TO SYSUT1

IEF237I 180 ALLOCATED TO SYSUT2

IEF237I 170 ALLOCATED TO SYSUT3

IEF237I JES2 ALLOCATED TO SYSTEM

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 140 ALLOCATED TO SYSGO

IEF237I 280 ALLOCATED TO SYSIN

IEF142I HERC01A ASM M00 - STEP WAS EXECUTED - COND CODE 0000

IEF285I SYS1.MACLIB

KEPT

*-----19


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IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----7
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----40
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----55
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----13
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----8
IEF285I VOL SER NOS= WORK01.
IEF285I JES2.JOB00011.S00101 SYSOUT
IEF285I JES2.JOB00011.S00102 SYSOUT
IEF285I JES2.JOB00011.S00103 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----110
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----2
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.39SEC SRB OMIN 00.04SEC VIRT 2048K SYS 348K
*****
* 1. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.13 TO 00.48.13 *
* ELAPSED TIME 00:00:00,56 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,43 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,43 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....19 248.....7 280.....40 240.....0 190.....55 180.....13 170.....8 DMY.....0 DMY.....0 DMY.....0 *
* 140.....110 280.....2 *
* *
* CHARGE FOR STEP (W/O SYSOUT): 0,71 *
*****
IEF236I ALLOC. FOR HERC01A ASM M02
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00044
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 180 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M02 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----48
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----11
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----50
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----408
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----34
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----26
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00104 SYSOUT
IEF285I JES2.JOB00011.S00105 SYSOUT
IEF285I JES2.JOB00011.S00106 SYSOUT
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IEF285I  SYS18192.T004813.RA000.HERC01A.OBJSET      PASSED      *-----139
IEF285I  VOL SER NOS= WORK00.
IEF285I  HERC01.DASM.SOURCE                          KEPT          *-----36
IEF285I  VOL SER NOS= PUB002.
IEF373I  STEP /ASM      / START 18192.0048
IEF374I  STEP /ASM      / STOP 18192.0048 CPU      OMIN 01.11SEC SRB      OMIN 00.14SEC VIRT 2048K SYS 356K
*****
*      2. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.13 TO 00.48.15 *
*      ELAPSED TIME 00:00:01,44      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:01,25      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:01,25      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      148.....48 248.....11 280.....50 240.....0 170.....408 180.....34 190.....26 DMY.....0 DMY.....0 DMY.....0 *
*      140.....139 280.....36 *
*
*      CHARGE FOR STEP (W/O SYSOUT): 2,08 *
*****
IEF236I  ALLOC. FOR HERC01A ASM M03
IEF237I  148 ALLOCATED TO SYSLIB
IEF237I  248 ALLOCATED TO
IEF237I  280 ALLOCATED TO
IEF237I  240 ALLOCATED TO SYS00046
IEF237I  190 ALLOCATED TO SYSUT1
IEF237I  170 ALLOCATED TO SYSUT2
IEF237I  180 ALLOCATED TO SYSUT3
IEF237I  JES2 ALLOCATED TO SYSTEM
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  JES2 ALLOCATED TO SYSPUNCH
IEF237I  140 ALLOCATED TO SYSGO
IEF237I  280 ALLOCATED TO SYSIN
IEF142I  HERC01A ASM M03 - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS1.MACLIB      KEPT      *-----93
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.AMODGEN      KEPT      *-----18
IEF285I  VOL SER NOS= MVSDLB.
IEF285I  HERC01.DASM.SOURCE      KEPT      *-----50
IEF285I  VOL SER NOS= PUB002.
IEF285I  SYS1.UCAT.TSO      KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF285I  SYS18192.T004813.RA000.HERC01A.SYSUT1      DELETED      *-----383
IEF285I  VOL SER NOS= WORK03.
IEF285I  SYS18192.T004813.RA000.HERC01A.SYSUT2      DELETED      *-----38
IEF285I  VOL SER NOS= WORK01.
IEF285I  SYS18192.T004813.RA000.HERC01A.SYSUT3      DELETED      *-----14
IEF285I  VOL SER NOS= WORK02.
IEF285I  JES2.JOB00011.S00107      SYSOUT
IEF285I  JES2.JOB00011.S00108      SYSOUT
IEF285I  JES2.JOB00011.S00109      SYSOUT
IEF285I  SYS18192.T004813.RA000.HERC01A.OBJSET      PASSED      *-----75
IEF285I  VOL SER NOS= WORK00.
IEF285I  HERC01.DASM.SOURCE      KEPT      *-----20
IEF285I  VOL SER NOS= PUB002.
IEF373I  STEP /ASM      / START 18192.0048
IEF374I  STEP /ASM      / STOP 18192.0048 CPU      OMIN 01.29SEC SRB      OMIN 00.12SEC VIRT 2048K SYS 360K
*****
*      3. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.15 TO 00.48.17 *
*      ELAPSED TIME 00:00:01,64      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:01,41      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:01,41      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      148.....93 248.....18 280.....50 240.....0 190.....383 170.....38 180.....14 DMY.....0 DMY.....0 DMY.....0 *
*      140.....75 280.....20 *

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*
*                                     CHARGE FOR STEP (w/o SYSOUT):                2,35
*
*****
IEF236I ALLOC. FOR HERC01A ASM M04
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I 248  ALLOCATED TO
IEF237I 280  ALLOCATED TO
IEF237I 240  ALLOCATED TO SYS00048
IEF237I 190  ALLOCATED TO SYSUT1
IEF237I 180  ALLOCATED TO SYSUT2
IEF237I 170  ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140  ALLOCATED TO SYSGO
IEF237I 280  ALLOCATED TO SYSIN
IEF142I HERC01A ASM M04 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                                KEPT                *-----23
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                                KEPT                *-----11
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                          KEPT                *-----50
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                              KEPT                *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1      DELETED             *-----94
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2      DELETED             *-----13
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3      DELETED             *-----10
IEF285I   VOL SER NOS= WORK01.
IEF285I   JES2.JOB00011.S00110                      SYSOUT
IEF285I   JES2.JOB00011.S00111                      SYSOUT
IEF285I   JES2.JOB00011.S00112                      SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET      PASSED              *-----23
IEF285I   VOL SER NOS= WORK00.
IEF285I   HERC01.DASM.SOURCE                          KEPT                *-----7
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.48SEC SRB      OMIN 00.05SEC VIRT 2048K SYS 356K
*****
*      4. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.17 TO 00.48.17 *
*      ELAPSED TIME 00:00:00,67      CPU-IDENTIFIER: TK4-      PAGE-IN: 0
*      CPU TIME 00:00:00,53      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0
*      CORR. CPU: 00:00:00,53      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER
*
*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0
*      148.....23 248.....11 280.....50 240.....0 190.....94 180.....13 170.....10 DMY.....0 DMY.....0 DMY.....0
*      140.....23 280.....7
*
*                                     CHARGE FOR STEP (w/o SYSOUT):                0,88
*
*****
IEF236I ALLOC. FOR HERC01A ASM M05
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I 248  ALLOCATED TO
IEF237I 280  ALLOCATED TO
IEF237I 240  ALLOCATED TO SYS00050
IEF237I 190  ALLOCATED TO SYSUT1
IEF237I 170  ALLOCATED TO SYSUT2
IEF237I 180  ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140  ALLOCATED TO SYSGO
IEF237I 280  ALLOCATED TO SYSIN
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IEF142I HERC01A ASM M05 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----25
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----11
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----50
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED        *-----135
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED        *-----15
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED        *-----12
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00011.S00113             SYSOUT
IEF285I   JES2.JOB00011.S00114             SYSOUT
IEF285I   JES2.JOB00011.S00115             SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET PASSED          *-----47
IEF285I   VOL SER NOS= WORK00.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----15
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.53SEC SRB      OMIN 00.06SEC VIRT 2048K SYS 360K
*****
*      5. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.17 TO 00.48.18 *
*      ELAPSED TIME 00:00:00,73      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:00,59      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:00,59      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      148.....25 248.....11 280.....50 240.....0 190.....135 170.....15 180.....12 DMY.....0 DMY.....0 DMY.....0 *
*      140.....47 280.....15 *
* *
*      CHARGE FOR STEP (W/O SYSOUT): 0,98 *
*****
IEF236I ALLOC. FOR HERC01A ASM M06
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00052
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M06 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----24
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----12
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----52
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED        *-----81
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED        *-----13
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED        *-----10
IEF285I   VOL SER NOS= WORK03.
IEF285I   JES2.JOB00011.S00116             SYSOUT

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IEF285I JES2.JOB00011.S00117 SYSOUT
IEF285I JES2.JOB00011.S00118 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----34
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----8
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.44SEC SRB OMIN 00.04SEC VIRT 2048K SYS 364K
*****
* 6. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.18 TO 00.48.19 *
* ELAPSED TIME 00:00:00,62 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,48 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,48 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....24 248.....12 280.....52 240.....0 180.....81 170.....13 190.....10 DMY.....0 DMY.....0 DMY.....0 *
* 140.....34 280.....8 *
*
* CHARGE FOR STEP (W/O SYSOUT): 0,80 *
*****
IEF236I ALLOC. FOR HERC01A ASM M07
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00054
IEF237I 190 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M07 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----51
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----12
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----52
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----207
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----22
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----10
IEF285I VOL SER NOS= WORK02.
IEF285I JES2.JOB00011.S00119 SYSOUT
IEF285I JES2.JOB00011.S00120 SYSOUT
IEF285I JES2.JOB00011.S00121 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----39
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----10
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.77SEC SRB OMIN 00.09SEC VIRT 2048K SYS 368K
*****
* 7. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.19 TO 00.48.20 *
* ELAPSED TIME 00:00:01,00 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,86 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,86 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
```

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148.....51 248.....12 280.....52 240.....0 190.....207 170.....22 180.....10 DMY.....0 DMY.....0 DMY.....0
*
* 140.....39 280.....10
*
*
* CHARGE FOR STEP (w/o SYSOUT): 1,43
*****
IEF236I ALLOC. FOR HERC01A ASM M08
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00056
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 170 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M08 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----24
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----12
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----52
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----259
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----19
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK01.
IEF285I JES2.JOB00011.S00122 SYSOUT
IEF285I JES2.JOB00011.S00123 SYSOUT
IEF285I JES2.JOB00011.S00124 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----88
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----27
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.68SEC SRB OMIN 00.09SEC VIRT 2048K SYS 368K
*****
* 8. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.20 TO 00.48.21 *
* ELAPSED TIME 00:00:00,93 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,77 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,77 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....24 248.....12 280.....52 240.....0 180.....259 190.....19 170.....12 DMY.....0 DMY.....0 DMY.....0 *
* 140.....88 280.....27 *
*
* CHARGE FOR STEP (w/o SYSOUT): 1,28
*****
IEF236I ALLOC. FOR HERC01A ASM M09
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00058
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
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IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M09 - STEP WAS EXECUTED - COND CODE 0000

IEF285I	SYS1.MACLIB	KEPT	*-----46
IEF285I	VOL SER NOS= MVSRES.		
IEF285I	SYS1.AMODGEN	KEPT	*-----11
IEF285I	VOL SER NOS= MVSDLB.		
IEF285I	HERC01.DASM.SOURCE	KEPT	*-----50
IEF285I	VOL SER NOS= PUB002.		
IEF285I	SYS1.UCAT.TSO	KEPT	*-----0
IEF285I	VOL SER NOS= PUB000.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT1	DELETED	*-----820
IEF285I	VOL SER NOS= WORK01.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT2	DELETED	*-----42
IEF285I	VOL SER NOS= WORK03.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT3	DELETED	*-----30
IEF285I	VOL SER NOS= WORK02.		
IEF285I	JES2.JOB00011.S00125	SYSOUT	
IEF285I	JES2.JOB00011.S00126	SYSOUT	
IEF285I	JES2.JOB00011.S00127	SYSOUT	
IEF285I	SYS18192.T004813.RA000.HERC01A.OBJSET	PASSED	*-----210
IEF285I	VOL SER NOS= WORK00.		
IEF285I	HERC01.DASM.SOURCE	KEPT	*-----60
IEF285I	VOL SER NOS= PUB002.		

IEF373I STEP /ASM / START 18192.0048

IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 01.34SEC SRB OMIN 00.21SEC VIRT 2048K SYS 372K

* 9. JOBSTEP OF JOB: HERC01A	STEPNAME: ASM	PROGRAM NAME: IFOX00	EXECUTED ON 11.07.18 FROM 00.48.21 TO 00.48.22	*
* ELAPSED TIME 00:00:01,86		CPU-IDENTIFIER: TK4-	PAGE-IN: 0	*
* CPU TIME 00:00:01,55		VIRTUAL STORAGE USED: 2048K	PAGE-OUT: 0	*
* CORR. CPU: 00:00:01,55	CPU TIME HAS BEEN CORRECTED BY 1 / 1,0	MULTIPLIER		*

* I/O OPERATION				*
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0				*
* 148.....46 248.....11 280.....50 240.....0 170.....820 190.....42 180.....30 DMY.....0 DMY.....0 DMY.....0				*
* 140.....210 280.....60				*

* CHARGE FOR STEP (W/O SYSOUT):	2,58	*
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IEF236I ALLOC. FOR HERC01A ASM M13

IEF237I 148 ALLOCATED TO SYSLIB

IEF237I 248 ALLOCATED TO

IEF237I 280 ALLOCATED TO

IEF237I 240 ALLOCATED TO SYS00060

IEF237I 180 ALLOCATED TO SYSUT1

IEF237I 170 ALLOCATED TO SYSUT2

IEF237I 190 ALLOCATED TO SYSUT3

IEF237I JES2 ALLOCATED TO SYSTEM

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 140 ALLOCATED TO SYSGO

IEF237I 280 ALLOCATED TO SYSIN

IEF142I HERC01A ASM M13 - STEP WAS EXECUTED - COND CODE 0000

IEF285I	SYS1.MACLIB	KEPT	*-----91
IEF285I	VOL SER NOS= MVSRES.		
IEF285I	SYS1.AMODGEN	KEPT	*-----22
IEF285I	VOL SER NOS= MVSDLB.		
IEF285I	HERC01.DASM.SOURCE	KEPT	*-----50
IEF285I	VOL SER NOS= PUB002.		
IEF285I	SYS1.UCAT.TSO	KEPT	*-----0
IEF285I	VOL SER NOS= PUB000.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT1	DELETED	*-----304
IEF285I	VOL SER NOS= WORK02.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT2	DELETED	*-----40
IEF285I	VOL SER NOS= WORK01.		
IEF285I	SYS18192.T004813.RA000.HERC01A.SYSUT3	DELETED	*-----20

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IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00128 SYSOUT
IEF285I JES2.JOB00011.S00129 SYSOUT
IEF285I JES2.JOB00011.S00130 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----55
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----14
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 01.26SEC SRB OMIN 00.11SEC VIRT 2048K SYS 372K
*****
* 10. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.22 TO 00.48.24 *
* ELAPSED TIME 00:00:01,57 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:01,37 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:01,37 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....91 248.....22 280.....50 240.....0 180.....304 170.....40 190.....20 DMY.....0 DMY.....0 DMY.....0 *
* 140.....55 280.....14 *
*
* CHARGE FOR STEP (W/O SYSOUT): 2,28 *
*****
IEF236I ALLOC. FOR HERC01A ASM M19
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00062
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 180 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M19 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----23
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----11
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----50
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----73
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----13
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----8
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00131 SYSOUT
IEF285I JES2.JOB00011.S00132 SYSOUT
IEF285I JES2.JOB00011.S00133 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----11
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----5
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.43SEC SRB OMIN 00.04SEC VIRT 2048K SYS 376K
*****
* 11. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.24 TO 00.48.25 *
* ELAPSED TIME 00:00:00,61 CPU-IDENTIFIER: TK4- PAGE-IN: 2 *
* CPU TIME 00:00:00,47 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,47 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
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* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....23 248.....11 280.....50 240.....0 170.....73 180.....13 190.....8 DMY.....0 DMY.....0 DMY.....0 *
* 140.....11 280.....5 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 0,78 *
*****
IEF236I ALLOC. FOR HERC01A ASM M55
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00064
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM M55 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----23
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----11
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----50
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----105
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----15
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00134 SYSOUT
IEF285I JES2.JOB00011.S00135 SYSOUT
IEF285I JES2.JOB00011.S00136 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----44
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----17
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.55SEC SRB OMIN 00.06SEC VIRT 2048K SYS 384K
*****
* 12. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.25 TO 00.48.25 *
* ELAPSED TIME 00:00:00,75 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,61 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,61 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....23 248.....11 280.....50 240.....0 180.....105 170.....15 190.....12 DMY.....0 DMY.....0 DMY.....0 *
* 140.....44 280.....17 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 1,01 *
*****
IEF236I ALLOC. FOR HERC01A ASM MDB
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00066
IEF237I 190 ALLOCATED TO SYSUT1
IEF237I 180 ALLOCATED TO SYSUT2
IEF237I 170 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
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IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM MDB - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----44
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----13
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----54
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED      *-----460
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED      *-----24
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED      *-----14
IEF285I   VOL SER NOS= WORK01.
IEF285I   JES2.JOB00011.S00137              SYSOUT
IEF285I   JES2.JOB00011.S00138              SYSOUT
IEF285I   JES2.JOB00011.S00139              SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET PASSED        *-----69
IEF285I   VOL SER NOS= WORK00.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----16
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.93SEC SRB      OMIN 00.12SEC VIRT 2048K SYS 384K
*****
*      13. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.25 TO 00.48.27 *
*      ELAPSED TIME 00:00:01,25      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:01,05      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:01,05      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      148.....44 248.....13 280.....54 240.....0 190.....460 180.....24 170.....14 DMY.....0 DMY.....0 DMY.....0 *
*      140.....69 280.....16 *
* *
*      CHARGE FOR STEP (W/O SYSOUT): 1,75 *
*****
IEF236I ALLOC. FOR HERC01A ASM MDT
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00068
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 170 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM MDT - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----57
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----12
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----52
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED      *-----207
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED      *-----28
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IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK01.
IEF285I JES2.JOB00011.S00140 SYSOUT
IEF285I JES2.JOB00011.S00141 SYSOUT
IEF285I JES2.JOB00011.S00142 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----49
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----14
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.85SEC SRB OMIN 00.08SEC VIRT 2048K SYS 380K
*****
* 14. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.27 TO 00.48.28 *
* ELAPSED TIME 00:00:01,09 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,93 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,93 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....57 248.....12 280.....52 240.....0 180.....207 190.....28 170.....12 DMY.....0 DMY.....0 DMY.....0 *
* 140.....49 280.....14 *
* *
* CHARGE FOR STEP (W/O SYSOUT): 1,55 *
*****
IEF236I ALLOC. FOR HERC01A ASM MLS
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00070
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 180 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM MLS - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----56
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----11
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----50
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----207
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----26
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00143 SYSOUT
IEF285I JES2.JOB00011.S00144 SYSOUT
IEF285I JES2.JOB00011.S00145 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----41
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----9
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.83SEC SRB OMIN 00.08SEC VIRT 2048K SYS 388K
*****
* 15. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.28 TO 00.48.29 *
* ELAPSED TIME 00:00:01,07 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,91 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
```


CORR. CPU: 00:00:00,91 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER

I/O OPERATION

NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0
148.....56 248.....11 280.....50 240.....0 170.....207 180.....26 190.....12 DMY.....0 DMY.....0 DMY.....0
140.....41 280.....9

CHARGE FOR STEP (w/o SYSOUT): 1,51

IEF236I ALLOC. FOR HERC01A ASM MOP

IEF237I 148 ALLOCATED TO SYSLIB

IEF237I 248 ALLOCATED TO

IEF237I 280 ALLOCATED TO

IEF237I 240 ALLOCATED TO SYS00072

IEF237I 180 ALLOCATED TO SYSUT1

IEF237I 170 ALLOCATED TO SYSUT2

IEF237I 190 ALLOCATED TO SYSUT3

IEF237I JES2 ALLOCATED TO SYSTEM

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 140 ALLOCATED TO SYSGO

IEF237I 280 ALLOCATED TO SYSIN

IEF142I HERC01A ASM MOP - STEP WAS EXECUTED - COND CODE 0000

IEF285I SYS1.MACLIB KEPT *-----20

IEF285I VOL SER NOS= MVSRES.

IEF285I SYS1.AMODGEN KEPT *-----8

IEF285I VOL SER NOS= MVSDLB.

IEF285I HERC01.DASM.SOURCE KEPT *-----45

IEF285I VOL SER NOS= PUB002.

IEF285I SYS1.UCAT.TSO KEPT *-----0

IEF285I VOL SER NOS= PUB000.

IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----986

IEF285I VOL SER NOS= WORK02.

IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----17

IEF285I VOL SER NOS= WORK01.

IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----14

IEF285I VOL SER NOS= WORK03.

IEF285I JES2.JOB00011.S00146 SYSOUT

IEF285I JES2.JOB00011.S00147 SYSOUT

IEF285I JES2.JOB00011.S00148 SYSOUT

IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----134

IEF285I VOL SER NOS= WORK00.

IEF285I HERC01.DASM.SOURCE KEPT *-----7

IEF285I VOL SER NOS= PUB002.

IEF373I STEP /ASM / START 18192.0048

IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 01.13SEC SRB OMIN 00.19SEC VIRT 2048K SYS 388K

* 16. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.29 TO 00.48.30 *

* ELAPSED TIME 00:00:01,60 CPU-IDENTIFIER: TK4- PAGE-IN: 0

* CPU TIME 00:00:01,32 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0

* CORR. CPU: 00:00:01,32 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER

I/O OPERATION

NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0
148.....20 248.....8 280.....45 240.....0 180.....986 170.....17 190.....14 DMY.....0 DMY.....0 DMY.....0
140.....134 280.....7

CHARGE FOR STEP (w/o SYSOUT): 2,20

IEF236I ALLOC. FOR HERC01A ASM MPR

IEF237I 148 ALLOCATED TO SYSLIB

IEF237I 248 ALLOCATED TO

IEF237I 280 ALLOCATED TO

IEF237I 240 ALLOCATED TO SYS00074

IEF237I 170 ALLOCATED TO SYSUT1

IEF237I 190 ALLOCATED TO SYSUT2

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IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM MPR - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----58
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----9
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----39
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED      *-----189
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED      *-----26
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED      *-----12
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00011.S00149              SYSOUT
IEF285I   JES2.JOB00011.S00150              SYSOUT
IEF285I   JES2.JOB00011.S00151              SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET PASSED       *-----31
IEF285I   VOL SER NOS= WORK00.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----10
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.82SEC SRB      OMIN 00.08SEC VIRT 2048K SYS 384K
*****
* 17. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.30 TO 00.48.31 *
* ELAPSED TIME 00:00:01,08 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,90 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,90 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....58 248.....9 280.....39 240.....0 170.....189 190.....26 180.....12 DMY.....0 DMY.....0 DMY.....0 *
* 140.....31 280.....10 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 1,50 *
*****
IEF236I ALLOC. FOR HERC01A ASM MPU
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00076
IEF237I 190 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM MPU - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                      KEPT          *-----58
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                      KEPT          *-----9
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                KEPT          *-----39
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED      *-----183
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IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----26
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK02.
IEF285I JES2.JOB00011.S00152 SYSOUT
IEF285I JES2.JOB00011.S00153 SYSOUT
IEF285I JES2.JOB00011.S00154 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----20
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----7
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.84SEC SRB OMIN 00.14SEC VIRT 2048K SYS 388K
*****
* 18. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.31 TO 00.48.33 *
* ELAPSED TIME 00:00:01,15 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,98 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,98 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....58 248.....9 280.....39 240.....0 190.....183 170.....26 180.....12 DMY.....0 DMY.....0 DMY.....0 *
* 140.....20 280.....7 *
*
* CHARGE FOR STEP (W/O SYSOUT): 1,63 *
*****
IEF236I ALLOC. FOR HERC01A ASM ALINK
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 148 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00078
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 180 ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM ALINK - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----32
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----24
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----52
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.MACLIB KEPT *-----0
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----202
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----23
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----14
IEF285I VOL SER NOS= WORK02.
IEF285I JES2.JOB00011.S00155 SYSOUT
IEF285I JES2.JOB00011.S00156 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----50
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----12
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.75SEC SRB OMIN 00.08SEC VIRT 2048K SYS 392K
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* 19. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.33 TO 00.48.34 *
* ELAPSED TIME 00:00:01,01 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,83 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,83 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....32 248.....24 280.....52 148.....0 240.....0 170.....202 190.....23 180.....14 DMY.....0 DMY.....0 *
* 140.....50 280.....12 *
* *
* CHARGE FOR STEP (W/O SYSOUT): 1,38 *
*****
IEF236I ALLOC. FOR HERC01A LKED ALINK
IEF237I 140 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 190 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED ALINK - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET DELETED *----1,270
IEF285I VOL SER NOS= WORK00.
IEF285I SYS1.LINKLIB KEPT *-----27
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----38
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB00011.S00157 SYSOUT
IEF373I STEP /LKED / START 18192.0048
IEF374I STEP /LKED / STOP 18192.0048 CPU OMIN 00.40SEC SRB OMIN 00.18SEC VIRT 260K SYS 384K
*****
* 20. JOBSTEP OF JOB: HERC01A STEPNAME: LKED PROGRAM NAME: IEWL EXECUTED ON 11.07.18 FROM 00.48.34 TO 00.48.34 *
* ELAPSED TIME 00:00:00,78 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,58 VIRTUAL STORAGE USED: 260K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,58 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 140....1270 DMY.....0 148.....27 190.....38 DMY.....0 *
* *
* CHARGE FOR STEP (W/O SYSOUT): 0,96 *
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00080
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 140 ALLOCATED TO SYSUT3
IEF237I 190 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----20
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----8
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----45
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB00011.S00158 SYSOUT
IEF285I JES2.JOB00011.S00159 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----813
IEF285I VOL SER NOS= WORK02.

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IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2      DELETED      *-----26
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3      DELETED      *-----16
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET      PASSED       *-----62
IEF285I   VOL SER NOS= WORK03.
IEF285I   HERC01.DASM.SOURCE                        KEPT          *-----6
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.99SEC SRB      OMIN 00.16SEC VIRT 2048K SYS 384K
*****
*      21. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.34 TO 00.48.36 *
*      ELAPSED TIME 00:00:01,38      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:01,15      VIRTUAL STORAGE USED: 2048K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:01,15      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 180.....813 170.....26 140.....16 *
*      190.....62 280.....6 *
*
*      CHARGE FOR STEP (W/O SYSOUT): 1,91 *
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 190 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET      DELETED      *-----63
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS1.LINKLIB      KEPT          *-----76
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1      DELETED      *-----0
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00011.S00160      SYSOUT
IEF373I STEP /LKED      / START 18192.0048
IEF374I STEP /LKED      / STOP 18192.0048 CPU      OMIN 00.07SEC SRB      OMIN 00.02SEC VIRT 260K SYS 384K
*****
*      22. JOBSTEP OF JOB: HERC01A      STEPNAME: LKED      PROGRAM NAME: IEWL      EXECUTED ON 11.07.18 FROM 00.48.36 TO 00.48.36 *
*      ELAPSED TIME 00:00:00,15      CPU-IDENTIFIER: TK4-      PAGE-IN: 0 *
*      CPU TIME 00:00:00,09      VIRTUAL STORAGE USED: 260K      PAGE-OUT: 0 *
*      CORR. CPU: 00:00:00,09      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
*      I/O OPERATION *
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
*      190.....63 DMY.....0 148.....76 180.....0 DMY.....0 *
*
*      CHARGE FOR STEP (W/O SYSOUT): 0,15 *
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00082
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I 140 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I 180 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB      KEPT          *-----20
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IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----8
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----45
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB00011.S00161 SYSOUT
IEF285I JES2.JOB00011.S00162 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----825
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----29
IEF285I VOL SER NOS= WORK00.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----18
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----134
IEF285I VOL SER NOS= WORK02.
IEF285I HERC01.DASM.SOURCE KEPT *-----7
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 01.06SEC SRB OMIN 00.17SEC VIRT 2048K SYS 388K
*****
* 23. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.36 TO 00.48.37 *
* ELAPSED TIME 00:00:01,49 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:01,23 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:01,23 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 170.....825 140.....29 190.....18 *
* 180.....134 280.....7 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 2,05 *
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 180 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 140 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET DELETED *-----135
IEF285I VOL SER NOS= WORK02.
IEF285I SYS1.LINKLIB KEPT *-----15
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----0
IEF285I VOL SER NOS= WORK00.
IEF285I JES2.JOB00011.S00163 SYSOUT
IEF373I STEP /LKED / START 18192.0048
IEF374I STEP /LKED / STOP 18192.0048 CPU OMIN 00.07SEC SRB OMIN 00.02SEC VIRT 260K SYS 388K
*****
* 24. JOBSTEP OF JOB: HERC01A STEPNAME: LKED PROGRAM NAME: IEWL EXECUTED ON 11.07.18 FROM 00.48.38 TO 00.48.38 *
* ELAPSED TIME 00:00:00,15 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,09 VIRTUAL STORAGE USED: 260K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,09 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 180.....135 DMY.....0 148.....15 140.....0 DMY.....0 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 0,15 *
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
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```
IEF237I 240 ALLOCATED TO SYS00084
IEF237I JES2 ALLOCATED TO SYSTERM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 170 ALLOCATED TO SYSUT3
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----20
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----8
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----45
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB00011.S00164 SYSOUT
IEF285I JES2.JOB00011.S00165 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *----1,220
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----19
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----14
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----339
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----10
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 01.36SEC SRB OMIN 00.23SEC VIRT 2048K SYS 392K
*****
* 25. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.38 TO 00.48.40 *
* ELAPSED TIME 00:00:01,85 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:01,59 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:01,59 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 180....1220 190.....19 170.....14 *
* 140.....339 280.....10 *
* *
* CHARGE FOR STEP (W/O SYSOUT): 2,65 *
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 140 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET DELETED *-----340
IEF285I VOL SER NOS= WORK00.
IEF285I SYS1.LINKLIB KEPT *-----43
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----0
IEF285I VOL SER NOS= WORK02.
IEF285I JES2.JOB00011.S00166 SYSOUT
IEF373I STEP /LKED / START 18192.0048
IEF374I STEP /LKED / STOP 18192.0048 CPU OMIN 00.13SEC SRB OMIN 00.05SEC VIRT 260K SYS 388K
*****
* 26. JOBSTEP OF JOB: HERC01A STEPNAME: LKED PROGRAM NAME: IEWL EXECUTED ON 11.07.18 FROM 00.48.40 TO 00.48.40 *
* ELAPSED TIME 00:00:00,27 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,18 VIRTUAL STORAGE USED: 260K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,18 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
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```

*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0
*      140.....340 DMY.....0 148.....43 180.....0 DMY.....0
*
*
*      CHARGE FOR STEP (W/O SYSOUT):      0,30
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I 248  ALLOCATED TO
IEF237I 280  ALLOCATED TO
IEF237I 240  ALLOCATED TO SYS00086
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY  ALLOCATED TO SYSPUNCH
IEF237I 140  ALLOCATED TO SYSUT1
IEF237I 190  ALLOCATED TO SYSUT2
IEF237I 180  ALLOCATED TO SYSUT3
IEF237I 170  ALLOCATED TO SYSGO
IEF237I 280  ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB              KEPT      *-----20
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN              KEPT      *-----8
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE        KEPT      *-----45
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO              KEPT      *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB00011.S00167      SYSOUT
IEF285I   JES2.JOB00011.S00168      SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1  DELETED    *-----459
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2  DELETED    *-----21
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3  DELETED    *-----14
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET  PASSED     *-----73
IEF285I   VOL SER NOS= WORK01.
IEF285I   HERC01.DASM.SOURCE        KEPT      *-----5
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 00.78SEC SRB      OMIN 00.11SEC VIRT 2048K SYS 392K
*****
*      27. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.40 TO 00.48.41 *
*      ELAPSED TIME 00:00:01,10      CPU-IDENTIFIER: TK4-      PAGE-IN:      0
*      CPU TIME 00:00:00,89      VIRTUAL STORAGE USED: 2048K      PAGE-OUT:      0
*      CORR. CPU: 00:00:00,89      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER
*
*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0
*      148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 140.....459 190.....21 180.....14
*      170.....73 280.....5
*
*
*      CHARGE FOR STEP (W/O SYSOUT):      1,48
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 170  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO
IEF237I 148  ALLOCATED TO SYSLMOD
IEF237I 180  ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET  DELETED    *-----74
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS1.LINKLIB              KEPT      *-----167

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IEF285I VOL SER NOS= MVSRES.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----0
IEF285I VOL SER NOS= WORK02.
IEF285I JES2.JOB00011.S00169 SYSOUT
IEF373I STEP /LKED / START 18192.0048
IEF374I STEP /LKED / STOP 18192.0048 CPU OMIN 00.09SEC SRB OMIN 00.03SEC VIRT 260K SYS 392K
*****
* 28. JOBSTEP OF JOB: HERC01A STEPNAME: LKED PROGRAM NAME: IEWL EXECUTED ON 11.07.18 FROM 00.48.41 TO 00.48.41 *
* ELAPSED TIME 00:00:00,20 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,12 VIRTUAL STORAGE USED: 260K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,12 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 170.....74 DMY.....0 148.....167 180.....0 DMY.....0 *
*
* CHARGE FOR STEP (w/o SYSOUT): 0,20 *
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00088
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 170 ALLOCATED TO SYSUT2
IEF237I 190 ALLOCATED TO SYSUT3
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----20
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----8
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----45
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB00011.S00170 SYSOUT
IEF285I JES2.JOB00011.S00171 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----442
IEF285I VOL SER NOS= WORK02.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT2 DELETED *-----15
IEF285I VOL SER NOS= WORK01.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT3 DELETED *-----12
IEF285I VOL SER NOS= WORK03.
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET PASSED *-----73
IEF285I VOL SER NOS= WORK00.
IEF285I HERC01.DASM.SOURCE KEPT *-----5
IEF285I VOL SER NOS= PUB002.
IEF373I STEP /ASM / START 18192.0048
IEF374I STEP /ASM / STOP 18192.0048 CPU OMIN 00.75SEC SRB OMIN 00.11SEC VIRT 2048K SYS 396K
*****
* 29. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.41 TO 00.48.42 *
* ELAPSED TIME 00:00:01,05 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,86 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,86 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
*
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 180.....442 170.....15 190.....12 *
* 140.....73 280.....5 *
*
* CHARGE FOR STEP (w/o SYSOUT): 1,43 *
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*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 140 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 170 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET      DELETED      *-----74
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS1.LINKLIB                                KEPT          *-----25
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1      DELETED      *-----0
IEF285I   VOL SER NOS= WORK01.
IEF285I   JES2.JOB00011.S00172                      SYSOUT
IEF373I STEP /LKED      / START 18192.0048
IEF374I STEP /LKED      / STOP 18192.0048 CPU      OMIN 00.07SEC SRB      OMIN 00.03SEC VIRT      260K SYS      396K
*****
*      30. JOBSTEP OF JOB: HERC01A      STEPNAME: LKED      PROGRAM NAME: IEWL      EXECUTED ON 11.07.18 FROM 00.48.42 TO 00.48.42 *
*      ELAPSED TIME 00:00:00,17      CPU-IDENTIFIER: TK4-      PAGE-IN:      0
*      CPU TIME 00:00:00,10      VIRTUAL STORAGE USED:      260K      PAGE-OUT:      0
*      CORR. CPU: 00:00:00,10      CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER
*
*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0
*      140.....74 DMY.....0 148.....25 170.....0 DMY.....0
*
*      CHARGE FOR STEP (w/o SYSOUT):      0,16
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00090
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 190 ALLOCATED TO SYSUT1
IEF237I 180 ALLOCATED TO SYSUT2
IEF237I 140 ALLOCATED TO SYSUT3
IEF237I 170 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                                KEPT          *-----20
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                                KEPT          *-----8
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   HERC01.DASM.SOURCE                        KEPT          *-----45
IEF285I   VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.TSO                              KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB00011.S00173                      SYSOUT
IEF285I   JES2.JOB00011.S00174                      SYSOUT
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1      DELETED      *-----848
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2      DELETED      *-----26
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3      DELETED      *-----18
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET      PASSED      *-----64
IEF285I   VOL SER NOS= WORK01.
IEF285I   HERC01.DASM.SOURCE                        KEPT          *-----6
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP 18192.0048 CPU      OMIN 01.08SEC SRB      OMIN 00.18SEC VIRT      2048K SYS      396K
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* 31. JOBSTEP OF JOB: HERC01A STEPNAME: ASM PROGRAM NAME: IFOX00 EXECUTED ON 11.07.18 FROM 00.48.42 TO 00.48.44 *
* ELAPSED TIME 00:00:01,56 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:01,26 VIRTUAL STORAGE USED: 2048K PAGE-OUT: 0 *
* CORR. CPU: 00:00:01,26 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 190.....848 180.....26 140.....18 *
* 170.....64 280.....6 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 2,10 *
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 170 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 148 ALLOCATED TO SYSLMOD
IEF237I 140 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS18192.T004813.RA000.HERC01A.OBJSET DELETED *-----65
IEF285I VOL SER NOS= WORK01.
IEF285I SYS1.LINKLIB KEPT *-----12
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----0
IEF285I VOL SER NOS= WORK00.
IEF285I JES2.JOB00011.S00175 SYSOUT
IEF373I STEP /LKED / START 18192.0048
IEF374I STEP /LKED / STOP 18192.0048 CPU OMIN 00.06SEC SRB OMIN 00.02SEC VIRT 260K SYS 396K
*****
* 32. JOBSTEP OF JOB: HERC01A STEPNAME: LKED PROGRAM NAME: IEWL EXECUTED ON 11.07.18 FROM 00.48.44 TO 00.48.44 *
* ELAPSED TIME 00:00:00,12 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
* CPU TIME 00:00:00,08 VIRTUAL STORAGE USED: 260K PAGE-OUT: 0 *
* CORR. CPU: 00:00:00,08 CPU TIME HAS BEEN CORRECTED BY 1 / 1,0 MULTIPLIER *
* *
* I/O OPERATION *
* NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0 *
* 170.....65 DMY.....0 148.....12 140.....0 DMY.....0 *
* *
* CHARGE FOR STEP (w/o SYSOUT): 0,13 *
*****
IEF236I ALLOC. FOR HERC01A ASM
IEF237I 148 ALLOCATED TO SYSLIB
IEF237I 248 ALLOCATED TO
IEF237I 280 ALLOCATED TO
IEF237I 240 ALLOCATED TO SYS00092
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I 180 ALLOCATED TO SYSUT1
IEF237I 190 ALLOCATED TO SYSUT2
IEF237I 170 ALLOCATED TO SYSUT3
IEF237I 140 ALLOCATED TO SYSGO
IEF237I 280 ALLOCATED TO SYSIN
IEF142I HERC01A ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.MACLIB KEPT *-----20
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----8
IEF285I VOL SER NOS= MVSDLB.
IEF285I HERC01.DASM.SOURCE KEPT *-----45
IEF285I VOL SER NOS= PUB002.
IEF285I SYS1.UCAT.TSO KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB00011.S00176 SYSOUT
IEF285I JES2.JOB00011.S00177 SYSOUT
IEF285I SYS18192.T004813.RA000.HERC01A.SYSUT1 DELETED *-----996
IEF285I VOL SER NOS= WORK02.

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IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT2          DELETED          *-----17
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT3          DELETED          *-----14
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET          PASSED           *-----134
IEF285I   VOL SER NOS= WORK00.
IEF285I   HERC01.DASM.SOURCE                             KEPT             *-----7
IEF285I   VOL SER NOS= PUB002.
IEF373I STEP /ASM      / START 18192.0048
IEF374I STEP /ASM      / STOP  18192.0048 CPU      OMIN 01.08SEC SRB      OMIN 00.18SEC VIRT  2048K SYS   400K
*****
*      33. JOBSTEP OF JOB: HERC01A      STEPNAME: ASM      PROGRAM NAME: IFOX00      EXECUTED ON 11.07.18 FROM 00.48.44 TO 00.48.46 *
*      ELAPSED TIME  00:00:01,54      CPU-IDENTIFIER:  TK4-      PAGE-IN:      0      *
*      CPU TIME      00:00:01,26      VIRTUAL STORAGE USED:  2048K      PAGE-OUT:      0      *
*      CORR. CPU:    00:00:01,26      CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER      *
*
*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0
*      148.....20 248.....8 280.....45 240.....0 DMY.....0 DMY.....0 DMY.....0 180.....996 190.....17 170.....14
*      140.....134 280.....7
*
*
*      CHARGE FOR STEP (W/O SYSOUT):      2,10
*****
IEF236I ALLOC. FOR HERC01A LKED
IEF237I 140  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO
IEF237I 148  ALLOCATED TO SYSLMOD
IEF237I 180  ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I HERC01A LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS18192.T004813.RA000.HERC01A.OBJSET          DELETED          *-----135
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS1.LINKLIB                                KEPT             *-----29
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS18192.T004813.RA000.HERC01A.SYSUT1          DELETED          *-----0
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00011.S00178                          SYSOUT
IEF373I STEP /LKED      / START 18192.0048
IEF374I STEP /LKED      / STOP  18192.0048 CPU      OMIN 00.08SEC SRB      OMIN 00.03SEC VIRT  260K SYS   400K
*****
*      34. JOBSTEP OF JOB: HERC01A      STEPNAME: LKED      PROGRAM NAME: IEWL      EXECUTED ON 11.07.18 FROM 00.48.46 TO 00.48.46 *
*      ELAPSED TIME  00:00:00,15      CPU-IDENTIFIER:  TK4-      PAGE-IN:      0      *
*      CPU TIME      00:00:00,11      VIRTUAL STORAGE USED:  260K      PAGE-OUT:      0      *
*      CORR. CPU:    00:00:00,11      CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER      *
*
*      I/O OPERATION
*      NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0
*      140.....135 DMY.....0 148.....29 180.....0 DMY.....0
*
*
*      CHARGE FOR STEP (W/O SYSOUT):      0,18
*****
IEF375I JOB /HERC01A / START 18192.0048
IEF376I JOB /HERC01A / STOP  18192.0048 CPU      OMIN 23.49SEC SRB      OMIN 03.34SEC
```

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID
DISASM00	SD	0001	000000	000C68	
DISASM01	ER	0002			
DISASM02	ER	0003			
DISASM03	ER	0004			
DISASM04	ER	0005			
DISASM05	ER	0006			
DISASM55	ER	0007			
DISASM06	ER	0008			
DISASM07	ER	0009			
DISASM08	ER	000A			
DISASM09	ER	000B			
DISASM19	ER	000C			
DISASMDB	ER	000D			
DISASMOP	ER	000E			
DISASMPR	ER	000F			
DISASMPU	ER	0010			

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASM00	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	COMMON DATA MODULE AND TRACE TABLE.	00070000
				8 *	AT INITIALIZATION TIME, THE MAINLINE MODULE, DISASM01,	00080000
				9 *	SETS R11 TO THE ADDRESS OF DISASM00. ALL OTHER	00090000
				10 *	MODULES DEPEND ON THIS ADDRESS REMAINING UNCHANGED.	00100000
				11 *		00110000
				12 *	-----*	00120000
				13	COPY DISASMGB	00130000
				14 *	-----*	00010000
				15 *		00020000
				16 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				17 *		00040000
				18 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				19 *		00060000
				20 *	-----*	00070000
				21	GBLA &TRNBRG,&MAXL,&MINL	00080000
				22	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				23	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				24	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
000000				25	DISASM00 DISASMCM TYPE=CSECT	00140000
				26+	DISASM00 CSECT	00240000
				27+	-----*	00320000
				28+		00330000
				29+	DOUBLE WORD FOR CVB/CVD	00340000
				30+		00350000
				31+	-----*	00360000
000000	000000000000000000			32+	COMMDWRD DC D'0'	00370000
				33+	-----*	00380000
				34+		00390000
				35+	ADDRESS CONSTANTS	00400000
				36+		00410000
				37+	-----*	00420000
000008	C4C9E2C1E2D4F0F0			38+	DC CL8'DISASM00'	00430000
000010	00000000			39+	ACOMM DC A(DISASM00) COMMON MODULE	00440000
000014	C4C9E2C1E2D4F0F1			40+	DC CL8'DISASM01'	00450000
00001C	00000000			41+	A01 DC V(DISASM01) MAINLINE MODULE	00460000
000020	C4C9E2C1E2D4F0F2			42+	DC CL8'DISASM02'	00470000
000028	00000000			43+	A02 DC V(DISASM02) PARAMETER READER	00480000
00002C	C4C9E2C1E2D4F0F3			44+	DC CL8'DISASM03'	00490000
000034	00000000			45+	A03 DC V(DISASM03) MODULE READER	00500000
000038	C4C9E2C1E2D4F0F4			46+	DC CL8'DISASM04'	00510000
000040	00000000			47+	A04 DC V(DISASM04) CESD RECORD PROCESSOR	00520000
000044	C4C9E2C1E2D4F0F5			48+	DC CL8'DISASM05'	00530000
00004C	00000000			49+	A05 DC V(DISASM05) RLD RECORD PROCESSOR	00540000
000050	C4C9E2C1E2D4F5F5			50+	DC CL8'DISASM55' GP99148	00550000
000058	00000000			51+	A55 DC V(DISASM55) SYM RECORD PROCESSOR GP99148	00560000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00005C	C4C9E2C1E2D4F0F6			52+	DC CL8'DISASM06'	00570000
000064	00000000			53+A06	DC V(DISASM06) MODULE TEXT PRINTER; VER/REP GP10082	00580000
000068	C4C9E2C1E2D4F0F7			54+	DC CL8'DISASM07'	00590000
000070	00000000			55+A07	DC V(DISASM07) DSECT INTERPRETER	00600000
000074	C4C9E2C1E2D4F0F8			56+	DC CL8'DISASM08'	00610000
00007C	00000000			57+A08	DC V(DISASM08) ASSIGN LABELS	00620000
000080	C4C9E2C1E2D4F0F9			58+	DC CL8'DISASM09'	00630000
000088	00000000			59+A09	DC V(DISASM09) SOURCE GENERATOR	00640000
00008C	C4C9E2C1E2D4F1F9			60+	DC CL8'DISASM19' GP99148	00650000
000094	00000000			61+A19	DC V(DISASM19) X-REF GENERATOR GP99148	00660000
000098	C4C9E2C1E2D4C4C2			62+	DC CL8'DISASMDB'	00670000
0000A0	00000000			63+ADB	DC V(DISASMDB) DEBUG	00680000
0000A4	C4C9E2C1E2D4D6D7			64+	DC CL8'DISASMOP'	00690000
0000AC	00000000			65+AOP	DC V(DISASMOP) OP CODE TABLE	00700000
0000B0	C4C9E2C1E2D4D7D9			66+	DC CL8'DISASMPR'	00710000
0000B8	00000000			67+APR	DC V(DISASMPR) PRINT MODULE ADDRESS	00720000
0000BC	00000000			68+APU	DC V(DISASMPU) PUNCH MODULE ADDRESS GP10047	00730000
				69+*	-----*	00740000
				70+*		* 00750000
				71+*	TRACE CONTROL	* 00760000
				72+*		* 00770000
				73+*	-----*	00780000
0000C0				74+	DS 0A	00790000
0000C0	F1E2E340			75+	DC CL4'1ST' FIRST TRACE ENTRY	00800000
0000C4	00000000			76+TR1ST	DC A(0)	00810000
0000C8	D3C1E2E3			77+	DC CL4'LAST' LAST TRACE ENTRY	00820000
0000CC	00000000			78+TRLAST	DC A(0)	00830000
0000D0	C3E4D9D9			79+	DC CL4'CURRE' CURRENT TRACE ENTRY	00840000
0000D4	00000000			80+TRCURRE	DC A(0)	00850000
0000D8	00000000			81+TRADDR	DC A(0) TRACE TABLE STORAGE ADDRESS	00860000
0000DC	00000000			82+TRR14	DC A(0) REGISTER 14 SAVE AREA	00870000
0000E0	4040404040404040			83+TRDATA1	DC CL8' ' TRACE DATA ITEM 1	00880000
0000E8	4040404040404040			84+TRDATA2	DC CL8' ' TRACE DATA ITEM 2	00890000
0000F0	00007D00			85+TRSIZE	DC A(1000*32) TRACE TABLE SIZE	00900000
				86+*	-----*	00910000
				87+*	GLOBAL DATA - LIFE OF PROGRAM - OBTAINED IN SUBPOOL 88	* 00920000
				88+*	-----*	00930000
0000F4	00000000			89+COMMID	DC A(0) I/O BUFFER ADDRESS	00940000
		07FF8		90+\$IOSIZE	EQU 32760 I/O BUFFER SIZE	00950000
				91+*	-----*	00960000
				92+*	GLOBAL DATA - FOR CSECT DURATION ONLY - FROM SUBPOOL 69	* 00970000
				93+*	-----*	00980000
0000F8				94+COMMCLR	DS 0A START OF AREA TO CLEAR GP10085	00990000
0000F8	00000000			95+COMMESD	DC A(0) EXTERNAL SYMBOL TABLE ANCHOR	01000000
0000FC	00000000			96+COMMRLD	DC A(0) RLD TABLE ANCHOR	01010000
000100	00000000			97+COMMUSNG	DC A(0) USING TABLE ANCHOR	01020000
000104	00000000			98+COMMDSCT	DC A(0) DSECT TABLE ANCHOR	01030000
000108	00000000			99+COMMBASE	DC A(0) BASE TABLE ANCHOR	01040000
00010C	00000000			100+COMMDATA	DC A(0) DATA TABLE ANCHOR	01050000
000110	00000000			101+COMMDISP	DC A(0) INSTRUCTION DISPLACEMENT TABLE	01060000
000114	00000000			102+COMMREF	DC A(0) REFERENCE TABLE ANCHOR	01070000
000118	00000000			103+COMMLABL	DC A(0) LABEL TABLE ANCHOR	01080000
00011C	00000000			104+COMMC SAD	DC A(0) CSECT ADDRESS	01090000
000120	00000000			105+COMMCSEP	DC A(0) LINK EDIT ASSIGNED ENTRY POINT	01100000
000124	00000000			106+COMMCSEA	DC A(0) CSECT ENDING ADDRESS	01110000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000128	00000000			107+COMMCSE0	DC A(0) CSECT ORIGINAL END PRE-ROUND	GP10071 01120000
00012C	00000000			108+COMMCSLN	DC A(0) CSECT LENGTH	01130000
000130	00000000			109+COMMTXT	DC A(0) TEXT'S STORAGE ADDRESS	01140000
000134	00000000			110+COMMSYMP	DC A(0) SYMBOL TABLE CHAIN	GP99148 01150000
000138	00000000			111+COMMVERS	DC A(0) CHAIN OF VERIFY REQUESTS	GP10082 01160000
00013C	00000000			112+COMMREPS	DC A(0) CHAIN OF REPLACE REQUESTS	GP10082 01170000
000140				113+COMMESID	DS XL2 CSECT'S ESDID	01180000
		0004A		114+COMMCLRL	EQU *-COMMCLR SIZE TO CLEAR	GP10085 01190000
000144				115+COMMBLK	DS 0A START OF AREA TO BLANK	GP10085 01200000
000144	4040404040404040			116+COMMMD	DC CL8' ' MODULE NAME	01210000
00014C	4040404040404040			117+COMMCSNM	DC CL8' ' CSECT NAME	01220000
		0005C		118+COMMBLKL	EQU *-COMMCLR SIZE TO CLEAR	GP10085 01230000
				119+*	-----*	01240000
				120+*		* 01250000
				121+*	SUB-HEADING LENGTH IS ACTUALLY A FLAG BYTE AND A LENGTH BYTE	* 01260000
				122+*		* 01270000
				123+*	IF FIRST BYTE IS X'00', HEADING IS TO BE CENTERED	* 01280000
				124+*	IF FIRST BYTE IS X'FF', HEADING IS NOT TO BE CENTERED	* 01290000
				125+*		* 01300000
				126+*	SECOND BYTE IS THE LENGTH FOR CENTERED AND NON-CENTERED	* 01310000
				127+*		* 01320000
				128+*	-----*	01330000
000154	0000			129+COMMSUBL	DC H'0' SUB HEADING LENGTH	01340000
000156	0000			130+COMMPFXL	DC H'0' LABEL PREFIX LENGTH	01350000
000158	0004			131+COMMH4	DC H'4' CONSTANT	01360000
00015A	0008			132+COMMH8	DC H'8' CONSTANT	01370000
00015C	0020			133+COMMH32	DC H'32' CONSTANT	01380000
00015E	00059C			134+COMMMAXL	DC PL3'59' MAXIMUM LINES PER PAGE	01390000
000161	00			135+COMMFILL	DC X'00' GETMAIN: STORAGE FILL BYTE	GP99161 01400000
000162	45			136+COMMPPOOL	DC AL1(69) GETMAIN: SUBPOOL	GP10085 01410000
000163	00			137+COMMFLAG	DC X'00' GLOBAL CONTROL FLAGS	01420000
		00080		138+\$ABORT	EQU X'80' .. SERIOUS ERROR, ABORT	01430000
		00040		139+\$ERROR	EQU X'40' .. ERROR HAS OCCURRED	01440000
		00020		140+\$CSECT	EQU X'20' .. CSECT LOCATED	01450000
		00010		141+\$ABEND	EQU X'10' .. ABEND AT EXIT	01460000
		00008		142+\$ASMIN	EQU X'08' .. ASSEMBLER INPUT PRESENT	01470000
		00004		143+\$SEQLABL	EQU X'04' .. SEQUENTIALLY NUMBERED LABELS	01480000
000164	00			144+COMMDD	DC X'00' DD STATEMENT FLAGS	01490000
		00080		145+\$PRTDD	EQU X'80' .. DISPRINT DD PRESENT	01500000
		00040		146+\$INDD	EQU X'40' .. DISIN DD PRESENT	01510000
		00020		147+\$MODDD	EQU X'20' .. DISMOD DD PRESENT	01520000
		00010		148+\$PUNCHDD	EQU X'10' .. DISPUNCH DD PRESENT	01530000
		00008		149+\$DEBUGDD	EQU X'08' .. DISDEBUG DD PRESENT	01540000
		00004		150+\$ADADD	EQU X'04' .. DISADATA DD PRESENT	GP99166 01550000
		00002		151+\$LISTDD	EQU X'02' .. DISLIST DD PRESENT	GP99166 01560000
000165	00			152+PRINTFG1	DC AL1(0) PRINT OPTIONS	GP99132 01570000
		00080		153+\$PFDIR	EQU X'80' PRINT DIRECTORY ENTRY DATA	GP99132 01580000
		00040		154+\$PFESD	EQU X'40' PRINT CESD LISTING	GP99132 01590000
		00020		155+\$PFRLD	EQU X'20' PRINT RLD LISTING	GP99132 01600000
		00010		156+\$PFSYM	EQU X'10' PRINT SYM LISTING	GP99132 01610000
		00008		157+\$PFDAT	EQU X'08' PRINT SYSADATA INFO (LATER)	GP99132 01620000
		00002		158+\$PFLBL	EQU X'02' PRINT LABELS	GP99132 01630000
		00001		159+\$PFTRC	EQU X'01' PRINT THE TRACE TABLE ON ABNORMAL END	01640000
000166	00			160+PRINTFG2	DC AL1(0) PRINT OPTIONS	GP99132 01650000
		00080		161+\$PFHEX	EQU X'80' PRINT THE CSECT HEX DUMP	GP99132 01660000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00040	162+\$PFASM	EQU X'40'	PRINT THE ASSEMBLY LISTING GP99132 01670000
			00020	163+\$PFXRF	EQU X'20'	PRINT A LABEL CROSS-REFERENCE GP99132 01680000
			00010	164+\$PFPUN	EQU X'10'	PUNCH OUTPUT (?) GP99132 01690000
			00001	165+\$PFBUG	EQU X'01'	PRINT ADDITIONAL DEBUG INFO GP99149 01700000
000167	00			166+PRINTFG3	DC X'00'	PROCESSING FLAG GP99166 01710000
			00080	167+\$PFMAC	EQU X'80'	INCLUDE MACRO EXPANDED CODE (SYSADATA) 01720000
			00040	168+\$PFCOPY	EQU X'40'	INCLUDE COPY CODE (SYSADATA) 01730000
			00001	169+\$MG0504	EQU X'01'	MSG ISSUED - SKIP DUPLICATES GP04234 01740000
000168	00			170+COMMOPFG	DC X'00'	PROCESSING OPTIONS GP08063 01750000
			00080	171+\$OFIXSWP	EQU X'80'	TREAT DDD(X,0) AS DDD(0,X) GP08063 01760000
			00040	172+\$OFNOBLK	EQU X'40'	NAME BLANK CSECTS GP10074 01770000
			00010	173+\$OFROUND	EQU X'10'	ROUND CSECT TO DOUBLE-WORD GP10066 01780000
			00008	174+\$OFZERO	EQU X'08'	USE 0 FOR DS/ORG FILLERS GP10066 01790000
			00004	175+\$OFABSR	EQU X'04'	GENERATE ABSOLUTE REGISTERS GP10029 01800000
			00002	176+\$OFPLSR	EQU X'02'	GENERATE PL/S STYLE @NN REGS GP10055 01810000
			00001	177+\$OFBCOP	EQU X'01'	DO NOT GEN MNEMONIC BRANCH OPS GP10029 01820000
000169	40404040			178+COMMPFX	DC CL4' '	LABEL PREFIX 01830000
00016D	4040404040404040			179+COMMSUBH	DC CL133' '	SUB-HEADING 01840000
0001F2	4040404040404040			180+COMMDBSH	DC CL35' '	DEBUG SUB-HEADING 01850000
000215	0F0F0F0F0F0F0F0F			181+COMM0F0F	DC 8X'0F'	01860000
00021D	1F1F1F1F1F1F1F1F			182+COMM1F1F	DC 8X'1F'	01870000
000225	4040404040404040			183+COMMBLKS	DC 80C' '	01880000
000275	F0F1F2F3F4F5F6F7			184+COMMHXCH	DC C'0123456789ABCDEF'	01890000
		00185		185+COMMHXTR	EQU COMMHXCH-C'0'	SIMPLE HEX TO EBCDIC TRANSLATE GP99132 01900000
000285	000A0B0C0D0E0F00			186+COMMCHHX	DC X'000A0B0C0D0E0F00000000000000000000'	01910000
000295	0001020304050607			187+	DC X'0001020304050607080900000000000000'	01920000
0002A5				188+COMMNBR	DS 0CL2	01930000
0002A5	F040			189+	DC C'0'	01940000
0002A7	F140			190+	DC C'1'	01950000
0002A9	F240			191+	DC C'2'	01960000
0002AB	F340			192+	DC C'3'	01970000
0002AD	F440			193+	DC C'4'	01980000
0002AF	F540			194+	DC C'5'	01990000
0002B1	F640			195+	DC C'6'	02000000
0002B3	F740			196+	DC C'7'	02010000
0002B5	F840			197+	DC C'8'	02020000
0002B7	F940			198+	DC C'9'	02030000
0002B9	F1F0			199+	DC C'10'	02040000
0002BB	F1F1			200+	DC C'11'	02050000
0002BD	F1F2			201+	DC C'12'	02060000
0002BF	F1F3			202+	DC C'13'	02070000
0002C1	F1F4			203+	DC C'14'	02080000
0002C3	F1F5			204+	DC C'15'	02090000
0002C5	F1F6			205+	DC C'16'	02100000
				206+*	-----*	02110000
				207+*		* 02120000
				208+*	PRINTABLE CHARACTERS	* 02130000
				209+*		* 02140000
				210+*	-----*	* 02150000
0002C7	FFFFFFFFFFFFFFFF			211+COMMPRT	DC 256X'FF'	02160000
0003C7		00307		212+	ORG COMMPRT+X'40'	02170000
000307	00			213+	DC X'00'	02180000
000308		00311		214+	ORG COMMPRT+X'4A'	02190000
000311	00000000000000			215+	DC 6X'00'	02200000
000317		00321		216+	ORG COMMPRT+X'5A'	02210000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000321	00000000000000			217+	DC 6X'00'	02220000
000327			00327	218+	ORG COMMPRT+X'60'	02230000
000327	0000			219+	DC 2X'00'	02240000
000329			00331	220+	ORG COMMPRT+X'6A'	02250000
000331	00000000000000			221+	DC 6X'00'	02260000
000337			00340	222+	ORG COMMPRT+X'79'	02270000
000340	00000000			223+	DC 4X'00'	02280000
000344			00345	224+	ORG COMMPRT+X'7E'	02290000
000345	0000			225+	DC 2X'00'	02300000
000347			00387	226+	ORG COMMPRT+X'C0'	02310000
000387	0000000000000000			227+	DC 10X'00'	02320000
000391			00397	228+	ORG COMMPRT+X'D0'	02330000
000397	0000000000000000			229+	DC 10X'00'	02340000
0003A1			003A9	230+	ORG COMMPRT+X'E2'	02350000
0003A9	0000000000000000			231+	DC 8X'00'	02360000
0003B1			003B7	232+	ORG COMMPRT+X'F0'	02370000
0003B7	0000000000000000			233+	DC 10X'00'	02380000
0003C1			003C7	234+	ORG COMMPRT+256	02390000
				235+*	-----*	02400000
				236+*		* 02410000
				237+*	NON-PRINTABLE CHARACTERS	* 02420000
				238+*		* 02430000
				239+*	-----*	02440000
0003C7	0000000000000000			240+*	COMMPRT DC 256X'00'	02450000
0004C7			00411	241+	ORG COMMPRT+X'4A'	02460000
000411	FF			242+	DC X'FF'	02470000
000412			00413	243+	ORG COMMPRT+X'4C'	02480000
000413	FFFFFFFF			244+	DC 4X'FF'	02490000
000417			00421	245+	ORG COMMPRT+X'5A'	02500000
000421	FFFFFFFFFFFFFF			246+	DC 6X'FF'	02510000
000427			00427	247+	ORG COMMPRT+X'60'	02520000
000427	FFFF			248+	DC 2X'FF'	02530000
000429			00431	249+	ORG COMMPRT+X'6A'	02540000
000431	FF			250+	DC X'FF'	02550000
000432			00433	251+	ORG COMMPRT+X'6C'	02560000
000433	FFFFFFFF			252+	DC 4X'FF'	02570000
000437			00440	253+	ORG COMMPRT+X'79'	02580000
000440	FFFFFFFF			254+	DC 4X'FF'	02590000
000444			00445	255+	ORG COMMPRT+X'7E'	02600000
000445	FFFF			256+	DC 2X'FF'	02610000
000447			00487	257+	ORG COMMPRT+X'C0'	02620000
000487	FFFFFFFFFFFFFFFF			258+	DC 10X'FF'	02630000
000491			00497	259+	ORG COMMPRT+X'D0'	02640000
000497	FFFFFFFFFFFFFFFF			260+	DC 10X'FF'	02650000
0004A1			004A9	261+	ORG COMMPRT+X'E2'	02660000
0004A9	FFFFFFFFFFFFFFFF			262+	DC 8X'FF'	02670000
0004B1			004B7	263+	ORG COMMPRT+X'F0'	02680000
0004B7	FFFFFFFFFFFFFFFF			264+	DC 10X'FF'	02690000
0004C1			004C7	265+	ORG COMMPRT+256	02700000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18	
					267+	*****	02720000	
					268+	*	02730000	
					269+	GETOPENT PERFORM INSTRUCTION TABLE LOOK-UP FOR OP-CODE IN R1	* 02740000	
					270+	IF MASK PRESENT, VERIFY MASK BITS ARE ZERO	* 02750000	
					271+	RETURNS:R14+0 NO MATCH	* 02760000	
					272+	+4 R15 -> OP-CODE TABLE ENTRY	* 02770000	
					273+	R0 = INSTRUCTION LENGTH	* 02780000	
					274+	*	02790000	
					275+	*****	02800000	
					276+	PUSH USING	GP99137 02810000	
					277+	DROP ,	GP99137 02820000	
			00000		278+	USING DISASM00,R11 DEFINE BASE	GP99137 02830000	
0004C7	00							
0004C8	900F	B808	00808		279+	GETOPENT STM R0,R15,TRCESAVE SAVE ALL REGISTERS	GP99137 02840000	
0004CC	1BFF				280+	SR R15,R15	GP99137 02850000	
0004CE	43F0	1000	00000		281+	IC R15,0(,R1) GET MAJOR OP-CODE	GP99137 02860000	
0004D2	41E0	00C0	000C0		282+	LA R14,X'CO' LENGTH DETERMINATION BITS	GP99137 02870000	
0004D6	14EF				283+	NR R14,R15 MASK OP-CODE	GP99137 02880000	
0004D8	88E0	0006	00006		284+	SRL R14,6 RETAIN TOP TWO BITS ONLY	GP99137 02890000	
0004DC	1B00				285+	SR R0,R0	GP99137 02900000	
0004DE	430E	B55A	0055A		286+	IC R0,GETOPLN(R14) EQUIVALENT LENGTH	GP05204 02910000	
0004E2	89F0	0002	00002		287+	SLL R15,2 TIMES ADDRESS ENTRY LENGTH	GP99137 02920000	
0004E6	5EF0	B0AC	000AC		288+	AL R15,AOP POINT TO INSTRUCTION	GP99137 02930000	
			00000		289+	USING OPDSECT,R15	GP99137 02940000	
0004EA	BFFF	F000	00000		290+	ICM R15,15,0(R15) IS IT: 0 ILLEGAL; - TABLE; + VALID	GP99137 02950000	
0004EE	4780	B54E	0054E		291+	BZ GETOPNOT ILLEGAL	GP99137 02960000	
0004F2	4720	B526	00526		292+	BP GETOPTMK GOOD - NOW CHECK MASK BITS	GP10018 02970000	
0004F6	1BEE				293+	SR R14,R14 CLEAR FOR IC	GP99137 02980000	
0004F8	1B22				294+	SR R2,R2 CLEAR FOR IC	GP99137 02990000	
0004FA	43E0	1001	00001		295+	IC R14,1(,R1) GET SUBCODE	GP99137 03000000	
0004FE	4320	F001	00001		296+	IC R2,OPFLAG1 GET MASK	GP99137 03010000	
000502	14E2				297+	NR R14,R2 MASK UNNECESSARY BITS	GP99137 03020000	
000504	4320	F002	00002		298+	IC R2,OPFLAG2 GET RIGHT SHIFT VALUE	GP99137 03030000	
000508	88E0	2000	00000		299+	SRL R14,0(R2) SHIFT UNWANTED BITS	GP99137 03040000	
00050C	BDE1	F003	00003		300+	CLM R14,1,OPFLAG3 IS IT IN LEGAL RANGE?	GP99137 03050000	
000510	4720	B54E	0054E		301+	BH GETOPNOT NO; RETURN ILLEGAL	GP99137 03060000	
000514	41E0	E001	00001		302+	LA R14,1(,R14) ALLOW FOR TABLE DATA	GP99137 03070000	
000518	89E0	0002	00002		303+	SLL R14,2 OFFSET TO INSTRUCTION ADDRESS	GP99137 03080000	
00051C	1EFE				304+	ALR R15,R14 GET ENTRY ADDRESS POINTER	GP99137 03090000	
00051E	BFFF	F000	00000		305+	ICM R15,15,0(R15) IS IT LEGAL?	GP99137 03100000	
000522	47D0	B54E	0054E		306+	BNH GETOPNOT NO; FAIL IT	GP99137 03110000	
000526	9101	F007	00007		307+	GETOPTMK TM OPFLAGS,\$OPMASK MASK PRESENT?	GP10018 03120000	
00052A	4780	B546	00546		308+	BZ GETOPEXT NO; EXIT WITH VALID INSTRUCTION	GP10018 03130000	
00052E	1840				309+	LR R4,R0 SAVE LENGTH	GP10018 03140000	
000530	0640				310+	BCTR R4,0 EXECUTE LENGTH	GP10018 03150000	
000532	D705	B55E	B55E	0055E	0055E	311+	XC GETOPWRK,GETOPWRK CLEAR WORK AREA	GP10018 03160000
000538	4440	B554	00554		312+	EX R4,EXGETOPC MOVE COMPLETE INSTRUCTION	GP10018 03170000	
00053C	D405	B55E	F008	0055E	00008	313+	NC GETOPWRK,OPMASK MASK	GP10018 03180000
000542	4770	B54E	0054E		314+	BNZ GETOPNOT INVALID INSTRUCTION	GP10018 03190000	
000546	981E	B80C	0080C		315+	GETOPEXT LM R1,R14,TRCESAVE+4 RESTORE REGS EXC. R15, R0	GP99137 03200000	
00054A	47F0	E004	00004		316+	B 4(,R14) RETURN	GP99137 03210000	
00054E	981F	B80C	0080C		317+	GETOPNOT LM R1,R15,TRCESAVE+4 RESTORE ALL BUT R0	GP99137 03220000	
000552	07FE				318+	BR R14	GP99137 03230000	
000554	D200	B55E	1000	0055E	00000	319+	EXGETOPC MVC GETOPWRK(0),0(R1) MOVE COMPLETE INSTRUCTION	GP10018 03240000
00055A	02040406				320+	GETOPLN DC AL1(2,4,4,6) INSTRUCTION LENGTH BY TOP BITS	GP05204 03250000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
00055E	00000000000000				321+	GETOPWRK	DC	XL6'0'			
					322+		POP	USING			
							WORK AREA FOR MASKING				
									GP10018	03260000	
									GP99137	03270000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18	
					324+*	-----*	03290000	
					325+*		* 03300000	
					326+*	ADD TRACE ENTRY	* 03310000	
					327+*		* 03320000	
					328+*	DURING PROGRAM INITIALIZATION, DISASM01 ACQUIRES STORAGE FOR THE	* 03330000	
					329+*	TRACE TABLE AND SETS COMM1ST, COMMLAST, AND COMMCURR. DISASM01	* 03340000	
					330+*	ALSO SETS R11 TO THE ADDRESS OF DISASM00 AND ALL OTHER MODULES	* 03350000	
					331+*	DEPEND ON THIS REMAINING UNCHANGED. ANY MODULE EXCEPT THIS	* 03360000	
					332+*	MODULE MAY CALL THE TRACE ROUTINE. MACRO ITRACE GENERATES THE	* 03370000	
					333+*	CALLING SEQUENCE. R14 IS THE ONLY REGISTER ALTERED BY THE TRACE	* 03380000	
					334+*	MACRO.	* 03390000	
					335+*		* 03400000	
					336+*	THE TRACE TABLE IS A "WRAP-AROUND" TABLE. COMM1ST IS THE FIRST	* 03410000	
					337+*	ENTRY'S ADDRESS, COMMLAST IS THE LAST ENTRY'S ADDRESS, AND	* 03420000	
					338+*	COMMCURR IS THE ADDRESS OF THE LAST ENTRY ADDED TO THE TABLE.	* 03430000	
					339+*	WHEN A TRACE ENTRY IS ADDED TO THE TABLE, THE CALLING MODULE'S	* 03440000	
					340+*	NAME, AN 8-BYTE ID, AND UP TO 2 8-BYTE FIELDS ARE CAPTURED.	* 03450000	
					341+*		* 03460000	
					342+*		* 03470000	
					343+*		* 03480000	
					344+*	THIS CODE DEPENDS ON:	* 03490000	
					345+*	R11 'DISASM00' ADDRESS	* 03500000	
					346+*	R12 CURRENT MODULE'S BASE ADDRESS	* 03510000	
					347+*	AND THE MODULE'S NAME MUST BE AT 10 BYTES (0A HEX)	* 03520000	
					348+*	INTO THE MODULE	* 03530000	
					349+*	R14 TRACE ID'S ADDRESS AND R14 + 8 WILL BE THE RETURN	* 03540000	
					350+*	ADDRESS	* 03550000	
					351+*		* 03560000	
					352+*	-----*	03570000	
000564					353+	PUSH USING GP99137	03580000	
					354+TRACE000	DS OH	03590000	
				00000	355+	USING DISASM00,R11 DEFINE BASE	03600000	
				00000	356+	USING TREENTRY,R1 DEFINE BASE	03610000	
000564	900F	B808		00808	357+	STM R0,R15,TRCESAVE SAVE ALL REGISTERS	03620000	
000568	BF1F	B0D4		000D4	358+	ICM R1,15,TRCURR CURRENT TRACE ENTRY	03630000	
00056C	4780	B5A8		005A8	359+	BZ TRACE020 NO TRACE TABLE	03640000	
					360+*NUTS*	OC 0(TREENTRYL,R1),0(R1) EMPTY ENTRY? GP99136	03650000	
					361+*NUTS*	BZ TRACE010 YES.. USE THIS ENTRY GP99136	03660000	
000570	4110	1020		00020	362+	LA R1,TREENTRYL(,R1) NEXT TRACE ENTRY	03670000	
000574	5910	B0CC		000CC	363+	C R1,TRLAST BEYOND END OF TABLE?	03680000	
000578	47D0	B580		00580	364+	BNH TRACE010 NO	03690000	
00057C	5810	B0C4		000C4	365+	L R1,TR1ST 'WRAP' TRACE TABLE	03700000	
000580					366+TRACE010	DS OH	03710000	
000580	5010	B0D4		000D4	367+	ST R1,TRCURR SAVE CURRENT TRACE ENTRY ADDRESS	03720000	
					368+*OLD*	MVC TREMOD,10(R12) COPY MODULE NAME GP99140	03730000	
000584	D207	1000	C005	00000	00005	369+	MVC TREMOD,5(R12) COPY MODULE NAME FROM MODHEAD EXP.	03740000
00058A	D207	1008	E000	00008	00000	370+	MVC TREID,0(R14) COPY TRACE ID	03750000
000590	D207	1010	B0E0	00010	000E0	371+	MVC TREDATA1,TRDATA1 COPY TRACE DATA 1	03760000
000596	D207	1018	B0E8	00018	000E8	372+	MVC TREDATA2,TRDATA2 COPY TRACE DATA 2	03770000
00059C	D707	B0E0	B0E0	000E0	000E0	373+	XC TRDATA1,TRDATA1 CLEAR TRACE DATA	03780000
0005A2	D707	B0E8	B0E8	000E8	000E8	374+	XC TRDATA2,TRDATA2 CLEAR TRACE DATA	03790000
0005A8					375+TRACE020	DS OH	03800000	
0005A8	980F	B808		00808	376+	LM R0,R15,TRCESAVE RESTORE ALL REGISTERS	03810000	
0005AC	47F0	E008		00008	377+	B 8(,R14) RETURN	03820000	
					378+	POP USING GP99137	03830000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					380+*	-----*	03850000
					381+*		* 03860000
					382+*	PRINT TRACE TABLE	* 03870000
					383+*		* 03880000
					384+*	THIS ROUTINE PRINTS THE TRACE TABLE WHEN CALLED, AND WHEN \$PFTRC	* 03890000
					385+*	IS ON IN FLAG BYTE PRINTFG1.	* 03900000
					386+*		* 03910000
					387+*	THIS CODE DEPENDS ON:	* 03920000
					388+*	R11 'DISASM00' ADDRESS	* 03930000
					389+*		* 03940000
					390+*	-----*	03950000
					391+	PUSH USING	GP99137 03960000
			00000		392+	USING DISASM00,R11 DEFINE BASE	GP99138 03970000
0005B0	900F	B808	00808		393+TRACEPRT	STM R0,R15,TRCESAVE SAVE ALL REGISTERS	GP99138 03980000
0005B4	9101	B165	00165		394+	TM PRINTFG1,\$PFTRC TRACE TABLE REQUESTED?	GP99138 03990000
0005B8	4780	B662	00662		395+	BZ TRACEPEN NO; GET OUT	GP99138 04000000
0005BC	94FE	B165	00165		396+	NI PRINTFG1,255-\$PFTRC SET IT DONE	GP99138 04010000
0005C0	D21A	B16D	B668 0016D	00668	397+	MVC COMMSUBH(L'TRACESHD),TRACESHD	GP99138 04020000
0005C6	921B	B155	00155		398+	MVI COMMSUBL+L'COMMSUBL-1,L'TRACESHD	GP99138 04030000
0005CA	92FF	B154	00154		399+	MVI COMMSUBL,X'FF' SET LEFT-ADJUST REQUEST	GP99138 04040000
0005CE	92E2	B70E	0070E		400+	MVI PRTCMD,\$PRTSUBH REQUEST SUB-HEADER	GP99138 04050000
0005D2	45E0	B6F0	006F0		401+	BAL R14,PRINTDAT PRINT IT	GP99138 04060000
0005D6	BF5F	B0D4	000D4		402+	ICM R5,15,TRCURR LOAD CURRENT ENTRY	GP99138 04070000
0005DA	4770	B646	00646		403+	BNZ TRACEPIN AND INCREMENT	GP99138 04080000
0005DE	47F0	B662	00662		404+	B TRACEPEN ELSE GET OUT	GP99138 04090000
			00000		405+	USING TENTRY,R5 DECLARE MAPPING	GP99138 04100000
0005E2	9500	5000	00000		406+TRACEPPR	CLI TREMOD,0 ENTRY USED ?	GP99138 04110000
0005E6	4780	B646	00646		407+	BE TRACEPIN NO; SKIP EMPTY	GP99138 04120000
0005EA	D207	B713	5000 00713	00000	408+	MVC PRTDATA+TPOMOD(L'TPOMOD),TREMOD SHOW MODULE NM	GP99138 04130000
0005F0	D207	B71D	5008 0071D	00008	409+	MVC PRTDATA+TPOTID(L'TPOTID),TREID SHOW TRACE ID	GP99138 04140000
0005F6	F384	B727	5010 00727	00010	410+	UNPK PRTDATA+TPODA1A(L'TPODA1A+1),TREDATA1(5)	GP99138 04150000
0005FC	DC08	B727	B185 00727	00185	411+	TR PRTDATA+TPODA1A(L'TPODA1A+1),COMMHXTR	GP99138 04160000
000602	9240	B72F	0072F		412+	MVI PRTDATA+TPODA1A+L'TPODA1A,C' '	GP99138 04170000
000606	F384	B730	5014 00730	00014	413+	UNPK PRTDATA+TPODA1B(L'TPODA1B+1),TREDATA1+4(5)	GP99138 04180000
00060C	DC08	B730	B185 00730	00185	414+	TR PRTDATA+TPODA1B(L'TPODA1B+1),COMMHXTR	GP99138 04190000
000612	9240	B738	00738		415+	MVI PRTDATA+TPODA1B+L'TPODA1B,C' '	GP99138 04200000
000616	F384	B73A	5018 0073A	00018	416+	UNPK PRTDATA+TPODA2A(L'TPODA2A+1),TREDATA2(5)	GP99138 04210000
00061C	DC08	B73A	B185 0073A	00185	417+	TR PRTDATA+TPODA2A(L'TPODA2A+1),COMMHXTR	GP99138 04220000
000622	9240	B742	00742		418+	MVI PRTDATA+TPODA2A+L'TPODA2A,C' '	GP99138 04230000
000626	D203	B000	501C 00000	0001C	419+	MVC COMMDWRD(4),TREDATA2+4	GP99138 04240000
00062C	F384	B743	B000 00743	00000	420+	UNPK PRTDATA+TPODA2B(L'TPODA2B+1),COMMDWRD(5)	GP99138 04250000
000632	DC08	B743	B185 00743	00185	421+	TR PRTDATA+TPODA2B(L'TPODA2B+1),COMMHXTR	GP99138 04260000
000638	9240	B74B	0074B		422+	MVI PRTDATA+TPODA2B+L'TPODA2B,C' '	GP99138 04270000
00063C	45E0	B6EC	006EC		423+	BAL R14,PRINTREC PRINT CURRENT RECORD	GP99138 04280000
000640	D71F	5000	5000 00000	00000	424+	XC TENTRY(TENTRYL),TENTRY DON'T PRINT AGAIN	GP99138 04290000
000646	4150	5020	00020		425+TRACEPIN	LA R5,TENTRYL(,R5) NEXT TRACE ENTRY	GP99138 04300000
00064A	5550	B0D4	000D4		426+	CL R5,TRCURR DONE?	GP99138 04310000
00064E	4780	B662	00662		427+	BE TRACEPEN YES; RETUNR	GP99138 04320000
000652	5950	B0CC	000CC		428+	C R5,TRLAST BEYOND END OF TABLE?	GP99138 04330000
000656	47D0	B5E2	005E2		429+	BNH TRACEPPR NO	GP99138 04340000
00065A	5850	B0C4	000C4		430+	L R5,TR1ST 'WRAP' TRACE TABLE	GP99138 04350000
00065E	47F0	B5E2	005E2		431+	B TRACEPPR AND FORMAT THIS ONE	GP99138 04360000
000662	980F	B808	00808		432+TRACEPEN	LM R0,R15,TRCESAVE RESTORE ALL REGISTERS	GP99138 04370000
000666	07FE				433+	BR R14 RETURN	GP99138 04380000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00003	435+TPOMOD	EQU 003,8,C'C' MODULE NAME	GP99138 04400000
			0000D	436+TPOTID	EQU 013,8,C'C' TRACE IDENTIFIER	GP99138 04410000
			00017	437+TPODA1A	EQU 023,8,C'C' DATA FIELD 1	GP99138 04420000
			00020	438+TPODA1B	EQU 032,8,C'C' DATA FIELD 1 PART 2	GP99138 04430000
			0002A	439+TPODA2A	EQU 042,8,C'C' DATA FIELD 2	GP99138 04440000
			00033	440+TPODA2B	EQU 051,8,C'C' DATA FIELD 2 PART 2	GP99138 04450000
000668	404040D4D6C4E4D3			441+TRACESHD	DC C' MODULE FUNCTION DATA'	GP99138 04460000
				442+	POP USING	GP99137 04470000
			444+*	-----*		04490000
			445+*			* 04500000
			446+*	COMMON STORAGE FUNCTIONS		* 04510000
			447+*			* 04520000
			448+*	GETMAIN:	GET STORAGE; AMOUNT IN R0	* 04530000
			449+*	FREEMAIN:	FREE STORAGE; AMOUNT IN R0, ADDRESS IN R1	* 04540000
			450+*			* 04550000
			451+*	-----*		04560000
			452+	PUSH	USING	GP99148 04570000
		00000	453+	USING	DISASM00,R11 DEFINE BASE	GP99148 04580000
000683	00					
000684	90E1 B858	00858		454+GETMAIN	STM R14,R1,MAINRSV SAVE CRITICAL REGISTERS	GP99154 04590000
				455+*XA*	STORAGE OBTAIN,LENGTH=(0),LOC=ANY,SP=COMMPPOOL	GP99148 04600000
000688	BF08 B162	00162		456+	ICM R0,8,COMMPPOOL SET SUBPOOL	GP10085 04610000
				457+*	OS/VS2 RELEASE 4 VERSION -- 10/21/75	00004804
00068C	4510 B690	00690		458+	BAL 1,*+4 INDICATE GETMAIN	00682402
000690	0A0A			459+	SVC 10 ISSUE GETMAIN SVC	00820002
000692	5010 B864	00864		460+	ST R1,MAINRSV+12 RETURN R1 TO USER	GP99154 04630000
000696	1801			461+	LR R0,R1 COPY ADDRESS	GP99154 04640000
000698	5810 B860	00860		462+	L R1,MAINRSV+8 GET LENGTH AGAIN	GP99154 04650000
00069C	1BFF			463+	SR R15,R15 CLEAR SOURCE LENGTH AND FILL	GP99154 04660000
00069E	BFF8 B161	00161		464+	ICM R15,8,COMMFILL USE USER'S FILL BYTE	GP99161 04670000
0006A2	0E0E			465+	MVCL R0,R14 CLEAR THE STORAGE	GP99154 04680000
0006A4	98E1 B858	00858		466+	LM R14,R1,MAINRSV RESTORE USER'S REGISTERS	04690000
0006A8	07FE			467+	BR R14 RETURN	GP99148 04700000
0006AA	90EF B858	00858		469+FREEMAIN	STM R14,R15,MAINRSV SAVE CRITICAL REGISTERS	GP99148 04720000
				470+*XA*	STORAGE RELEASE,LENGTH=(0),ADDR=(1),SP=COMMPPOOL	GP99148 04730000
0006AE	BF08 B162	00162		471+	ICM R0,8,COMMPPOOL SET SUBPOOL	GP10085 04740000
				472+*	OS/VS2 RELEASE 3 VERSION -- 10/25/74	00001603
0006B2	4110 1000	00000		473+	LA 1,0(0,1) CLEAR HI ORDER BYTE	00150802
0006B6	0A0A			474+	SVC 10 ISSUE FREEMAIN SVC	00311202
0006B8	98EF B858	00858		475+	LM R14,R15,MAINRSV RESTORE USER'S REGISTERS	GP99148 04760000
0006BC	07FE			476+	BR R14 RETURN	GP99148 04770000
			478+*	-----*		04790000
			479+*			* 04800000
			480+*	COMMON PRINT FUNCTIONS		* 04810000
			481+*			* 04820000
			482+*	PRINTMSG:	MOVE MESSAGE TO PRTRDATA AND PRINT	* 04830000
			483+*	PRINTREC:	DATA IN PRTRDATA, SET PRINT FLAG	* 04840000
			484+*	PRINTDAT:	DATA IN PRTRDATA, FLAGS SET BY CALLER	* 04850000
			485+*	PRINTCLR:	CLEAR PRINT LINE	* 04860000
			486+*			* 04870000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					487+*	-----*	04880000
					488+	PUSH USING	GP99137 04890000
			00000		489+	USING DISASM00,R11 DEFINE BASE	GP99138 04900000
0006BE	90E1	B848	00848		490+PRINTMSG	STM R14,R1,PRINTRSV SAVE IN TRACE AREA	GP99138 04910000
0006C2	1BFF				491+	SR R15,R15 CLEAR LENGTH FIELD	GP99138 04920000
0006C4	BFF1	1000	00000		492+	ICM R15,1,0(R1) LOAD MESSAGE LENGTH	GP99138 04930000
0006C8	47D0	B6FE	006FE		493+	BNP PRINTREX BAD - JUST RETURN	GP99138 04940000
0006CC	4100	0084	00084		494+	LA R0,L'PRTDATA	GP99138 04950000
0006D0	19F0				495+	CR R15,R0 WILL THE DATA FIT?	GP99138 04960000
0006D2	47D0	B6D8	006D8		496+	BNH *+6	GP99138 04970000
0006D6	18F0				497+	LR R15,R0 TRUNCATE IF TOO LONG	GP99138 04980000
0006D8	06F0				498+	BCTR R15,0 DECREMENT	GP99138 04990000
0006DA	44F0	B6E6	006E6		499+	EX R15,PRINTMVR MOVE TO PRINT LINE	GP99138 05000000
0006DE	98E0	B848	00848		500+	LM R14,R0,PRINTRSV RESTORE REGISTERS	GP99138 05010000
0006E2	47F0	B6EC	006EC		501+	B PRINTREC AND PRINT IT	GP99138 05020000
0006E6	D200	B710	1001	00710	00001	502+PRINTMVR MVC PRTDATA(0),1(R1) MOVE MESSAGE TEXT	GP99138 05030000
0006EC	92D7	B70E	0070E		504+PRINTREC	MVI PRTCMD,\$PRTPRT SET COMMAND	GP99138 05050000
0006F0	90E1	B848	00848		505+PRINTDAT	STM R14,R1,PRINTRSV SAVE A FEW REGISTERS	GP99138 05060000
0006F4	4110	B70E	0070E		506+	LA R1,PRTBLOK SET PARAMETER BLOCK ADDRESS	GP99138 05070000
0006F8	58F0	B0B8	000B8		507+	L R15,APR PRINT MODULE ENTRY POINT	GP99138 05080000
0006FC	05EF				508+	BALR R14,R15 LINK TO PRINT MODULE	GP99138 05090000
0006FE	98E1	B848	00848		509+PRINTREX	LM R14,R1,PRINTRSV RESTORE REGISTERS	GP99138 05100000
000702	9240	B70F	0070F		510+PRINTCLR	MVI PRTCC,C' ' PREPARE TO CLEAR	GP99138 05110000
000706	D283	B710	B70F	00710	0070F	511+ MVC PRTDATA,PRTDATA-1 CLEAR PRINT LINE	GP99138 05120000
00070C	07FE				512+	BR R14 RETURN	GP99138 05130000
00070E					514+PRTBLOK	DS OC	00090000
00070E	00				515+PRTCMD	DC X'00' COMMAND	00150000
			000C8		516+\$PRTHEAD	EQU C'H' .. PRINT HEADING	00160000
			000E2		517+\$PRTSUBH	EQU C'S' .. PRINT SUB-HEADING	00170000
			000D7		518+\$PRTPRT	EQU C'P' .. PRINT	00180000
			000D4		519+\$PRTMEM	EQU C'M' .. NEW MEMBER	00190000
			000C3		520+\$PRTCLS	EQU C'C' .. CLOSE PRINT	00200000
00070F	40				521+PRTCC	DC C' ' CARRIAGE CONTROL	00210000
000710	4040404040404040				522+PRTDATA	DC CL132' ' PRINT DATA	00220000
000794	D24F	B7B4	1000	007B4	00000	524+PUNCHCRD MVC PUNDATA,0(R1) COPY USER'S CARD	GP10047 05170000
00079A	92D7	B70E	0070E		525+PUNCHREC	MVI PRTCMD,\$PRTPRT SET COMMAND	GP10047 05180000
00079E	90E1	B848	00848		526+PUNCHDAT	STM R14,R1,PRINTRSV SAVE A FEW REGISTERS	GP10047 05190000
0007A2	4110	B7B2	007B2		527+	LA R1,PUNBLOK SET PARAMETER BLOCK ADDRESS	GP10047 05200000
0007A6	58F0	B0BC	000BC		528+	L R15,APU PUNCH MODULE ENTRY POINT	GP10047 05210000
0007AA	05EF				529+	BALR R14,R15 LINK TO PUNCH MODULE	GP10047 05220000
0007AC	98E1	B848	00848		530+	LM R14,R1,PRINTRSV RESTORE REGISTERS	GP10047 05230000
0007B0	07FE				531+	BR R14 RETURN	GP10047 05240000
0007B2					533+PUNBLOK	DS OC	00110000
0007B2	00				534+PUNCMD	DC X'00' COMMAND	00170000
			000D7		535+\$PUNPRT	EQU C'P' .. PUNCH	00180000
			000D7		536+\$PUNPUN	EQU C'P' .. PUNCH	00190000
			000C3		537+\$PUNCLS	EQU C'C' .. CLOSE PRINT	00200000
0007B3	40				538+PUNCC	DC C' ' CARRIAGE CONTROL	00210000
0007B4	4040404040404040				539+PUNDATA	DC CL80' ' PRINT DATA	00220000
000808					541+	LTORG ,	GP99138 05280000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
					542+		POP	USING			
000808	000000000000000000				543+	TRCESAVE	DC	16A(0)	TRACE REGISTER SAVE AREA	GP99137	05290000
000848	000000000000000000				544+	PRINTRSV	DC	4A(0)	PRINT REGISTER SAVE AREA	GP99138	05300000
000858	000000000000000000				545+	MAINRSV	DC	4A(0)	STORAGE REGISTER SAVE AREA	GP99138	05310000
										GP99154	05320000
000868	FFFFFFFFFFFFFFFFFFFF				547+	HEXTRT	DC	256X'FF'	SET ALL CHARACTERS INVALID	GP99145	05340000
000968				008A8	548+		ORG	HEXTRT+C' '	SPECIAL VALUE FOR STOPPER	GP99172	05350000
0008A8	40				549+		DC	C' '		GP99172	05360000
0008A9				00929	550+		ORG	HEXTRT+C'A'	DEFINE A-F	GP99145	05370000
000929	0000000000000000				551+		DC	6X'00'		GP99145	05380000
00092F				008E9	552+		ORG	HEXTRT+X'81'	DEFINE A-F LOWER CASE	GP99145	05390000
0008E9	0000000000000000				553+		DC	6X'00'		GP99145	05400000
0008EF				00958	554+		ORG	HEXTRT+C'0'	DEFINE 0-9	GP99145	05410000
000958	000000000000000000				555+		DC	10X'00'		GP99145	05420000
000962				00968	556+		ORG	HEXTRT+256	(JUST IN CASE)	GP99145	05430000
000968	FFFFFFFFFFFFFFFFFFFF				558+	INTTRT	DC	256X'FF'	SET ALL CHARACTERS INVALID	GP99172	05450000
000A68				009A8	559+		ORG	INTTRT+C' '	SPECIAL VALUE FOR STOPPER	GP99172	05460000
0009A8	40				560+		DC	C' '		GP99172	05470000
0009A9				00A58	561+		ORG	INTTRT+C'0'	DEFINE 0-9	GP99172	05480000
000A58	000000000000000000				562+		DC	10X'00'		GP99172	05490000
000A62				00A68	563+		ORG	INTTRT+256	(JUST IN CASE)	GP99172	05500000
000A68	FFFFFFFFFFFFFFFFFFFF				565+	BLKTRT	DC	256X'FF'	FIND A BLANK TABLE	GP99145	05520000
000B68				00AA8	566+		ORG	BLKTRT+C' '	STOPPER	GP99145	05530000
000AA8	04				567+		DC	X'04'	SIGNAL	GP99145	05540000
000AA9				00AE4	568+		ORG	BLKTRT+C'@'	AT	GP99145	05550000
000AE4	00				569+		DC	X'00'	VALID	GP99145	05560000
000AE5				00AB5	570+		ORG	BLKTRT+C'('	LEFT PARENTHESIS FOR DISASM09	GP99181	05570000
000AB5	00				571+		DC	X'00'	VALID	GP99181	05580000
000AB6				00AE5	572+		ORG	BLKTRT+C''''	APOSTROPHE/QUOTE FOR DISASM09	GP99181	05590000
000AE5	00				573+		DC	X'00'	VALID	GP99181	05600000
000AE6				00AC4	574+		ORG	BLKTRT+C'*'	ASTERISK FOR DISASM09	GP99184	05610000
000AC4	00				575+		DC	X'00'	VALID	GP99184	05620000
000AC5				00AE3	576+		ORG	BLKTRT+C'#'	NUMBER/POUND	GP99145	05630000
000AE3	00				577+		DC	X'00'	VALID	GP99145	05640000
000AE4				00AC3	578+		ORG	BLKTRT+C'\$'	DOLLAR	GP99145	05650000
000AC3	00				579+		DC	X'00'	VALID	GP99145	05660000
000AC4				00AD5	580+		ORG	BLKTRT+C'_'	UNDERLINE	GP99145	05670000
000AD5	00				581+		DC	X'00'	VALID	GP99145	05680000
000AD6				00B29	582+		ORG	BLKTRT+C'A'	A-I	GP99145	05690000
000B29	000000000000000000				583+		DC	9X'00'	VALID	GP99145	05700000
000B32				00B39	584+		ORG	BLKTRT+C'J'	J-R	GP99145	05710000
000B39	000000000000000000				585+		DC	9X'00'	VALID	GP99145	05720000
000B42				00B4A	586+		ORG	BLKTRT+C'S'	S-Z	GP99145	05730000
000B4A	000000000000000000				587+		DC	8X'00'	VALID	GP99145	05740000
000B52				00B58	588+		ORG	BLKTRT+C'0'	0-9	GP99145	05750000
000B58	000000000000000000				589+		DC	10X'00'	VALID	GP99145	05760000
000B62				00B68	590+		ORG	BLKTRT+256	(JUST IN CASE)	GP99145	05770000
000B68	FFFFFFFFFFFFFFFFFFFF				592+	NBLTRT	DC	256X'FF'	FIND A NON-BLANK	GP99145	05790000
000C68				00BA8	593+		ORG	NBLTRT+C' '	SKIPPER	GP99145	05800000
000BA8	00				594+		DC	X'00'	SIGNAL	GP99145	05810000
000BA9				00C68	595+		ORG	NBLTRT+256	(JUST IN CASE)	GP99145	05820000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				597+*	-----*	05840000
				598+*		* 05850000
				599+*	TRACE TABLE ENTRY	* 05860000
				600+*		* 05870000
				601+*	-----*	05880000
000000				602+TRENTY	DSECT	05890000
000000				603+TREM0D	DS CL8 MODULE NAME	05900000
000008				604+TREID	DS CL8 TRACE ID	05910000
000010				605+TREDATA1	DS CL8 TRACE DATA 1	05920000
000018				606+TREDATA2	DS CL8 TRACE DATA 2	05930000
		00020		607+TRENTYRL	EQU *-TRENTY ENTRY LENGTH	05940000
				609+*	-----*	05960000
				610+*		* 05970000
				611+*	OPCODE DEFINITIONS	* 05980000
				612+*		* 05990000
				613+*	-----*	06000000
000000				614+OPDSECT	DSECT	06010000
000000				615+OPMNEM	DS CL6 MNEMONIC	06020000
		00001		616+OPFLAG1	EQU OPMNEM+1,1,C'B' OPTAB ENTRY FLAGS	GP99137 06030000
		00002		617+OPFLAG2	EQU OPMNEM+2,1,C'B' OPTAB ENTRY FLAGS	GP99137 06040000
		00003		618+OPFLAG3	EQU OPMNEM+3,1,C'B' OPTAB ENTRY FLAGS	GP99137 06050000
000006				619+OPFORM	DS X FORMAT	06060000
		00000		620+\$OPE	EQU X'00' .. E FORMAT - OPERAND ONLY	GP99132 06070000
		00001		621+\$OPRR1	EQU X'01' .. RR FORMAT 1 (R1,R2)	06080000
		00002		622+\$OPRR2	EQU X'02' .. RR FORMAT 2 (SVCS)	06090000
		00003		623+\$OPRR3	EQU X'03' .. RR FORMAT 3 (BRANCHES)	06100000
		00004		624+\$OPRR4	EQU X'04' .. RR FORMAT 4 (R1 ONLY)	GP99132 06110000
		00005		625+\$OPRR5	EQU X'05' .. RR FORMAT 5 (R2 ONLY)	GP99132 06120000
		00006		626+\$OPRRE	EQU X'06' .. RRE FORMAT 1 (R1,R2 IN +3 ONLY)	GP99132 06130000
		00007		627+\$OPRX	EQU X'07' .. RX FORMAT	06140000
		00008		628+\$OPRXA	EQU X'08' .. RX FORMAT, BUT NO R1	GP99132 06150000
		00009		629+\$OPS	EQU X'09' .. S FORMAT	06160000
		0000A		630+\$OPSI	EQU X'0A' .. SI (IMMEDIATE) FORMAT	06170000
		0000B		631+\$OPRI	EQU X'0B' 1/2 .. RSI REG/REG/IMMEDIATE	GP99132 06180000
		0000B		632+\$OPRSI	EQU X'0B' 2/2 .. RSI REG/REG/IMMEDIATE	GP99132 06190000
		0000C		633+\$OPRS1	EQU X'0C' .. RS FORMAT 1 (SHIFTS)	06200000
		0000D		634+\$OPRS2	EQU X'0D' .. RS FORMAT 2 (BXLE, BXH,)	06210000
		0000E		635+\$OPRS3	EQU X'0E' .. RS FORMAT 3 (MASK TYPE.. CLM, ICM..)	06220000
		0000F		636+\$OPSS1	EQU X'0F' .. SS FORMAT 1 (CHARACTER)	06230000
		00010		637+\$OPSS2	EQU X'10' .. SS FORMAT 2 (PACKED DECIMAL)	06240000
		00011		638+\$OPSS3	EQU X'11' .. SS FORMAT 3 (MVCK, MVCS, MVCP)	06250000
		00012		639+\$OPSS4	EQU X'12' .. SS FORMAT 4 (SRP)	06260000
		00013		640+\$OPSSSE	EQU X'13' .. SSE FORMAT (ADDR,ADDR)	GP99132 06270000
		00014		641+\$OPRRE0	EQU X'14' .. RRE FORMAT (NO REGS)	GP10018 06280000
		00015		642+\$OPRRE3	EQU X'15' .. RRE FORMAT (R1 ONLY)	GP10018 06290000
000007				643+OPFLAGS	DS X FLAGS	06300000
		00080		644+\$OPEXT	EQU X'80' .. EXTENDED MNEMONICS	06310000
		00040		645+\$OPSVC	EQU X'40' .. SVC	06320000
		00020		646+\$OPNCMNT	EQU X'20' .. NO COMMENT	06330000
		00010		647+\$OPREF	EQU X'10' .. GENERATES A LABEL REFERENCE	06340000
		00008		648+\$OPCCA	EQU X'08' .. SETS CONDITION CODE, ARITHMETIC	06350000
		00004		649+\$OPCCC	EQU X'04' .. SETS CONDITION CODE, COMPARE	06360000
		00002		650+\$OPCCL	EQU X'02' .. SETS CONDITION CODE, LOGICAL	06370000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
		00001	651+\$OPMASK	EQU	X'01'	GP10018 06380000
		00008	652+OPENTSZ	EQU	*-OPDSECT	GP99137 06390000
000008			653+OPMASK	DS	0XL6	GP10018 06400000
000008			654+OPCMNT	DS	0CL12	GP10018 06410000
		656+	PRINT ON			06440000
		657+*	-----*			06460000
		658+*				* 06470000
		659+*	ABEND REASON CODES			* 06480000
		660+*				* 06490000
		661+*	-----*			06500000
		00001	662+ABEND001	EQU	1	06510000
		00002	663+ABEND002	EQU	2	06520000
		00003	664+ABEND003	EQU	3	06530000
		00004	665+ABEND004	EQU	4	06540000
		00005	666+ABEND005	EQU	5	06550000
		00000	669+R0	EQU	0	00070000
		00001	670+R1	EQU	1	00080000
		00002	671+R2	EQU	2	00090000
		00003	672+R3	EQU	3	00100000
		00004	673+R4	EQU	4	00110000
		00005	674+R5	EQU	5	00120000
		00006	675+R6	EQU	6	00130000
		00007	676+R7	EQU	7	00140000
		00008	677+R8	EQU	8	00150000
		00009	678+R9	EQU	9	00160000
		0000A	679+R10	EQU	10	00170000
		0000B	680+R11	EQU	11	00180000
		0000C	681+R12	EQU	12	00190000
		0000D	682+R13	EQU	13	00200000
		0000E	683+R14	EQU	14	00210000
		0000F	684+R15	EQU	15	00220000
		687	COPY DISASMDA ,			GP99137 00160000
		688	AIF ('&DAPRT' EQ 'ON').DA010			00010000
		689	PRINT OFF			00020000
		900	PRINT ON			02130000
		901	.DA020	ANOP		02140000
		902	END			00170000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	0C	000010
0001	0002	1C	00001C
0001	0003	1C	000028
0001	0004	1C	000034
0001	0005	1C	000040
0001	0006	1C	00004C
0001	0007	1C	000058
0001	0008	1C	000064
0001	0009	1C	000070
0001	000A	1C	00007C
0001	000B	1C	000088
0001	000C	1C	000094
0001	000D	1C	0000A0
0001	000E	1C	0000AC
0001	000F	1C	0000B8
0001	0010	1C	0000BC

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18																
\$OPMASK	00001	00000001	00651	00307																	
\$PFTRC	00001	00000001	00159	00394	00396																
\$PRTPRT	00001	000000D7	00518	00504	00525																
\$PRTSUBH	00001	000000E2	00517	00400																	
AQP	00004	000000AC	00065	00288																	
APR	00004	000000B8	00067	00507																	
APU	00004	000000BC	00068	00528																	
BASEDSCT	00001	00000000	00707	00715																	
BLKTRT	00001	00000A68	00565	00566	00568	00570	00572	00574	00576	00578	00580	00582	00584	00586	00588	00590					
COMMCLR	00004	000000F8	00094	00114	00118																
COMMWDWD	00008	00000000	00032	00419	00420																
COMMFILL	00001	00000161	00135	00464																	
COMMHXCH	00016	00000275	00184	00185																	
COMMHXTR	00016	00000185	00185	00411	00414	00417	00421														
COMMNPRT	00001	000003C7	00240	00241	00243	00245	00247	00249	00251	00253	00255	00257	00259	00261	00263	00265					
COMMPDOL	00001	00000162	00136	00456	00471																
COMMPRT	00001	000002C7	00211	00212	00214	00216	00218	00220	00222	00224	00226	00228	00230	00232	00234						
COMMSUBH	00133	0000016D	00179	00397																	
COMMSUBL	00002	00000154	00129	00398	00398	00399															
DATADSCT	00001	00000000	00722	00743																	
DISASM00	00001	00000000	00026	00039	00278	00355	00392	00453	00489												
DSCTDSCT	00001	00000000	00750	00756																	
ESDDATA	00001	00000000	00763	00786																	
ESDNAME	00008	0000000E	00767	00782																	
EXGETOPC	00006	00000554	00319	00312																	
GETOPEXT	00004	00000546	00315	00308																	
GETOPLFN	00001	0000055A	00320	00286																	
GETOPNDT	00004	0000054E	00317	00291	00301	00306	00314														
GETOPTMK	00004	00000526	00307	00292																	
GETOPWRK	00006	0000055E	00321	00311	00311	00313	00319														
HEXTRT	00001	00000868	00547	00548	00550	00552	00554	00556													
INTTRT	00001	00000968	00558	00559	00561	00563															
LABLDSCT	00001	00000000	00793	00809																	
MAINRSV	00004	00000858	00545	00454	00460	00462	00466	00469	00475												
NBLTRT	00001	00000B68	00592	00593	00595																
OPDSECT	00001	00000000	00614	00289	00652																
OPFLAGS	00001	00000007	00643	00307																	
OPFLAG1	00001	00000001	00616	00296																	
OPFLAG2	00001	00000002	00617	00298																	
OPFLAG3	00001	00000003	00618	00300																	
OPMASK	00006	00000008	00653	00313																	
OPMNEM	00006	00000000	00615	00616	00617	00618															
PRINTDAT	00004	000006F0	00505	00401																	
PRINTFG1	00001	00000165	00152	00394	00396																
PRINTMVR	00006	000006E6	00502	00499																	
PRINTREC	00004	000006EC	00504	00423	00501																
PRINTREX	00004	000006FE	00509	00493																	
PRINTRSV	00004	00000848	00544	00490	00500	00505	00509	00526	00530												
PRTBLOK	00001	0000070E	00514	00506																	
PRTCC	00001	0000070F	00521	00510																	
PRTCMD	00001	0000070E	00515	00400	00504	00525															
PRTDATA	00132	00000710	00522	00408	00409	00410	00411	00412	00413	00414	00415	00416	00417	00418	00420	00421	00422	00494			
				00502	00511	00511															
PUNBLOK	00001	000007B2	00533	00527																	
PUNDATA	00080	000007B4	00539	00524																	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18																	
REFDSC	00001	00000000	00816	00826																		
RLDDATA	00001	00000000	00833	00851																		
R0	00001	00000000	00669	00279 00497	00285 00500	00285	00286	00309	00357	00376	00393	00432	00456	00461	00465	00471	00494	00495				
R1	00001	00000001	00670	00281 00462	00295 00466	00315 00490	00317 00492	00319 00502	00356 00505	00358 00506	00362 00509	00362 00524	00363 00526	00365 00527	00367 00530	00454	00460	00461				
R11	00001	0000000B	00680	00278	00355	00392	00453	00489														
R12	00001	0000000C	00681	00369																		
R14	00001	0000000E	00683	00282 00316	00283 00318	00284 00370	00286 00377	00293 00401	00293 00423	00295 00433	00297 00454	00299 00465	00300 00466	00302 00467	00302 00469	00303 00475	00304 00476	00315 00490				
R15	00001	0000000F	00684	00500 00279	00505 00280	00508 00280	00509 00281	00512 00283	00526 00287	00529 00288	00530 00289	00531 00290	00290 00290	00304 00304	00305 00305	00305 00305	00317 00317	00357 00357				
				00376 00393	00432 00432	00463 00463	00463 00464	00469 00469	00475 00475	00491 00491	00491 00491	00492 00492	00495 00495	00497 00497	00498 00498	00499 00499						
				00507 00508	00528 00529																	
R2	00001	00000002	00671	00294	00294	00296	00297	00298	00299													
R4	00001	00000004	00673	00309	00310	00312																
R5	00001	00000005	00674	00402	00405	00425	00425	00426	00428	00430												
SYMDATA	00001	00000000	00858	00863																		
TPODA1A	00008	00000017	00437	00410	00410	00411	00411	00412	00412													
TPODA1B	00008	00000020	00438	00413	00413	00414	00414	00415	00415													
TPODA2A	00008	0000002A	00439	00416	00416	00417	00417	00418	00418													
TPODA2B	00008	00000033	00440	00420	00420	00421	00421	00422	00422													
TPOMOD	00008	00000003	00435	00408	00408																	
TPOTID	00008	0000000D	00436	00409	00409																	
TRACEPEN	00004	00000662	00432	00395	00404	00427																
TRACEPIN	00004	00000646	00425	00403	00407																	
TRACEPPR	00004	000005E2	00406	00429	00431																	
TRACESHD	00027	00000668	00441	00397	00397	00398																
TRACE010	00002	00000580	00366	00364																		
TRACE020	00002	000005A8	00375	00359																		
TRCESAVE	00004	00000808	00543	00279	00315	00317	00357	00376	00393	00432												
TRCURR	00004	000000D4	00080	00358	00367	00402	00426															
TRDATA1	00008	000000E0	00083	00371	00373	00373																
TRDATA2	00008	000000E8	00084	00372	00374	00374																
TREDATA1	00008	00000010	00605	00371	00410	00413																
TREDATA2	00008	00000018	00606	00372	00416	00419																
TREID	00008	00000008	00604	00370	00409																	
TREMOD	00008	00000000	00603	00369	00406	00408																
TRENTY	00001	00000000	00602	00356	00405	00424	00424	00607														
TRENTYL	00001	00000020	00607	00362	00424	00425																
TRLAST	00004	000000CC	00078	00363	00428																	
TRIST	00004	000000C4	00076	00365	00430																	
USNGDSCT	00001	00000000	00870	00884																		
VERPSECT	00001	00000000	00891	00897																		

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 17

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2576

TOTAL RECORDS PUNCHED 110

TOTAL RECORDS PRINTED 875

SYMBOL

TYPE

ID

ADDR

LENGTH

LDID

ASM 0201 00.48 07/11/18

DISASM02SD0001000000001C76

DISOP360WX0002

DISOP370WX0003

DISOP390WX0004

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					2	MACRO	00020000
					3	REG ®,&VALUE	00030000
					4	DC CL3'®' REGISTER NAME	00040000
					5	DC AL1(&VALUE) VALUE IN INSTRUCTIONS	00050000
					6	MEND	00060000
					7	COPY DISASMGB COPY GLOBAL DEFINITIONS	00070000
					8 *	-----*	00010000
					9 *		00020000
					10 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
					11 *		00040000
					12 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
					13 *		00060000
					14 *	-----*	00070000
					15	GBLA &TRNBRG,&MAXL,&MINL	00080000
					16	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
					17	GBLC &TROPT,&DAPRT,&COMPRT	00100000
					18	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
						DALIST=OFF, DON'T PRINT DATA AREA +00120000	
						MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
						MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
						TRACE=ON, GENERATE TRACE +00150000	
						TRNBR=1000 1000 TRACE ENTRIES 00160000	
					19 *	-----*	00080000
					20 *		00090000
					21 *	MODULE NAME: DISASM02	00100000
					22 *		00110000
					23 *	FUNCTION:	00120000
					24 *	READ THE PARAMETER STATEMENTS. ALL PARAMETER STATEMENTS	00130000
					25 *	INCLUDING COMMENT STATEMENTS ARE COPIED TO DISFRINT. SEE THE	00140000
					26 *	DISASM DOCUMENTATION FOR A LIST OF THE PARAMETER STATEMENTS	00150000
					27 *	AND THEIR SYNTAX.	00160000
					28 *		00170000
					29 *	-----*	00180000
					30	PRINT NOGEN SAVE A BUSH GP10080	00190000
					31 DISASM02	MODHEAD BASE=(R12,R10) ENTRY HOUSEKEEPING GP99140	00200000
					47	USING REGDST,R4 DEFINE BASE 000000	00210000
000080	9140	B164	00164		48	TM COMMD,\$INDD IS INDD PRESENT? GP99167	00220000
000084	4770	C090	00090		49	BNZ OPENIN YES GP99167	00230000
000088	9106	B164	00164		50	TM COMMD,\$ADADD+\$LISTDD ALTERNATE FUNCTION? GP99167	00240000
00008C	4770	A132	01132		51	BNZ EXIT0000 YES; JUST SET PRINT FLAGS GP99167	00250000
					52 OPENIN	OPEN (DISIN,INPUT) OPEN DISIN GP99167	00260000
00009A	D213	B16D	A27F	0016D	58	MVC COMMSUBH(SUBHEADL),SUBHEAD 00127F	00270000
0000A0	4110	0014	00014		59	LA R1,SUBHEADL SUBHEADING LENGTH 00280000	
0000A4	4010	B154	00154		60	STH R1,COMMSUBL SET LENGTH 00290000	
					61 *OLD*	TM PGMFLAG,\$SUBH HAS SUB-HEADING BEEN PRINTED? 00300000	
					62 *OLD*	BO PARM0010 YES GP99149	00310000
					63 *OLD*	OI PGMFLAG,\$SUBH SET FLAG GP99149	00320000
0000A8	92E2	B70E	0070E		64	MVI PRTCMD,\$PRTSUBH SET COMMAND GP99149	00330000
0000AC	45E0	B6F0	006F0		65	BAL R14,PRINTDAT LINK TO PRINT MODULE GP99138	00340000
					67 *	-----*	00360000
					68 *	READ SYSIN INPUT UNTIL END	00370000
					69 *	-----*	00380000
					70	PARM0010 GET DISIN,PRTDATA+5 READ A CONTROL STATEMENT GP10085	00390000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0000BE	D24F	A93A	B715	0193A	00715	75	MVC CTLSTMT,PRTDATA+5	GP10085 00400000
0000C4	9602	A269		01269		76	OI PGMFLAG,\$PFHAVE HAD INPUT	GP99167 00410000
0000C8	4590	A12C		0112C		77	BAL R9,PRT0000 PRINT CONTROL STATEMENT	00420000
0000CC	955C	A93A		0193A		78	CLI CTLSTMT,C'*' IS IT A COMMENT?	00430000
0000D0	4780	C0B0		000B0		79	BE PARM0010 YES; IGNORE	00440000
0000D4	D547	A93A	B225	0193A	00225	80	CLC CTLSTMT(72),COMMBLKS IS IT A SPACER ?	GP10085 00450000
0000DA	4780	C0B0		000B0		81	BE PARM0010 YES; IGNORE	GP10085 00460000
0000DE	4110	A98A		0198A		83	LA R1,CNTLTBLE CONTROL TABLE ADDRESS	00480000
0000E2	4100	0023		00023		84	LA R0,CNTLTBL# NUMBER OF ENTRIES	GP10085 00490000
0000E6	D508	A93A	1000	0193A	00000	85	PARM0020 CLC CTLTYPE,0(R1) DEFINED CONTROL STATEMENT?	00500000
0000EC	4780	C10A		0010A		86	BE PARM0030 YES	00510000
0000F0	4110	100D		0000D		87	LA R1,CNTLTBL(,R1) NEXT KEYWORD/ADDRESS	GP10085 00520000
0000F4	4600	C0E6		000E6		88	BCT R0,PARM0020 LOOP	GP10085 00530000
0000F8	D224	B710	A2FE	00710	012FE	89	MVC PRTDATA(EMSG03L),EMSG03	00540000
0000FE	4590	A12C		0112C		90	BAL R9,PRT0000 PRINT MESSAGE	00550000
000102	9680	B163		00163		91	OI COMMFLAG,\$ABORT SET ABORT FLAG	00560000
000106	47F0	C0B0		000B0		92	B PARM0010 READ NEXT STATEMENT	00570000
00010A	BFFF	1009		00009		94	PARM0030 ICM R15,15,9(R1) INSERT ADDRESS	00590000
00010E	07FF					95	BR R15 BRANCH TO PROPER ROUTINE	00600000
						96	* ----- * 00610000	
						97	* 00620000	
						98	* SET ABEND FLAG 00630000	
						99	* 00640000	
						100	* ----- * 00650000	
000110						101	ABEND000 DS OH 00660000	
						102	ITRACE ID=ABEND ABEND AT EXIT 00670000	
00011C	9610	B163		00163		105	OI COMMFLAG,\$ABEND SET ABEND FLAG 00680000	
000120	47F0	C0B0		000B0		106	B PARM0010 00690000	
						107	* ----- * 00700000	
						108	* 00710000	
						109	* PROCESS ADATA, LIST, AND SYSADATA OPTIONS 00720000	
						110	* 00730000	
						111	* ----- * 00740000	
						112	ADATA000 ITRACE ID=ADATA GP99167 00750000	
000130	4110	A93B		0193B		115	LA R1,CTLTYPE+1 GP99167 00760000	
000134	4120	0001		00001		116	LA R2,1 INCREMENT GP99167 00770000	
000138	4130	A97F		0197F		117	LA R3,CTL70 GP99167 00780000	
00013C	9540	1000		00000		118	ADATA010 CLI 0(R1),C' ' LEADING BLANK YET? GP99167 00790000	
000140	4780	C14C		0014C		119	BE ADATA020 YES; NOW GET NON-BLANK GP99167 00800000	
000144	8712	C13C		0013C		120	BXLE R1,R2,ADATA010 TRY AGAIN GP99167 00810000	
000148	47F0	C172		00172		121	B ADATA099 COMPLAIN AND IGNORE GP99167 00820000	
00014C	9540	1000		00000		122	ADATA020 CLI 0(R1),C' ' NON-BLANK? GP99167 00830000	
000150	4770	C15C		0015C		123	BNE ADATA030 YES; START COMPARE GP99167 00840000	
000154	8712	C14C		0014C		124	BXLE R1,R2,ADATA020 TRY AGAIN GP99167 00850000	
000158	47F0	C0B0		000B0		125	B PARM0010 GP99167 00860000	
00015C	9857	C19C		0019C		126	ADATA030 LM R5,R7,ADATAOPT GET ADATA OPTIONS GP99167 00870000	
000160	1BFF					127	SR R15,R15 CLEAR FOR LENGTH IC GP99167 00880000	
000162	43F0	5000		00000		128	ADATA040 IC R15,0(,R5) GET VERB LENGTH GP99167 00890000	
000166	44F0	CAF4		00AF4		129	EX R15,EXPRTCLC LOOK FOR MATCH GP99167 00900000	
00016A	4780	C18A		0018A		130	BE ADATA100 WOW GP99167 00910000	
00016E	8756	C162		00162		131	BXLE R5,R6,ADATA040 TRY AGAIN GP99167 00920000	
000172	D229	B710	A877	00710	01877	132	ADATA099 MVC PRTDATA(EMSG33L),EMSG33 INVALID STATEMENT GP09181 00930000	
000178	927A	B73B		0073B		133	MVI PRTDATA+EMSG33L+1,C': ' GP09181 00940000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00017C	D207	B73D	1000	0073D	00000	134	MVC PRTDATA+EMSG33L+3(8),0(R1)	GP09181 00950000
000182	4590	A12C		0112C		135	BAL R9,PRT0000	GP99167 00960000
000186	47F0	C0B0		000B0		136	B PARM0010 IGNORE REMAINDER	GP99167 00970000
00018A	D400	B167	5002	00167	00002	137	ADATA100 NC PRINTFG3(1),2(R5) RESET FLAG FOR THIS OPTION	GP99167 00980000
000190	D600	B167	5001	00167	00001	138	OC PRINTFG3(1),1(R5) SET FLAG FOR THIS OPTION	GP99167 00990000
000196	1A1F					139	AR R1,R15 SKIP OVER MATCHED TEXT	GP99167 01000000
000198	47F0	C13C		0013C		140	B ADATA010 GET NEXT SPACE AND OPERAND	GP99167 01010000
00019C	000001A800000000D					141	ADATAOPT DC A(ADATA01,ADATA02-ADATA01,ADATA0L)	GP99167 01020000
0001A8	0580FFD4C1C3D9D6					142	ADATA01 DC AL1(05,\$PFMAC,255),CL10'MACRO '	GP99167 01030000
0001B5	0380FFD4C1C34040					143	ADATA02 DC AL1(03,\$PFMAC,255),CL10'MAC '	GP99167 01040000
0001C2	0440FFC3D6D7E840					144	DC AL1(04,\$PFCOPY,255),CL10'COPY '	GP99167 01050000
0001CF	0600BFD5D6C3D6D7					145	DC AL1(06,0,255-\$PFCOPY),CL10'NOCOPY '	GP99167 01060000
0001DC	07007FD5D6D4C1C3					146	DC AL1(07,0,255-\$PFMAC),CL10'NOMACRO'	GP99167 01070000
0001E9	05007FD5D6D4C1C3					147	DC AL1(05,0,255-\$PFMAC),CL10'NOMAC'	GP99167 01080000
0001F6	06C0FFC5E7D7C1D5					148	DC AL1(06,\$PFMAC+\$PFCOPY,255),CL10'EXPAND'	GP99167 01090000
000203	0700FFC4C5C6C1E4					149	ADATADEF DC AL1(07,0,255),CL10'DEFAULT'	GP99167 01100000
000210	0400FFD4D6E2E340					150	DC AL1(04,0,255),CL10'MOST '	GP99167 01110000
00021D	0300FFC1D3D34040					151	ADATA0L DC AL1(03,0,255),CL10'ALL '	GP99167 01120000
						152	* ----- * 01130000	
						153	* 01140000	
						154	* PROCESS ASSEMBLER INPUT 01150000	
						155	* 01160000	
						156	* ----- * 01170000	
00022A						157	ASM0000 DS OH 01180000	
						158	ITRACE ID=ASMSTART 01190000	
000236	9540	A943		01943		161	CLI CTL10,C' ' USER SPECIFIED? GP99139 01200000	
00023A	4770	C26A		0026A		162	BNE ASM0015 YES; KEEP IT GP99139 01210000	
00023E	D201	A944	A244	01944	01244	163	MVC CTLSTMT+10(2),=C'0 ' MAKE ACCEPTABLE OFFSET GP99139 01220000	
000244	47F0	C26A		0026A		164	B ASM0015 WRITE THE 'ASM START ' CARD GP99139 01230000	
000248						165	ASM0010 DS OH 01240000	
						166	GET DISIN,CTLSTMT READ A CONTROL STATEMENT 01250000	
000256	D24F	B718	A93A	00718	0193A	171	MVC PRTDATA+8(CTLSTMTL),CTLSTMT GP99139 01260000	
00025C	4590	A12C		0112C		172	BAL R9,PRT0000 PRINT CONTROL STATEMENT GP99139 01270000	
000260	D508	A93A	AB51	0193A	01B51	173	CLC CTLTYPE,CNTLASME ASSEMBLER INPUT (END)? GP99139 01280000	
000266	4780	C2DC		002DC		174	BE ASM0030 YES 01290000	
00026A	9140	A269		01269		175	ASM0015 TM PGMFLAG,\$ASMOPEN ASSEMBLER DCB OPEN? GP99139 01300000	
00026E	4710	C294		00294		176	BO ASM0020 YES 01310000	
000272	9640	A269		01269		177	OI PGMFLAG,\$ASMOPEN INDICATE DCB IS OPEN 01320000	
000276	9608	B163		00163		178	OI COMMFLAG,\$ASMIN INDICATE ASSEMBLER INPUT PRESENT 01330000	
						179	OPEN (SYSIN,OUTPUT) OPEN SYSIN DCB 01340000	
						185	PUT SYSIN,=CL80'PRINT OPSYN ANOP ' GP10025 01350000	
000294						190	ASM0020 DS OH 01360000	
000294	9120	A269		01269		191	TM PGMFLAG,\$AFLUSH END CARD ALREADY DONE? GP99139 01370000	
000298	4770	C2C8		002C8		192	BNZ ASM0025 YES; DON'T WRITE AGAIN GP99139 01380000	
						193	PUT SYSIN,CTLSTMT COPY CONTROL STATEMENT TO SYSIN 01390000	
0002AA	41E0	0001		00001		198	LA R14,1 GP99139 01400000	
0002AE	41F0	A94E		0194E		199	LA R15,CTLSTMT+20 GP99139 01410000	
0002B2	4110	A93A		0193A		200	LA R1,CTLSTMT GP99139 01420000	
0002B6	D504	A248	1000	01248	00000	201	ASM0022 CLC =C' END ',0(R1) USER SUPPLIED END STATEMENT? GP99139 01430000	
0002BC	4780	C2D4		002D4		202	BE ASM0028 YES; QUIT NOW GP99139 01440000	
0002C0	871E	C2B6		002B6		203	BXLE R1,R14,ASM0022 CONTINUE CHECKING GP99139 01450000	
0002C4	47F0	C248		00248		204	B ASM0010 LOOP UNTIL EOF OR 'ASM END' 01460000	
0002C8	4110	A843		01843		205	ASM0025 LA R1,EMSG26 SHOW CARD IGNORED GP99139 01470000	
0002CC	45E0	B6BE		006BE		206	BAL R14,PRINTMSG PRINT IT GP99139 01480000	
0002D0	47F0	C248		00248		207	B ASM0010 READ NEXT GP99139 01490000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002D4	9620	A269	01269		208	ASM0028	OI PGMFLAG,\$AFLUSH INDICATE END CARD FOUND	GP99139 01500000
0002D8	47F0	C248	00248		209		B ASM0010 AND LOOP AGAIN	GP99139 01510000
0002DC					210	ASM0030	DS OH	01520000
0002DC	9140	A269	01269		211		TM PGMFLAG,\$ASMOPEN ASSEMBLER DCB OPEN?	GP99139 01530000
0002E0	4780	C30A	0030A		212		BZ ASM0035 NO; OOPS	GP99139 01540000
0002E4	9120	A269	01269		213		TM PGMFLAG,\$AFLUSH END CARD ALREADY DONE?	GP99139 01550000
0002E8	4770	C30A	0030A		214		BNZ ASM0035 YES; DON'T WRITE AGAIN	GP99139 01560000
0002EC	9240	A93A	0193A		215		MVI CTLSTMT,C' '	GP99139 01570000
0002F0	D24E	A93B	A93A 0193B	0193A	216		MVC CTLSTMT+1(79),CTLSTMT BLANK IT	GP99139 01580000
0002F6	D202	A943	A24D 01943	0124D	217		MVC CTLSTMT+9(3),=C'END'	GP99139 01590000
					218		PUT SYSIN,CTLSTMT WRITE FINAL END CARD	GP99139 01600000
00030A					223	ASM0035	DS OH	GP99139 01610000
					224		ITRACE ID=ASMEND	01620000
000316	47F0	C0B0	000B0		227		B PARM0010 READ NEXT CONTROL STATEMENT	01630000
					228	*	-----	* 01640000
					229	*		* 01650000
					230	*	PROCESS BASE STATEMENTS	* 01660000
					231	*		* 01670000
					232	*	-----	* 01680000
00031A					233	BASE0000	DS OH	01690000
					234		ITRACE ID=BASE	01700000
000326	4110	A943	01943		237		LA R1,CTL10 REGISTER NAME'S ADDRESS	01710000
00032A	4590	CF84	00F84		238		BAL R9,REG0000 FIND REGISTER TABLE ENTRY	01720000
					239	*	-----	* 01730000
					240	*	R4 POINTS TO REGISTER TABLE ENTRY	* 01740000
					241	*	-----	* 01750000
00032E	4110	0008	00008		242		LA R1,8 MAX DIGITS	01760000
000332	4120	A94D	0194D		243		LA R2,CTL20 FIRST CHARACTER OF DISPLACEMENT	01770000
000336	4590	A0B2	010B2		244		BAL R9,HEX0000 CONVERT DISPLACEMENT TO HEX	01780000
00033A	D203	A25C	A273 0125C	01273	245		MVC SAVEBEGN,DISPOUT SAVE BEGINNING DISPLACEMENT	01790000
000340	D509	A957	B225 01957	00225	246		CLC CTL30,COMMBLKS ENDING DISPLACEMENT BLANK?	01800000
000346	4780	C36A	0036A		247		BE BASE0010 YES	01810000
00034A	4110	0008	00008		248		LA R1,8 MAX DIGITS	01820000
00034E	4120	A957	01957		249		LA R2,CTL30 FIRST CHARACTER OF DISPLACEMENT	01830000
000352	4590	A0B2	010B2		250		BAL R9,HEX0000 CONVERT DISPLACEMENT TO HEX	01840000
000356	D203	A260	A273 01260	01273	251		MVC SAVEEND,DISPOUT SAVE ENDING DISPLACEMENT	01850000
00035C	D503	A25C	A260 0125C	01260	252		CLC SAVEBEGN,SAVEEND BEGIN LARGER THAN END?	01860000
000362	4720	C3E8	003E8		253		BH BASE0060 YES.. INVALID	01870000
000366	47F0	C376	00376		254		B BASE0030	01880000
00036A					255	BASE0010	DS OH	01890000
00036A	5810	A25C	0125C		256		L R1,SAVEBEGN BEGINNING POINT	GP99172 01900000
00036E	4A10	A264	01264		257		AH R1,H4096 PLUS 4K	01910000
000372	5010	A260	01260		258		ST R1,SAVEEND SAVE ENDING POINT	GP99172 01920000
000376					259	BASE0030	DS OH	01930000
000376	4110	0008	00008		260		LA R1,8 MAX DIGITS	01940000
00037A	4120	A961	01961		261		LA R2,CTL40 FIRST CHARACTER OF DISPLACEMENT	01950000
00037E	4590	A0B2	010B2		262		BAL R9,HEX0000 CONVERT DISPLACEMENT TO HEX	01960000
000382	4150	B108	00108		263		LA R5,COMMBASE SET PREVIOUS FORWARD POINTER	01970000
000386	BF3F	B108	00108		264		ICM R3,15,COMMBASE FIRST BASE ENTRY	01980000
				00000	265		USING BASEDSCT,R3 DEFINE BASE	01990000
00038A	4780	C3A4	003A4		266		BZ BASE0050 NO BLOCK'S ON CHAIN	02000000
00038E					267	BASE0040	DS OH	02010000
00038E	D503	300C	A273 0000C	01273	268		CLC BASEBEGN,DISPOUT INSERT IT HERE?	02020000
000394	4740	C3A4	003A4		269		BL BASE0050 YES	02030000
000398	4150	3000	00000		270		LA R5,BASENEXT FORWARD POINTER'S ADDRESS	02040000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
00039C	BF3F	3000		00000	271		ICM R3,15,BASENEXT	NEXT BASE BLOCK			02050000
0003A0	4770	C38E		0038E	272		BNZ BASE0040	LOOP			02060000
0003A4	4100	001C		0001C	273	BASE0050	LA R0,BASEL		GP99140		02070000
0003A8	45E0	B684		00684	274		BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW BASE BLOCK			02080000
					275		ITRACE ID=NEWBASE, RDATA1=R1	NEW BLOCK ACQUIRED .. CAPTURE STORAGE ADDRESS			+02090000 02100000
0003BC	5010	5000		00000	279		ST R1,0(,R5)	CHAIN PREVIOUS BLOCK TO NEW BLOCK			02110000
0003C0	5030	1000		00000	280		ST R3,BASENEXT-BASEDSCT(,R1)	CHAIN NEXT BLOCK TO NEW BLOCK			02120000
0003C4	1831				281		LR R3,R1	SET BASE			02130000
0003C6	D207	3004	A9B1	00004	019B1	282	MVC BASEEYE,CNTLBASE	SET BLOCK IDENTIFIER			02140000
0003CC	D203	300C	A25C	0000C	0125C	283	MVC BASEBEGN,SAVEBEGN	SET STARTING DISPLACEMENT			02150000
0003D2	D203	3010	A260	00010	01260	284	MVC BASEEND,SAVEEND	SET ENDING DISPLACEMENT			02160000
0003D8	D200	3018	4003	00018	00003	285	MVC BASEREG,REGVALUE	SET BASE REGISTER			02170000
0003DE	D203	3014	A273	00014	01273	286	MVC BASEDISP,DISPOUT	SET DISPLACEMENT BASE REFERS TO			02180000
0003E4	47F0	C0B0		000B0	287		B PARM0010	READ NEXT CONTROL STATEMENT			02190000
0003E8					288	BASE0060	DS OH				02200000
0003E8	D24C	B710	A77B	00710	0177B	289	MVC PRTDATA(EMSG23L),EMSG23				02210000
0003EE	96C0	B163		00163	290		OI COMMFLAG,\$ERROR+\$ABORT				02220000
0003F2	4590	A12C		0112C	291		BAL R9,PRT0000	PRINT MESSAGE			02230000
0003F6	47F0	C0B0		000B0	292		B PARM0010	READ NEXT CONTROL STATEMENT			02240000
					293	*	-----		*		02250000
					294	*			*		02260000
					295	*	PROCESS CSECT STATEMENTS		*		02270000
					296	*			*		02280000
					297	*	-----		*		02290000
0003FA					298	CSCT0000	DS OH				02300000
					299		ITRACE ID=CSCTNAME, DATA1=CTLDDATA	CSECT NAME			+02310000 02320000
000410	D207	B14C	A943	0014C	01943	304	MVC COMMCSNM,CTLDDATA	SET CSECT NAME			02330000
000416	47F0	C0B0		000B0	305		B PARM0010				02340000
					306	*	-----		*		02350000
					307	*			*		02360000
					308	*	PROCESS DATA STATEMENTS		*		02370000
					309	*			*		02380000
					310	*	-----		*		02390000
00041A					311	DATA0000	DS OH				02400000
					312		ITRACE ID=DATA				02410000
000426	4110	0008		00008	315		LA R1,8	MAX DIGITS			02420000
00042A	4120	A943		01943	316		LA R2,CTL10	FIRST CHARACTER OF DISPLACEMENT			02430000
00042E	4590	A0B2		010B2	317		BAL R9,HEX0000	CONVERT DISPLACEMENT TO HEX			02440000
000432	D203	A25C	A273	0125C	01273	318	MVC SAVEBEGN,DISPOUT	SAVE BEGINNING DISPLACEMENT			02450000
000438	4110	0008		00008	319		LA R1,8	MAX DIGITS			02460000
00043C	4120	A94D		0194D	320		LA R2,CTL20	FIRST CHARACTER OF END DISP			02470000
000440	4590	A0B2		010B2	321		BAL R9,HEX0000	CONVERT END DISP TO HEX			02480000
000444	D503	A25C	A273	0125C	01273	322	CLC SAVEBEGN,DISPOUT	VALID RANGE ?	GP05168		0249

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00046E	47F0	C50A		0050A	333		B DATA0040	OVERLAPS PREVIOUSLY DEFINED AREA 02600000
000472					334	DATA0020	DS OH	02610000
000472	4120	3000		00000	335		LA R2,DATANEXT	FORWARD POINTER ADDRESS 02620000
000476	BF3F	3000		00000	336		ICM R3,15,DATANEXT	NEXT DATA BLOCK 02630000
00047A	4770	C45A		0045A	337		BNZ DATA0010	LOOP 02640000
00047E	4100	0030		00030	338	DATA0030	LA R0,DATAL	GP99140 02650000
000482	45E0	B684		00684	339		BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW DATA BLOCK 02660000
					340		ITRACE ID=NEWDATA,	NEW DATA BLOCK ADQUIRED +02670000
							RDATA1=R1	.. NEW BLOCK'S ADDRESS 02680000
000496	5010	2000		00000	344		ST R1,0(,R2)	PREVIOUS BLOCK TO NEW BLOCK 02690000
00049A	5030	1000		00000	345		ST R3,DATANEXT-DATADSCT(,R1)	CHAIN NEXT BLOCK TO NEW BLOCK 02700000
00049E	1831				346		LR R3,R1	SET BASE REG 02710000
0004A0	D207	3004	A9D8	00004	019D8	347	MVC DATAEYE,CNTLDATA	SET BLOCK IDENTIFIER 02720000
0004A6	D203	301C	A25C	0001C	0125C	348	MVC DATABEGN,SAVEBEGN	SET BEGINNING DISPLACEMENT 02730000
0004AC	D203	3020	A273	00020	01273	349	MVC DATAEND,DISPOUT	SET ENDING DISPLACEMENT 02740000
0004B2	5810	3020		00020	350		L R1,DATAEND	ENDING DISPLACEMENT GP99172 02750000
0004B6	5B10	301C		0001C	351		S R1,DATABEGN	BEGINNING DISPLACEMENT GP99172 02760000
0004BA	4110	1001		00001	352		LA R1,1(,R1)	TOTAL LENGTH 02770000
0004BE	5010	3024		00024	353		ST R1,DATALEN SET LENGTH	GP99172 02780000
0004C2	4010	3028		00028	354		STH R1,DATAILEN SET LENGTH	GP99172 02790000
0004C6	9201	302B		0002B	355		MVI DATATYPE,\$DATAUSR	USER DEFINED DATA AREA 02800000
0004CA	95C4	A93A		0193A	356		CLI CTLTYPE,C'D' INVOKED WITH DATA ?	GP10029 02810000
0004CE	4780	C4D6		004D6	357		BE *+8 YES	GP10029 02820000
0004D2	9202	302B		0002B	358		MVI DATATYPE,\$DATADS	DEFINE AS DS FILLER GP10029 02830000
0004D6	9608	B168		00168	359		OI COMMOPFG,\$OFZERO	REMEMBER USE OF FILLER GP10066 02840000
0004DA	D207	300C	B225	0000C	00225	360	MVC DATANAME,COMMBLKS	INITIALIZE NAME 02850000
					361	*OBS*	XC DATALBA,DATALBA	INITIALIZE DATA BLOCK'S ADDRESS 02860000
0004E0	9540	A957		01957	362		CLI CTL30,C' ' USER SPECIFIED DATA TYPE?	GP99169 02870000
0004E4	47D0	C0B0		000B0	363		BNH PARM0010 NO	GP99169 02880000
0004E8	D200	302A	A957	0002A	01957	364	MVC DATAASMT,CTL30	ELSE SAVE IT GP99169 02890000
0004EE	9540	A961		01961	365		CLI CTL40,C' ' USER SPECIFIED ITEM LENGTH?	GP99169 02900000
0004F2	47D0	C0B0		000B0	366		BNH PARM0010 NO	GP99169 02910000
0004F6	4110	0005		00005	367		LA R1,5 MAX LENGTH	GP99172 02920000
0004FA	4120	A961		01961	368		LA R2,CTL40 POINT TO ITEM LENGTH	GP99172 02930000
0004FE	4590	A076		01076	369		BAL R9,INTG000	CONVERT TO INTEGER GP99172 02940000
000502	4000	3028		00028	370		STH R0,DATAILEN	SET ITEM LENGTH GP99172 02950000
000506	47F0	C0B0		000B0	371		B PARM0010	READ NEXT CONTROL STATEMENT 02960000
00050A					372	DATA0040	DS OH	02970000
					373		ITRACE ID=DATAOVLP	DATA AREA OVERLAP 02980000
000516	F342	A76E	301E	0176E	0001E	376	UNPK MSG22A(5),DATABEGN+2(3)	GP10037 02990000
00051C	DC03	A76E	B185	0176E	00185	377	TR MSG22A,COMMHXTR	TRANSLATE TO PRINTABLE 03000000
000522	9240	A772		01772		378	MVI MSG22A+4,C' '	RESTORE BLANK 03010000
000526	F342	A776	3022	01776	00022	379	UNPK MSG22B(5),DATAEND+2(3)	UNPACK END DISPLACEMENT GP10037 03020000
00052C	DC03	A776	B185	01776	00185	380	TR MSG22B,COMMHXTR	TRANSLATE TO PRINTABLE 03030000
000532	9240	A77A		0177A		381	MVI MSG22B+4,C' '	RESTORE BLANK 03040000
000536	D233	B710	A747	00710	01747	382	MVC PRTDATA(EMSG22L),EMSG22	03050000
00053C	96C0	B163		00163		383	OI COMMFLAG,\$ERROR+\$ABORT	03060000
000540	4590	A12C		0112C		384	BAL R9,PRT0000	PRINT MESSAGE 03070000
000544	47F0	C0B0		000B0	385		B PARM0010	READ NEXT CONTROL STATEMENT 03080000
					386	*	-----	* 03090000
					387	*		* 03100000
					388	*	LABEL STATEMENTS - DEFINE USER LABELS	* 03110000
					389	*		* 03120000
					390	*	-----	* 03130000
000548					391	LABL0000	DS OH	GP99134 03140000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000548	9540	A943	01943		392	CLI	CTL10,C' ' LABEL SPECIFIED?	GP99139 03150000
00054C	4780	C612	00612		393	BE	LABL9990 NO; FAIL	GP99139 03160000
000550	D503	A240	A943 01240	01943	394	CLC	=C'DATA',CTL10 RESERVED WORD ?	GP99139 03170000
000556	4780	C612	00612		395	BE	LABL9990 YES; FAIL	GP99139 03180000
00055A	4110	0008	00008		396	LA	R1,8 MAX DIGITS	GP99139 03190000
00055E	4120	A94D	0194D		397	LA	R2,CTL20 FIRST CHARACTER OF DISPLACEMENT	03200000
000562	4590	A0B2	010B2		398	BAL	R9,HEX0000 CONVERT DISPLACEMENT TO HEX	03210000
					399	ITRACE	ID=ADDLABEL, CSECT REFERENCE	+03220000
							DATA1=DISPOUT .. DISPLACEMENT REFERENCED	GP99139 03230000
00057C	4130	B118	00118		404	LA	R3,COMMLABL FORWARD POINTER'S ADDRESS	GP99139 03240000
000580	BF9F	B118	00118		405	ICM	R9,15,COMMLABL FIRST CSECT LABEL	GP99139 03250000
				00000	406	USING	LABLDSCT,R9 DEFINE BASE	GP99139 03260000
000584	4780	C5A2	005A2		407	BZ	LABL1170 INSERT ON END OF CHAIN	GP99139 03270000
000588					408	DS	OH	GP99139 03280000
000588	D503	9014	A273 00014	01273	409	CLC	LABLDISP,DISPOUT TEST DISPLACEMENT	GP99139 03290000
00058E	4780	C60A	0060A		410	BE	LABL1190 DUPLICATE	GP99139 03300000
000592	4720	C5A2	005A2		411	BH	LABL1170 INSERT NEW NAME HERE	GP99139 03310000
000596	4130	9000	00000		412	LA	R3,LABLNEXT CURRENT BLOCK'S FWD POINTER ADDR	03320000
00059A	BF9F	9000	00000		413	ICM	R9,15,LABLNEXT NEXT CSECT LABEL	GP99139 03330000
00059E	4770	C588	00588		414	BNZ	LABL1160 LOOP	GP99139 03340000
0005A2	4100	0024	00024		415	LABL1170 LA	R0,LABLL	GP99139 03350000
0005A6	45E0	B684	00684		416	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW LABL BLOCK	03360000
					417	ITRACE	ID=NEWLABL, NEW CSECT LABEL	+03370000
							RDATA1=R1, .. BLOCK'S ADDRESS	+03380000
							DATA2=DISPOUT .. LABEL'S DISPLACEMENT	GP99139 03390000
0005C4	5010	3000	00000		423	ST	R1,LABLNEXT-LABLDSCT(,R3) PREVIOUS BLOCK'S FWD POINTER	03400000
0005C8	5090	1000	00000		424	ST	R9,LABLNEXT-LABLDSCT(,R1) NEXT BLOCK'S ADDRESS	GP99139 03410000
0005CC	1891				425	LR	R9,R1 SET BASE	GP99139 03420000
0005CE	92E4	9022	00022		426	MVI	LABLSRCE,\$LABLU SHOW SUPPLIED BY USER	GP99139 03430000
0005D2	D207	9004	A238 00004	01238	427	MVC	LABLEYE,=CL8'LABL' SET BLOCK ID	GP99139 03440000
0005D8	D207	900C	A943 0000C	01943	428	MVC	LABLNAME,CTL10 SET LABEL'S NAME	GP99139 03450000
0005DE	D203	9014	A273 00014	01273	429	MVC	LABLDISP,DISPOUT SET DISPLACEMENT	GP99139 03460000
0005E4	D200	9021	A957 00021	01957	430	MVC	LABLTYPE,CTL30 MOVE POSSIBLE TYPE	GP99139 03470000
0005EA	9540	A957	01957		431	CLI	CTL30,C' ' USER SPECIFIED TYPE?	GP99139 03480000
0005EE	4770	C602	00602		432	BNE	LABL1180	GP99139 03490000
0005F2	95C4	9021	00021		433	CLI	LABLTYPE,C'D' DATA?	GP99139 03500000
0005F6	4780	C0B0	000B0		434	BE	PARM0010 YES; PROCESS	GP99139 03510000
0005FA	95C9	9021	00021		435	CLI	LABLTYPE,C'I' INSTRUCTION?	GP99139 03520000
0005FE	4780	C0B0	000B0		436	BE	PARM0010 YES; PROCESS	GP99139 03530000
000602	92E4	9021	00021		437	LABL1180 MVI	LABLTYPE,\$LABLU SET LABEL TYPE - USER'S	GP99139 03540000
000606	47F0	C0B0	000B0		438	B	PARM0010	GP99134 03550000
00060A	4110	A816	01816		439	LABL1190 LA	R1,MSG25 SET DUPLICATE OR OVERLAPPING	GP99139 03560000
00060E	47F0	C616	00616		440	B	LABL9995	GP99139 03570000
000612	4110	A7C8	017C8		441	LABL9990 LA	R1,MSG24 SET MALFORMED	GP99139 03580000
000616	96C0	B163	00163		442	LABL9995 OI	COMMFLAG,\$ERROR+\$ABORT NOT GOOD	GP99139 03590000
00061A	45E0	B6BE	006BE		443	BAL	R14,PRINTMSG PRINT ERROR MESSAGE	GP99139 03600000
00061E	47F0	C0B0	000B0		444	B	PARM0010	GP99134 03610000
					445	*	-----	* 03620000
					446	*		* 03630000
					447	*	LINE COUNT STATEMENTS	* 03640000
					448	*		* 03650000
					449	*	-----	* 03660000
000622					450	LINE0000 DS	OH	03670000
					451	ITRACE	ID=LINES	03680000
00062E	D202	A279	A278 01279	01278	454	MVC	LINEIN,LINEIN-1 INITIALIZE WITH ZEROS	03690000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000634	4110	A943		01943	455		LA R1,CTL10	FIRST DIGIT 03700000
000638	4120	0003		00003	456		LA R2,3	MAX DIGITS 03710000
00063C					457	LINE0010	DS OH	03720000
00063C	9540	1000		00000	458		CLI 0(R1),C' '	BLANK 03730000
000640	4780	C668		00668	459		BE LINE0020	YES 03740000
000644	95F0	1000		00000	460		CLI 0(R1),C'0'	INVALID DIGIT? 03750000
000648	4740	C68C		0068C	461		BL LINE0030	YES 03760000
00064C	95F9	1000		00000	462		CLI 0(R1),C'9'	INVALID DIGIT? 03770000
000650	4720	C68C		0068C	463		BH LINE0030	YES 03780000
000654	D201	A279	A27A	01279	0127A	464	MVC LINEIN(L'LINEIN-1),LINEIN+1	SHIFT DIGITS LEFT 1 03790000
00065A	D200	A27B	1000	0127B	00000	465	MVC LINEIN+2(1),0(R1)	INSERT IN LOW ORDER POSITION 03800000
000660	4110	1001		00001	466		LA R1,1(R1)	NEXT DIGIT 03810000
000664	4620	C63C		0063C	467		BCT R2,LINE0010	LOOP 03820000
000668					468	LINE0020	DS OH	03830000
000668	D505	1000	B225	00000	00225	469	CLC 0(6,R1),COMMBLKS	SEVERAL TRAILING BLANKS? 03840000
00066E	4770	C69E		0069E	470		BNE LINE0040	NO 03850000
000672	F222	A27C	A279	0127C	01279	471	PACK LINEOUT,LINEIN	PACK LINE COUNT 03860000
000678	F922	A27C	A266	0127C	01266	472	CP LINEOUT,PMIN	LESS THAN MINIMUM? 03870000
00067E	4740	C6B0		006B0	473		BL LINE0050	YES 03880000
000682	F822	B15E	A27C	0015E	0127C	474	ZAP COMMMAXL,LINEOUT	SET MAX LINE COUNT 03890000
000688	47F0	C0B0		000B0	475		B PARM0010	READ NEXT CONTROL STATEMENT 03900000
00068C					476	LINE0030	DS OH	03910000
00068C	D239	B710	A58C	00710	0158C	477	MVC PRTDATA(EMSG16L),EMSG16	03920000
000692	96C0	B163		00163	478		OI COMMFLAG,\$ERROR+\$ABORT	03930000
000696	4590	A12C		0112C	479		BAL R9,PRT0000	PRINT MESSAGE 03940000
00069A	47F0	C0B0		000B0	480		B PARM0010	03950000
00069E					481	LINE0040	DS OH	03960000
00069E	D264	B710	A5C6	00710	015C6	482	MVC PRTDATA(EMSG17L),EMSG17	03970000
0006A4	96C0	B163		00163	483		OI COMMFLAG,\$ERROR+\$ABORT	03980000
0006A8	4590	A12C		0112C	484		BAL R9,PRT0000	PRINT MESSAGE 03990000
0006AC	47F0	C0B0		000B0	485		B PARM0010	04000000
0006B0					486	LINE0050	DS OH	04010000
0006B0	D255	B710	A62B	00710	0162B	487	MVC PRTDATA(EMSG18L),EMSG18	04020000
0006B6	96C0	B163		00163	488		OI COMMFLAG,\$ERROR+\$ABORT	04030000
0006BA	4590	A12C		0112C	489		BAL R9,PRT0000	PRINT MESSAGE 04040000
0006BE	47F0	C0B0		000B0	490		B PARM0010	04050000
					491	*	-----	* 04060000
					492	*		* 04070000
					493	*	PROCESS MODULE STATEMENTS	* 04080000
					494	*		* 04090000
					495	*	-----	* 04100000
0006C2					496	MOD0000	DS OH	04110000
					497		ITRACE ID=MODNAME, MODULE NAME	+04120000
							DATA1=CTLDATA	04130000
0006D8	D207	B144	A943	00144	01943	502	MVC COMMMOD,CTLDATA	SET MODULE NAME 04140000
0006DE	9540	A94D		0194D	503		CLI CTL20,C' ' SECOND PARAMETER PRESENT ?	GP99149 04150000
0006E2	4780	C0B0		000B0	504		BE PARM0010 NO	GP99149 04160000
0006E6	D207	B14C	A94D	0014C	0194D	505	MVC COMMCSNM,CTL20	TREAT AS CSECT NAME GP99149 04170000
0006EC	47F0	C0B0		000B0	506		B PARM0010	04180000
					507	*	-----	* 04190000
					508	*		* 04200000
					509	*	PREFIX STATEMENTS (LABEL NOW DEFINES USER LABELS)	* 04210000
					510	*		* 04220000
					511	*	-----	* 04230000
0006F0					512	PRFX0000	DS OH	GP99134 04240000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48	07/11/18
					513		ITRACE ID=PREFIX	GP99134	04250000
0006FC	D503	B169	B225	00169	00225	516	CLC COMMPFX,COMMBLKS	PREFIX STILL BLANK?	GP99134 04260000
000702	4770	C74E		0074E		517	BNE PRFX0030	NO.. DUPLICATED	GP99134 04270000
000706	9540	A943		01943		518	CLI CTL10,C' '	PREFIX BLANK?	GP99134 04280000
00070A	4780	C760		00760		519	BE PRFX0040	YES.. INVALID	GP99134 04290000
00070E	D503	A943	A9D8	01943	019D8	520	CLC CTL10(4),CNTLDATA	PREFIX 'DATA'?	GP99134 04300000
000714	4780	C772		00772		521	BE PRFX0050	YES.. NOT VALID	GP99134 04310000
000718	4110	A943		01943		522	LA R1,CTL10	FIRST CHARACTER OF PREFIX	GP99134 04320000
00071C	4120	0004		00004		523	LA R2,4	MAXIMUM LENGTH	GP99134 04330000
000720	1B33					524	SR R3,R3	INITIALIZE FOR LENGTH	GP99134 04340000
000722						525	PRFX0010 DS OH		GP99134 04350000
000722	9540	1000		00000		526	CLI O(R1),C' '	BLANK?	GP99134 04360000
000726	4780	C736		00736		527	BE PRFX0020	YES	GP99134 04370000
00072A	4110	1001		00001		528	LA R1,1(,R1)	NEXT	GP99134 04380000
00072E	4130	3001		00001		529	LA R3,1(,R3)	ADD 1 TO LENGTH	GP99134 04390000
000732	4620	C722		00722		530	BCT R2,PRFX0010	LOOP	GP99134 04400000
000736						531	PRFX0020 DS OH		GP99134 04410000
000736	D503	B225	1000	00225	00000	532	CLC COMMBLKS(4),O(R1)	A FEW BLANKS?	GP99134 04420000
00073C	4770	C784		00784		533	BNE PRFX0060	NO	GP99134 04430000
000740	D203	B169	A943	00169	01943	534	MVC COMMPFX,CTL10	SET PREFIX	GP99134 04440000
000746	4030	B156		00156		535	STH R3,COMMPFXL	SET PREFIX LENGTH	GP99134 04450000
00074A	47F0	C0B0		000B0		536	B PARM0010	READ NEXT CONTROL STATEMENT	04460000
00074E						537	PRFX0030 DS OH		GP99134 04470000
00074E	96C0	B163		00163		538	OI COMMFLAG,\$ERROR+\$ABORT		GP99134 04480000
000752	D243	B710	A681	00710	01681	539	MVC PRTDATA(EMSG19L),EMSG19		GP99134 04490000
000758	4590	A12C		0112C		540	BAL R9,PRT0000	PRINT MESSAGE	GP99134 04500000
00075C	47F0	C0B0		000B0		541	B PARM0010	READ NEXT CONTROL STATEMENT	04510000
000760						542	PRFX0040 DS OH		GP99134 04520000
000760	96C0	B163		00163		543	OI COMMFLAG,\$ERROR+\$ABORT		GP99134 04530000
000764	D222	B710	A48D	00710	0148D	544	MVC PRTDATA(EMSG11L),EMSG11		GP99134 04540000
00076A	4590	A12C		0112C		545	BAL R9,PRT0000	PRINT MESSAGE	GP99134 04550000
00076E	47F0	C0B0		000B0		546	B PARM0010	READ NEXT CONTROL STATEMENT	04560000
000772						547	PRFX0050 DS OH		GP99134 04570000
000772	96C0	B163		00163		548	OI COMMFLAG,\$ERROR+\$ABORT		GP99134 04580000
000776	D24B	B710	A540	00710	01540	549	MVC PRTDATA(EMSG15L),EMSG15		GP99134 04590000
00077C	4590	A12C		0112C		550	BAL R9,PRT0000	PRINT MESSAGE	GP99134 04600000
000780	47F0	C0B0		000B0		551	B PARM0010	READ NEXT CONTROL STATEMENT	04610000
000784						552	PRFX0060 DS OH		GP99134 04620000
000784	96C0	B163		00163		553	OI COMMFLAG,\$ERROR+\$ABORT		GP99134 04630000
000788	D230	B710	A4B0	00710	014B0	554	MVC PRTDATA(EMSG12L),EMSG12		GP99134 04640000
00078E	4590	A12C		0112C		555	BAL R9,PRT0000	PRINT MESSAGE	GP99134 04650000
000792	47F0	C0B0		000B0		556	B PARM0010	READ NEXT CONTROL STATEMENT	04660000
					557	*	-----	*	04670000
					558	*		*	04680000
					559	*	OPTIONS STATEMENTS - DEFINE (MINOR) PROCESSING OPTIONS	*	04690000
					560	*		*	04700000
					561	*	ABSR EXPAND REGISTERS AS 0-15 RATHRE THAN R0-R15	*	04710000
					562	*	BC EXPAND BC AS BC, BCR AS BCR; DON'T USE MNEMONICS	*	04720000
					563	*	IXSWAP TREAT DDD(X,0) AS DDD(0,X) FOR LABEL LOOKUP	*	04730000
					564	*	LOWER ACCEPT LOWER CASE IN CHARACTER DATA (ELSE GEN AS HEX)	*	04740000
					565	*	PLS EXPAND REGISTERS AS @nn (PL/S, BLS STYLE)	*	04750000
					566	*	ROUND INCREASE CSECT LENGTH TO MULTIPLE OF EIGHT	*	04760000
					567	*	S360 USE SYSTEM/360 UNIVERSAL INSTRUCTIONS (NO SSM, NO I/O)	*	04770000
					568	*	S370 (DEFAULT) USE S/370 INSTRUCTION SET (NO SSM, NO I/O)	*	04780000
					569	*	S390 USE S/390 INSTRUCTION SET (NO I/O, ETC)	*	04790000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					570 *		* 04800000
					571 * -----		* 04810000
					572 OPTS000	ITRACE ID=OPTIONS	GP08063 04820000
0007A2	4110	A93B	0193B		575	LA R1,CTLTYPE+1	GP08063 04830000
0007A6	4120	0001	00001		576	LA R2,1 INCREMENT	GP08063 04840000
0007AA	4130	A97F	0197F		577	LA R3,CTL70	GP08063 04850000
0007AE	9540	1000	00000		578 OPTS0010	CLI 0(R1),C' ' LEADING BLANK YET?	GP08063 04860000
0007B2	4780	C7BE	007BE		579	BE OPTS0020 YES; NOW GET NON-BLANK	GP08063 04870000
0007B6	8712	C7AE	007AE		580	BXLE R1,R2,OPTS0010 TRY AGAIN	GP08063 04880000
0007BA	47F0	CAD0	00AD0		581	B PRNT0099 COMPLAIN AND IGNORE	GP08063 04890000
0007BE	9540	1000	00000		582 OPTS0020	CLI 0(R1),C' ' NON-BLANK?	GP08063 04900000
0007C2	4770	C7CE	007CE		583	BNE OPTS0030 YES; START COMPARE	GP08063 04910000
0007C6	8712	C7BE	007BE		584	BXLE R1,R2,OPTS0020 TRY AGAIN	GP08063 04920000
0007CA	47F0	C0B0	000B0		585	B PARM0010	GP08063 04930000
0007CE	9857	C870	00870		586 OPTS0030	LM R5,R7,TABOPTS GET OPTION TABLE	GP08063 04940000
0007D2	1BFF				587	SR R15,R15 CLEAR FOR LENGTH IC	GP08063 04950000
0007D4	43F0	5000	00000		588 OPTS0040	IC R15,0(,R5) GET VERB LENGTH	GP08063 04960000
0007D8	44F0	CAF4	00AF4		589	EX R15,EXPRTCLC LOOK FOR MATCH	GP08063 04970000
0007DC	4780	C812	00812		590	BE OPTS0100 WOW	GP08234 04980000
0007E0	8756	C7D4	007D4		591	BXLE R5,R6,OPTS0040 TRY AGAIN	GP08063 04990000
0007E4	9857	C934	00934		592 OPTS0050	LM R5,R7,TABOPCS GET OPTION TABLE	GP09181 05000000
0007E8	1BFF				593	SR R15,R15 CLEAR FOR LENGTH IC	GP09181 05010000
0007EA	43F0	5000	00000		594 OPTS0060	IC R15,0(,R5) GET VERB LENGTH	GP09181 05020000
0007EE	44F0	CAF4	00AF4		595	EX R15,EXPRTCLC LOOK FOR MATCH	GP09181 05030000
0007F2	4780	C81E	0081E		596	BE OPTS0120 WOW	GP09181 05040000
0007F6	8756	C7EA	007EA		597	BXLE R5,R6,OPTS0060 TRY AGAIN	GP09181 05050000
0007FA	D229	B710	A877 00710	01877	598 OPTS0099	MVC PRTDATA(EMSG33L),EMSG33 INVALID OPTION	GP09181 05060000
000800	927A	B73B	0073B		599	MVI PRTDATA+EMSG33L+1,C':'	GP09181 05070000
000804	D207	B73D	1000 0073D	00000	600	MVC PRTDATA+EMSG33L+3(8),0(R1)	GP09181 05080000
00080A	4590	A12C	0112C		601	BAL R9,PRT0000	GP08063 05090000
00080E	47F0	C0B0	000B0		602	B PARM0010 IGNORE REMAINDER	GP08063 05100000
000812	D601	B168	5001 00168	00001	603 OPTS0100	OC COMMPFG(2),1(R5) SET FLAG FOR THIS OPTION	GP08063 05110000
000818	1A1F				604	AR R1,R15 SKIP OVER MATCHED TEXT	GP08063 05120000
00081A	47F0	C7AE	007AE		605	B OPTS0010 GET NEXT SPACE AND OPERAND	GP08063 05130000
00081E	1B66				606 OPTS0120	SR R6,R6 CLEAR FOR IC	GP09181 05140000
000820	BF63	5001	00001		607	ICM R6,3,1(R5) LOAD TABLE DISPLACEMENT	GP09181 05150000
000824	4740	C846	00846		608	BM OPTS0140 LOWER CASE TABLES	GP09181 05160000
000828	5876	C9B8	009B8		609	L R7,TAB@OPCD(R6) LOAD OPCODE TABLE ADDRESS	GP09181 05170000
00082C	1277				610	LTR R7,R7 RESOLVED?	GP09181 05180000
00082E	4780	C7FA	007FA		611	BZ OPTS0099 NO; FAIL	GP09181 05190000
000832	4160	B0A4	000A4		612	LA R6,AOP-8 GET OPERATIONS ENTRY IN COMMON	GP09181 05200000
000836	D207	6000	5003 00000	00003	613	MVC 0(8,R6),3(R5) REPEAT ENTRY	GP09181 05210000
00083C	5070	6008	00008		614	ST R7,8(,R6) SET NEW TABLE ADDRESS	GP09181 05220000
000840	1A1F				615	AR R1,R15 SKIP OVER MATCHED TEXT	GP09181 05230000
000842	47F0	C7AE	007AE		616	B OPTS0010 GET NEXT SPACE AND OPERAND	GP09181 05240000
000846	D708	B348	B348 00348	00348	617 OPTS0140	XC COMMPRT+X'81'(9),COMMPRT+X'81' ENABLE L.C. A-I	GP09181 05250000
00084C	D708	B358	B358 00358	00358	618	XC COMMPRT+X'91'(9),COMMPRT+X'91' ENABLE L.C. J-R	GP09181 05260000
000852	D707	B369	B369 00369	00369	619	XC COMMPRT+X'A2'(8),COMMPRT+X'A2' ENABLE L.C. S-Z	GP09181 05270000
000858	D208	B448	A250 00448	01250	620	MVC COMMPRT+X'81'(9),=9X'FF' ENABLE L.C. A-I	GP09181 05280000
00085E	D208	B458	A250 00458	01250	621	MVC COMMPRT+X'91'(9),=9X'FF' ENABLE L.C. J-R	GP09181 05290000
000864	D207	B469	A250 00469	01250	622	MVC COMMPRT+X'A2'(8),=9X'FF' ENABLE L.C. S-Z	GP09181 05300000
00086A	1A1F				623	AR R1,R15 SKIP OVER MATCHED TEXT	GP09181 05310000
00086C	47F0	C7AE	007AE		624	B OPTS0010 GET NEXT SPACE AND OPERAND	GP09181 05320000
000870	0000087C00000000D				625 TABOPTS	DC A(TABOPT1,TABOPT2-TABOPT1,TABOPTL)	GP08063 05330000
00087C	068000C9E7E2E6C1				626 TABOPT1	DC AL1(06,\$OFIXSWP,0),CL10'IXSWAP'	GP08234 05340000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
000889	058000C9E7E2E6D7				627	TABOPT2	DC AL1(05,\$OFIXSWP,0),CL10'IXSWP		GP08234	05350000	
000896	068000E2E6C1D7C9				628		DC AL1(06,\$OFIXSWP,0),CL10'SWAPIX		GP08234	05360000	
0008A3	074000C6C9E7E2C5				629		DC AL1(07,\$OFNOBLK,0),CL10'FIXSECT		GP10074	05370000	
0008B0	051000D9D6E4D5C4				630		DC AL1(05,\$OFROUND,0),CL10'ROUND		GP10069	05380000	
0008BD	020100C2C3404040				631		DC AL1(02,\$OFBCOP,0),CL10'BC		GP10029	05390000	
0008CA	030100C2C3D94040				632		DC AL1(03,\$OFBCOP,0),CL10'BCR		GP10029	05400000	
0008D7	040100C2C3D6D740				633		DC AL1(04,\$OFBCOP,0),CL10'BCOP		GP10029	05410000	
0008E4	080100C2C3D6D7C3				634		DC AL1(08,\$OFBCOP,0),CL10'BCOPCODE		GP10029	05420000	
0008F1	030200D7D3E24040				635		DC AL1(03,\$OFPLSR,0),CL10'PLS	REGS AS @NN	GP10055	05430000	
0008FE	030200D9C1E34040				636		DC AL1(03,\$OFPLSR,0),CL10'RAT		GP10055	05440000	
00090B	040400C1C2E2D940				637		DC AL1(04,\$OFABSR,0),CL10'ABSR	REGS AS NN	GP10029	05450000	
000918	040400C1D9C5C740				638		DC AL1(04,\$OFABSR,0),CL10'AREG		GP10029	05460000	
000925	060400C1C2E2D9C5				639	TABOPTL	DC AL1(06,\$OFABSR,0),CL10'ABSREG		GP10029	05470000	
000932	0000										
000934	0000094000000000D				640	TABOPCS	DC A(TABOPC1,TABOPC2-TABOPC1,TABOPCL)		GP09181	05480000	
000940	040000E2F3F6F040				641	TABOPC1	DC AL1(04,0,0),CL10'S360		GP09181	05490000	
00094D	050000E261F3F6F0				642	TABOPC2	DC AL1(05,0,0),CL10'S/360		GP09181	05500000	
00095A	040004E2F3F7F040				643		DC AL1(04,0,4),CL10'S370		GP09181	05510000	
000967	050004E261F3F7F0				644		DC AL1(05,0,4),CL10'S/370		GP09181	05520000	
000974	040008E2F3F9F040				645		DC AL1(04,0,8),CL10'S390		GP09181	05530000	
000981	050008E261F3F9F0				646		DC AL1(05,0,8),CL10'S/390		GP10015	05540000	
00098E	058000D3D6E6C5D9				647		DC AL1(05,128,0),CL10'LOWER		GP09181	05550000	
00099B	058000E4D7D3D6E6				648		DC AL1(05,128,0),CL10'UPLOW		GP09181	05560000	
0009A8	050008E261F3F9F0				649	TABOPCL	DC AL1(05,0,8),CL10'S/390		GP09181	05570000	
					650		WXTRN DISOP360,DISOP370,DISOP390		GP09181	05580000	
0009B5	000000										
0009B8	00000000000000000				651	TAB@OPCD	DC A(DISOP360,DISOP370,DISOP390)	360/370/390	GP09181	05590000	
					653	*	-----		*	05610000	
					654	*			*	05620000	
					655	*	OPCODE STATEMENT - LOAD EXTERNAL OPCODE DEFINITIONS		*	05630000	
					656	*			*	05640000	
					657	*	-----		*	05650000	
					658	OPCD000	ITRACE ID=OPCODES		GP10015	05660000	
0009D0	4110 A93B	0193B			661		LA R1,CTLTYPE+1		GP10015	05670000	
0009D4	4120 0001	00001			662		LA R2,1 INCREMENT		GP10015	05680000	
0009D8	4130 A97F	0197F			663		LA R3,CTL70		GP10015	05690000	
0009DC	9540 1000	00000			664	OPCD0010	CLI 0(R1),C' ' LEADING BLANK YET?		GP10015	05700000	
0009E0	4780 C9EC	009EC			665		BE OPCD0020 YES; NOW GET NON-BLANK		GP10015	05710000	
0009E4	8712 C9DC	009DC			666		BXLE R1,R2,OPCD0010 TRY AGAIN		GP10015	05720000	
0009E8	47F0 CAD0	00AD0			667		B PRNT0099 COMPLAIN AND IGNORE		GP10015	05730000	
0009EC	9540 1000	00000			668	OPCD0020	CLI 0(R1),C' ' NON-BLANK?		GP10015	05740000	
0009F0	4770 C9FC	009FC			669		BNE OPCD0030 YES; START COMPARE		GP10015	05750000	
0009F4	8712 C9EC	009EC			670		BXLE R1,R2,OPCD0020 TRY AGAIN		GP10015	05760000	
0009F8	47F0 CA6A	00A6A			671		B OPCD0099		GP10015	05770000	
0009FC	D207 B000	B225 00000	00225		672	OPCD0030	MVC COMMDWRD,COMMBLKS CLEAR MODULE NAME		GP10015	05780000	
000A02	1871				673		LR R7,R1 REMEMBER THE START		GP10015	05790000	
000A04	41E0 B000	00000			674		LA R14,COMMDWRD		GP10015	05800000	
000A08	4130 1007	00007			675		LA R3,7(,R1) SET FOR MAXIMUM LENGTH		GP10015	05810000	
000A0C	9540 1000	00000			676	OPCD0040	CLI 0(R1),C' ' TRAILING BLANK ?		GP10015	05820000	
000A10	4780 CA20	00A20			677		BE OPCD0050 YES; TRY TO LOAD IT		GP10015	05830000	
000A14	D200 E000	1000 00000	00000		678		MVC 0(1,R14),0(R1) DO IT THE SLOW WAY		GP10015	05840000	
000A1A	1AE2				679		AR R14,R2 BUMP OUTPUT		GP10015	05850000	
000A1C	8712 CA0C	00A0C			680		BXLE R1,R2,OPCD0040 BUMP INPUT		GP10015	05860000	
000A20	9540 1000	00000			681	OPCD0050	CLI 0(R1),C' ' TRAILING BLANK ?		GP10015	05870000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000A24	4770	CA6A	00A6A		682	BNE	OPCD0099 NO; MALFORMED NAME	GP10015 05880000
					683	LOAD	EPLOC=COMMDWRD,ERRET=OPCD0091	GP10015 05890000
000A40	4160	B0A4	000A4		692	LA	R6,AOP-8 GET OPERATIONS ENTRY IN COMMON	GP10015 05900000
000A44	D207	6000	B000	00000	693	MVC	0(8,R6),COMMDWRD REPEAT NAME	GP10015 05910000
000A4A	5000	6008	00008		694	ST	R0,8(R6) SET NEW TABLE ADDRESS	GP10015 05920000
000A4E	47F0	C0B0	000B0		695	B	PARM0010 IGNORE REST OF CARD	GP10015 05930000
000A52	D222	B710	A8A1	00710	696	OPCD0091 MVC	PRTDATA(EMSG34L),EMSG34 MISSING MODULE	GP10015 05940000
000A58	927A	B734	00734		697	MVI	PRTDATA+EMSG34L+1,C':'	GP10015 05950000
000A5C	D207	B736	B000	00736	698	MVC	PRTDATA+EMSG34L+3(8),COMMDWRD	GP10015 05960000
000A62	4590	A12C	0112C		699	BAL	R9,PRT0000	GP10015 05970000
000A66	47F0	C0B0	000B0		700	B	PARM0010 IGNORE REMAINDER	GP10015 05980000
000A6A	D229	B710	A877	00710	701	OPCD0099 MVC	PRTDATA(EMSG33L),EMSG33 INVALID OPTION	GP10015 05990000
000A70	927A	B73B	0073B		702	MVI	PRTDATA+EMSG33L+1,C':'	GP10015 06000000
000A74	D208	B73D	7000	0073D	703	MVC	PRTDATA+EMSG33L+3(9),0(R7)	GP10015 06010000
000A7A	4590	A12C	0112C		704	BAL	R9,PRT0000	GP10015 06020000
000A7E	47F0	C0B0	000B0		705	B	PARM0010 IGNORE REMAINDER	GP10015 06030000
					707	*	-----	* 06050000
					708	*		* 06060000
					709	*	PRINT STATEMENTS - DEFINE PRINTED OUTPUT	* 06070000
					710	*		* 06080000
					711	*	DIR DIRECTORY INFORMATION FOR MEMBER	* 06090000
					712	*	ESD/CESD LIST OF CESD CONTROL INFORMATION IN MEMBER	* 06100000
					713	*	RLD LISTING OF RLD DATA IN MEMBER	* 06110000
					714	*	HEX LISTING OF CSECT CONTENTS IN HEX	* 06120000
					715	*	SYM LISTING OF MEMBER'S SYMBOL TABLE DATA (ASM/LINK W/TEST OPT)	* 06130000
					716	*	DAT LISTING OF MEMBER'S SYSADATA RECORDS (ASM W/ADATA OPTION)	* 06140000
					717	*	LBL LIST OF DEFINED AND GENERATED LABELS	* 06150000
					718	*	ASM LIST GENERATED SOURCE	* 06160000
					719	*	XREF LIST STATEMENT CROSS-REFERENCE	* 06170000
					720	*	TRACE LIST TRACE TABLE ON ABNORMAL END	* 06180000
					721	*	DEBUG PRINT DEBUGGING INFORMATION (INDEPENDENT OF DISDEBUG)	* 06190000
					722	*		* 06200000
					723	*	-----	* 06210000
					724	PRNT0000	ITRACE ID=PRINT	GP99167 06220000
000A8E	4110	A93B	0193B		727	LA	R1,CTLTYPE+1	GP99134 06230000
000A92	4120	0001	00001		728	LA	R2,1 INCREMENT	GP99134 06240000
000A96	4130	A97F	0197F		729	LA	R3,CTL70	GP99134 06250000
000A9A	9540	1000	00000		730	PRNT0010	CLI 0(R1),C' ' LEADING BLANK YET?	GP99134 06260000
000A9E	4780	CAAA	00AAA		731	BE	PRNT0020 YES; NOW GET NON-BLANK	GP99134 06270000
000AA2	8712	CA9A	00A9A		732	BXLE	R1,R2,PRNT0010 TRY AGAIN	GP99134 06280000
000AA6	47F0	CAD0	00AD0		733	B	PRNT0099 COMPLAIN AND IGNORE	GP99134 06290000
000AAA	9540	1000	00000		734	PRNT0020	CLI 0(R1),C' ' NON-BLANK?	GP99134 06300000
000AAE	4770	CABA	00ABA		735	BNE	PRNT0030 YES; START COMPARE	GP99134 06310000
000AB2	8712	CAAA	00AAA		736	BXLE	R1,R2,PRNT0020 TRY AGAIN	GP99134 06320000
000AB6	47F0	C0B0	000B0		737	B	PARM0010	GP99134 06330000
000ABA	9857	CAFC	00AFC		738	PRNT0030	LM R5,R7,PRINTOPT GET PRINT OPTIONS	GP99134 06340000
000ABE	1BFF				739	SR	R15,R15 CLEAR FOR LENGTH IC	GP99134 06350000
000AC0	43F0	5000	00000		740	PRNT0040	IC R15,0(,R5) GET VERB LENGTH	GP99134 06360000
000AC4	44F0	CAF4	00AF4		741	EX	R15,EXPRTCLC LOOK FOR MATCH	GP99134 06370000
000AC8	4780	CAE8	00AE8		742	BE	PRNT0100 WOW	GP99134 06380000
000ACC	8756	CAC0	00AC0		743	BXLE	R5,R6,PRNT0040 TRY AGAIN	GP99134 06390000
000AD0	D229	B710	A877	00710	744	PRNT0099	MVC PRTDATA(EMSG33L),EMSG33 INVALID STATEMENT	GP09181 06400000
000AD6	927A	B73B	0073B		745	MVI	PRTDATA+EMSG33L+1,C':'	GP09181 06410000
000ADA	D207	B73D	1000	0073D	746	MVC	PRTDATA+EMSG33L+3(8),0(R1)	GP09181 06420000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000AE0	4590	A12C	0112C		747	BAL	R9,PRT0000	GP99134 06430000
000AE4	47F0	C0B0	000B0		748	B	PARM0010 IGNORE REMAINDER	GP99134 06440000
000AE8	D601	B165	5001	00165	00001	749	PRNT0100 OC PRINTFG1(2),1(R5) SET FLAG FOR THIS OPTION	GP99149 06450000
000AEE	1A1F				750	AR	R1,R15 SKIP OVER MATCHED TEXT	GP99134 06460000
000AF0	47F0	CA9A	00A9A		751	B	PRNT0010 GET NEXT SPACE AND OPERAND	GP99134 06470000
000AF4	D500	1000	5003	00000	00003	752	EXPRTCLC CLC 0(0,R1),3(R5) MATCHING TEXT W/TRAILING BLANK	GP99134 06480000
000AFA	0000							
000AFC	00000B0800000000D				753	PRINTOPT DC	A(PRINT01,PRINT02-PRINT01,PRINT0L)	GP99134 06490000
000B08	098000C4C9D9C5C3				754	PRINT01 DC	AL1(09,\$PFDIR,0),CL10'DIRECTORY '	GP99149 06500000
000B15	038000C4C9D94040				755	PRINT02 DC	AL1(03,\$PFDIR,0),CL10'DIR '	GP99149 06510000
000B22	034000C5E2C44040				756	DC	AL1(03,\$PFESD,0),CL10'ESD '	GP99149 06520000
000B2F	044000C3C5E2C440				757	DC	AL1(04,\$PFESD,0),CL10'CESD '	GP99149 06530000
000B3C	032000D9D3C44040				758	DC	AL1(03,\$PFRD,0),CL10'RLD '	GP99149 06540000
000B49	041000E2E8D4E340				759	DC	AL1(04,\$PFSYM,0),CL10'SYMT '	GP99149 06550000
000B56	031000E2E8D44040				760	DC	AL1(03,\$PFSYM,0),CL10'SYM '	GP99149 06560000
000B63	050800C1C4C1E3C1				761	DC	AL1(05,\$PFDAT,0),CL10'ADATA '	GP99149 06570000
000B70	040800C4C1E3C140				762	DC	AL1(04,\$PFDAT,0),CL10'DATA '	GP99149 06580000
000B7D	030800C4C1E34040				763	DC	AL1(03,\$PFDAT,0),CL10'DAT '	GP99149 06590000
000B8A	030200D3C2D34040				764	DC	AL1(03,\$PFLBL,0),CL10'LBL '	GP99149 06600000
000B97	050200D3C1C2C5D3				765	DC	AL1(05,\$PFLBL,0),CL10'LABEL '	GP99149 06610000
000BA4	030080C8C5E74040				766	DC	AL1(03,0,\$PFHEX),CL10'HEX '	GP99149 06620000
000BB1	040080E3C5E7E340				767	DC	AL1(04,0,\$PFHEX),CL10'TEXT '	GP99149 06630000
000BBE	030040C1E2D44040				768	DC	AL1(03,0,\$PFASM),CL10'ASM '	GP99149 06640000
000BCB	030060E7D9C64040				769	DC	AL1(03,0,\$PFXRF+\$PFASM),CL10'XRF '	GP99149 06650000
000BD8	040060E7D9C5C640				770	DC	AL1(04,0,\$PFXRF+\$PFASM),CL10'XREF '	GP99149 06660000
000BE5	050001C4C5C2E4C7				771	DC	AL1(05,0,\$PFBUG),CL10'DEBUG '	GP99149 06670000
000BF2	030001C2E4C74040				772	DC	AL1(03,0,\$PFBUG),CL10'BUG '	GP99149 06680000
000BFF	050100E3D9C1C3C5				773	DC	AL1(05,\$PFTRC,0),CL10'TRACE '	GP99149 06690000
000C0C	07A070C4C5C6C1E4				774	PRINTDEF DC	AL1(07,\$PFDIR+\$PFRD,\$PFASM+\$PFXRF+\$PFPUN),CL10'DEFAULT '	GP99149 06700000
000C19	04FEFED4D6E2E340				775	DC	AL1(04,254,254),CL10'MOST '	GP99149 06710000
000C26	03FFFFC1D3D34040				776	DC	AL1(03,255,255),CL10'ALL '	GP99149 06720000
000C33	030100E3D9C34040				777	PRINTOL DC	AL1(03,\$PFTRC,0),CL10'TRC '	GP99149 06730000
					778	*	-----	* 06740000
					779	*		* 06750000
					780	*	SET SEQUENTIALLY NUMBERED LABELS FLAG	* 06760000
					781	*		* 06770000
					782	*	-----	* 06780000
000C40					783	SEQ0000 DS OH		06790000
					784		ITRACE ID=SEQLABEL	06800000
000C4C	9104	B163	00163		787	TM	COMMFLAG,\$SEQLABL ALREADY SET?	06810000
000C50	4710	CC5C	00C5C		788	BO	SEQ0010 YES	06820000
000C54	9604	B163	00163		789	OI	COMMFLAG,\$SEQLABL SET SEQUENTIALLY NUMBER LABEL FLAG	06830000
000C58	47F0	C0B0	000B0		790	B	PARM0010	06840000
000C5C					791	SEQ0010 DS OH		06850000
000C5C	D243	B710	A2BA	00710	012BA	792	MVC PRTDATA(WMSG02L),WMSG02	06860000
000C62	4590	A12C	0112C		793	BAL	R9,PRT0000 PRINT MESSAGE	06870000
000C66	47F0	C0B0	000B0		794	B	PARM0010	06880000
					795	*	-----	* 06890000
					796	*		* 06900000
					797	*	PROCESS USING STATEMENTS	* 06910000
					798	*		* 06920000
					799	*	-----	* 06930000
000C6A					800	USNG0000 DS OH		06940000
					801		ITRACE ID=USING USING STATEMENT FOUND	06950000
000C76	4130	B100	00100		804	LA	R3,COMMUSNG CURRENT BLOCK IS ANCHOR	06960000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				00000	805		USING USNGDSCT,R3	06970000
000C7A					806	USNG0010	DS OH	06980000
000C7A	BF1F	3000	00000		807		ICM R1,15,USNGNEXT	06990000
000C7E	4780	CC88	00C88		808		BZ USNG0020	07000000
000C82	1831				809		LR R3,R1	07010000
000C84	47F0	CC7A	00C7A		810		B USNG0010	07020000
000C88					811	USNG0020	DS OH	07030000
000C88	4110	A957	01957		812		LA R1,CTL30	07040000
000C8C	4590	CF84	00F84		813		BAL R9,REG0000	07050000
					814	*	-----	* 07060000
					815	*	R3 POINTS TO LAST USING BLOCK OR ANCHOR	* 07070000
					816	*	R4 POINTS TO REGISTER TABLE ENTRY	* 07080000
					817	*	-----	* 07090000
000C90	D509	A961	B225	01961	00225	818	CLC CTL40,COMMBLKS	07100000
000C96	4780	CD48		00D48		819	BE USNG0070	07110000
000C9A	D509	A96B	B225	0196B	00225	820	CLC CTL50,COMMBLKS	07120000
000CA0	4780	CD24		00D24		821	BE USNG0050	07130000
000CA4	4110	0008		00008		822	LA R1,8	07140000
000CA8	4120	A961		01961		823	LA R2,CTL40	07150000
000CAC	4590	A0B2		010B2		824	BAL R9,HEX0000	07160000
000CB0	D203	A25C	A273	0125C	01273	825	MVC SAVEBEGN,DISPOUT	07170000
000CB6	4110	0008		00008		826	LA R1,8	07180000
000CBA	4120	A96B		0196B		827	LA R2,CTL50	07190000
000CBE	4590	A0B2		010B2		828	BAL R9,HEX0000	07200000
000CC2	D503	A25C	A273	0125C	01273	829	CLC SAVEBEGN,DISPOUT	07210000
000CC8	4720	CD36		00D36		830	BH USNG0060	07220000
000CCC	4100	0034		00034		831	USNG0030 LA R0,USNGL	GP99140 07230000
000CD0	45E0	B684		00684		832	BAL R14,GETMAIN	07240000
					833		ITRACE ID=NEWUSNG,	+07250000
							RDATA1=R1	07260000
000CE4	5010	3000		00000		837	ST R1,USNGNEXT	07270000
000CE8	1831					838	LR R3,R1	07280000
000CEA	D207	3004	AB2A	00004	01B2A	839	MVC USNGEYE,CNTLUSNG	07290000
						840	*OBS* XC USNGNEXT,USNGNEXT	GP99154 07300000
						841	*OBS* MVI USNGFLAG,0	GP99154 07310000
000CF0	D207	300C	A943	0000C	01943	842	MVC USNGDSNM,CTL10	07320000
000CF6	D207	3014	A94D	00014	0194D	843	MVC USNGLBNM,CTL20	07330000
						844	*OBS* XC USNGDSA,USNGDSA	07340000
						845	*OBS* XC USNGLBA,USNGLBA	07350000
						846	*OBS* XC USNGDISP,USNGDISP	07360000
000CFC	D200	3030	4003	00030	00003	847	MVC USNGBASE,REGVALUE	07370000
000D02	D509	A961	B225	01961	00225	848	CLC CTL40,COMMBLKS	07380000
000D08	4780	CD1C		00D1C		849	BE USNG0040	07390000
000D0C	D203	3028	A25C	00028	0125C	850	MVC USNGBEGN,SAVEBEGN	07400000
000D12	D203	302C	A273	0002C	01273	851	MVC USNGEND,DISPOUT	07410000
000D18	47F0	C0B0		000B0		852	B PARM0010	07420000
000D1C						853	USNG0040 DS OH	07430000
000D1C	9680	3031		00031		854	OI USNGFLAG,\$USNGND	07440000
						855	*OBS* XC USNGBEGN,USNGBEGN	GP99154 07450000
						856	*OBS* XC USNGEND,USNGEND	GP99154 07460000
000D20	47F0	C0B0		000B0		857	B PARM0010	07470000
000D24						858	USNG0050 DS OH	07480000
000D24	D248	B710	A37A	00710	0137A	859	MVC PRTDATA(EMSG06L),EMSG06	07490000
000D2A	96C0	B163		00163		860	OI COMMFLAG,\$ERROR+\$ABORT	07500000
000D2E	4590	A12C		0112C		861	BAL R9,PRT0000	07510000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000D32	47F0	C0B0	000B0		862	B	PARM0010	07520000
000D36					863	USNG0060 DS	OH	07530000
000D36	D23D	B710 A3C3	00710 013C3		864	MVC	PRTDATA(EMSG07L),EMSG07 SET MESSAGE	07540000
000D3C	96C0	B163	00163		865	OI	COMMFLAG,\$ERROR+\$ABORT	07550000
000D40	4590	A12C	0112C		866	BAL	R9,PRT0000 PRINT MESSAGE	07560000
000D44	47F0	C0B0	000B0		867	B	PARM0010	07570000
000D48					868	USNG0070 DS	OH	07580000
000D48	D509	A96B B225	0196B 00225		869	CLC	CTL50,COMMBLKS ENDING DISPLACEMENT BLANK?	07590000
000D4E	4780	CCCC	00CCC		870	BE	USNG0030 YES	07600000
000D52	D24E	B710 A43E	00710 0143E		871	MVC	PRTDATA(EMSG10L),EMSG10	07610000
000D58	96C0	B163	00163		872	OI	COMMFLAG,\$ERROR+\$ABORT	07620000
000D5C	4590	A12C	0112C		873	BAL	R9,PRT0000 PRINT MESSAGE	07630000
000D60	47F0	C0B0	000B0		874	B	PARM0010	07640000
					876	*	-----*	07660000
					877	*		07670000
					878	*	VERIFY OFFSET HEX,HEX,HEX	07680000
					879	*	VERIFY OFFS 'TEXT'	07690000
					880	*		07700000
					881	*	REPLACE OFFSET HEX,'TEXT'	07710000
					882	*		07720000
					883	*	VERIFY AND REPLACE DIFFER ONLY BY THE QUEUE THEY PLACE THE	07730000
					884	*	REQUEST ON. PARSING AND MESSAGES OTHERWISE THE SAME.	07740000
					885	*		07750000
					886	*	-----*	07760000
000D64	4180	B138	00138		887	VERF0000 LA	R8,COMMVERS POINT TO VERIFY QUEUE GP10085	07770000
000D68	47F0	CD70	00D70		888	B	VERP0000 GO TO COMMON GP10085	07780000
000D6C	4180	B13C	0013C		889	REPL0000 LA	R8,COMMREPS POINT TO REPLACE QUEUE GP10085	07790000
					890		PUSH USING GP10085	07800000
					891	*	VER XXX YY - DEFINE VERIFY TEXT; 1-6 DIGIT OFFSET; TEXT IS	07810000
					892	*	REP XXX YY - DEFINE REPLACE TEXT; COMMA SEPARATED HEXADECIMAL	07820000
					893	*	OR QUOTED CHARACTER STRING. OPT. COMMENTS FIELD	07830000
					894	*		GP10085 07840000
000D70	9200	A8E9	018E9		895	VERP0000 MVI	SUBCODE,0 BASIC FORMAT ERROR GP10085	07850000
000D74	4150	A93E	0193E		896	LA	R5,CTLSTMT+4 START PARSE FOR OFFSET GP10085	07860000
000D78	4160	A981	01981		897	LA	R6,CTLSTMT+71 LAST VALID COLUMN GP10085	07870000
					898	*	-----*	07880000
					899	*	PARSE OFFSET - FAIL IF MISSING OR BAD	07890000
					900	*	-----*	07900000
000D7C	45E0	CF00	00F00		901	BAL	R14,NEXTBLNK SKIP BLANKS GP10085	07910000
000D80	47F0	CEBA	00EBA		902	B	SETVRSYN NO; BOO GP10085	07920000
000D84	45E0	CEEC	00EEC		903	BAL	R14,NEXTTEXT ANY OFFSET ? GP10085	07930000
000D88	47F0	CEBA	00EBA		904	B	SETVRSYN NO; BOO GP10085	07940000
000D8C	45E0	CF1C	00F1C		905	BAL	R14,FINDWORD GET THE OFFSET GP10085	07950000
000D90	47F0	CEBA	00EBA		906	B	SETVRSYN GP10085	07960000
000D94	9201	A8E9	018E9		907	MVI	SUBCODE,1 OPERAND ERROR GP10085	07970000
000D98	D74B	CF38 CF38	00F38 00F38		908	XC	WORKAREA,WORKAREA GP10085	07980000
000D9E	4590	A0B2	010B2		909	BAL	R9,HEX0000 CONVERT TO HEX GP10085	07990000
000DA2	D203	CF3C A273	00F3C 01273		910	MVC	WORKOFFS,DISPOUT SAVE RESULT GP10085	08000000
000DA8	9500	A273	01273		911	CLI	DISPOUT,0 THREE BYTES ? GP10085	08010000
000DAC	4720	CEBA	00EBA		912	BH	SETVRSYN NO; TOO BAD GP10085	08020000
					913	*	-----*	08030000
					914	*	NEED AT LEAST ONE HEX/TEXT ITEM AFTER OFFSET	08040000
					915	*	-----*	08050000

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000DB0	9202	A8E9	018E9		916	MVI	SUBCODE,2	PARSE ERROR GP10085 08060000
000DB4	45E0	CF00	00F00		917	BAL	R14,NEXTBLNK	SKIP BLANKS GP10085 08070000
000DB8	47F0	CEBA	00EBA		918	B	SETVRSYN	NO; BOO GP10085 08080000
000DBC	45E0	CEEC	00EEC		919	BAL	R14,NEXTTEXT	GET NEXT ITEM GP10085 08090000
000DC0	47F0	CEBA	00EBA		920	B	SETVRSYN	NONE - BOO GP10085 08100000
000DC4	47F0	CDE0	00DE0		921	B	VERPTSTR	PROCESS FIRST OPERAND GP10085 08110000
					923	*-----*		08130000
					924	* LOOP THROUGH INPUT UNTIL BLANK FIELD FOUND		* 08140000
					925	*-----*		08150000
000DC8	45E0	CEEC	00EEC		926	VERPLOOP	BAL R14,NEXTTEXT	GET NEXT ITEM GP10085 08160000
000DCC	47F0	CE82	00E82		927	B	SETVDONE	NONE - ALL DONE GP10085 08170000
000DD0	956B	5000	00000		928	CLI	0(R5),C','	COMMA? GP10085 08180000
000DD4	4770	CDE0	00DE0		929	BNE	VERPTSTR	NO; CHECK FOR QUOTES GP10085 08190000
000DD8	4150	5001	00001		930	LA	R5,1(,R5)	SKIP COMMA GP10085 08200000
000DDC	47F0	CDC8	00DC8		931	B	VERPLOOP	AND TRY AGAIN GP10085 08210000
000DE0	957D	5000	00000		933	VERPTSTR	CLI 0(R5),C''''	QUOTED STRING ? GP10085 08230000
000DE4	4780	CE2A	00E2A		934	BE	SETVRSTR	YES; PROCESS DIFFERENTLY GP10085 08240000
000DE8	957F	5000	00000		935	CLI	0(R5),C''''	QUOTED STRING ? GP10085 08250000
000DEC	4780	CE2A	00E2A		936	BE	SETVRSTR	YES; PROCESS DIFFERENTLY GP10085 08260000
					937	*-----*		08270000
					938	* PROCESS HEX TEXT (ERROR OTHERWISE)		* 08280000
					939	*-----*		08290000
000DF0	45E0	CF1C	00F1C		940	BAL	R14,FINDWORD	GET NEXT FIELD GP10085 08300000
000DF4	47F0	CEBA	00EBA		941	B	SETVRSYN	ERROR GP10085 08310000
000DF8	9203	A8E9	018E9		942	MVI	SUBCODE,3	HEX ERROR GP10085 08320000
000DFC	4140	1001	00001		943	LA	R4,1(,R1)	COPY LENGTH; SET FOR ROUNDING GP10085 08330000
000E00	8840	0001	00001		944	SRL	R4,1	NUMBER OF HEX BYTES RESULTING GP10085 08340000
000E04	4590	A0B2	010B2		945	BAL	R9,HEX0000	CONVERT TO HEX GP10085 08350000
000E08	5830	CF40	00F40		946	L	R3,WORKSIZE	GET CURRENT TEXT SIZE GP10085 08360000
000E0C	41F3	CF44	00F44		947	LA	R15,WORKTEXT(R3)	GET DESTINATION GP10085 08370000
000E10	1A34				948	AR	R3,R4	NEW TEXT LENGTH GP10085 08380000
000E12	5030	CF40	00F40		949	ST	R3,WORKSIZE	STASH IT BACK GP10085 08390000
000E16	41E0	A277	01277		950	LA	R14,DISPOUT+4	START OF MOVE GP10085 08400000
000E1A	1BE4				951	SR	R14,R4	START OF MOVE GP10085 08410000
000E1C	4440	CE24	00E24		952	EX	R4,EXMVCHEX	MOVE CONVERTED HEX GP10085 08420000
000E20	47F0	CDC8	00DC8		953	B	VERPLOOP	TRY AGAIN GP10085 08430000
000E24	D200	F000	E000	00000	954	EXMVCHEX	MVC 0(0,R15),0(R14)	MOVE RESULT BYTE(S) GP10085 08440000
					956	*-----*		08460000
					957	* PROCESS A QUOTED STRING, WITH EITHER ' OR " DELIMITER		* 08470000
					958	*-----*		08480000
000E2A	1845				959	SETVRSTR	LR R4,R5	REMEMBER THE QUOTE LOCATION GP10085 08490000
000E2C	5830	CF40	00F40		960	L	R3,WORKSIZE	GET CURRENT TEXT SIZE GP10085 08500000
000E30	41F3	CF44	00F44		961	LA	R15,WORKTEXT(R3)	GET DESTINATION GP10085 08510000
000E34	9204	A8E9	018E9		962	MVI	SUBCODE,4	TEXT ERROR GP10085 08520000
000E38	4150	5001	00001		963	SETVRTUP	LA R5,1(,R5)	SKIP THE LEADING QUOTE GP10085 08530000
000E3C	1956				964	CR	R5,R6	REACHED END OF STRING? GP10085 08540000
000E3E	4720	CEBA	00EBA		965	BH	SETVRSYN	YES; VIOLATION GP10085 08550000
000E42	D500	5000	4000	00000	966	CLC	0(1,R5),0(R4)	IS IT A MATCHING QUOTE? GP10085 08560000
000E48	4770	CE5A	00E5A		967	BNE	SETVRTMV	NO; MOVE ONE GP10085 08570000
000E4C	D500	5001	4000	00001	968	CLC	1(1,R5),0(R4)	PAIRED QUOTE? GP10085 08580000
000E52	4770	CE6C	00E6C		969	BNE	SETVRTND	NO; END (MUST HAVE BLANK) GP10085 08590000
000E56	4150	5001	00001		970	LA	R5,1(,R5)	SKIP FIRST QUOTE OF PAIR GP10085 08600000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000E5A	D200	F000	5000	00000	00000	971	SETVRTMV MVC 0(1,R15),0(R5) MOVE CHARACTER	GP10085 08610000
000E60	41F0	F001		00001		972	LA R15,1(,R15) MOVE OUT POINTER	GP10085 08620000
000E64	4130	3001		00001		973	LA R3,1(,R3) UP OUT LENGTH	GP10085 08630000
000E68	47F0	CE38		00E38		974	B SETVRTUP INCREASE INPUT POINTER	GP10085 08640000
000E6C	5030	CF40		00F40		975	SETVRTND ST R3,WORKSIZE STASH NEW SIZE	GP10085 08650000
000E70	1956					976	CR R5,R6 END ?	GP10085 08660000
000E72	47B0	CE82		00E82		977	BNL SETVDONE PLAYING IT CLOSE TO THE VEST	GP10085 08670000
000E76	4150	5001		00001		978	LA R5,1(,R5) SKIP TRAILING QUOTE	GP10085 08680000
000E7A	9540	5000		00000		979	CLI 0(R5),C' ' MUST HAVE QUOTE/SPACE ENDING	GP10085 08690000
000E7E	4770	CDC8		00DC8		980	BNE VERPLOOP LOOK FOR IT	GP10085 08700000
						982	*-----* 08720000	
						983	* SCAN COMPLETE WITHOUT ERRORS; BUILD VER/REP BLOCK AND CHAIN * 08730000	
						984	*-----* 08740000	
000E82	9200	A8E9		018E9		985	SETVDONE MVI SUBCODE,0 TEXT ERROR	GP10085 08750000
000E86	BF2F	CF40		00F40		986	ICM R2,15,WORKSIZE CHECK TEXT LENGTH	GP10085 08760000
000E8A	47D0	CEBA		00EBA		987	BNP SETVRSYN HUH?	GP10085 08770000
000E8E	0620					988	BCTR R2,0 MAKE EXECUTE LENGTH	GP10085 08780000
000E90	5020	CF40		00F40		989	ST R2,WORKSIZE SAVE TEXT LENGTH - 1	GP10085 08790000
000E94	4100	004C		0004C		990	LA R0,VERPL GET BLOCK LENGTH	GP10085 08800000
000E98	45E0	B684		00684		991	BAL R14,GETMAIN AND GET A BLOCK	GP10085 08810000
000E9C	D24B	1000	CF38	00000	00F38	992	MVC 0(VERPL,R1),WORKAREA MOVE FROM WORK SPACE	GP10085 08820000
					00000	993	USING VERPSECT,R2	GP10085 08830000
000EA2	1828					994	LR R2,R8 ROOT OF CHAIN	GP10085 08840000
000EA4	BF3F	2000		00000		995	SETVFEND ICM R3,15,VERPNEXT LAST ENTRY YET ?	GP10085 08850000
000EA8	4780	CEB2		00EB2		996	BZ SETVSTOR YES	GP10085 08860000
000EAC	1823					997	LR R2,R3	GP10085 08870000
000EAE	47F0	CEA4		00EA4		998	B SETVFEND TRY AGAIN	GP10085 08880000
000EB2	5010	2000		00000		999	SETVSTOR ST R1,VERPNEXT CHAIN ON END	GP10085 08890000
000EB6	47F0	C0B0		000B0		1000	B PARM0010 DONE WITH THIS CARD	GP10085 08900000
000EBA	D224	B710	A8C4	00710	018C4	1002	SETVRSYN MVC PRTDATA(EMSG36L),EMSG36 MOVE ERROR MESSAGE	GP10085 08920000
000EC0	9505	A8E9		018E9		1003	CLI SUBCODE,SUB36M# VALID CODE ?	GP10085 08930000
000EC4	47B0	CEE0		00EE0		1004	BNL SETVRSYP	GP10085 08940000
000EC8	1B11					1005	SR R1,R1	GP10085 08950000
000ECA	4310	A8E9		018E9		1006	IC R1,SUBCODE GET CODE	GP10085 08960000
000ECE	8910	0004		00004		1007	SLL R1,4 * LEN	GP10085 08970000
000ED2	4111	A8EA		018EA		1008	LA R1,SUB36M1(R1) POINT TO MESSAGE	GP10085 08980000
000ED6	9260	B736		00736		1009	MVI PRTDATA+EMSG36L+1,C'-'	GP10085 08990000
000EDA	D20F	B738	1000	00738	00000	1010	MVC PRTDATA+EMSG36L+3(L'SUB36M1),0(R1)	GP10085 09000000
000EE0	96C0	B163		00163		1011	SETVRSYP OI COMMFLAG,\$ERROR+\$ABORT	GP10085 09010000
000EE4	4590	A12C		0112C		1012	BAL R9,PRT0000 PRINT MESSAGE	GP10085 09020000
000EE8	47F0	C0B0		000B0		1013	B PARM0010	GP10085 09030000
000EEC	9540	5000		00000		1015	NEXTTEXT CLI 0(R5),C' ' SPACER?	GP10085 09050000
000EF0	4770	E004		00004		1016	BNE 4(,R14) NO; RETURN TO CALLER	GP10085 09060000
000EF4	4150	5001		00001		1017	LA R5,1(,R5)	GP10085 09070000
000EF8	1956					1018	CR R5,R6 AT END ?	GP10085 09080000
000EFA	47D0	CEEC		00EEC		1019	BNH NEXTTEXT	GP10085 09090000
000EFE	07FE					1020	BR R14 ELSE NO MATCH	GP10085 09100000
000F00	9540	5000		00000		1022	NEXTBLNK CLI 0(R5),C' ' SPACER?	GP10085 09120000
000F04	4780	E004		00004		1023	BE 4(,R14)	GP10085 09130000
000F08	956B	5000		00000		1024	CLI 0(R5),C', ' SEPARATOR?	GP10085 09140000
000F0C	4780	E004		00004		1025	BE 4(,R14)	GP10085 09150000

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000F10	4150	5001	00001		1026	LA	R5,1(,R5)	GP10085 09160000
000F14	1956				1027	CR	R5,R6	GP10085 09170000
000F16	47D0	CF00	00F00		1028	BNH	NEXTBLNK	GP10085 09180000
000F1A	07FE				1029	BR	R14	GP10085 09190000
							ELSE NO MATCH	
000F1C	1825				1031	FINDWORD	LR R2,R5	GP10085 09210000
000F1E	180E				1032		LR R0,R14	GP10085 09220000
000F20	45E0	CF00	00F00		1033	BAL	R14,NEXTBLNK	GP10085 09230000
000F24	18E0				1034	LR	R14,R0	GP10085 09240000
000F26	1815				1035	LR	R1,R5	GP10085 09250000
000F28	1B12				1036	SR	R1,R2	GP10085 09260000
000F2A	07DE				1037	BNPR	R14	GP10085 09270000
000F2C	4910	A246	01246		1038	CH	R1,=H'8'	GP10085 09280000
000F30	072E				1039	BHR	R14	GP10085 09290000
000F32	47F0	E004	00004		1040	B	4(,R14)	GP10085 09300000
					1041	POP	USING	GP10085 09310000
000F38					1043	DS	0A	GP10085 09330000
000F38	00000000				1044	WORKAREA	DC OXL76'0',A(0)	GP10085 09340000
000F3C	00000000				1045	WORKOFFS	DC A(0)	GP10085 09350000
000F40	00000000				1046	WORKSIZE	DC A(0)	GP10085 09360000
000F44	0000000000000000				1047	WORKTEXT	DC XL64'0'	GP10085 09370000
					1049	*	-----	* 09390000
					1050	*		* 09400000
					1051	*	LOCATE REGISTER TABLE ENTRY	* 09410000
					1052	*		* 09420000
					1053	*	R1 IS REGISTER NAME'S ADDRESS	* 09430000
					1054	*	R9 IS RETURN ADDRESS	* 09440000
					1055	*		* 09450000
					1056	*	AT EXIT R4 WILL POINT TO THE REGISTER TABLE ENTRY.	* 09460000
					1057	*		* 09470000
					1058	*	IF ANY ERROR IS FOUND, CONTROL IS PASSED TO 'PARM0010'.	* 09480000
					1059	*		* 09490000
					1060	*	-----	* 09500000
000F84					1061	REG0000	DS OH	09510000
					1062		ITRACE ID=CONVREG	09520000
000F90	9540	1000	00000		1065	CLI	0(R1),C' '	09530000
000F94	4780	A034	01034		1066	BE	REG0050	09540000
000F98	D506	1003	B225	00003	1067	CLC	3(7,R1),COMMBLKS	09550000
000F9E	4770	A052	01052	00225	1068	BNE	REG0060	09560000
000FA2	957C	1000	00000		1069	CLI	0(R1),C'@'	GP13236 09570000
000FA6	4780	CFB2	00FB2		1070	BE	REG0005	GP13236 09580000
000FAA	95D9	1000	00000		1071	CLI	0(R1),C'R'	GP13236 09590000
000FAE	4770	CFB6	00FB6		1072	BNE	REG0006	GP13236 09600000
000FB2	4110	1001	00001		1073	REG0005	LA R1,1(,R1)	09610000
000FB6	9540	1002	00002		1074	REG0006	CLI 2(R1),C' '	GP13236 09620000
000FBA	4770	A052	01052		1075	BNE	REG0060	GP13236 09630000
000FBE	9540	1001	00001		1076	CLI	1(R1),C' '	09640000
000FC2	4770	CFDC	00FDC		1077	BNE	REG0020	09650000
					1078	REG0010	ITRACE ID=REG1	09660000
000FD2	4140	AC1C	01C1C		1081	LA	R4,REGTBL1	09670000
000FD6	1B22				1082	SR	R2,R2	09680000
000FD8	47F0	A000	01000		1083	B	REG0030	09690000
							FIND TABLE ENTRY	

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					1084	*EG0010	DS OH	09700000
					1085	*OLD*	ITRACE ID=REG3	09710000
					1086	*OLD*	LA R4,REGTBL3 3-CHARACTER NAME TABLE	09720000
					1087	*OLD*	LA R2,2 SET LENGTH (3 BYTES)	09730000
					1088	*OLD*	B REG0030 FIND TABLE ENTRY	09740000
000FDC					1089	REG0020	DS OH	09750000
000FDC	95F0	1000	00000		1090		CLI 0(R1),C'0' LEADING ZERO ? GP13236	09760000
000FE0	4770	CFEC	00FEC		1091		BNE REG0025 NO	09770000
000FE4	4110	1001	00001		1092		LA R1,1(,R1) SKIP LEADING ZERO GP13236	09780000
000FE8	47F0	CFC6	00FC6		1093		B REG0010 AND PROCESS AS SINGLE CHARACTER GP13236	09790000
					1094	REG0025	ITRACE ID=REG2	09800000
000FF8	4140	AC5D	01C5D		1097		LA R4,REGTBL2 2-CHARACTER NAME TABLE	09810000
000FFC	4120	0001	00001		1098		LA R2,1 SET LENGTH (2 BYTES)	09820000
001000					1099	REG0030	DS OH	09830000
001000	95FF	4000	00000		1100		CLI 0(R4),X'FF' END OF TABLE?	09840000
001004	4780	A016	01016		1101		BE REG0040 YES.. INVALID	09850000
001008	4420	A070	01070		1102		EX R2,REGCLC REGISTER NAME MATCH?	09860000
00100C	0789				1103		BER R9 YES	09870000
00100E	4140	4004	00004		1104		LA R4,REGL(,R4) NEXT REGISTER ENTRY	09880000
001012	47F0	A000	01000		1105		B REG0030 LOOP	09890000
001016					1106	REG0040	DS OH	09900000
					1107		ITRACE ID=BADREG	09910000
001022	D225	B710	A354	00710	01354	1110	MVC PRTDATA(EMSG05L),EMSG05 SET MESSAGE	09920000
001028	96C0	B163	00163		1111		OI COMMFLAG,\$ERROR+\$ABORT	09930000
00102C	4590	A12C	0112C		1112		BAL R9,PRT0000 PRINT MESSAGE	09940000
001030	47F0	C0B0	000B0		1113		B PARM0010	09950000
001034					1114	REG0050	DS OH	09960000
					1115		ITRACE ID=REGBLANK	09970000
001040	D221	B710	A4E1	00710	014E1	1118	MVC PRTDATA(EMSG13L),EMSG13 SET MESSAGE	09980000
001046	96C0	B163	00163		1119		OI COMMFLAG,\$ERROR+\$ABORT	09990000
00104A	4590	A12C	0112C		1120		BAL R9,PRT0000 PRINT MESSAGE	10000000
00104E	47F0	C0B0	000B0		1121		B PARM0010	10010000
001052					1122	REG0060	DS OH	10020000
					1123		ITRACE ID=REGLONG	10030000
00105E	D23C	B710	A503	00710	01503	1126	MVC PRTDATA(EMSG14L),EMSG14 SET MESSAGE	10040000
001064	96C0	B163	00163		1127		OI COMMFLAG,\$ERROR+\$ABORT	10050000
001068	4590	A12C	0112C		1128		BAL R9,PRT0000 PRINT MESSAGE	10060000
00106C	47F0	C0B0	000B0		1129		B PARM0010	10070000
001070	D500	4000	1000	00000	00000	1130	REGCLC CLC REGNAME(0),0(R1) TEST REGISTER NAME	10080000
					1132	*	-----	* 10100000
					1133	*		* 10110000
					1134	*	CONVERT CHARACTER TO INTEGER	* 10120000
					1135	*		* 10130000
					1136	*	R1 SHOULD BE THE NUMBER OF CHARACTERS (UP TO 9)	* 10140000
					1137	*	R2 SHOULD BE THE ADDRESS OF THE FIRST CHARACTER	* 10150000
					1138	*	R9 SHOULD BE THE RETURN ADDRESS	* 10160000
					1139	*		* 10170000
					1140	*	AT EXIT R0 WILL HAVE THE 32-BIT VALUE	* 10180000
					1141	*		* 10190000
					1142	*	IF ANY ERROR IS FOUND, CONTROL IS PASSED TO 'PARM0010'.	* 10200000
					1143	*		* 10210000
					1144	*	-----	* 10220000
001076	18E2				1145	INTG000	LR R14,R2 SAVE START IN SAFE REGISTER GP99172	10230000
001078	4410	A0A6	010A6		1146		EX R1,EXINTTRT LOOK FOR HEX GP99172	10240000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00107C	4780	A11A	0111A		1147	BZ	HEX0050 MORE THAN USER WANTED - TOO LONG	GP99172 10250000
001080	95F0	2000	00000		1148	CLI	0(R2),C'0' LEADING ZERO?	GP99172 10260000
001084	4780	A0B2	010B2		1149	BE	HEX0000 YES; TREAT AS HEX	GP99172 10270000
001088	BD21	B225	00225		1150	CLM	R2,1,COMMBLKS BLANK STOPPER?	GP99172 10280000
00108C	4770	A108	01108		1151	BNE	HEX0040 NO	GP99172 10290000
001090	18F1				1152	LR	R15,R1 COPY STOPPER	GP99172 10300000
001092	1BFE				1153	SR	R15,R14 LESS START	GP99172 10310000
001094	47D0	A11A	0111A		1154	BNP	HEX0050 INVALID	GP99172 10320000
001098	1821				1155	LR	R2,R1 ADVANCE PARSE POINTER	GP99172 10330000
00109A	06F0				1156	BCTR	R15,0 EXEC LENGTH	GP99172 10340000
00109C	44F0	A0AC	010AC		1157	EX	R15,EXINTPAK PACK	GP99172 10350000
0010A0	4F00	B000	00000		1158	CVB	R0,COMMDWRD	GP99172 10360000
0010A4	07F9				1159	BR	R9 GET OUTTA HERE	GP99172 10370000
0010A6	DD00	2000	B968	00000	00968	1160	EXINTTTRT TRT 0(0,R2),INTTTRT VERIFY INTEGER	GP99172 10380000
0010AC	F270	B000	E000	00000	00000	1161	EXINTPAK PACK COMMDWRD,0(0,R14) PACK INCOMING	GP99172 10390000
					1163	*	-----	* 10410000
					1164	*		* 10420000
					1165	*	CONVERT CHARACTER TO HEX	* 10430000
					1166	*		* 10440000
					1167	*	R1 SHOULD BE THE NUMBER OF CHARACTERS (UP TO 8)	* 10450000
					1168	*	R2 SHOULD BE THE ADDRESS OF THE FIRST CHARACTER	* 10460000
					1169	*	R9 SHOULD BE THE RETURN ADDRESS	* 10470000
					1170	*		* 10480000
					1171	*	AT EXIT 'DISPOUT' WILL BE THE VALUE IN HEX	* 10490000
					1172	*		* 10500000
					1173	*	IF ANY ERROR IS FOUND, CONTROL IS PASSED TO 'PARM0010'.	* 10510000
					1174	*		* 10520000
					1175	*	-----	* 10530000
0010B2	D707	A26A	A26A	0126A	0126A	1176	HEX0000 XC DISPIN,DISPIN CLEAR WORK	GP99172 10540000
0010B8	18E2					1177	LR R14,R2 SAVE START IN SAFE REGISTER	GP99172 10550000
0010BA	4410	A0FC	010FC			1178	EX R1,EXHEXTRT LOOK FOR HEX	GP99172 10560000
0010BE	4780	A11A	0111A			1179	BZ HEX0050 MORE THAN USER WANTED - TOO LONG	GP99172 10570000
0010C2	956B	1000	00000			1180	CLI 0(R1),C', ' COMMA SEPARATOR?	GP10085 10580000
0010C6	4780	A0D2	010D2			1181	BE HEX0010 YES	GP10085 10590000
0010CA	BD21	B225	00225			1182	CLM R2,1,COMMBLKS BLANK STOPPER?	GP99172 10600000
0010CE	4770	A108	01108			1183	BNE HEX0040 NO	GP99172 10610000
0010D2	18F1					1184	HEX0010 LR R15,R1 COPY STOPPER	GP99172 10620000
0010D4	1BFE					1185	SR R15,R14 LESS START	GP99172 10630000
0010D6	47D0	A11A	0111A			1186	BNP HEX0050 INVALID	GP99172 10640000
0010DA	06F0					1187	BCTR R15,0 EXEC LENGTH	GP99172 10650000
0010DC	4110	A271	01271			1188	LA R1,DISPIN+L'DISPIN-1	GP99172 10660000
0010E0	1B1F					1189	SR R1,R15 START MOVE	GP99172 10670000
0010E2	44F0	A102	01102			1190	EX R15,EXHEXMVC MOVE TO WORK AREA	GP99172 10680000
0010E6	1821					1191	LR R2,R1 ADVANCE PARSE POINTER	GP99172 10690000
0010E8	D407	A26A	B21D	0126A	0021D	1192	NC DISPIN,COMM1F1F STRIP ZONES	GP99172 10700000
0010EE	DC07	A26A	B285	0126A	00285	1193	TR DISPIN,COMMCHHX MAKE HEX BYTES	GP99172 10710000
0010F4	F248	A273	A26A	01273	0126A	1194	PACK DISPOUT(5),DISPIN(9) PACK	10720000
0010FA	07F9					1195	BR R9 GET OUTTA HERE	10730000
0010FC	DD00	2000	B868	00000	00868	1196	EXHEXTRT TRT 0(0,R2),HEXTRT VERIFY HEX DIGITS	GP99172 10740000
001102	D200	1000	E000	00000	00000	1197	EXHEXMVC MVC 0(0,R1),0(R14) MOVE HEX TEXT	GP99172 10750000
001108	D218	B710	A401	00710	01401	1199	HEX0040 MVC PRTDATA(EMSG08L),EMSG08	GP99172 10770000
00110E	96C0	B163	00163			1200	OI COMMFLAG,\$ERROR+\$ABORT	10780000
001112	4590	A12C	0112C			1201	BAL R9,PRT0000 PRINT MESSAGE	10790000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001116	47F0	C0B0	000B0		1202	B	PARM0010	10800000
00111A	D223	B710	A41A	00710	0141A	1204	HEX0050 MVC PRTDATA(EMSG09L),EMSG09	GP99172 10820000
001120	96C0	B163		00163		1205	OI COMMFLAG,\$ERROR+\$ABORT	10830000
001124	4590	A12C		0112C		1206	BAL R9,PRT0000 PRINT MESSAGE	10840000
001128	47F0	C0B0	000B0		1207	B	PARM0010	10850000
00112C	45E0	B6EC		006EC		1209	PRT0000 BAL R14,PRINTREC	GP99138 10870000
001130	07F9				1210	BR	R9 RETURN	10880000
001132					1211	EXIT0000 DS	OH	10890000
					1212		ITRACE ID=PARMEOF END OF FILE	10900000
00113E	9140	A269		01269		1215	TM PGMFLAG,\$ASMOPEN ASSEMBLER INPUT OPEN?	10910000
001142	47E0	A162		01162		1216	BNO EXIT0010 NO	10920000
					1217		ITRACE ID=CLOSEASM CLOSING SYSIN DCB	10930000
001152	94BF	A269		01269		1220	NI PGMFLAG,255-\$ASMOPEN INDICATE DCB IS CLOSED	10940000
					1221		CLOSE SYSIN	10950000
001162	9106	B164		00164		1227	EXIT0010 TM COMMD,\$ADADD+\$LISTDD ADATA/LIST PROCESS?	GP99167 10960000
001166	4770	A1A8		011A8		1228	BNZ EXIT0030 SET PRINT DEFAULTS?	GP99167 10970000
00116A	D603	B108	B108	00108	00108	1229	OC COMMBASE,COMMBASE BASE REGISTER(S) DEFINED?	10980000
001170	4780	A190		01190		1230	BZ EXIT0020 NO	10990000
001174	D503	B169	B225	00169	00225	1231	CLC COMMPFX,COMMBLKS PREFIX DEFINED?	11000000
00117A	4770	A1A8		011A8		1232	BNE EXIT0030 YES	11010000
00117E	96C0	B163		00163		1233	OI COMMFLAG,\$ERROR+\$ABORT	11020000
001182	D241	B710	A6C5	00710	016C5	1234	MVC PRTDATA(EMSG20L),EMSG20	11030000
001188	4590	A12C		0112C		1235	BAL R9,PRT0000 PRINT MESSAGE	11040000
00118C	47F0	A1A8		011A8		1236	B EXIT0030 EXIT	11050000
001190					1237	EXIT0020 DS	OH	11060000
001190	D503	B169	B225	00169	00225	1238	CLC COMMPFX,COMMBLKS PREFIX DEFINED?	11070000
001196	4780	A1A8		011A8		1239	BE EXIT0030 NO	11080000
00119A	96C0	B163		00163		1240	OI COMMFLAG,\$ERROR+\$ABORT	11090000
00119E	D23F	B710	A707	00710	01707	1241	MVC PRTDATA(EMSG21L),EMSG21	11100000
0011A4	4590	A12C		0112C		1242	BAL R9,PRT0000 PRINT MESSAGE	11110000
0011A8	D601	B165	B165	00165	00165	1243	EXIT0030 OC PRINTFG1(2),PRINTFG1 USER SPECIFY ANY PRINT OPTIONS?	11120000
0011AE	4770	A1B8		011B8		1244	BNZ EXIT0040	GP99167 11130000
					1245	* BY DEFAULT,	DO NOT PRINT CESD OR CSECT TEXT (FOR NUCLEUS, ETC.)	11140000
0011B2	D201	B165	CC0D	00165	00C0D	1246	MVC PRINTFG1(2),PRINTDEF+1 SET DEFAULTS	GP99149 11150000
0011B8	91C0	B163		00163		1247	EXIT0040 TM COMMFLAG,\$ERROR+\$ABORT ALREADY HAVE A MESSAGE?	GP99167 11160000
0011BC	4770	A1D0		011D0		1248	BNZ EXIT0050	GP99167 11170000
0011C0	9102	A269		01269		1249	TM PGMFLAG,\$PFHAVE HAD INPUT ?	GP99167 11180000
0011C4	4770	A1D0		011D0		1250	BNZ EXIT0050	GP99167 11190000
0011C8	4110	A293		01293		1251	LA R1,WMSG01	GP99167 11200000
0011CC	45E0	B6BE		006BE		1252	BAL R14,PRINTMSG WRITE A WARNING	GP99167 11210000
0011D0					1253	EXIT0050 DS	OH	GP99167 11220000
					1254		ITRACE ID=EXIT	11230000
0011DC	58D0	D004		00004		1257	L R13,4(,R13) RESTORE REGISTER 13	11240000
0011E0	98EC	D00C		0000C		1258	LM R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	11250000
0011E4	1BFF					1259	SR R15,R15 GIVE GOOD RETURN CODE	11260000
0011E6	07FE					1260	BR R14 RETURN TO CALLER	11270000
0011E8					1262	LTORG ,		GP10085 11290000
0011E8	D7D9C9D5E3404040				1263		=CL80'PRINT OPSYN ANOP '	
001238	D3C1C2D340404040				1264		=CL8'LABL'	
001240	C4C1E3C1				1265		=C'DATA'	
001244	F040				1266		=C'0 '	
001246	0008				1267		=H'8'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
001248	40C5D5C440			1268	=C' END '	
00124D	C5D5C4			1269	=C'END'	
001250	FFFFFFFFFFFFFFFF			1270	=9X'FF'	
				1271	*-----*	11300000
				1272	*	11310000
				1273	*	11320000
				1274	*	11330000
				1275	*-----*	11340000
001259	000000					
00125C	00000000			1276	SAVEBEGN DC A(0)	11350000
001260	00000000			1277	SAVEEND DC A(0)	11360000
001264	1000			1278	H4096 DC H'4096'	11370000
				1279	PMIN DC PL3'&MINL'	11380000
001269	00			1281	PGMFLAG DC X'00'	11390000
		00080		1282	\$SUBH EQU X'80'	11400000
		00040		1283	\$ASMOPEN EQU X'40'	11410000
		00020		1284	\$AFLUSH EQU X'20'	11420000
		00002		1285	\$PFHAVE EQU X'02'	11430000
					HAD SOME INPUT	
00126A	4040404040404040			1287	DISPIN DC CL8' '	11450000
001272	00			1288	DC X'00'	11460000
001273	00000000			1289	DISPOUT DC XL4'00000000'	11470000
001277	00			1290	DC X'00'	11480000
					PAD FOR PACKING	
001278	F0			1292	DC C'0'	11500000
001279	F0F0F0			1293	LINEIN DC CL3'000'	11510000
00127C	00000C			1294	LINEOUT DC PL3'0'	11520000
00127F	40C3D6D5E3D9D6D3			1296	SUBHEAD DC C' CONTROL STATEMENTS '	11540000
		00014		1297	SUBHEADL EQU *-SUBHEAD	11550000
				1298	*-----*	11560000
				1299	*	11570000
				1300	*-----*	11580000
001293	26			1301	WMSG01 DC AL1(L'WMSG01T)	11590000
001294	C4C9E2C1E2D4F0F2			1302	WMSG01T DC C'DISASM0201W NO OPTIONS CARDS PROCESSED'	11600000
0012BA	C4C9E2C1E2D4F0F2			1303	WMSG02 DC C'DISASM0202W SEQUENTIALLY NUMBERED LABELS HAVE ALREADY +	11610000
0012C2	F0F2E640E2C5D8E4				BEEN REQUESTED'	11620000
		00044		1304	WMSG02L EQU *-WMSG02	11630000
				1305	*-----*	11640000
				1306	*	11650000
				1307	*-----*	11660000
0012FE	C4C9E2C1E2D4F0F2			1308	EMSG03 DC C'DISASM0203E INVALID CONTROL STATEMENT'	11670000
		00025		1309	EMSG03L EQU *-EMSG03	11680000
001323	C4C9E2C1E2D4F0F2			1310	EMSG04 DC C'DISASM0204E EXTRANEIOUS DATA IN REGISTER PARAMETER'	11690000
		00031		1311	EMSG04L EQU *-EMSG04	11700000
001354	C4C9E2C1E2D4F0F2			1312	EMSG05 DC C'DISASM0205E INVALID REGISTER REFERENCE'	11710000
		00026		1313	EMSG05L EQU *-EMSG05	11720000
00137A	C4C9E2C1E2D4F0F2			1314	EMSG06 DC C'DISASM0206E END DISPLACEMENT IS REQUIRED WHEN BEGIN DI+	11730000
001382	F0F6C540C5D5C440				SPLACEMENT IS GIVEN'	11740000
		00049		1315	EMSG06L EQU *-EMSG06	11750000
0013C3	C4C9E2C1E2D4F0F2			1316	EMSG07 DC C'DISASM0207E BEGIN DISPLACEMENT IS LARGER THAN END DISP+	11760000
0013CB	F0F7C540C2C5C7C9				LACEMENT'	11770000
		0003E		1317	EMSG07L EQU *-EMSG07	11780000
001401	C4C9E2C1E2D4F0F2			1318	EMSG08 DC C'DISASM0208E INVALID DIGIT'	11790000
		00019		1319	EMSG08L EQU *-EMSG08	11800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00141A	C4C9E2C1E2D4F0F2			1320	MSG09	DC C'DISASM0209E INVALID NUMBER OF DIGITS'	GP99172 11810000
			00024	1321	MSG09L	EQU *-MSG09	11820000
00143E	C4C9E2C1E2D4F0F2			1322	MSG10	DC C'DISASM0210E END DISPLACEMENT NOT ALLOWED UNLESS START +	11830000
001446	F1F0C540C5D5C440					DISPLACEMENT IS SPECIFIED'	11840000
			0004F	1323	MSG10L	EQU *-MSG10	11850000
00148D	C4C9E2C1E2D4F0F2			1324	MSG11	DC C'DISASM0211E PREFIX MAY NOT BE BLANK'	GP99134 11860000
			00023	1325	MSG11L	EQU *-MSG11	11870000
0014B0	C4C9E2C1E2D4F0F2			1326	MSG12	DC C'DISASM0212E PREFIXES MUST BE 4 CHARACTERS OR LESS'	11880000
			00031	1327	MSG12L	EQU *-MSG12	11890000
0014E1	C4C9E2C1E2D4F0F2			1328	MSG13	DC C'DISASM0213E BASE REGISTER IS BLANK'	11900000
			00022	1329	MSG13L	EQU *-MSG13	11910000
001503	C4C9E2C1E2D4F0F2			1330	MSG14	DC C'DISASM0214E BASE REGISTER NAME EXCEEDS 3 CHARACTERS IN+	11920000
00150B	F1F4C540C2C1E2C5					LENGTH'	11930000
			0003D	1331	MSG14L	EQU *-MSG14	11940000
001540	C4C9E2C1E2D4F0F2			1332	MSG15	DC C'DISASM0215E ''DATA'' IS RESERVED FOR DATA AREA PREFIXE+	11950000
001548	F1F5C5407DC4C1E3					S, CHOOSE ANOTHER PREFIX'	11960000
			0004C	1333	MSG15L	EQU *-MSG15	11970000
00158C	C4C9E2C1E2D4F0F2			1334	MSG16	DC C'DISASM0216E INVALID DIGIT IN LINE/LINES/MAXLINES STATE+	11980000
001594	F1F6C540C9D5E5C1					MENT'	11990000
			0003A	1335	MSG16L	EQU *-MSG16	12000000
0015C6	C4C9E2C1E2D4F0F2			1336	MSG17	DC C'DISASM0217E LINE COUNT VALUE IN LINE/LINES/MAXLINES ST+	12010000
0015CE	F1F7C540D3C9D5C5					ATEMENT IS TOO LONG OR CONTAINS EXTRANEIOUS DATA'	12020000
			00065	1337	MSG17L	EQU *-MSG17	12030000
00162B	C4C9E2C1E2D4F0F2			1338	MSG18	DC C'DISASM0218E LINE COUNT VALUE IN LINE/LINES/MAXLINES ST+	12040000
001633	F1F8C540D3C9D5C5					ATEMENT IS BELOW MINIMUM ALLOWED'	12050000
			00056	1339	MSG18L	EQU *-MSG18	12060000
001681	C4C9E2C1E2D4F0F2			1340	MSG19	DC C'DISASM0219E PREFIX HAS ALREADY BEEN DEFINED, CHOOSE ON+	12070000
001689	F1F9C540D7D9C5C6					E OR THE OTHER'	GP99139 12080000
			00044	1341	MSG19L	EQU *-MSG19	12090000
0016C5	C4C9E2C1E2D4F0F2			1342	MSG20	DC C'DISASM0220E PREFIX MUST BE DEFINED WHEN BASE REGISTERS+	12100000
0016CD	F2F0C540D7D9C5C6					ARE DEFINED'	GP99139 12110000
			00042	1343	MSG20L	EQU *-MSG20	12120000
001707	C4C9E2C1E2D4F0F2			1344	MSG21	DC C'DISASM0221E PREFIX NOT VALID UNLESS BASE REGISTER(S) A+	12130000
00170F	F2F1C540D7D9C5C6					RE DEFINED'	GP99139 12140000
			00040	1345	MSG21L	EQU *-MSG21	12150000
001747	C4C9E2C1E2D4F0F2			1346	MSG22	DC C'DISASM0222E THIS AREA OVERLAPS AREA AT '	12160000
00176E	40404040			1347	MSG22A	DC CL4' '	12170000
001772	40E3D640			1348		DC C' TO '	12180000
001776	40404040			1349	MSG22B	DC CL4' '	12190000
00177A	40			1350		DC C' '	12200000
			00034	1351	MSG22L	EQU *-MSG22	12210000
00177B	C4C9E2C1E2D4F0F2			1352	MSG23	DC C'DISASM0223E STARTING DISPLACEMENT IS LARGER THAN ENDIN+	12220000
001783	F2F3C540E2E3C1D9					G DISPLACEMENT OR CSECT'	GP10025 12230000
			0004D	1353	MSG23L	EQU *-MSG23	12240000
0017C8	4D			1354	MSG24	DC AL1(L'MSG24T)	GP99139 12250000
0017C9	C4C9E2C1E2D4F0F2			1355	MSG24T	DC C'DISASM0224E MALFORMED STATEMENT; REQUIRES LABEL NAME/O*	12260000
0017D1	F2F4C540D4C1D3C6					FFSET/TYPE/LEN/SECTNAME'	GP99139 12270000
001816	2C			1356	MSG25	DC AL1(L'MSG25T)	GP99139 12280000
001817	C4C9E2C1E2D4F0F2			1357	MSG25T	DC C'DISASM0225E OVERLAPPING OR DUPLICATE OFFSET.'	GP99139 12290000
001843	33			1358	MSG26	DC AL1(L'MSG26T)	GP99139 12300000
001844	C4C9E2C1E2D4F0F2			1359	MSG26T	DC C'DISASM0226W ASSEMBLER INPUT AFTER END CARD IGNORED.'	12310000
001877	C4C9E2C1E2D4F0F2			1360	MSG33	DC C'DISASM0233W UNSUPPORTED OR UNDEFINED VALUE'	GP09181 12320000
			0002A	1361	MSG33L	EQU *-MSG33	GP09181 12330000
0018A1	C4C9E2C1E2D4F0F2			1362	MSG34	DC C'DISASM0234W OP CODE MODULE NOT FOUND'	GP10015 12340000
			00023	1363	MSG34L	EQU *-MSG34	GP10015 12350000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0018C4	C4C9E2C1E2D4F0F2			1364	EMSG36	DC C'DISASM0236E SYNTAX ERROR IN STATEMENT'	GP10085 12360000
			00025	1365	EMSG36L	EQU *-EMSG36	GP10085 12370000
0018E9	00			1366	SUBCODE	DC X'0'	GP10085 12380000
0018EA	D4C1D3C6D6D9D4C5			1367	SUB36M1	DC CL16'MALFORMED' 0	GP10085 12390000
0018FA	C2C1C440D6C6C6E2			1368	SUB36M2	DC CL16'BAD OFFSET' 1	GP10085 12400000
00190A	D7C1D9E2C540C5D9			1369		DC CL16'PARSE ERROR' 2	GP10085 12410000
00191A	C2C1C440C8C5E740			1370		DC CL16'BAD HEX TEXT' 3	GP10085 12420000
00192A	D8E4D6E3C540C5D9			1371		DC CL16'QUOTE ERROR' 4	GP10085 12430000
			00005	1372	SUB36M#	EQU (*-SUB36M1)/(SUB36M2-SUB36M1) 5	GP10085 12440000
				1373	*-----*		12450000
				1374	* INPUT MAPPING; MAJOR COMMANDS; DCBs; ETC.		* 12460000
				1375	*-----*		12470000
00193A				1377	CTLSTMT	DS OCL80	12490000
00193A	4040404040404040			1378	CTLTYPE	DC CL09' ' STATEMENT TYPE	12500000
001943	4040404040404040			1379	CTLDATA	DC CL71' ' RELATED DATA	12510000
			00050	1380	CTLSTMTL	EQU *-CTLSTMT	12520000
00198A			01943	1381		ORG CTLDATA	12530000
001943				1382	CTL10	DS CL10 DATA STARTING AT COLUMN 10	12540000
00194D				1383	CTL20	DS CL10 DATA STARTING AT COLUMN 20	12550000
001957				1384	CTL30	DS CL10 DATA STARTING AT COLUMN 30	12560000
001961				1385	CTL40	DS CL10 DATA STARTING AT COLUMN 40	12570000
00196B				1386	CTL50	DS CL10 DATA STARTING AT COLUMN 50	12580000
001975				1387	CTL60	DS CL10 DATA STARTING AT COLUMN 60	12590000
00197F				1388	CTL70	DS CL10 DATA STARTING AT COLUMN 70	12600000
001989			0198A	1389		ORG CTLSTMT+80	12610000
00198A	C1C2C5D5C4404040			1391	CNTLTBLE	DC CL09'ABEND ',AL4(ABEND000)	12630000
001997	C1C4C1E3C1404040			1392	CNTLTBL2	DC CL09'ADATA ',AL4(ADATA000)	GP99167 12640000
0019A4	C1E2D440E2E3C1D9			1393		DC CL09'ASM START ',AL4(ASM0000)	12650000
0019B1	C2C1E2C540404040			1394	CNTLBASE	DC CL09'BASE ',AL4(BASE0000)	12660000
0019BE	C3E2C5C3E3404040			1395		DC CL09'CSECT ',AL4(CSCT0000)	12670000
0019CB	E2C5C3E340404040			1396		DC CL09'SECT ',AL4(CSCT0000)	GP10071 12680000
0019D8	C4C1E3C140404040			1397	CNTLDATA	DC CL09'DATA ',AL4(DATA0000)	12690000
0019E5	C6C9D3D3C5D94040			1398		DC CL09'FILLER ',AL4(DATA0000) DS	GP10029 12700000
0019F2	E9C4C1E3C1404040			1399		DC CL09'ZDATA ',AL4(DATA0000) DS	GP10029 12710000
0019FF	C6C9D3D340404040			1400		DC CL09'FILL ',AL4(DATA0000) DS	GP10029 12720000
001A0C	D3C1C2C5D3404040			1401		DC CL09'LABEL ',AL4(LABL0000)	12730000
001A19	D3C9D5C540404040			1402		DC CL09'LINE ',AL4(LINE0000)	12740000
001A26	D3C9D5C5E2404040			1403		DC CL09'LINES ',AL4(LINE0000)	12750000
001A33	D3C9E2E340404040			1404		DC CL09'LIST ',AL4(ADATA000)	GP99167 12760000
001A40	D4C1E740D3C9D5C5			1405		DC CL09'MAX LINES ',AL4(LINE0000)	12770000
001A4D	D4C5D4C2C5D94040			1406		DC CL09'MEMBER ',AL4(MOD0000)	GP99149 12780000
001A5A	D4D6C4E4D3C54040			1407		DC CL09'MODULE ',AL4(MOD0000)	12790000
001A67	D5C1D4C540404040			1408		DC CL09'NAME ',AL4(MOD0000)	GP99149 12800000
001A74	D6D7C3D6C4C5E240			1409		DC CL09'OPCODES ',AL4(OPCD000)	GP10015 12810000
001A81	D6D7C3D6C4C54040			1410		DC CL09'OPCODE ',AL4(OPCD000)	GP10015 12820000
001A8E	C9D5E2E340404040			1411		DC CL09'INST ',AL4(OPCD000)	GP10015 12830000
001A9B	D6D7E3C9D6D5E240			1412		DC CL09'OPTIONS ',AL4(OPTS000)	GP08063 12840000
001AA8	D6D7E3C9D6D54040			1413		DC CL09'OPTION ',AL4(OPTS000)	GP08063 12850000
001AB5	D6D7E34040404040			1414		DC CL09'OPT ',AL4(OPTS000)	GP08063 12860000
001AC2	D7C6E74040404040			1415		DC CL09'PFX ',AL4(PRFX0000)	GP99134 12870000
001ACF	D7D9C5C6C9E74040			1416		DC CL09'PREFIX ',AL4(PRFX0000)	GP99134 12880000
001ADC	D7D9C9D5E3404040			1417		DC CL09'PRINT ',AL4(PRNT0000)	GP99134 12890000
001AE9	D9C5D74040404040			1418		DC CL09'REP ',AL4(REPL0000)	GP10085 12900000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001AF6	D9C5D7D3C1C3C540			1419		DC CL09'REPLACE ',AL4(REPL0000)	GP10085 12910000
001B03	E2C5D840D3C1C2C5			1420		DC CL09'SEQ LABEL',AL4(SEQ0000)	12920000
001B10	E2C5D8D3C1C2C5D3			1421		DC CL09'SEQLABEL ',AL4(SEQ0000)	GP10085 12930000
001B1D	E2E8E2C1C4C1E3C1			1422		DC CL09'SYSADATA ',AL4(ADATA000)	GP99167 12940000
001B2A	E4E2C9D5C7404040			1423	CNTLUSNG	DC CL09'USING ',AL4(USNG0000)	12950000
001B37	E5C5D94040404040			1424		DC CL09'VER ',AL4(VERF0000)	GP10085 12960000
001B44	E5C5D9C9C6E84040			1425	CNTLTBLN	DC CL09'VERIFY ',AL4(VERF0000)	GP10085 12970000
		0000D		1426	CNTLTBLL	EQU CNTLTBL2-CNTLTBLE SIZE OF ONE ENTRY	GP10085 12980000
		00023		1427	CNTLTBL#	EQU (CNTLTBLN-CNTLTBLE)/CNTLTBLL+1 ENTRY NUMBER	GP10085 12990000
001B51	C1E2D440C5D5C440			1428	CNTLASME	DC CL09'ASM END'	13000000
				1429	*-----*		* 13010000
				1430	*		* 13020000
				1431	*		* 13030000
				1432	*		* 13040000
				1433	*-----*		* 13050000
				1434	DISIN	DCB DDNAME=DISIN, CONTROL STATEMENT DCB	+13060000
						DSORG=PS, .. SEQUENTIAL	+13070000
						EODAD=EXIT0000, .. EOF ADDRESS	+13080000
						LRECL=80, .. MUST BE LRECL=80	+13090000
						MACRF=GM .. GET-MOVE MODE	13100000
			1488	SYSIN	DCB DDNAME=SYSIN, ASSEMBLER'S INPUT DCB	+13110000	
						DSORG=PS, .. SEQUENTIAL	+13120000
						LRECL=80, .. MUST BE LRECL=80	+13130000
						BLKSIZE=3120, .. BLOCK SIZE	+13140000
						MACRF=PM .. PUT-MOVE MODE	13150000
001C1C				1542	REGTBL1	DS OC 1-CHARACTER REGISTER NAMES	13160000
				1543	REG	0,0	13170000
				1546	REG	1,1	13180000
				1549	REG	2,2	13190000
				1552	REG	3,3	13200000
				1555	REG	4,4	13210000
				1558	REG	5,5	13220000
				1561	REG	6,6	13230000
				1564	REG	7,7	13240000
				1567	REG	8,8	13250000
				1570	REG	9,9	13260000
				1573	REG	A,10	13270000
				1576	REG	B,11	13280000
				1579	REG	C,12	13290000
				1582	REG	D,13	13300000
				1585	REG	E,14	13310000
				1588	REG	F,15	13320000
001C5C FF				1591	DC	X'FF'	13330000
001C5D				1592	REGTBL2	DS OC 2-CHARACTER REGISTER NAMES	13340000
				1593	*OLD*	REG R0,0	13350000
				1594	*OLD*	REG R1,1	13360000
				1595	*OLD*	REG R2,2	13370000
				1596	*OLD*	REG R3,3	13380000
				1597	*OLD*	REG R4,4	13390000
				1598	*OLD*	REG R5,5	13400000
				1599	*OLD*	REG R6,6	13410000
				1600	*OLD*	REG R7,7	13420000
				1601	*OLD*	REG R8,8	13430000
				1602	*OLD*	REG R9,9	13440000
				1603		REG 10,10	13450000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					1606	REG	11,11	13460000
					1609	REG	12,12	13470000
					1612	REG	13,13	13480000
					1615	REG	14,14	13490000
					1618	REG	15,15	13500000
					1621	*OLD*	REG RA,10	13510000
					1622	*OLD*	REG RB,11	13520000
					1623	*OLD*	REG RC,12	13530000
					1624	*OLD*	REG RD,13	13540000
					1625	*OLD*	REG RE,14	13550000
					1626	*OLD*	REG RF,15	13560000
001C75	FF				1627	DC	X'FF'	13570000
					1628	*EGTBL3	DS OC	13580000
					1629	*OLD*	REG R10,10	13590000
					1630	*OLD*	REG R11,11	13600000
					1631	*OLD*	REG R12,12	13610000
					1632	*OLD*	REG R13,13	13620000
					1633	*OLD*	REG R14,14	13630000
					1634	*OLD*	REG R15,15	13640000
					1635	*OLD*	DCG X'FF'	13650000
					1637	*-----*		13670000
					1638	*		13680000
					1639	*		13690000
					1640	*		13700000
					1641	*-----*		13710000
000000					1642	REGDSCT	DSECT	13720000
000000					1643	REGNAME	DS CL3	13730000
000003					1644	REGVALUE	DS AL1	13740000
			00004		1645	REGL	EQU *-REGDSCT	13750000
					1646		COPY DISASMDA	13760000
					1647		AIF ('&DAPRT' EQ 'ON').DA010	00010000
					1648		PRINT OFF	00020000
					1859		PRINT ON	02130000
					1860	.DA020	ANOP	02140000
					1861	*-----*		13770000
					1862	*		13780000
					1863	*		13790000
					1864	*		13800000
					1865	*-----*		13810000
					1866	DISASM00	DISASMCM TYPE=DSECT	13820000
					1867+		PRINT OFF	00280000
					2498+		PRINT ON	06440000
000000					2528		END DISASM02	13830000

3-CHARACTER REGISTER NAMES

REGISTER TABLE

REGISTER NAME
VALUE USED IN INSTRUCTIONS

COMMON DATA MAP

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	08	000095	
0001	0001	0C	00019C	
0001	0001	0C	0001A4	
0001	0001	08	000281	
0001	0001	0C	000870	
0001	0001	0C	000878	
0001	0001	0C	000934	
0001	0001	0C	00093C	
0001	0001	0C	000AFC	
0001	0001	0C	000B04	
0001	0001	08	00115D	
0001	0001	0C	001993	
0001	0001	0C	0019A0	
0001	0001	0C	0019AD	
0001	0001	0C	0019BA	
0001	0001	0C	0019C7	
0001	0001	0C	0019D4	
0001	0001	0C	0019E1	
0001	0001	0C	0019EE	
0001	0001	0C	0019FB	
0001	0001	0C	001A08	
0001	0001	0C	001A15	
0001	0001	0C	001A22	
0001	0001	0C	001A2F	
0001	0001	0C	001A3C	
0001	0001	0C	001A49	
0001	0001	0C	001A56	
0001	0001	0C	001A63	
0001	0001	0C	001A70	
0001	0001	0C	001A7D	
0001	0001	0C	001A8A	
0001	0001	0C	001A97	
0001	0001	0C	001AA4	
0001	0001	0C	001AB1	
0001	0001	0C	001ABE	
0001	0001	0C	001ACB	
0001	0001	0C	001AD8	
0001	0001	0C	001AE5	
0001	0001	0C	001AF2	
0001	0001	0C	001AFF	
0001	0001	0C	001B0C	
0001	0001	0C	001B19	
0001	0001	0C	001B26	
0001	0001	0C	001B33	
0001	0001	0C	001B40	
0001	0001	0C	001B4D	
0001	0001	08	001B7D	
0001	0002	0C	0009B8	
0001	0003	0C	0009BC	
0001	0004	0C	0009C0	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
\$ABEND	00001	00000010	01983	00105														
\$ABORT	00001	00000080	01980	00091	00290	00383	00442	00478	00483	00488	00538	00543	00548	00553	00860	00865	00872	01011
				01111	01119	01127	01200	01205	01233	01240	01247							
\$ADADD	00001	00000004	01992	00050	01227													
\$AFLUSH	00001	00000020	01284	00191	00208	00213												
\$ASMIN	00001	00000008	01984	00178														
\$ASMOPEN	00001	00000040	01283	00175	00177	00211	01215	01220										
\$DATADS	00001	00000002	01694	00358														
\$DATAUSR	00001	00000001	01693	00355														
\$ERROR	00001	00000040	01981	00290	00383	00442	00478	00483	00488	00538	00543	00548	00553	00860	00865	00872	01011	01111
				01119	01127	01200	01205	01233	01240	01247								
\$INDD	00001	00000040	01988	00048														
\$LABLU	00001	000000E4	01764	00426	00437													
\$LISTDD	00001	00000002	01993	00050	01227													
\$OFABSR	00001	00000004	02017	00637	00638	00639												
\$OFBCOP	00001	00000001	02019	00631	00632	00633	00634											
\$OFIXSWP	00001	00000080	02013	00626	00627	00628												
\$OFNOBLK	00001	00000040	02014	00629														
\$OFPLSR	00001	00000002	02018	00635	00636													
\$OFROUND	00001	00000010	02015	00630														
\$OFZERO	00001	00000008	02016	00359														
\$OPMASK	00001	00000001	02493	02149														
\$PFASM	00001	00000040	02004	00768	00769	00770	00774											
\$PFBUG	00001	00000001	02007	00771	00772													
\$PFCOPY	00001	00000040	02010	00144	00145	00148												
\$PFDAT	00001	00000008	01999	00761	00762	00763												
\$PFDIR	00001	00000080	01995	00754	00755	00774												
\$PFESD	00001	00000040	01996	00756	00757													
\$PFHAVE	00001	00000002	01285	00076	01249													
\$PFHEX	00001	00000080	02003	00766	00767													
\$PFLBL	00001	00000002	02000	00764	00765													
\$PFMAC	00001	00000080	02009	00142	00143	00146	00147	00148										
\$PFPUN	00001	00000010	02006	00774														
\$PFRLD	00001	00000020	01997	00758	00774													
\$PFSYM	00001	00000010	01998	00759	00760													
\$PFTRC	00001	00000001	02001	00773	00777	02236	02238											
\$PFXRF	00001	00000020	02005	00769	00770	00774												
\$PRTPRT	00001	000000D7	02360	02346	02367													
\$PRTSUBH	00001	000000E2	02359	00064	02242													
\$SEQLABL	00001	00000004	01985	00787	00789													
\$USNGND	00001	00000080	01841	00854														
ABEND000	00002	00000110	00101	01391														
ADATA0L	00001	0000021D	00151	00141														
ADATAOPT	00004	0000019C	00141	00126														
ADATA01	00001	000001A8	00142	00141	00141													
ADATA02	00001	000001B5	00143	00141														
ADATA000	00004	00000124	00113	01392	01404	01422												
ADATA010	00004	0000013C	00118	00120	00140													
ADATA020	00004	0000014C	00122	00119	00124													
ADATA030	00004	0000015C	00126	00123														
ADATA040	00004	00000162	00128	00131														
ADATA099	00006	00000172	00132	00121														
ADATA100	00006	0000018A	00137	00130														
AOP	00004	000000AC	01907	00612	00692	02130												
APR	00004	000000B8	01909	02349														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
APU	00004	000000BC	01910	02370	
ASM0000	00002	0000022A	00157	01393	
ASM0010	00002	00000248	00165	00204 00207 00209	
ASM0015	00004	0000026A	00175	00162 00164	
ASM0020	00002	00000294	00190	00176	
ASM0022	00006	000002B6	00201	00203	
ASM0025	00004	000002C8	00205	00192	
ASM0028	00004	000002D4	00208	00202	
ASM0030	00002	000002DC	00210	00174	
ASM0035	00002	0000030A	00223	00212 00214	
BASEBEGN	00004	0000000C	01669	00268 00283	
BASEDISP	00004	00000014	01671	00286	
BASEDSCT	00001	00000000	01666	00265 00280 01674	
BASEEND	00004	00000010	01670	00284	
BASEEYE	00008	00000004	01668	00282	
BASEL	00001	0000001C	01674	00273	
BASENEXT	00004	00000000	01667	00270 00271 00280	
BASEREG	00001	00000018	01672	00285	
BASE0000	00002	0000031A	00233	01394	
BASE0010	00002	0000036A	00255	00247	
BASE0030	00002	00000376	00259	00254	
BASE0040	00002	0000038E	00267	00272	
BASE0050	00004	000003A4	00273	00266 00269	
BASE0060	00002	000003E8	00288	00253 00323	
BLKTRT	00001	00000A68	02407	02408 02410 02412 02414 02416 02418 02420 02422 02424 02426 02428 02430 02432	
CNTLASME	00009	00001B51	01428	00173	
CNTLBASE	00009	000019B1	01394	00282	
CNTLDATA	00009	000019D8	01397	00347 00520	
CNTLTBL#	00009	00000023	01427	00084	
CNTLTBLE	00009	0000198A	01391	00083 01426 01427	
CNTLTBLL	00009	0000000D	01426	00087 01427	
CNTLTBLN	00009	00001B44	01425	01427	
CNTLTBL2	00009	00001997	01392	01426	
CNTLUSNG	00009	00001B2A	01423	00839	
COMMBASE	00004	00000108	01941	00263 00264 01229 01229	
COMMBLKS	00001	00000225	02025	00080 00246 00360 00469 00516 00532 00672 00818 00820 00848 00869 01067 01150 01182 01231	
COMMCHHX	00016	00000285	02028	01193	
COMMCLR	00004	000000F8	01936	01956 01960	
COMMCSNM	00008	0000014C	01959	00304 00505	
COMMDATA	00004	0000010C	01942	00324 00325	
COMMDD	00001	00000164	01986	00048 00050 01227	
COMMDDWRD	00008	00000000	01874	00672 00674 00685 00693 00698 01158 01161 02261 02262	
COMMFILL	00001	00000161	01977	02306	
COMMFLAG	00001	00000163	01979	00091 00105 00178 00290 00383 00442 00478 00483 00488 00538 00543 00548 00553 00787 00789	
COMMHXCH	00016	00000275	02026	02027	
COMMHXTR	00016	00000185	02027	00377 00380 02253 02256 02259 02263	
COMMLABL	00004	00000118	01945	00404 00405	
COMMMAXL	00003	0000015E	01976	00474	
COMMMOD	00008	00000144	01958	00502	
COMMNPR	00001	000003C7	02082	00620 00621 00622 02083 02085 02087 02089 02091 02093 02095 02097 02099 02101 02103 02105	
COMMPFG	00001	00000168	02012	00359 00603	
COMMPFX	00004	00000169	02020	00516 00534 01231 01238	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
COMMPFXL	00002	00000156	01972	00535															
COMMPQOL	00001	00000162	01978	02298	02313														
COMMPRT	00001	000002C7	02053	00617	00617	00618	00618	00619	00619	02054	02056	02058	02060	02062	02064	02066	02068	02070	
				02072	02074	02076													
COMMREPS	00004	0000013C	01954	00889															
COMMSUBH	00133	0000016D	02021	00058	02239														
COMMSUBL	00002	00000154	01971	00060	02240	02240	02241												
COMMUSNG	00004	00000100	01939	00804															
COMMVERS	00004	00000138	01953	00887															
COMM1F1F	00001	0000021D	02024	01192															
CSCT0000	00002	000003FA	00298	01395	01396														
CTLDATA	00071	00001943	01379	00300	00304	00498	00502	01381											
CTLSTMT	00080	0000193A	01377	00075	00078	00080	00163	00168	00171	00195	00199	00200	00215	00216	00216	00217	00220	00896	
				00897	01380	01389													
CTLSTMTL	00001	00000050	01380	00171															
CTLTYPE	00009	0000193A	01378	00085	00115	00173	00356	00575	00661	00727									
CTL10	00010	00001943	01382	00161	00237	00316	00392	00394	00428	00455	00518	00520	00522	00534	00842				
CTL20	00010	0000194D	01383	00243	00320	00397	00503	00505	00843										
CTL30	00010	00001957	01384	00246	00249	00362	00364	00430	00431	00812									
CTL40	00010	00001961	01385	00261	00365	00368	00818	00823	00848										
CTL50	00010	0000196B	01386	00820	00827	00869													
CTL70	00010	0000197F	01388	00117	00577	00663	00729												
DATAASMT	00001	0000002A	01691	00364															
DATABEGN	00004	0000001C	01687	00331	00348	00351	00376												
DATADSCT	00001	00000000	01681	00326	00345	01702													
DATAEND	00004	00000020	01688	00329	00349	00350	00379												
DATAEYE	00008	00000004	01683	00347															
DATAILEN	00002	00000028	01690	00354	00370														
DATAL	00001	00000030	01702	00338															
DATALEN	00004	00000024	01689	00353															
DATANAME	00008	0000000C	01684	00360															
DATANEXT	00004	00000000	01682	00335	00336	00345													
DATATYPE	00001	0000002B	01692	00355	00358														
DATA0000	00002	0000041A	00311	01397	01398	01399	01400												
DATA0010	00002	0000045A	00328	00337															
DATA0020	00002	00000472	00334	00330															
DATA0030	00004	0000047E	00338	00327	00332														
DATA0040	00002	0000050A	00372	00333															
DISASM00	00001	00000000	01868	00042	01881	02120	02197	02234	02295	02331									
DISASM02	00001	00000000	00032	00033	00041	02528													
DISIN	00004	00001B5C	01438	00056	00071	00167													
DISOP360	00001	00000000	00650	00651															
DISOP370	00001	00000000	00650	00651															
DISOP390	00001	00000000	00650	00651															
DISPIN	00008	0000126A	01287	01176	01176	01188	01188	01192	01193	01194									
DISPOUT	00004	00001273	01289	00245	00251	00268	00286	00318	00322	00331	00349	00400	00409	00419	00429	00825	00829	00851	
				00910	00911	00950	01194												
DSCTDSC	00001	00000000	01709	01715															
EMSG03	00037	000012FE	01308	00089	01309														
EMSG03L	00001	00000025	01309	00089															
EMSG04	00049	00001323	01310	01311															
EMSG05	00038	00001354	01312	01110	01313														
EMSG05L	00001	00000026	01313	01110															
EMSG06	00073	0000137A	01314	00859	01315														
EMSG06L	00001	00000049	01315	00859															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18											
EMSG07	00062	000013C3	01316	00864	01317											
EMSG07L	00001	0000003E	01317	00864												
EMSG08	00025	00001401	01318	01199	01319											
EMSG08L	00001	00000019	01319	01199												
EMSG09	00036	0000141A	01320	01204	01321											
EMSG09L	00001	00000024	01321	01204												
EMSG10	00079	0000143E	01322	00871	01323											
EMSG10L	00001	0000004F	01323	00871												
EMSG11	00035	0000148D	01324	00544	01325											
EMSG11L	00001	00000023	01325	00544												
EMSG12	00049	000014B0	01326	00554	01327											
EMSG12L	00001	00000031	01327	00554												
EMSG13	00034	000014E1	01328	01118	01329											
EMSG13L	00001	00000022	01329	01118												
EMSG14	00061	00001503	01330	01126	01331											
EMSG14L	00001	0000003D	01331	01126												
EMSG15	00076	00001540	01332	00549	01333											
EMSG15L	00001	0000004C	01333	00549												
EMSG16	00058	0000158C	01334	00477	01335											
EMSG16L	00001	0000003A	01335	00477												
EMSG17	00101	000015C6	01336	00482	01337											
EMSG17L	00001	00000065	01337	00482												
EMSG18	00086	0000162B	01338	00487	01339											
EMSG18L	00001	00000056	01339	00487												
EMSG19	00068	00001681	01340	00539	01341											
EMSG19L	00001	00000044	01341	00539												
EMSG20	00066	000016C5	01342	01234	01343											
EMSG20L	00001	00000042	01343	01234												
EMSG21	00064	00001707	01344	01241	01345											
EMSG21L	00001	00000040	01345	01241												
EMSG22	00039	00001747	01346	00382	01351											
EMSG22A	00004	0000176E	01347	00376	00377	00378										
EMSG22B	00004	00001776	01349	00379	00380	00381										
EMSG22L	00001	00000034	01351	00382												
EMSG23	00077	0000177B	01352	00289	01353											
EMSG23L	00001	0000004D	01353	00289												
EMSG24	00001	000017C8	01354	00441												
EMSG24T	00077	000017C9	01355	01354												
EMSG25	00001	00001816	01356	00439												
EMSG25T	00044	00001817	01357	01356												
EMSG26	00001	00001843	01358	00205												
EMSG26T	00051	00001844	01359	01358												
EMSG33	00042	00001877	01360	00132	00598	00701	00744	01361								
EMSG33L	00001	0000002A	01361	00132	00133	00134	00598	00599	00600	00701	00702	00703	00744	00745	00746	
EMSG34	00035	000018A1	01362	00696	01363											
EMSG34L	00001	00000023	01363	00696	00697	00698										
EMSG36	00037	000018C4	01364	01002	01365											
EMSG36L	00001	00000025	01365	01002	01009	01010										
ESDDATA	00001	00000000	01722	01745												
ESDNAME	00008	0000000E	01726	01741												
EXGETOPC	00006	00000554	02161	02154												
EXHEXMVC	00006	00001102	01197	01190												
EXHEXTRT	00006	000010FC	01196	01178												
EXINTPAK	00006	000010AC	01161	01157												
EXINTTTRT	00006	000010A6	01160	01146												

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
EXIT0000	00002	00001132	01211	00051 01456	
EXIT0010	00004	00001162	01227	01216	
EXIT0020	00002	00001190	01237	01230	
EXIT0030	00006	000011A8	01243	01228 01232 01236 01239	
EXIT0040	00004	000011B8	01247	01244	
EXIT0050	00002	000011D0	01253	01248 01250	
EXMVCHX	00006	00000E24	00954	00952	
EXPRTCLC	00006	00000AF4	00752	00129 00589 00595 00741	
FINDWORD	00002	00000F1C	01031	00905 00940	
GETMAIN	00004	00000684	02296	00274 00339 00416 00832 00991	
GETOPEXT	00004	00000546	02157	02150	
GETOPLN	00001	0000055A	02162	02128	
GETOPNOT	00004	0000054E	02159	02133 02143 02148 02156	
GETOPTMK	00004	00000526	02149	02134	
GETOPWRK	00006	0000055E	02163	02153 02153 02155 02161	
HEXTRT	00001	00000868	02389	01196 02390 02392 02394 02396 02398	
HEX0000	00006	000010B2	01176	00244 00250 00262 00317 00321 00398 00824 00828 00909 00945 01149	
HEX0010	00002	000010D2	01184	01181	
HEX0040	00006	00001108	01199	01151 01183	
HEX0050	00006	0000111A	01204	01147 01154 01179 01186	
H4096	00002	00001264	01278	00257	
INTG000	00002	00001076	01145	00369	
INTTRT	00001	00000968	02400	01160 02401 02403 02405	
LABLDISP	00004	00000014	01756	00409 00429	
LABLDSCT	00001	00000000	01752	00406 00423 00424 01768	
LABLEYE	00008	00000004	01754	00427	
LABLL	00001	00000024	01768	00415	
LABLNAME	00008	0000000C	01755	00428	
LABLNEXT	00004	00000000	01753	00412 00413 00423 00424	
LABLSRCE	00001	00000022	01765	00426	
LABLTYPE	00001	00000021	01759	00430 00433 00435 00437	
LABL0000	00002	00000548	00391	01401	
LABL1160	00002	00000588	00408	00414	
LABL1170	00004	000005A2	00415	00407 00411	
LABL1180	00004	00000602	00437	00432	
LABL1190	00004	0000060A	00439	00410	
LABL9990	00004	00000612	00441	00393 00395	
LABL9995	00004	00000616	00442	00440	
LINEIN	00003	00001279	01293	00454 00454 00464 00464 00464 00465 00471	
LINEOUT	00003	0000127C	01294	00471 00472 00474	
LINE0000	00002	00000622	00450	01402 01403 01405	
LINE0010	00002	0000063C	00457	00467	
LINE0020	00002	00000668	00468	00459	
LINE0030	00002	0000068C	00476	00461 00463	
LINE0040	00002	0000069E	00481	00470	
LINE0050	00002	000006B0	00486	00473	
MAINRSV	00004	00000858	02387	02296 02302 02304 02308 02311 02317	
MODENT	00004	00000064	00037	00033	
MODHEAD	00023	00000005	00035	00034	
MODSAVE	00004	0000001C	00036	00043	
MOD0000	00002	000006C2	00496	01406 01407 01408	
NBLTRT	00001	00000B68	02434	02435 02437	
NEXTBLNK	00004	00000F00	01022	00901 00917 01028 01033	
NEXTTEXT	00004	00000EEC	01015	00903 00919 00926 01019	
OPCD000	00004	000009C4	00659	01409 01410 01411	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
OPCD0010	00004	000009DC	00664	00666															
OPCD0020	00004	000009EC	00668	00665	00670														
OPCD0030	00006	000009FC	00672	00669															
OPCD0040	00004	00000A0C	00676	00680															
OPCD0050	00004	00000A20	00681	00677															
OPCD0091	00006	00000A52	00696	00691															
OPCD0099	00006	00000A6A	00701	00671	00682														
OPDSECT	00001	00000000	02456	02131	02494														
OPENIN	00004	00000090	00054	00049															
OPFLAGS	00001	00000007	02485	02149															
OPFLAG1	00001	00000001	02458	02138															
OPFLAG2	00001	00000002	02459	02140															
OPFLAG3	00001	00000003	02460	02142															
OPMASK	00006	00000008	02495	02155															
OPMNEM	00006	00000000	02457	02458	02459	02460													
OPTS000	00004	00000796	00573	01412	01413	01414													
OPTS0010	00004	000007AE	00578	00580	00605	00616	00624												
OPTS0020	00004	000007BE	00582	00579	00584														
OPTS0030	00004	000007CE	00586	00583															
OPTS0040	00004	000007D4	00588	00591															
OPTS0060	00004	000007EA	00594	00597															
OPTS0099	00006	000007FA	00598	00611															
OPTS0100	00006	00000812	00603	00590															
OPTS0120	00002	0000081E	00606	00596															
OPTS0140	00006	00000846	00617	00608															
PARM0010	00004	000000B0	00071	00079	00081	00092	00106	00125	00136	00227	00287	00292	00305	00363	00366	00371	00385	00434	
				00436	00438	00444	00475	00480	00485	00490	00504	00506	00536	00541	00546	00551	00556	00585	
				00602	00695	00700	00705	00737	00748	00790	00794	00852	00857	00862	00867	00874	01000	01013	
				01113	01121	01129	01202	01207											
PARM0020	00006	000000E6	00085	00088															
PARM0030	00004	0000010A	00094	00086															
PGMFLAG	00001	00001269	01281	00076	00175	00177	00191	00208	00211	00213	01215	01220	01249						
PMIN	00003	00001266	01280	00472															
PRFX0000	00002	000006F0	00512	01415	01416														
PRFX0010	00002	00000722	00525	00530															
PRFX0020	00002	00000736	00531	00527															
PRFX0030	00002	0000074E	00537	00517															
PRFX0040	00002	00000760	00542	00519															
PRFX0050	00002	00000772	00547	00521															
PRFX0060	00002	00000784	00552	00533															
PRINTDAT	00004	000006F0	02347	00065	02243														
PRINTDEF	00001	00000C0C	00774	01246															
PRINTFG1	00001	00000165	01994	00749	01243	01243	01246	02236	02238										
PRINTFG3	00001	00000167	02008	00137	00138														
PRINTMSG	00004	000006BE	02332	00206	00443	01252													
PRINTMVR	00006	000006E6	02344	02341															
PRINTOL	00001	00000C33	00777	00753															
PRINTOPT	00004	00000AFC	00753	00738															
PRINTO1	00001	00000B08	00754	00753	00753														
PRINTO2	00001	00000B15	00755	00753															
PRINTREC	00004	000006EC	02346	01209	02265	02343													
PRINTREX	00004	000006FE	02351	02335															
PRINTRSV	00004	00000848	02386	02332	02342	02347	02351	02368	02372										
PRNT0000	00004	00000A82	00725	01417															
PRNT0010	00004	00000A9A	00730	00732	00751														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
				00443 00452 00498 00499 00500 00514 00573 00659 00674 00678 00679 00725 00785 00802 00832														
				00835 00901 00903 00905 00917 00919 00926 00940 00950 00951 00954 00991 01016 01020 01023														
				01025 01029 01032 01033 01034 01037 01039 01040 01063 01079 01095 01108 01116 01124 01145														
				01153 01161 01177 01185 01197 01209 01213 01218 01252 01255 01258 01260 02124 02125 02126														
				02128 02135 02135 02137 02139 02141 02142 02144 02144 02145 02146 02157 02158 02160 02212														
				02219 02243 02265 02275 02296 02307 02308 02309 02311 02317 02318 02332 02342 02347 02350														
				02351 02354 02368 02371 02372 02373														
R15	00001	0000000F	02526	00033 00038 00094 00095 00127 00127 00128 00129 00139 00199 00587 00587 00588 00589 00593														
				00593 00594 00595 00604 00615 00623 00739 00739 00740 00741 00750 00947 00954 00961 00971														
				00972 00972 01152 01153 01156 01157 01184 01185 01187 01189 01190 01259 01259 02121 02122														
				02122 02123 02125 02129 02130 02131 02132 02132 02146 02147 02147 02159 02199 02218 02235														
				02274 02305 02305 02306 02311 02317 02333 02333 02334 02337 02339 02340 02341 02349 02350														
				02370 02371														
R2	00001	00000002	02513	00116 00120 00124 00243 00249 00261 00316 00320 00324 00335 00344 00368 00397 00456 00467														
				00523 00530 00576 00580 00584 00662 00666 00670 00679 00680 00728 00732 00736 00823 00827														
				00986 00988 00989 00993 00994 00997 01031 01036 01082 01082 01098 01102 01145 01148 01150														
				01155 01160 01177 01182 01191 01196 02136 02136 02138 02139 02140 02141														
R3	00001	00000003	02514	00117 00264 00265 00271 00280 00281 00325 00326 00336 00345 00346 00404 00412 00423 00524														
				00524 00529 00529 00535 00577 00663 00675 00729 00804 00805 00809 00838 00946 00947 00948														
				00949 00960 00961 00973 00973 00975 00995 00997														
R4	00001	00000004	02515	00047 00943 00944 00948 00951 00952 00959 00966 00968 01081 01097 01100 01104 01104 02151														
				02152 02154														
R5	00001	00000005	02516	00126 00128 00131 00137 00138 00263 00270 00279 00586 00588 00591 00592 00594 00597 00603														
				00607 00613 00738 00740 00743 00749 00752 00896 00928 00930 00930 00933 00935 00959 00963														
				00963 00964 00966 00968 00970 00970 00971 00976 00978 00978 00979 01015 01017 01017 01018														
				01022 01024 01026 01026 01027 01031 01035 02244 02247 02267 02267 02268 02270 02272														
R6	00001	00000006	02517	00131 00591 00597 00606 00606 00607 00609 00612 00613 00614 00692 00693 00694 00743 00897														
				00964 00976 01018 01027														
R7	00001	00000007	02518	00126 00586 00592 00609 00610 00610 00614 00673 00703 00738														
R8	00001	00000008	02519	00887 00889 00994														
R9	00001	00000009	02520	00077 00090 00135 00172 00238 00244 00250 00262 00291 00317 00321 00369 00384 00398 00405														
				00406 00413 00424 00425 00479 00484 00489 00540 00545 00550 00555 00601 00699 00704 00747														
				00793 00813 00824 00828 00861 00866 00873 00909 00945 01012 01103 01112 01120 01128 01159														
				01195 01201 01206 01210 01235 01242														
SAVEBEGN	00004	0000125C	01276	00245 00252 00256 00283 00318 00322 00329 00348 00825 00829 00850														
SAVEEND	00004	00001260	01277	00251 00252 00258 00284														
SEQ0000	00002	000000C40	00783	01420 01421														
SEQ0010	00002	000000C5C	00791	00788														
SETVDONE	00004	000000E82	00985	00927 00977														
SETVFEND	00004	000000EA4	00995	00998														
SETVRSTR	00002	000000E2A	00959	00934 00936														
SETVRSYN	00006	000000EBA	01002	00902 00904 00906 00912 00918 00920 00941 00965 00987														
SETVRSYP	00004	000000EE0	01011	01004														
SETVRTMV	00006	000000E5A	00971	00967														
SETVRTND	00004	000000E6C	00975	00969														
SETVRTUP	00004	000000E38	00963	00974														
SETVSTOR	00004	000000EB2	00999	00996														
SUBCODE	00001	000018E9	01366	00895 00907 00916 00942 00962 00985 01003 01006														
SUBHEAD	00020	0000127F	01296	00058 01297														
SUBHEADL	00001	000000014	01297	00058 00059														
SUB36M#	00001	000000005	01372	01003														
SUB36M1	00016	000018EA	01367	01008 01010 01372 01372														
SUB36M2	00016	000018FA	01368	01372														
SYMDATA	00001	000000000	01817	01822														
SYSIN	00004	00001BBC	01492	00183 00186 00194 00219 01225														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
TAB@OPCD	00004	000009B8	00651	00609															
TABOPCL	00001	000009A8	00649	00640															
TABOPCS	00004	00000934	00640	00592															
TABOPC1	00001	00000940	00641	00640	00640														
TABOPC2	00001	0000094D	00642	00640															
TABOPTL	00001	00000925	00639	00625															
TABOPTS	00004	00000870	00625	00586															
TABOPT1	00001	0000087C	00626	00625	00625														
TABOPT2	00001	00000889	00627	00625															
TPODA1A	00008	00000017	02279	02252	02252	02253	02253	02254	02254										
TPODA1B	00008	00000020	02280	02255	02255	02256	02256	02257	02257										
TPODA2A	00008	0000002A	02281	02258	02258	02259	02259	02260	02260										
TPODA2B	00008	00000033	02282	02262	02262	02263	02263	02264	02264										
TPOMOD	00008	00000003	02277	02250	02250														
TPOTID	00008	0000000D	02278	02251	02251														
TRACEPEN	00004	00000662	02274	02237	02246	02269													
TRACEPIN	00004	00000646	02267	02245	02249														
TRACEPPR	00004	000005E2	02248	02271	02273														
TRACESHD	00027	00000668	02283	02239	02239	02240													
TRACE000	00002	00000564	02196	00103	00113	00159	00225	00235	00277	00302	00313	00342	00374	00402	00421	00452	00500	00514	
				00573	00659	00725	00785	00802	00835	01063	01079	01095	01108	01116	01124	01213	01218	01255	
TRACE010	00002	00000580	02208	02206															
TRACE020	00002	000005A8	02217	02201															
TRCESAVE	00004	00000808	02385	02121	02157	02159	02199	02218	02235	02274									
TRCURR	00004	000000D4	01922	02200	02209	02244	02268												
TRDATA1	00008	000000E0	01925	00276	00301	00341	00401	00418	00499	00834	02213	02215	02215						
TRDATA2	00008	000000E8	01926	00420	02214	02216	02216												
TREDATA1	00008	00000010	02447	02213	02252	02255													
TREDATA2	00008	00000018	02448	02214	02258	02261													
TREID	00008	00000008	02446	02212	02251														
TREMOD	00008	00000000	02445	02211	02248	02250													
TRENTYR	00001	00000000	02444	02198	02247	02266	02266	02449											
TRENTYRL	00001	00000020	02449	02204	02266	02267													
TRLAST	00004	000000CC	01920	02205	02270														
TRIST	00004	000000C4	01918	02207	02272														
USNGBASE	00001	00000030	01839	00847															
USNGBEGN	00004	00000028	01837	00850															
USNGDSCT	00001	00000000	01829	00805	01843														
USNGDSNM	00008	0000000C	01832	00842															
USNGEND	00004	0000002C	01838	00851															
USNGEYE	00008	00000004	01831	00839															
USNGFLAG	00001	00000031	01840	00854															
USNGL	00001	00000034	01843	00831															
USNGLBNM	00008	00000014	01833	00843															
USNGNEXT	00004	00000000	01830	00807	00837														
USNG0000	00002	00000C6A	00800	01423															
USNG0010	00002	00000C7A	00806	00810															
USNG0020	00002	00000C88	00811	00808															
USNG0030	00004	00000CCC	00831	00870															
USNG0040	00002	00000D1C	00853	00849															
USNG0050	00002	00000D24	00858	00821															
USNG0060	00002	00000D36	00863	00830															
USNG0070	00002	00000D48	00868	00819															
VERF0000	00004	00000D64	00887	01424	01425														
VERPL	00001	0000004C	01856	00990	00992														

[illegible]

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
=CL80'PRINT		OPSYN ANOP	'		
	00080	000011E8	01263	00187	
=CL8'LABL'					
	00008	00001238	01264	00427	
=C'DATA'	00004	00001240	01265	00394	
=C'0 '	00002	00001244	01266	00163	
=H'8'	00002	00001246	01267	01038	
=C' END '					
	00005	00001248	01268	00201	
=C'END'	00003	0000124D	01269	00217	
=9X'FF'	00001	00001250	01270	00620 00621 00622	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 1383

TOTAL RECORDS READ FROM SYSTEM LIBRARY 5296

TOTAL RECORDS PUNCHED 139

TOTAL RECORDS PRINTED 2081

ASM 0201 00.48 07/11/18

DISASM13	ER	0002
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	MACRO	00020000
				3	PROC &TYPE,&PROC1,&PROC2,&FLAGS	00030000
				4	LCLC &A,&OPTS	00040000
				5 &OPTS	SETC '00'	00050000
				6	AIF (T'&FLAGS EQ '0').PROC20	00060000
				7 &OPTS	SETC '&FLAGS'	00070000
				8 .PROC20	ANOP	00080000
				9	DC X'&TYPE' RECORD TYPE	00090000
				10	DC AL1(&OPTS) FLAGS	00100000
				11	AIF (T'&PROC1 EQ '0').PROC30	00110000
				12	DC AL2(&PROC1-DISASM03) DISPLACEMENT TO PROCESSING ROUTINE	00120000
				13	AGO .PROC40	00130000
				14 .PROC30	ANOP	00140000
				15	DC AL2(0) NO PROCESSING ROUTINE	00150000
				16 .PROC40	ANOP	00160000
				17	AIF (T'&PROC2 EQ '0').PROC50	00170000
				18	DC AL2(&PROC2-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				19	MEXIT	00190000
				20 .PROC50	ANOP	00200000
				21	DC AL2(0) NO EXTERNAL PROCESSING MODULE	00210000
				22	MEND	00220000
				23	COPY DISASMGB	00230000
				24 *	-----*	00010000
				25 *		00020000
				26 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				27 *		00040000
				28 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				29 *		00060000
				30 *	-----*	00070000
				31	GBLA &TRNBRG,&MAXL,&MINL	00080000
				32	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				33	GBLC &TROPT,&DAPRT,&COMPT	00100000
				34	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				35 *	-----*	00240000
				36 *		00250000
				37 *	MODULE NAME: DISASM03	00260000
				38 *		00270000
				39 *	FUNCTION:	00280000
				40 *	OBJECT MODULE READER. MANY OF THE FIELDS IN THE DIRECTORY	00290000
				41 *	ENTRY ARE INTERPRETED AND PRINTED (MODULE SIZE, WHETHER OR NOT	00300000
				42 *	THE MODULE HAS THE RENT, REUS, REFR FLAGS, ETC). IF THE MODULE	00310000
				43 *	NAME IS AN ALIAS, THE REAL MODULE'S DIRECTORY INFO WILL BE	00320000
				44 *	PRINTED ALSO. THE ESD AND RLD INFO FROM THE MODULE IS PRINTED	00330000
				45 *	AND CONTROL BLOCKS BUILT THAT WILL BE USED LATER FOR GENERATING	00340000
				46 *	LABELS AND ENTRY STATEMENTS. MODULE DISASM04 IS CALLED AS A	00350000
				47 *	SUB-FUNCTION TO INTERPRET ESD DATA. MODULE DISASM05 IS CALLED	00360000
				48 *	AS A SUB-FUNCTION TO INTERPRET RLD DATA.	00370000
				49 *		00380000
				50 *	IF THE MODULE IS SUCCESSFULLY READ AND THE REQUESTED CSECT	00390000
				51 *	LOCATED, COMMTXT WILL BE SET TO THE CSECT'S STORAGE ADDRESS,	00400000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				52 *	COMMCSAD WILL BE THE CSECT'S ADDRESS WITHIN THE LOAD MODULE,	* 00410000
				53 *	COMMSEP WILL BE THE LOAD MODULE'S ENTRY POINT, COMMSEA WILL	* 00420000
				54 *	BE THE CSECT'S ENDING ADDRESS WITHIN THE LOAD MODULE, AND	* 00430000
				55 *	COMMCSLN WILL THE THE CSECT'S LENGTH.	* 00440000
				56 *		* 00450000
				57 *	-----*	00460000
				58	DISASM03 MODHEAD BASE=(R12,R8) HOUSEKEEPING GP99140	00470000
000000				59+	DISASM03 START 0	00070000
000000	47F0 F064	00064		60+	B MODENT-DISASM03(,R15) BRANCH AROUND	00100000
000004	17			61+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F3			62+	MODHEAD DC C'DISASM03 07/11/18 00.48'	00120000
00001C	0000000000000000			63+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		64+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			65+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
00006A	4180 0800	00800		66+	LA R8,2048	00240000
00006E	4188 C800	00800		67+	LA R8,2048(R8,R12)	00290000
			00000	68+	USING DISASM03,R12,R8	00330000
			00000	69+	USING DISASM00,R11	00360000
000072	41E0 C01C	0001C		70+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
000076	50E0 D008	00008		71+	ST R14,8(,R13) CHAIN DOWN	00380000
00007A	50D0 E004	00004		72+	ST R13,4(,R14) CHAIN UP	00390000
00007E	18DE			73+	LR R13,R14 NEW SAVE AREA	00400000
				74	DEVTYPE DISMOD+DCBDDNAM-IHADCB,COMMDWRD LOOK AT DD GP10044	00480000
000080	4110 CEAC	00EAC		75+	LA 1,DISMOD+DCBDDNAM-IHADCB LOAD PARAMETER REG 1	01900002
000084	4100 B000	00000		76+	LA 0,COMMDWRD LOAD PARAMETER REG 0	02500002
000088	0A18			77+	SVC 24	00180000
00008A	12FF			78	LTR R15,R15 DD FOUND ? GP10044	00490000
00008C	4770 C6B4	006B4		79	BNZ BADFILE HOW COME ? GP10044	00500000
000090	9500 B002	00002		80	CLI COMMDWRD+2,0 DD DUMMY ? GP10044	00510000
000094	4780 C6B4	006B4		81	BE BADFILE YES; NOT SUPPORTED GP10044	00520000
000098	9520 B002	00002		82	CLI COMMDWRD+2,X'20' DASD ? GP10044	00530000
00009C	4770 C618	00618		83	BNE READOBJ NO; MUST BE SEQUENTIAL OBJECT DECK GP10044	00540000
				84	RDJFCB DISMOD GET THE JFCB GP10044	00550000
0000A0				85+	CNOP 0,4 ALIGN LIST TO FULLWORD	01740001
0000A0	4510 C0A8	000A8		86+	BAL 1,*+8 LOAD REG1 W/LIST ADDR.	01780000
0000A4	80			87+	DC AL1(128) OPTION BYTE	01900000
0000A5	000E84			88+	DC AL3(DISMOD) DCB ADDRESS	01920000
0000A8	0A40			89+	SVC 64 ISSUE RDJFCB SVC	00200000
				90	OBTAIN CAMLIST GET THE FORMAT 1 DSCB FOR DISMOD GP10044	00560000
0000AA	4110 CF90	00F90		91+	LA 1,CAMLIST LOAD PARAMETER REG 1	01900002
0000AE	0A1B			92+	SVC 27 ISSUE OBTAIN SVC	00100019
0000B0	12FF			93	LTR R15,R15 F1 FOUND ? GP10044	00570000
0000B2	4770 C6B4	006B4		94	BNZ BADFILE NOW COME ? GP10044	00580000
0000B6	9500 CFF3	00FF3		95	CLI DS1DSORG+1,0 FUNNY DSORG ? GP10044	00590000
0000BA	4770 C6B4	006B4		96	BNE BADFILE NO VSAM SUPPORT GP10044	00600000
0000BE	9102 CFF2	00FF2		97	TM DS1DSORG,DS1DSGPO PARTITIONED ? GP10044	00610000
0000C2	4780 C618	00618		98	BZ READOBJ NO; MUST BE OBJECT DECK GP10044	00620000
0000C6	91C0 CFF4	00FF4		99	TM DS1RECFM,X'CO' UNDEFINED ? GP10044	00630000
0000CA	47E0 C618	00618		100	BNO READOBJ NO; MUST BE OBJECT DECK GP10044	00640000
0000CE	9101 CF36	00F36		101	TM JFCBIND1,JFCPDS MEMBER NAME SPECIFIED ? GP10044	00650000
0000D2	4780 C0EC	000EC		102	BZ NOMEM NO GP10044	00660000
0000D6	D207 B144 CFOC	00144 00F0C		103	MVC COMMMOD,JFCBELNM MOVE TO WORK AREA GP10044	00670000
0000DC	D707 CF0C CF0C	00F0C 00F0C		104	XC JFCBELNM,JFCBELNM RESET IT GP10044	00680000
0000E2	94FE CF36	00F36		105	NI JFCBIND1,255-JFCPDS AND IN JFCB GP10044	00690000
0000E6	9648 CF14	00F14		106	OI JFCBTSDM,JFCNWRIT+JFCVSL NO REWRITE; MODIFIED GP10044	00700000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					107	NOMEM	OPEN (DISMOD,INPUT),TYPE=J OPEN DISMOD	GP10044 00710000
0000EA	0700				108+	CNOP	0,4	ALIGN LIST TO FULLWORD 01740001
0000EC	4510	C0F4	000F4		109+	NOMEM	BAL 1,*+8	LOAD REG1 W/LIST ADDR. 01780000
0000F0	80				110+	DC	AL1(128)	OPTION BYTE 01900000
0000F1	000E84				111+	DC	AL3(DISMOD)	DCB ADDRESS 01920000
0000F4	0A16				112+	SVC	22	ISSUE OPENJ SVC 04040000
0000F6	D207	C7D8	B144	007D8	00144	113	MVC DIRMEM,COMMMOD	SET MEMBER NAME = MODULE NAME 00720000
0000FC					114	MOD0010	DS OH	00730000
					115	BLDL	DISMOD,BLDLIST	ISSUE BLDL 00740000
0000FC	4110	CE84	00E84		116+	LA	1,DISMOD	LOAD PARAMETER REG 1 01900002
000100	4100	C7D4	007D4		117+	LA	0,BLDLIST	LOAD PARAMETER REG 0 02500002
000104	4111	0000	00000		118+	LA	1,0(1)	CLEAR HIGH ORDER BYTE ZA00734 00110000
000108	0A12				119+	SVC	18	LINK TO BLDL ROUTINE 00120000
00010A	12FF				120	LTR	R15,R15	BLDL SUCCESSFUL? 00750000
00010C	4770	C63E	0063E		121	BNZ	ERR0010	NO 00760000
000110	D207	C857	C7D8	00857	007D8	122	MVC MSG01MEM,DIRMEM	SET MEMBER NAME 00770000
000116	9180	C7E5	007E5		123	TM	DIRINDS,\$ALIAS	IS THIS AN ALIAS? 00780000
00011A	4710	C128	00128		124	BO	MOD0020	YES 00790000
00011E	D202	C86F	C82D	0086F	0082D	125	MVC MSG01ALS,NO	NOT AN ALIAS 00800000
000124	47F0	C12E	0012E		126	B	MOD0030	00810000
000128					127	MOD0020	DS OH	00820000
000128	D202	C86F	C830	0086F	00830	128	MVC MSG01ALS,YES	MEMBER IS AN ALIAS 00830000
00012E					129	MOD0030	DS OH	00840000
00012E	F363	C890	C7E6	00890	007E6	130	UNPK MSG01TXT(7),DIRTTTR(4)	00850000
000134	DC05	C890	B185	00890	00185	131	TR MSG01TXT,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00860000
00013A	9240	C896	00896		132	MVI	MSG01TXT+6,C' '	RESTORE BLANK 00870000
00013E	F363	C8B2	C7EA	008B2	007EA	133	UNPK MSG01NTE(7),DIRNTTTR(4)	00880000
000144	DC05	C8B2	B185	008B2	00185	134	TR MSG01NTE,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00890000
00014A	9240	C8B8	008B8		135	MVI	MSG01NTE+6,C' '	RESTORE BLANK 00900000
00014E	D26D	B710	C84B	00710	0084B	136	MVC PRTDATA(MSG01L),MSG01	SET MESSAGE 00910000
000154	45A0	C6EA	006EA		137	BAL	R10,PRT0000	PRINT MESSAGE 00920000
000158	1B11				138	SR	R1,R1	CLEAR REGISTER 00930000
00015A	4310	C7ED	007ED		139	IC	R1,DIR#NOTE	NUMBER OF NOTE LIST ENTRIES 00940000
00015E	4E10	B000	00000		140	CVD	R1,COMMDWRD	CONVERT TO DECIMAL 00950000
000162	D203	C8CA	C7B8	008CA	007B8	141	MVC MSG02NTE,=X'40202120'	INITIALIZE WITH EDIT WORD 00960000
000168	DE03	C8CA	B006	008CA	00006	142	ED MSG02NTE,COMMDWRD+6	EDIT NOTE LIST 00970000
00016E	F363	C8E8	C7F0	008E8	007F0	143	UNPK MSG02SZ(7),DIRMSIZE(4)	UNPACK MODULE SIZE 00980000
000174	DC05	C8E8	B185	008E8	00185	144	TR MSG02SZ,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00990000
00017A	9240	C8EE	008EE		145	MVI	MSG02SZ+6,C' '	RESTORE BLANK 01000000
00017E	D203	B121	C7F5	00121	007F5	146	MVC COMMCSEP+1,DIREPA	SAVE ENTRY POINT 01010000
000184	F363	C901	C7F5	00901	007F5	147	UNPK MSG02EPA(7),DIREPA(4)	UNPACK ENTRY POINT 01020000
00018A	DC05	C901	B185	00901	00185	148	TR MSG02EPA,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 01030000
000190	9240	C907	00907		149	MVI	MSG02EPA+6,C' '	RESTORE BLANK 01040000
000194	D207	C924	B225	00924	00225	150	MVC MSG02MEM,COMMBLKS	CLEAR MEMBER NAME 01050000
00019A	9180	C7E5	007E5		151	TM	DIRINDS,\$ALIAS	AN ALIAS? 01060000
00019E	47E0	C1A8	001A8		152	BNO	MOD0040	NO 01070000
0001A2	D207	C924	C7FE	00924	007FE	153	MVC MSG02MEM,DIRRMEM	SET REAL MEMBER NAME 01080000
0001A8					154	MOD0040	DS OH	01090000
0001A8	D272	B710	C8B9	00710	008B9	155	MVC PRTDATA(MSG02L),MSG02	SET MESSAGE 01100000
0001AE	45A0	C6EA	006EA		156	BAL	R10,PRT0000	PRINT MESSAGE 01110000
0001B2	4110	C7FB	007FB		157	LA	R1,DIRSCTR	START OF VARIABLE PORTION 01120000
0001B6	9110	C7F8	007F8		158	TM	DIRATTR3,\$SSI	SSI INFO PRESENT? 01130000
0001BA	47E0	C1CA	001CA		159	BNO	MOD0050	NO 01140000
0001BE	4110	1005	00005		160	LA	R1,L'DIRSSI+1(,R1)	SKIP SSI INFO CHG14201 01150000
0001C2	8810	0001	00001		161	SRL	R1,1	ENFORCE SSI SECTION ADD14201 01160000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001C6	8910	0001	00001		162	SLL	R1,1	ALIGNMENT ADD14201 01170000
0001CA					163	MOD0050 DS	OH	01180000
0001CA	9180	C7E5	007E5		164	TM	DIRINDS,\$ALIAS	IS THIS AN ALIAS? 01190000
0001CE	47E0	C1D6	001D6		165	BNO	MOD0060	NO 01200000
0001D2	4110	100B	0000B		166	LA	R1,L'DIRMEP+L'DIRRMEM(,R1)	01210000
0001D6					167	MOD0060 DS	OH	01220000
0001D6	9104	C7EE	007EE		168	TM	DIRATTR1,\$SCTR	SCATTER LOAD? 01230000
0001DA	47E0	C1E2	001E2		169	BNO	MOD0070	NO 01240000
0001DE	4110	1008	00008		170	LA	R1,8(,R1)	SKIP SCATTER STUFF 01250000
0001E2					171	MOD0070 DS	OH	01260000
0001E2	F321	C936	1001	00936	00001	172	UNPK MSG03ATH(3),1(2,R1)	UNPACK AUTH CODE 01270000
0001E8	DC01	C936	B185	00936	00185	173	TR MSG03ATH,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 01280000
0001EE	9240	C938		00938		174	MVI MSG03ATH+2,C' '	RESTORE BLANK 01290000
0001F2	D207	C953	B225	00953	00225	175	MVC MSG03SSI,COMMBLKS	CLEAR SSI INFO 01300000
0001F8	9110	C7F8		007F8		176	TM DIRATTR3,\$SSI	SSI INFO PRESENT? 01310000
0001FC	47E0	C244		00244		177	BNO MOD0100	NO 01320000
000200	4110	C7FB		007FB		178	LA R1,DIRSCTR	START OF VARIABLE PORTION 01330000
000204	9104	C7EE		007EE		179	TM DIRATTR1,\$SCTR	SCATTER LOAD? 01340000
000208	47E0	C21C		0021C		180	BNO MOD0080	NO 01350000
00020C	9180	C7E5		007E5		181	TM DIRINDS,\$ALIAS	ALIAS? 01360000
000210	4710	C244		00244		182	BO MOD0100	YES.. NO SSI 01370000
000214	4110	1008		00008		183	LA R1,8(,R1)	SKIP SCATTER STUFF 01380000
000218	47F0	C228		00228		184	B MOD0090	01390000
00021C					185	MOD0080 DS	OH	01400000
00021C	9180	C7E5		007E5		186	TM DIRINDS,\$ALIAS	ALIAS? 01410000
000220	47E0	C228		00228		187	BNO MOD0090	NO 01420000
000224	4110	100B		0000B		188	LA R1,L'DIRMEP+L'DIRRMEM(,R1)	01430000
000228	4110	1001		00001		189	MOD0090 LA R1,1(,R1)	FIX SSI INFO ADD14201 01440000
00022C	8810	0001		00001		190	SRL R1,1	ENFORCE SSI SECTION ADD14201 01450000
000230	8910	0001		00001		191	SLL R1,1	ALIGNMENT ADD14201 01460000
000234	F384	C953	1000	00953	00000	192	UNPK MSG03SSI(9),0(5,R1)	UNPACK SSI INFO 01470000
00023A	DC07	C953	B185	00953	00185	193	TR MSG03SSI,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 01480000
000240	9240	C95B		0095B		194	MVI MSG03SSI+8,C' '	RESTORE BLANK 01490000
000244					195	MOD0100 DS	OH	01500000
000244	9180	C7EE		007EE		196	TM DIRATTR1,\$RENT	RE-ENTRANT? 01510000
000248	4710	C256		00256		197	BO MOD0110	YES 01520000
00024C	D202	C973	C82D	00973	0082D	198	MVC MSG03RNT,NO	NOT RE-ENTRANT 01530000
000252	47F0	C25C		0025C		199	B MOD0120	01540000
000256					200	MOD0110 DS	OH	01550000
000256	D202	C973	C830	00973	00830	201	MVC MSG03RNT,YES	RE-ENTRANT 01560000
00025C					202	MOD0120 DS	OH	01570000
00025C	9140	C7EE		007EE		203	TM DIRATTR1,\$REUS	REUSABLE? 01580000
000260	4710	C26E		0026E		204	BO MOD0130	YES 01590000
000264	D202	C98F	C82D	0098F	0082D	205	MVC MSG03RUS,NO	NOT REUSABLE 01600000
00026A	47F0	C274		00274		206	B MOD0140	01610000
00026E					207	MOD0130 DS	OH	01620000
00026E	D202	C98F	C830	0098F	00830	208	MVC MSG03RUS,YES	REUSABLE 01630000
000274					209	MOD0140 DS	OH	01640000
000274	D265	B710	C92C	00710	0092C	210	MVC PRTDATA(MSG03L),MSG03	SET MESSAGE 01650000
00027A	45A0	C6EA		006EA		211	BAL R10,PRT0000	PRINT MESSAGE 01660000
00027E	9120	C7EE		007EE		212	TM DIRATTR1,\$OVRLY	OVERLAY? 01670000
000282	4710	C290		00290		213	BO MOD0150	YES 01680000
000286	D202	C99A	C82D	0099A	0082D	214	MVC MSG04OVR,NO	NOT OVERLAY 01690000
00028C	47F0	C296		00296		215	B MOD0160	01700000
000290					216	MOD0150 DS	OH	01710000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000290	D202	C99A	C830	0099A	00830	217	MVC MSG04OVR,YES	OVERLAY 01720000
000296						218	MOD0160 DS OH	01730000
000296	9104	C7EE		007EE		219	TM DIRATTR1,\$SCTR	SCATTER LOAD? 01740000
00029A	4710	C2A8		002A8		220	BO MOD0170	YES 01750000
00029E	D202	C9BD	C82D	009BD	0082D	221	MVC MSG04SCT,NO	NOT SCATTER LOAD 01760000
0002A4	47F0	C2AE		002AE		222	B MOD0180	01770000
0002A8						223	MOD0170 DS OH	01780000
0002A8	D202	C9BD	C830	009BD	00830	224	MVC MSG04SCT,YES	SCATTER LOAD 01790000
0002AE						225	MOD0180 DS OH	01800000
0002AE	9102	C7EE		007EE		226	TM DIRATTR1,\$EXEC	EXECUTABLE? 01810000
0002B2	4710	C2C0		002C0		227	BO MOD0190	YES 01820000
0002B6	D202	C9D9	C82D	009D9	0082D	228	MVC MSG04EXC,NO	NOT EXECUTABLE 01830000
0002BC	47F0	C2C6		002C6		229	B MOD0200	01840000
0002C0						230	MOD0190 DS OH	01850000
0002C0	D202	C9D9	C830	009D9	00830	231	MVC MSG04EXC,YES	EXECUTABLE 01860000
0002C6						232	MOD0200 DS OH	01870000
0002C6	9101	C7EF		007EF		233	TM DIRATTR2,\$REFR	REFRESHABLE? 01880000
0002CA	4710	C2D8		002D8		234	BO MOD0210	YES 01890000
0002CE	D202	C9F8	C82D	009F8	0082D	235	MVC MSG04RFR,NO	NO REFRESHABLE 01900000
0002D4	47F0	C2DE		002DE		236	B MOD0220	01910000
0002D8						237	MOD0210 DS OH	01920000
0002D8	D202	C9F8	C830	009F8	00830	238	MVC MSG04RFR,YES	REFRESHABLE 01930000
0002DE						239	MOD0220 DS OH	01940000
0002DE	D268	B710	C992	00710	00992	240	MVC PRTDATA(MSG04L),MSG04	SET MESSAGE 01950000
0002E4	45A0	C6EA		006EA		241	BAL R10,PRT0000	PRINT MESSAGE 01960000
0002E8	9180	C7E5		007E5		242	TM DIRINDS,\$ALIAS	AN ALIAS? 01970000
0002EC	47E0	C330		00330		243	BNO MOD0230	NO 01980000
						244	FIND DISMOD,DIRRMEM,D	FIND REAL MEMBER GP10062 01990000
0002F0	4110	CE84		00E84		245+	LA 1,DISMOD	LOAD PARAMETER REG 1 01900002
0002F4	4100	C7FE		007FE		246+	LA 0,DIRRMEM	LOAD PARAMETER REG 0 02500002
0002F8	1311					247+	LCR 1,1	INDICATE TYPE D 00160000
0002FA	0A12					248+	SVC 18	ISSUE FIND SVC 00180000
0002FC	87FF	C318		00318		249	BXLE R15,R15,MOD0228	FIND SUCCESSFUL? GP10062 02000000
000300	D239	B710	CB5B	00710	00B5B	250	MVC PRTDATA(L'EMSG19),EMSG19	MAKE MESSAGE PATTERN GP10062 02010000
000306	D207	B728	C7FE	00728	007FE	251	MVC PRTDATA+24(8),DIRRMEM	SHOW NOT FOUND NAME GP10062 02020000
00030C	45A0	C6EA		006EA		252	BAL R10,PRT0000	PRINT MESSAGE GP10062 02030000
000310	947F	C7E5		007E5		253	NI DIRINDS,255-\$ALIAS	RESET ALIAS? GP10062 02040000
000314	47F0	C330		00330		254	B MOD0230	PROCESS ANYWAY AT ALIAS GP10062 02050000
000318	D277	B710	C9FB	00710	009FB	255	MOD0228 MVC PRTDATA(MSG05L),MSG05	SET MESSAGE GP10062 02060000
00031E	92F0	B70F		0070F		256	MVI PRTCC,C'0'	SET DOUBLE SPACE 02070000
000322	45A0	C6EA		006EA		257	BAL R10,PRT0000	PRINT MESSAGE 02080000
000326	D207	C7D8	C7FE	007D8	007FE	258	MVC DIRMEM,DIRRMEM	CHANGE NAMES 02090000
00032C	47F0	C0FC		000FC		259	B MOD0010	BLDL FOR REAL MEMBER 02100000
000330						260	MOD0230 DS OH	02110000
						261	* ALLOW CONCATENATION - THAT WAY I CAN HAVE ONE PROC FOR EVERYTHING	02120000
						262	*NUTS* MVI DIRMTTRZ+3,X'00'	FORCE ZERO GP99142 02130000
						263	*NUTS* POINT DISMOD,DIRMTTRZ,TYPE=REL	GP99142 02140000
						264	FIND DISMOD,DIRMTTRZ,C	POINT TO 1ST BLOCK GP99142 02150000
000330	4110	CE84		00E84		265+	LA 1,DISMOD	LOAD PARAMETER REG 1 01900002
000334	41F0	C7E0		007E0		266+	LA 15,DIRMTTRZ	LOAD AREA ADDRESS 00280000
000338	D203	1000	F000	00000	00000	267+	MVC 0(4,1),0(15)	MOVE RELAD TO DCB 00340000
00033E	1801					268+	LR 0,1	INDICATE TYPE C 00360000
000340	58F0	1054		00054		269+	L 15,84(0,1)	LOAD FIND RTN ADDR 00380019
000344	45E0	F004		00004		270+	BAL 14,4(0,15)	LINK TO FIND ROUTINE 00400019
000348	12FF					271	LTR R15,R15	POINT SUCCESSFUL? 02160000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00034A	4780	C386	00386		272	BZ	MOD0260	YES 02170000
00034E	42F0	C82B	0082B		273	STC	R15,POINTR15	SAVE RETURN CODE 02180000
000352	4200	C82C	0082C		274	STC	R0,POINTR0	SAVE REASON CODE 02190000
000356	4110	CCAE	00CAE		275	LA	R1,PNTMSG	MESSAGE TABLE ADDRESS 02200000
00035A					276	MOD0240	DS OH	02210000
00035A	95FF	1000	00000		277	CLI	O(R1),X'FF'	END OF TABLE? 02220000
00035E	4780	C6D8	006D8		278	BE	ERR0070	YES 02230000
000362	D501	C82B	1000 0082B	00000	279	CLC	PNTCODE,0(R1)	MESSAGE FOUND? 02240000
000368	4780	C374	00374		280	BE	MOD0250	YES 02250000
00036C	4110	1039	00039		281	LA	R1,PNTMSG(,R1)	NEXT MESSAGE 02260000
000370	47F0	C35A	0035A		282	B	MOD0240	LOOP 02270000
000374					283	MOD0250	DS OH	02280000
000374	D236	B710	1002 00710	00002	284	MVC	PRTDATA(PNTMSG-2),2(R1)	02290000
00037A	96C0	B163	00163		285	OI	COMMFLAG,\$ERROR+\$ABORT	02300000
00037E	45A0	C6EA	006EA		286	BAL	R10,PRT0000	PRINT MESSAGE 02310000
000382	47F0	C790	00790		287	B	EXIT0000	AND EXIT 02320000
000386					288	MOD0260	DS OH	02330000
000386	9140	C828	00828		289	TM	MODFLAG,\$MODEOF	EOF FLAG ON? 02340000
00038A	4710	C72E	0072E		290	BO	CALLSYMT	YES; CALL SYMT PROCESSOR GP99148 02350000
00038E	45A0	C5AC	005AC		291	BAL	R10,READ0000	READ A RECORD 02360000
					292	ITRACE	ID=FINDPROC,	+02370000
							DATA1=(R3)	.. CAPTURE 8 BYTES OF DATA 02380000
000392	D207	B0E0	3000 000E0	00000	293+	MVC	TRDATA1,0(R3)	MOVE DATA 00410000
000398	45E0	B564	00564		294+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00039C	C6C9D5C4D7D9D6C3				295+	DC	CL8'FINDPROC'	TRACE ID 00670000
0003A4	4190	CE3E	00E3E		296	LA	R9,PROCTBLE	FIRST PROCESSOR TABLE ENTRY 02390000
				00000	297	USING	PROCDST,R9	DEFINE BASE 02400000
0003A8					298	MOD0270	DS OH	02410000
0003A8	95FF	9000	00000		299	CLI	O(R9),X'FF'	END OF TABLE 02420000
0003AC	4780	C440	00440		300	BE	MOD0310	NOT LOCATED.. FORGET IT 02430000
0003B0	D500	9000	3000 00000	00000	301	CLC	PROCTYPE,0(R3)	RECORD TYPE FOUND? 02440000
0003B6	4780	C3C2	003C2		302	BE	MOD0280	YES 02450000
0003BA	4190	9006	00006		303	LA	R9,PROCL(,R9)	NEXT ENTRY 02460000
0003BE	47F0	C3A8	003A8		304	B	MOD0270	LOOP 02470000
0003C2					305	MOD0280	DS OH	02480000
					306	ITRACE	ID=PROCFND,	+02490000
							DATA1=PROCTYPE	02500000
0003C2	41E0	9000	00000		307+	LA	R14,PROCTYPE	DATA ADDRESS 00360000
0003C6	D207	B0E0	E000 000E0	00000	308+	MVC	TRDATA1,0(R14)	MOVE DATA 00370000
0003CC	45E0	B564	00564		309+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
0003D0	D7D9D6C3C6D5C440				310+	DC	CL8'PROCFND'	TRACE ID 00670000
0003D8	9120	9001	00001		311	TM	PROCFLAG,\$CSECT	CSECT REQUIRED? 02510000
0003DC	47E0	C400	00400		312	BNO	MOD0290	NO 02520000
0003E0	9120	B163	00163		313	TM	COMMFLAG,\$CSECT	CSECT LOCATED? 02530000
0003E4	47E0	C6C6	006C6		314	BNO	ERR0060	NO 02540000
0003E8	9108	3000	00000		315	TM	O(R3),X'08'	END OF MODULE? 02550000
0003EC	47E0	C400	00400		316	BNO	MOD0290	NO 02560000
					317	ITRACE	ID=EOF	02570000
0003F0	45E0	B564	00564		318+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
0003F4	C5D6C64040404040				319+	DC	CL8'EOF'	TRACE ID 00670000
0003FC	9640	C828	00828		320	OI	MODFLAG,\$MODEOF	SET EOF FLAG 02580000
000400					321	MOD0290	DS OH	02590000
000400	1BFF				322	SR	R15,R15	CLEAR REGISTER 02600000
000402	BFF3	9004	00004		323	ICM	R15,3,PROCXTNL	EXTERNAL PROCESSING MODULE DISP 02610000
000406	4780	C422	00422		324	BZ	MOD0300	NO EXTERNAL MODULE 02620000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00040A	1AFB			325	AR	R15,R11	PLUS DISASM00 BASE ADDRESS 02630000
00040C	58F0 F000	00000		326	L	R15,0(,R15)	RECORD PROCESSOR ENTRY POINT 02640000
				327	ITRACE	ID=CALLXTNL, RDATA1=R15	CALLING EXTERNAL RECORD PROCESSOR +02650000 .. PROCESSOR'S ENTRY POINT ADDR 02660000
000410	BEFF B0E0	000E0		328+	STCM	R15,15,TRDATA1	00460000
000414	45E0 B564	00564		329+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000418	C3C1D3D3E7E3D5D3			330+	DC	CL8'CALLXTNL'	TRACE ID 00670000
000420	05EF			331	BALR	R14,R15	LINK TO PROCESSOR 02670000
000422				332	MOD0300 DS	OH	02680000
000422	1BFF			333	SR	R15,R15	CLEAR REGISTER 02690000
000424	BFF3 9002	00002		334	ICM	R15,3,PROCINTL	INTERNAL PROCESSING RTN DISP 02700000
000428	4780 C386	00386		335	BZ	MOD0260	NO INTERNAL PROCESSING MODULE 02710000
00042C	1AFC			336	AR	R15,R12	PLUS BASE REG 02720000
				337	ITRACE	ID=CALLINTL, RDATA1=R15	CALLING INTERNAL RECORD PROCESSOR +02730000 .. PROCESSOR'S ENTRY POINT ADDR 02740000
00042E	BEFF B0E0	000E0		338+	STCM	R15,15,TRDATA1	00460000
000432	45E0 B564	00564		339+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000436	C3C1D3D3C9D5E3D3			340+	DC	CL8'CALLINTL'	TRACE ID 00670000
00043E	07FF			341	BR	R15	CALL INTERNAL RECORD PROCESSOR 02750000
000440				342	MOD0310 DS	OH	02760000
				343	ITRACE	ID=NOPROC	NO PROCESSOR FOR THIS RECORD TYPE 02770000
000440	45E0 B564	00564		344+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000444	D5D6D7D9D6C34040			345+	DC	CL8'NOPROC'	TRACE ID 00670000
00044C	47F0 C386	00386		346	B	MOD0260	READ NEXT RECORD 02780000
000450				348	CSCT0000 DS	OH	02800000
				349	ITRACE	ID=CSECT	02810000
000450	45E0 B564	00564		350+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000454	C3E2C5C3E3404040			351+	DC	CL8'CSECT'	TRACE ID 00670000
00045C	5830 B0F4	000F4		352	L	R3,COMMIO	I/O AREA ADDRESS 02820000
000460	9102 3000	00000		353	TM	0(R3),X'02'	RLD AND CSECT? 02830000
000464	4710 C470	00470		354	BO	CSCT0010	YES 02840000
000468	4140 3010	00010		355	LA	R4,16(,R3)	CESD ENTRY NUMBER ADDRESS 02850000
00046C	47F0 C478	00478		356	B	CSCT0020	02860000
000470				357	CSCT0010 DS	OH	02870000
000470	4840 3006	00006		358	LH	R4,6(,R3)	RLD SECTION LENGTH 02880000
000474	4143 4010	00010		359	LA	R4,16(R3,R4)	CESD ENTRY NUMBER ADDRESS 02890000
000478				360	CSCT0020 DS	OH	02900000
000478	4850 3004	00004		361	LH	R5,4(,R3)	CSECT INFO LENGTH 02910000
00047C	8850 0002	00002		362	SRL	R5,2	CONVERT TO NUMBER OF ENTRIES 02920000
				363	ITRACE	ID=CSECTNBR, RDATA1=R4, RDATA2=R5	+02930000 .. CSECT DATA'S ADDRESS +02940000 .. NUMBER OF ENTRIES 02950000
000480	BE4F B0E0	000E0		364+	STCM	R4,15,TRDATA1	00460000
000484	BE5F B0E8	000E8		365+	STCM	R5,15,TRDATA2	00610000
000488	45E0 B564	00564		366+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00048C	C3E2C5C3E3D5C2D9			367+	DC	CL8'CSECTNBR'	TRACE ID 00670000
000494	1B66			368	SR	R6,R6	INITIALIZE OFFSET 02960000
000496	1B77			369	SR	R7,R7	ASSUME LENGTH IS ZERO 02970000
000498				370	CSCT0030 DS	OH	02980000
000498	D501 B140 4000 00140 00000			371	CLC	COMMESID,0(R4)	CORRECT ESD ID? 02990000
00049E	4780 C4B2	004B2		372	BE	CSCT0040	YES 03000000
0004A2	4A60 4002	00002		373	AH	R6,2(,R4)	PLUS LENGTH OF THIS ESD 03010000
0004A6	4140 4004	00004		374	LA	R4,4(,R4)	NEXT ESD ID ENTRY 03020000
0004AA	4650 C498	00498		375	BCT	R5,CSCT0030	LOOP 03030000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0004AE	47F0 C4C6	004C6		376	B	CSCT0050	03040000
0004B2				377	CSCT0040	DS OH	03050000
				378		ITRACE ID=ESDFND, RDATA1=R4 .. ESD ADDRESS	+03060000 03070000
0004B2	BE4F B0E0	000E0		379+	STCM	R4,15,TRDATA1	00460000
0004B6	45E0 B564	00564		380+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0004BA	C5E2C4C6D5C44040			381+	DC	CL8'ESDFND' TRACE ID	00670000
0004C2	4870 4002	00002		382	LH	R7,2(,R4) TEXT LENGTH	03080000
0004C6				383	CSCT0050	DS OH	03090000
0004C6	1B22			384	SR	R2,R2 CLEAR REGISTER	03100000
0004C8	BF27 3009	00009		385	ICM	R2,7,9(R3) ASSIGNED ADDRESS	03110000
				386		ITRACE ID=READTEXT	03120000
0004CC	45E0 B564	00564		387+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0004D0	D9C5C1C4E3C5E7E3			388+	DC	CL8'READTEXT' TRACE ID	00670000
0004D8	45A0 C5AC	005AC		389	BAL	R10,READ0000 READ NEXT TEXT BLOCK	03130000
0004DC	1277			390	LTR	R7,R7 TEXT LENGTH ZERO?	03140000
0004DE	4780 C386	00386		391	BZ	MOD0260 YES	03150000
0004E2	1A26			392	AR	R2,R6 ADDRESS + DISPLACEMENT	03160000
0004E4	5B20 B11C	0011C		393	S	R2,COMMCSAD MINUS STARTING ADDRESS	03170000
0004E8	5A20 B130	00130		394	A	R2,COMMTXT PLUS TEXT'S BASE ADDRESS	03180000
0004EC	5A60 B0F4	000F4		395	A	R6,COMMIO DISP + I/O BASE	03190000
				396		ITRACE ID=MOVETEXT	03200000
0004F0	45E0 B564	00564		397+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0004F4	D4D6E5C5E3C5E7E3			398+	DC	CL8'MOVETEXT' TRACE ID	00670000
0004FC	1837			399	LR	R3,R7 COPY LENGTH	03210000
0004FE	0E26			400	MVCL	R2,R6 COPY TEXT (WHEW!)	03220000
000500	47F0 C386	00386		401	B	MOD0260 DONE	03230000
				403	SYMT0000	ITRACE ID=CSECT	GP99148 03250000
000504	45E0 B564	00564		404+	SYMT0000	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000508	C3E2C5C3E3404040			405+	DC	CL8'CSECT' TRACE ID	00670000
000510	5830 B0F4	000F4		406	L	R3,COMMIO I/O AREA ADDRESS	GP99148 03260000
000514	D503 C7BC 3004	007BC 00004		407	CLC	=X'02E2E8D4',4(R3) REALLY SYM BLOCK?	GP99148 03270000
00051A	4770 C594	00594		408	BNE	SYMT0990 NO; MAKE A NASTY	GP99148 03280000
00051E	1B55			409	SR	R5,R5	GP99148 03290000
000520	BF57 3001	00001		410	ICM	R5,7,1(R3) GET LENGTH OF CONTENTS	GP99148 03300000
000524	47D0 C594	00594		411	BNP	SYMT0990 HUH?	GP99148 03310000
000528	1B44			412	SR	R4,R4	GP99148 03320000
00052A	5D40 C7C0	007C0		413	D	R4,=F'80' NUMBER OF CARD IMAGES	GP99148 03330000
00052E	1244			414	LTR	R4,R4 ANY REMAINDER?	GP99148 03340000
000530	4770 C594	00594		415	BNZ	SYMT0990 YES; FAIL	GP99148 03350000
000534	1255			416	LTR	R5,R5 ANY AT ALL ?	GP99148 03360000
000536	47D0 C594	00594		417	BNP	SYMT0990 BOO	GP99148 03370000
00053A	4130 3004	00004		418	LA	R3,4(,R3) POINT TO FIRST RECORD	GP99148 03380000
00053E	BF6F C7D0	007D0		419	ICM	R6,15,SYMPOINT GET TAIL OF QUEUE	GP99148 03390000
000542	4770 C54A	0054A		420	BNZ	SYMT0050 USE IT	GP99148 03400000
000546	4160 B134	00134		421	LA	R6,COMMSYMP ELSE GET POINTER TO ROOT	GP99148 03410000
00054A	D503 C7BC 3000	007BC 00000		422	SYMT0050	CLC =X'02E2E8D4',0(R3) REALLY SYM RECORD?	GP99148 03420000
000550	4770 C386	00386		423	BNE	MOD0260 'NORMAL' IN LAST BLOCK (!)	GP99148 03430000
000554	1B22			424	SR	R2,R2	GP99148 03440000
000556	BF23 300A	0000A		425	ICM	R2,3,10(R3) GET CARD'S TEXT LENGTH	GP99148 03450000
00055A	47D0 C594	00594		426	BNP	SYMT0990 TOO BAD	GP99148 03460000
00055E	4920 C7CC	007CC		427	CH	R2,=H'56' LARGER THAN DESIGN LIMIT?	GP99148 03470000
000562	4720 C594	00594		428	BH	SYMT0990 YES; HUH?	GP99148 03480000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000566	4100	0040	00040		429	LA	R0,SYMDATAL GET BLOCK SIZE	GP99148 03490000
00056A	45E0	B684	00684		430	BAL	R14,GETMAIN GET STORAGE	GP99148 03500000
00056E	5010	6000	00000		431	ST	R1,0(,R6) CHAIN IT TO OLD BLOCK	GP99148 03510000
				00000	432	USING	SYMDATA,R1 DECLARE IT	GP99148 03520000
000572	4020	1004	00004		433	STH	R2,SYMRLEN STASH LENGTH	GP99148 03530000
000576	0620				434	BCTR	R2,0	GP99148 03540000
000578	4420	C58E	0058E		435	EX	R2,EXMVCSYM MOVE SYMBOL TABLE TEXT	GP99148 03550000
00057C	4130	3050	00050		436	LA	R3,80(,R3) POINT TO NEXT CARD IMAGE	GP99148 03560000
000580	1861				437	LR	R6,R1 SWAP OVER	GP99148 03570000
000582	5060	C7D0	007D0		438	ST	R6,SYMPOINT SAVE POINTER TO TAIL OF QUEUE	GP99148 03580000
000586	4650	C54A	0054A		439	BCT	R5,SYMT0050 TRY AGAIN	GP99148 03590000
00058A	47F0	C386	00386		440	B	MOD0260 GET ANOTHER BLOCK	GP99148 03600000
00058E	D200	1006	3010	00006	00010	441	EXMVCSYM MVC SYMTEXT(0),16(R3) MOVE SYM TEXT	GP99148 03610000
					442	DROP	R1	GP99148 03620000
000594	9120	C828	00828		444	SYMT0990	TM MODFLAG,\$SYMERR PRIOR MESSAGE?	GP99148 03640000
000598	4770	C386	00386		445	BNZ	MOD0260 YES; JUST LOOP AGAIN	GP99148 03650000
00059C	9620	C828	00828		446	OI	MODFLAG,\$SYMERR SET MESSAGE ISSUED	GP99148 03660000
0005A0	4110	CB31	00B31		447	LA	R1,EMSG20 POINT TO MESSAGE	GP99148 03670000
0005A4	45E0	B6BE	006BE		448	BAL	R14,PRINTMSG PRINT IT	GP99148 03680000
0005A8	47F0	C386	00386		449	B	MOD0260 CONTINUE	GP99148 03690000
0005AC					451	READ0000	DS OH	03710000
					452		ITRACE ID=READ	03720000
0005AC	45E0	B564	00564		453+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0005B0	D9C5C1C440404040				454+	DC	CL8'READ' TRACE ID	00670000
0005B8	5830	B0F4	000F4		455	L	R3,COMMIO I/O BUFFER'S ADDRESS	03730000
0005BC	D703	C5C8	C5C8	005C8	005C8	456	XC MODDECB,MODDECB CLEAR ECB	03740000
					457	READ	MODDECB, READ LOAD MODULE	+03750000
							SF, .. SEQUENTIALLY FORWARD	+03760000
							DISMOD, .. FROM LODLIB DATA SET	+03770000
							(R3), .. I/O AREA'S ADDRESS	+03780000
							\$IOSIZE .. LENGTH FROM DCB	GP10044 03790000
0005C2	0700				458+	CNOP	0,4	02179019
0005C4	4510	C5DC	005DC		459+	BAL	1,*+24 LOAD DECB ADDRESS	02187003
0005C8	00000000				460+	MODDECB	DC F'0' EVENT CONTROL BLOCK	02200000
0005CC	00				461+	DC	X'00' TYPE FIELD	02360000
0005CD	80				462+	DC	X'80' TYPE FIELD	00840000
0005CE	7FF8				463+	DC	AL2(\$IOSIZE) LENGTH	02440000
0005D0	00000E84				464+	DC	A(DISMOD) DCB ADDRESS	02540000
0005D4	00000000				465+	DC	A(0) AREA ADDRESS	02700000
0005D8	00000000				466+	DC	A(0) RECORD POINTER WORD	02720000
0005DC	5031	000C	0000C		467+	ST	R3,12(1,0) STORE AREA ADDRESS	02820000
0005E0	58F1	0008	00008		468+	L	15,8(1,0) LOAD DCB ADDRESS	02091503
0005E4	58F0	F030	00030		469+	L	15,48(0,15) LOAD RDWR ROUTINE ADDR	02097203
0005E8	05EF				470+	BALR	14,15 LINK TO RDWR ROUTINE	02102903
					471	CHECK	MODDECB WAIT FOR READ	03800000
0005EA	4110	C5C8	005C8		472+	LA	1,MODDECB LOAD PARAMETER REG 1	01900002
0005EE	58E0	1008	00008		473+	L	14,8(0,1) PICK UP DCB ADDR	00700000
0005F2	58F0	E034	00034		474+	L	15,52(0,14) LOAD CHECK ROUTINE ADDR	00750000
0005F6	05EF				475+	BALR	14,15 LINK TO CHECK ROUTINE	00800000
0005F8	07FA				476	BR	R10 RETURN	03810000
0005FA					477	EOD00000	DS OH	03820000
					478		ITRACE ID=EOD	03830000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0005FA	45E0	B564	00564		479+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0005FE	C5D6C44040404040				480+	DC	CL8'EOD' TRACE ID	00670000
000606	96C0	B163	00163		481	OI	COMMFLAG,\$ERROR+\$ABORT SET FLAGS	03840000
00060A	D248	B710 CAE8	00710 00AE8		482	MVC	PRTDATA(EMSG3L),EMSG3 SET MESSAGE	03850000
000610	45A0	C6EA	006EA		483	BAL	R10,PRT0000 PRINT MESSAGE	03860000
000614	47F0	C790	00790		484	B	EXIT0000 EXIT	03870000
					486	*-----*		03890000
					487	* DISMOD DD DOESN'T LOOK LIKE LOAD LIBRARY - TRY OBJECT DECK		* 03900000
					488	*-----*		03910000
					489	READOBJ	ITRACE ID=READOBJ GP10044	03920000
000618	45E0	B564	00564		490+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00061C	D9C5C1C4D6C2D140				491+	DC	CL8'READOBJ' TRACE ID	00670000
000624	58F0	C7C4	007C4		492	L	R15,=V(DISASM13) GET OBJECT DECK PROCESSOR GP10044	03930000
000628	4100	CEE0	00EE0		493	LA	R0,INFMJFCB POINT TO JFCB GP10044	03940000
00062C	4110	CFA0	00FA0		494	LA	R1,IECSDSL1 POINT TO FMT 1 SANS DSN GP10044	03950000
000630	58D0	D004	00004		495	L	R13,4(,R13) RESTORE REGISTER 13 GP10044	03960000
000634	58E0	D00C	0000C		496	L	R14,12(,R13) RESTORE REGISTER 14 GP10044	03970000
000638	982C	D01C	0001C		497	LM	R2,R12,28(R13) RESTORE OTHER REGISTERS GP10044	03980000
00063C	07FF				498	BR	R15 GO TO DISASM13 GP10044	03990000
00063E					500	ERR0010	DS OH	04010000
00063E	9200	C82A	0082A		501	MVI	BLDLR0,0 INITIALIZE REASON CODE	04020000
000642	42F0	C829	00829		502	STC	R15,BDLR15 SAVE R15	04030000
000646	9508	C829	00829		503	CLI	BLDLR15,8 R15 = 8?	04040000
00064A	4770	C652	00652		504	BNE	ERR0020 NO	04050000
00064E	4200	C82A	0082A		505	STC	R0,BDLR0 SAVE R0	04060000
000652					506	ERR0020	DS OH	04070000
000652	4110	CBC9	00BC9		507	LA	R1,BDLMSGSGS FIRST BLDL MESSAGE	04080000
000656					508	ERR0030	DS OH	04090000
000656	95FF	1000	00000		509	CLI	0(R1),X'FF' END OF TABLE?	04100000
00065A	4780	C682	00682		510	BE	ERR0050 YES	04110000
00065E	D501	C829 1000	00829 00000		511	CLC	BLDLCODE,0(R1) PROPER MESSAGE FOUND?	04120000
000664	4780	C670	00670		512	BE	ERR0040 YES	04130000
000668	4110	1039	00039		513	LA	R1,BDLMSGSL(,R1) NEXT MESSAGE	04140000
00066C	47F0	C670	00670		514	B	ERR0040 LOOP	04150000
000670					515	ERR0040	DS OH	04160000
000670	D236	B710 1002	00710 00002		516	MVC	PRTDATA(BDLMSGSL-2),2(R1)	04170000
000676	45A0	C6EA	006EA		517	BAL	R10,PRT0000 PRINT MESSAGE	04180000
00067A	9680	B163	00163		518	OI	COMMFLAG,\$ABORT SET ABORT FLAG	04190000
00067E	47F0	C790	00790		519	B	EXIT0000 AND EXIT	04200000
000682					520	ERR0050	DS OH	04210000
					521		ITRACE ID=INVBLDLC, INVALID BLDLCODE +04220000	
							DATA1=BLDLCODE ..	04230000
000682	41E0	C829	00829		522+	LA	R14,BLDLCODE DATA ADDRESS	00360000
000686	D207	B0E0 E000	000E0 00000		523+	MVC	TRDATA1,0(R14) MOVE DATA	00370000
00068C	45E0	B564	00564		524+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000690	C9D5E5C2D3C4D3C3				525+	DC	CL8'INVBLDLC' TRACE ID	00670000
000698	45E0	B5B0	005B0		526	BAL	R14,TRACEPRT PRINT TRACE GP99146	04240000
00069C	4110	0002	00002		527	LA	R1,ABEND002 SET ABEND CODE (NOT ADDRESS) GP99146	04250000
					528	ABEND	(1),DUMP,,USER GP99146	04260000
0006A0					529+	DS	OH	00400002
0006A0	8910	0014	00014		530+	SLL	1,20(0) SHIFT OFF > 12 BITS	01200002
0006A4	8810	0014	00014		531+	SRL	1,20(0) SHIFT TO USER POSITION	01360002
0006A8	4100	0080	00080		532+	LA	0,128(0,0) PICK UP DUMP/STEP/DUMPOPTS YM1995	01800002

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0006AC	8900	0018	00018		533+	SLL	0,24(0)	SHIFT TO HIGH ORDER 01850002
0006B0	1610				534+	OR	1,0	OR IN WITH COMPCODE 01900002
0006B2	0A0D				535+	SVC	13	LINK TO ABEND ROUTINE 02050002
0006B4	D21F	B710	CA73	00710	00A73	537	BADFILE MVC	PRTDATA(EMSG00L),EMSG00 GP10044 04280000
0006BA	96C0	B163		00163		538	OI	COMMFLAG,\$ERROR+\$ABORT GP10044 04290000
0006BE	45A0	C6EA		006EA		539	BAL	R10,PRT0000 PRINT MESSAGE GP10044 04300000
0006C2	47F0	C790		00790		540	B	EXIT0000 AND EXIT GP10044 04310000
0006C6						541	ERR0060 DS	OH 04320000
0006C6	D224	B710	CA93	00710	00A93	542	MVC	PRTDATA(EMSG01L),EMSG01 04330000
0006CC	96C0	B163		00163		543	OI	COMMFLAG,\$ERROR+\$ABORT 04340000
0006D0	45A0	C6EA		006EA		544	BAL	R10,PRT0000 PRINT MESSAGE 04350000
0006D4	47F0	C790		00790		545	B	EXIT0000 AND EXIT 04360000
0006D8						546	ERR0070 DS	OH 04370000
0006D8	D22F	B710	CAB8	00710	00AB8	547	MVC	PRTDATA(EMSG02L),EMSG02 04380000
0006DE	96C0	B163		00163		548	OI	COMMFLAG,\$ERROR+\$ABORT 04390000
0006E2	45A0	C6EA		006EA		549	BAL	R10,PRT0000 PRINT MESSAGE 04400000
0006E6	47F0	C790		00790		550	B	EXIT0000 AND EXIT 04410000
0006EA						551	PRT0000 DS	OH 04420000
0006EA	9140	B163		00163		552	TM	COMMFLAG,\$ERROR ERROR MESSAGE? GP99132 04430000
0006EE	4770	C706		00706		553	BNZ	PRT0005 YES; PRINT IT GP99132 04440000
0006F2	9180	B165		00165		554	TM	PRINTFG1,\$PFDIR PRINT DIRECTORY DATA ? GP99132 04450000
0006F6	4770	C706		00706		555	BNZ	PRT0005 YES GP99132 04460000
0006FA	9240	B710		00710		556	MVI	PRTDATA,C' ' JUST CLEAR GP99132 04470000
0006FE	D282	B711	B710	00711	00710	557	MVC	PRTDATA+1(L'PRTDATA-1),PRTDATA PRINT BUFFER GP99132 04480000
000704	07FA					558	BR	R10 JUST RETURN GP99132 04490000
000706						559	PRT0005 DS	OH GP99132 04500000
000706	9180	C828		00828		560	TM	MODFLAG,\$SUBH HAS SUB-HEADING BEEN PRINTED? 04510000
00070A	4710	C728		00728		561	BO	PRT0010 YES 04520000
00070E	D217	B16D	C833	0016D	00833	562	MVC	COMMSUBH(SUBHD1L),SUBHD1 04530000
000714	4110	0018		00018		563	LA	R1,SUBHD1L SUBHEADING LENGTH 04540000
000718	4010	B154		00154		564	STH	R1,COMMSUBL SET LENGTH 04550000
00071C	9680	C828		00828		565	OI	MODFLAG,\$SUBH SET FLAG 04560000
000720	92E2	B70E		0070E		566	MVI	PRTCMD,\$PRTSUBH SET COMMAND 04570000
000724	45E0	B6F0		006F0		567	BAL	R14,PRINTDAT LINK TO PRINT MODULE GP99138 04580000
000728	45E0	B6EC		006EC		568	PRT0010 BAL	R14,PRINTREC GP99138 04590000
00072C	07FA					569	BR	R10 RETURN 04600000
00072E	BF0F	B134		00134		571	CALLSYMT ICM	R0,15,COMMSYMP DID WE FIND ANY SYMBOL TABLE ENTRIES? 04620000
000732	4780	C73C		0073C		572	BZ	ROUNDUP NO; TEST FOR ROUNDING GP10071 04630000
000736	58F0	B058		00058		573	L	R15,A55 GET ADDRESS OF SYMT PROCESSOR GP99148 04640000
00073A	05EF					574	BALR	R14,R15 CALL IT GP99148 04650000
00073C	9110	B168		00168		576	ROUNDUP TM	COMMOPTFG,\$OFROUND ROUND TO DOUBLE-WORD? GP10071 04670000
000740	4780	C790		00790		577	BZ	EXIT0000 NO GP10071 04680000
000744	5840	B12C		0012C		578	L	R4,COMMCSLN REMEMBER ORIGINAL SIZE GP10071 04690000
000748	5830	B130		00130		579	L	R3,COMMTXT AND LOAD ADDRESS GP10071 04700000
00074C	4120	4007		00007		580	LA	R2,7(,R4) AUGMENT FOR ROUND/TRUNC GP10072 04710000
000750	5420	C7C8		007C8		581	N	R2,=X'7FFFFFFF8' ROUND TO DOUBLE-WORD GP10071 04720000
000754	5920	B12C		0012C		582	C	R2,COMMCSLN PADDED ? GP10071 04730000
000758	4780	C790		00790		583	BE	EXIT0000 NO GP10071 04740000
00075C	5020	B12C		0012C		584	ST	R2,COMMCSLN SAVE GP10071 04750000
000760	5810	B11C		0011C		585	L	R1,COMMCSAD GET CSECT OFFSET GP10072 04760000
000764	1A12					586	AR	R1,R2 ADDRESS + LENGTH GP10071 04770000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000766	0610				587	BCTR	R1,0 MINUS 1	GP10071 04780000
000768	5010	B124	00124		588	ST	R1,COMMSEA SAVE ENDING ADDRESS	GP10071 04790000
00076C	18F2				589	LR	R15,R2 CURRENT LENGTH	GP10071 04800000
00076E	1BF4				590	SR	R15,R4 LESS ORIGINAL	GP10071 04810000
000770	06F0				591	BCTR	R15,0	GP10071 04820000
000772	1A34				592	AR	R3,R4 POINT TO PADDING	GP10071 04830000
000774	44F0	C78A	0078A		593	EX	R15,EXCLCPAD CLEAR IT	GP10071 04840000
000778	41F0	F0F1	000F1		594	LA	R15,X'F1'(:,R15) CONVERT TO PRINTABLE	GP10071 04850000
00077C	D233	B710	CB95	00710	00B95	MVC	PRTDATA(EMSG18L),EMSG18 SET MESSAGE	GP10071 04860000
000782	42F0	B735	00735		596	STC	R15,PRTDATA+EMSG18L-15 SHOW PADDING	GP10071 04870000
000786	45A0	C6EA	006EA		597	BAL	R10,PRT0000 PRINT MESSAGE	GP10071 04880000
00078A	D700	3000	3000	00000	00000	598	EXCLCPAD XC 0(0,R3),0(R3) CLEAR PADDING	GP10071 04890000
000790					600	EXIT0000	DS OH	04910000
					601		ITRACE ID=EXIT	04920000
000790	45E0	B564	00564		602+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000794	C5E7C9E340404040				603+	DC	CL8'EXIT' TRACE ID	00670000
					604	CLOSE	DISMOD CLOSE DISMOD	04930000
00079C					605+	CNOP	0,4 ALIGN LIST TO FULLWORD	02420002
00079C	4510	C7A4	007A4		606+	BAL	1,*+8 LOAD REG1 W/LIST ADDR	02460002
0007A0	80				607+	DC	AL1(128) OPTION BYTE	02580000
0007A1	000E84				608+	DC	AL3(DISMOD) DCB ADDRESS	02600000
0007A4	0A14				609+	SVC	20 ISSUE CLOSE SVC	01640000
0007A6	58D0	D004	00004		610	L	R13,4(:,R13) RESTORE REGISTER 13	04940000
0007AA	98EC	D00C	0000C		611	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	04950000
0007AE	1BFF				612	SR	R15,R15 GIVE GOOD RETURN CODE	04960000
0007B0	07FE				613	BR	R14 RETURN TO CALLER	04970000
0007B8					615	LTORG		04990000
0007B8	40202120				616		=X'40202120'	
0007BC	02E2E8D4				617		=X'02E2E8D4'	
0007C0	00000050				618		=F'80'	
0007C4	00000000				619		=V(DISASM13)	
0007C8	7FFFFFFF8				620		=X'7FFFFFFF8'	
0007CC	0038				621		=H'56'	
					622	*-----*		05000000
					623	*		05010000
					624	* WORK AREAS		05020000
					625	*		05030000
					626	*-----*		05040000
0007CE	0000				627	SYMPOINT	DC A(0) LAST ENTRY IN SYM CHAIN	GP99148 05050000
0007D0	00000000				628	*-----*		05060000
0007D4					629	BLDLIST	DS OF	x 05070000
0007D4	0001				630	DC	H'1' ONE MEMBER	x 05080000
0007D6	0050				631	DC	H'80' LENGTH PER MEMBER	x 05090000
0007D8					632	DIRDATA	DS CL80	x 05100000
000828			007D8		633	ORG	DIRDATA	x 05110000
0007D8	4040404040404040				634	DIRMEM	DC CL8' ' MEMBER NAME	x 05120000
0007E0	00000000				635	DIRMTTRZ	DC XL4'00000000' MEMBER'S RELATIVE ADDRESS	x 05130000
0007E4	00				636	DC	XL1'00'	x 05140000
0007E5	00				637	DIRINDS	DC X'00' INDICATORS	x 05150000
			00080		638	\$ALIAS	EQU X'80' .. MEMBER IS AN ALIAS	x 05160000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0007E6	000000			639	DIRTTTR	DC XL3'000000'	TEXT'S RELATIVE ADDRESS × 05170000
0007E9	00			640		DC XL1'00'	× 05180000
0007EA	000000			641	DIRNTTR	DC XL3'000000'	NOTE LIST (OR SCATTER LIST) TTR 05190000
0007ED	00			642	DIR#NOTE	DC X'00'	NUMBER OF NOTE LIST ENTRIES D 05200000
0007EE	00			643	DIRATTR1	DC X'00'	ATTRIBUTE FLAGS A 05210000
		00080		644	\$RENT	EQU X'80'	.. RE-ENTRANT T 05220000
		00040		645	\$REUS	EQU X'40'	.. REUSABLE A 05230000
		00020		646	\$OVRLY	EQU X'20'	.. OVERLAY 05240000
		00010		647	\$TEST	EQU X'10'	.. UNDER TEST R 05250000
		00008		648	\$LDONLY	EQU X'08'	.. LOAD ONLY E 05260000
		00004		649	\$SCTR	EQU X'04'	.. SCATTER FORMAT T 05270000
		00002		650	\$EXEC	EQU X'02'	.. EXECUTABLE U 05280000
		00001		651	\$1TEXT	EQU X'01'	.. 1 TEXT, NO RLD RECORDS R 05290000
0007EF	00			652	DIRATTR2	DC X'00'	ATTRIBUTE FLAGS N 05300000
		00080		653	\$NOLINK1	EQU X'80'	.. NOT PROCESSABLE BY LINK EDIT E 05310000
		00040		654	\$ORGZERO	EQU X'40'	.. TEXT ORIGIN IS ZERO D 05320000
		00020		655	\$EPZERO	EQU X'20'	.. ENTRY POINT IS ZERO 05330000
		00010		656	\$NORLD	EQU X'10'	.. NO RLD RECORDS B 05340000
		00008		657	\$NOLINK2	EQU X'08'	.. NOT PROCESSABLE BY LINK EDIT Y 05350000
		00004		658	\$TESTRAN	EQU X'04'	.. CONTAINS TESTRAN SYMBOLS 05360000
		00002		659	\$LINK	EQU X'02'	.. CREATED BY LINKAGE EDITOR B 05370000
		00001		660	\$REFR	EQU X'01'	.. REFRESHABLE L 05380000
0007F0	000000			661	DIRMSIZE	DC XL3'000000'	MODULE'S SIZE D 05390000
0007F3	0000			662	DIRTXTL	DC XL2'0000'	TEXT RECORD SIZE L 05400000
0007F5	000000			663	DIREPA	DC XL3'000000'	ENTRY POINT 05410000
0007F8	00			664	DIRATTR3	DC X'00'	× 05420000
		00080		665	\$OSLINK	EQU X'80'	.. PROCESSED BY O/S LINK EDITOR × 05430000
		00020		666	\$PALIGN	EQU X'20'	.. PAGE ALIGNMENT REQUIRED × 05440000
		00010		667	\$SSI	EQU X'10'	.. SSI PRESENT × 05450000
0007F9	00			668	DIRATTR4	DC X'00'	ATTRIBUTES × 05460000
		00010		669	\$RANY	EQU X'10'	.. RMODE=ANY × 05470000
		00008		670	\$AA31	EQU X'08'	.. AMODE=31 (ALIAS) × 05480000
		00004		671	\$AA24	EQU X'04'	.. AMODE=24 (ALIAS) × 05490000
		00002		672	\$AM31	EQU X'02'	.. AMODE=31 (MAIN) × 05500000
		00001		673	\$AM24	EQU X'01'	.. AMODE=24 (MAIN) × 05510000
0007FA	00			674	DIR#RLD	DC X'00'	NUMBER OF RLD'S AFTER 1ST TEXT × 05520000
0007FB	0000			675	DIRSCTR	DC XL2'0000'	SCATTER LIST LENGTH × 05530000
0007FD	0000			676	DIRTRAN	DC XL2'0000'	TRANSLATION TABLE LENGTH × 05540000
0007FF	0000			677	DIRTCEST	DC XL2'0000'	CESD NUMBER FOR 1ST TXT RECORD × 05550000
000801	0000			678	DIRECESD	DC XL2'0000'	CESD NUMBER FOR ENTRY POINT × 05560000
000803		007FB		679		ORG DIRSCTR	RESET TO VARIABLE PORTION × 05570000
0007FB	000000			680	DIRMEP	DC XL3'000000'	ENTRY POINT OF MEMBER NAME × 05580000
0007FE	4040404040404040			681	DIRRMEM	DC CL8' '	REAL MEMBER NAME IF ALIAS × 05590000
000806	000000000			682	DIRSSI	DC XL4'00000000'	SSI INFO × 05600000
00080A	00			683	DIRAUTHL	DC XL1'00'	AUTH CODE LENGTH × 05610000
00080B	00			684	DIRAUTHC	DC XL1'00'	AUTH CODE × 05620000
00080C		00828		685		ORG DIRDATA+80	× 05630000
				686	*	-----	* 05640000
000828	00			688	MODFLAG	DC X'00'	PROGRAM FLAGS/SWITCHES 05660000
		00080		689	\$SUBH	EQU X'80'	.. SUBHEADING PRINTED 05670000
		00040		690	\$MODEOF	EQU X'40'	.. END OF CONTROL DATA 05680000
		00020		691	\$SYMERR	EQU X'20'	.. ERROR IN SYMBOL TABLE ENTRY 05690000
000829				692	BLDLCODE	DS OXL2	BLDL RETURN CODE/REASON CODE 05700000
000829	00			693	BLDLR15	DC X'00'	.. R15 05710000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00082A	00			694	BLDLR0	DC X'00' .. R0	05720000
00082B				695	PNTCODE	DS OXL2 POINT RETURN CODE/REASON CODE	05730000
00082B	00			696	POINTR15	DC X'00' .. R15	05740000
00082C	00			697	POINTR0	DC X'00' .. R0	05750000
00082D	D5D640			698	NO	DC CL3'NO'	05760000
000830	E8C5E2			699	YES	DC CL3'YES'	05770000
000833	40D3D6C1C440D4D6			700	SUBHD1	DC C' LOAD MODULE ATTRIBUTES '	05780000
		00018		701	SUBHD1L	EQU *-SUBHD1	05790000
00084B				702	MSG01	DS OC	05800000
00084B	D4C5D4C2C5D940D5			703		DC CL12'MEMBER NAME: '	05810000
000857	4040404040404040			704	MSG01MEM	DC CL08' '	05820000
00085F	4040404040404040			705		DC CL10' '	05830000
000869	C1D3C9C1E27A			706		DC CL06'ALIAS: '	05840000
00086F	404040			707	MSG01ALS	DC CL03' '	05850000
000872	4040404040404040			708		DC CL21' '	05860000
000887	E3C5E7E340E3E3D9			709		DC CL09'TEXT TTR: '	05870000
000890	404040404040			710	MSG01TXT	DC CL06' '	05880000
000896	4040404040404040			711		DC CL15' '	05890000
0008A5	D5D6E3C5D3C9E2E3			712		DC CL13'NOTELIST TTR: '	05900000
0008B2	404040404040			713	MSG01NTE	DC CL06' '	05910000
0008B8	40			714		DC C' '	05920000
		0006E		715	MSG01L	EQU *-MSG01	05930000
0008B9				716	MSG02	DS OC	05940000
0008B9	D5D6E3C5D3C9E2E3			717		DC CL17'NOTELIST ENTRIES: '	05950000
0008CA	40404040			718	MSG02NTE	DC CL04' '	05960000
0008CE	4040404040404040			719		DC CL09' '	05970000
0008D7	D3D6C1C440D4D6C4			720		DC CL17'LOAD MODULE SIZE: '	05980000
0008E8	404040404040			721	MSG02SZ	DC CL06' '	05990000
0008EE	4040404040404040			722		DC CL07' '	06000000
0008F5	C5D5E3D9E840D7D6			723		DC CL12'ENTRY POINT: '	06010000
000901	404040404040			724	MSG02EPA	DC CL06' '	06020000
000907	4040404040404040			725		DC CL12' '	06030000
000913	D9C5C1D340D4C5D4			726		DC CL17'REAL MEMBER NAME: '	06040000
000924	4040404040404040			727	MSG02MEM	DC CL8' '	06050000
		00073		728	MSG02L	EQU *-MSG02	06060000
00092C				729	MSG03	DS OC	06070000
00092C	C1E4E3C840C3D6C4			730		DC CL10'AUTH CODE: '	06080000
000936				731	MSG03ATH	DS CL02' '	06090000
000938	4040404040404040			732		DC CL18' '	06100000
00094A	E2E2C940C9D5C6D6			733		DC CL09'SSI INFO: '	06110000
000953	4040404040404040			734	MSG03SSI	DC CL08' '	06120000
00095B	4040404040404040			735		DC CL13' '	06130000
000968	D9C560C5D5E3D9C1			736		DC CL11'RE-ENTRANT: '	06140000
000973	404040			737	MSG03RNT	DC CL03' '	06150000
000976	4040404040404040			738		DC CL16' '	06160000
000986	D9C5E4E2C1C2D3C5			739		DC CL09'REUSABLE: '	06170000
00098F	404040			740	MSG03RUS	DC CL03' '	06180000
		00066		741	MSG03L	EQU *-MSG03	06190000
000992				742	MSG04	DS OC	06200000
000992	D6E5C5D9D3C1E87A			743		DC CL08'OVERLAY: '	06210000
00099A				744	MSG04OVR	DS CL03' '	06220000
00099D	4040404040404040			745		DC CL19' '	06230000
0009B0	E2C3C1E3E3C5D940			746		DC CL13'SCATTER LOAD: '	06240000
0009BD	404040			747	MSG04SCT	DC CL03' '	06250000
0009C0	4040404040404040			748		DC CL14' '	06260000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0009CE	C5E7C5C3E4E3C1C2			749	DC	CL11'EXECUTABLE:'	06270000
0009D9	404040			750	MSG04EXC	DC CL03' '	06280000
0009DC	4040404040404040			751	DC	CL16' '	06290000
0009EC	D9C5C6D9C5E2C8C1			752	DC	CL12'REFRESHABLE:'	06300000
0009F8	404040			753	MSG04RFR	DC CL03' '	06310000
		00069		754	MSG04L	EQU *-MSG04	06320000
0009FB	6060606060606060			755	MSG05	DC 48C'-'	06330000
000A2B	40D9C5C1D340D4D6			756	DC	CL24' REAL MODULE ATTRIBUTES '	06340000
000A43	6060606060606060			757	DC	48C'-'	06350000
		00078		758	MSG05L	EQU *-MSG05	06360000
000A73	C4C9E2C1E2D4F0F3			759	MSG00	DC C'DISASM0300E DISMOD DD NOT USABLE'	GP10044 06370000
		00020		760	MSG00L	EQU *-MSG00	GP10044 06380000
000A93	C4C9E2C1E2D4F0F3			761	MSG01	DC C'DISASM0301E SPECIFIED CSECT NOT FOUND'	06390000
		00025		762	MSG01L	EQU *-MSG01	06400000
000AB8	C4C9E2C1E2D4F0F3			763	MSG02	DC C'DISASM0302E UNKNOWN RETURN CODE FROM POINT MACRO'	06410000
		00030		764	MSG02L	EQU *-MSG02	06420000
000AE8	C4C9E2C1E2D4F0F3			765	MSG3	DC C'DISASM0303E DCB EODAD ROUTINE DRIVEN, END OF CONTROL R+	06430000
000AF0	F0F3C540C4C3C240					ECORDS NOT DETECTED'	06440000
		00049		766	MSG3L	EQU *-MSG3	06450000
000B31	29			767	MSG20	DC AL1(L'MSG20T)	GP99148 06460000
000B32	C4C9E2C1E2D4F0F3			768	MSG20T	DC C'DISASM0320E SYM RECORD HAS UNKNOWN FORMAT'	GP99148 06470000
000B5B	C4C9E2C1E2D4F0F3			769	MSG19	DC C'DISASM0319W MAIN MEMBER xxxxxxxxx NOT FOUND; WIDOWED AL*	06480000
000B63	F1F9E640D4C1C9D5					IAS?'	GP10062 06490000
000B95	C4C9E2C1E2D4F0F3			770	MSG18	DC C'DISASM0318I CSECT SIZE ROUNDED UP BY N PADDING BYTES'	06500000
		00034		771	MSG18L	EQU *-MSG18	GP10071 06510000
000BC9				772	BLDLMSGs	DS OC	06520000
000BC9	0400C4C9E2C1E2D4			773	DC	X'0400',CL55'DISASM0304E MODULE DOES NOT EXIST IN DISMOD+	06530000
000BD1	F0F3F0F4C540D4D6					LIBRARY'	06540000
		00039		774	BLDLMSGsL	EQU *-BLDLMSGs	06550000
000C02	0800C4C9E2C1E2D4			775	DC	X'0800',CL55'DISASM0305E PERMANENT I/O ERROR'	06560000
000C3B	0804C4C9E2C1E2D4			776	DC	X'0804',CL55'DISASM0306E INSUFFICIENT VIRTUAL STORAGE'	06570000
000C74	0808C4C9E2C1E2D4			777	DC	X'0808',CL55'DISASM0307E DEB NOT IN KEY 0-7'	06580000
000CAD	FF			778	DC	X'FF'	06590000
000CAE				779	PNTMSGs	DS OC	06600000
000CAE	0400C4C9E2C1E2D4			780	DC	X'0400',CL55'DISASM0308E DEVICE DOES NOT SUPPORT BLOCK I+	06610000
000CB6	F0F3F0F8C540C4C5					DENTIFIER'	06620000
		00039		781	PNTMSGsL	EQU *-PNTMSGs	06630000
000CE7	0801C4C9E2C1E2D4			782	DC	X'0801',CL55'DISASM0309E INCORRECT PARAMETER'	06640000
000D20	0802C4C9E2C1E2D4			783	DC	X'0802',CL55'DISASM0310E INCORRECT DEB OR DEBCHK ERROR'	06650000
000D59	0803C4C9E2C1E2D4			784	DC	X'0803',CL55'DISASM0311E ENVIRONMENTAL ERROR'	06660000
000D92	080BC4C9E2C1E2D4			785	DC	X'080B',CL55'DISASM0312E UNSUCCESSFUL CALL TO ESTAE'	06670000
000DCB	080CC4C9E2C1E2D4			786	DC	X'080C',CL55'DISASM0313E UNSUCCESSFUL GETMAIN'	06680000
000E04	0C00C4C9E2C1E2D4			787	DC	X'0C00',CL55'DISASM0314E INPUT/OUTPUT ERROR'	06690000
000E3D	FF			788	DC	X'FF'	06700000
000E3E				789	PROCTBLE	DS OX	06710000
				790	PROC	01,CSC0000,,CSECT CSECT RECORDS	06720000
000E3E	01			791+	DC	X'01' RECORD TYPE	00090000
000E3F	20			792+	DC	AL1(CSECT) FLAGS	00100000
000E40	0450			793+	DC	AL2(CSC0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E42	0000			794+	DC	AL2(0) NO EXTERNAL PROCESSING MODULE	00210000
				795	PROC	02,,A05,CSECT RLD RECORDS	06730000
000E44	02			796+	DC	X'02' RECORD TYPE	00090000
000E45	20			797+	DC	AL1(CSECT) FLAGS	00100000
000E46	0000			798+	DC	AL2(0) NO PROCESSING ROUTINE	00150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000E48	004C			799+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				800	PROC	03,CSCT0000,A05,\$CSECT CSECT AND RLD RECORDS	06740000
000E4A	03			801+	DC	X'03' RECORD TYPE	00090000
000E4B	20			802+	DC	AL1(\$CSECT) FLAGS	00100000
000E4C	0450			803+	DC	AL2(CSCT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E4E	004C			804+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				805	PROC	05,CSCT0000,, \$CSECT CSECT RECORDS	06750000
000E50	05			806+	DC	X'05' RECORD TYPE	00090000
000E51	20			807+	DC	AL1(\$CSECT) FLAGS	00100000
000E52	0450			808+	DC	AL2(CSCT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E54	0000			809+	DC	AL2(0) NO EXTERNAL PROCESSING MODULE	00210000
				810	PROC	06,,A05,\$CSECT RLD RECORDS	06760000
000E56	06			811+	DC	X'06' RECORD TYPE	00090000
000E57	20			812+	DC	AL1(\$CSECT) FLAGS	00100000
000E58	0000			813+	DC	AL2(0) NO PROCESSING ROUTINE	00150000
000E5A	004C			814+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				815	PROC	07,CSCT0000,A05,\$CSECT CSECT AND RLD RECORDS	06770000
000E5C	07			816+	DC	X'07' RECORD TYPE	00090000
000E5D	20			817+	DC	AL1(\$CSECT) FLAGS	00100000
000E5E	0450			818+	DC	AL2(CSCT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E60	004C			819+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				820	PROC	0D,CSCT0000,, \$CSECT CSECT RECORDS	06780000
000E62	0D			821+	DC	X'0D' RECORD TYPE	00090000
000E63	20			822+	DC	AL1(\$CSECT) FLAGS	00100000
000E64	0450			823+	DC	AL2(CSCT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E66	0000			824+	DC	AL2(0) NO EXTERNAL PROCESSING MODULE	00210000
				825	PROC	0E,,A05,\$CSECT RLD RECORDS	06790000
000E68	0E			826+	DC	X'0E' RECORD TYPE	00090000
000E69	20			827+	DC	AL1(\$CSECT) FLAGS	00100000
000E6A	0000			828+	DC	AL2(0) NO PROCESSING ROUTINE	00150000
000E6C	004C			829+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				830	PROC	0F,CSCT0000,A05,\$CSECT CSECT AND RLD RECORDS	06800000
000E6E	0F			831+	DC	X'0F' RECORD TYPE	00090000
000E6F	20			832+	DC	AL1(\$CSECT) FLAGS	00100000
000E70	0450			833+	DC	AL2(CSCT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E72	004C			834+	DC	AL2(A05-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				835	PROC	20,,A04 CESD RECORDS	06810000
000E74	20			836+	DC	X'20' RECORD TYPE	00090000
000E75	00			837+	DC	AL1(00) FLAGS	00100000
000E76	0000			838+	DC	AL2(0) NO PROCESSING ROUTINE	00150000
000E78	0040			839+	DC	AL2(A04-DISASM00) DISPLACEMENT TO MODULE'S ADDRESS	00180000
				840	PROC	40,SYMT0000 SYMBOL TABLE RECORDS (SAVE FOR DISASM55)	06820000
000E7A	40			841+	DC	X'40' RECORD TYPE	00090000
000E7B	00			842+	DC	AL1(00) FLAGS	00100000
000E7C	0504			843+	DC	AL2(SYMT0000-DISASM03) DISPLACEMENT TO PROCESSING ROUTIX	00120000
				+		NE	
000E7E	0000			844+	DC	AL2(0) NO EXTERNAL PROCESSING MODULE	00210000
000E80	FF			845	DC	X'FF'	06830000
				846	*	-----*	06840000
				847	*		* 06850000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				848 *	OBJECT MODULE LIBRARY DCB	* 06860000
				849 *		* 06870000
				850 *	-----	* 06880000
				851 DISMOD	DCB DDNAME=DISMOD, OBJECT MODULE LIBRARY DCB	+06890000
					DSORG=PO, .. PARTITIONED DATA SET	+06900000
					RECFM=U, .. UNDEFINED RECORD FORMAT	+06910000
					EODAD=EOD000000, .. END OF DATA	+06920000
					EXLST=EXITLIST, .. JFCB EXIT LIST	+06930000
					MACRF=R .. READ ONLY	06940000
				853+*	DATA CONTROL BLOCK	22770000
				854+*		22860000
000E81 000000				855+DISMOD	DC OF '0' ORIGIN ON WORD BOUNDARY	22914000
000E84				857+*	DIRECT ACCESS DEVICE INTERFACE	27360000
000E84 0000000000000000				859+	DC BL16 '0' FDAD,DVTBL	27540000
000E94 00000000				860+	DC A(0) KEYLE,DEVT,TRBAL	27720000
				862+*	COMMON ACCESS METHOD INTERFACE	48690000
000E98 00				864+	DC AL1(0) BUFNO	49050000
000E99 000001				865+	DC AL3(1) BUFCB	54720000
000E9C 0000				866+	DC AL2(0) BUFL	55170000
000E9E 0200				867+	DC BL2 '0000001000000000'	*55800000
				+	DSORG	55890000
000EA0 00000001				868+	DC A(1) IOBAD	56340000
				870+*	FOUNDATION EXTENSION	56610000
000EA4 00				872+	DC BL1 '00000000' BFTEK,BFLN,HIARCHY	59850000
000EA5 0005FA				873+	DC AL3(EOD000000) EODAD	65970000
000EA8 C0				874+	DC BL1 '11000000'	*66150000
				+	RECFM	66240000
000EA9 000EDC				875+	DC AL3(EXITLIST) EXLST	66330000
				877+*	FOUNDATION BLOCK	66690000
000EAC C4C9E2D4D6C44040				879+	DC CL8 'DISMOD' DDNAME	66870000
000EB4 02				880+	DC BL1 '00000010' OFLGS	68220000
000EB5 00				881+	DC BL1 '00000000' IFLG	68310000
000EB6 2400				882+	DC BL2 '0010010000000000'	*68400000
				+		*68490000
				+	MACR	68580000
				884+*	BSAM-BPAM-QSAM INTERFACE	74430000
000EB8 00				886+	DC BL1 '00000000'	*74610000
				+		RER1 74700000
000EB9 000001				887+	DC AL3(1) CHECK, GERR, PERR	74790000
000EBC 00000001				888+	DC A(1) SYNAD	74880000
000EC0 0000				889+	DC H '0' CIND1, CIND2	74970000
000EC2 0000				890+	DC AL2(0) BLKSIZE	75240000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000EC4	00000000			891+	DC F'0'	WCPO, WCPL, OFFSR, OFFSW 75870000
000EC8	00000001			892+	DC A(1)	IOBA 75960000
000ECC	00			893+	DC AL1(0)	NCP 76050000
000ECD	000001			894+	DC AL3(1)	EOBR, EOBAD 76140000
				896+*	BSAM-BPAM INTERFACE	76410000
000ED0	00000001			898+	DC A(1)	EOBW 76590000
000ED4	0000			899+	DC H'0'	DIRCT 78210000
000ED6	0000			900+	DC AL2(0) LRECL	80730000
000ED8	00000001			901+	DC A(1)	CNTRL, NOTE, POINT 78480000
000EDC	87000EE0			902	EXITLIST DC A(X'87000000'+INFMJFCB) JFCB ADDRESS	GP10044 06950000
				903	IEFJFCBN , MY JFCB	GP10044 06960000
				904+*%JFCBL1	: ;	00350000
				905+*		00360000
				906+*/*	*****	*/ 00400000
				907+*/*		*/ 00500000
				908+*/*	JOB FILE CONTROL BLOCK	*/ 00600000
				909+*/*		*/ 00700000
				910+*/*	OS/VS2 038 PTF	@YA05186*/ 00705000
				911+*/*		*/ 00762000
				912+*/*	METHOD OF ACCESS	*/ 00772000
				913+*/*	BAL - A DSECT CARD SHOULD PRECEDE MACRO CALL. USING ON	*/ 00782000
				914+*/*	INFMJFCB GIVES ADDRESSABILITY FOR ALL SYMBOLS.	*/ 00792000
				915+*/*	PL/S - DCL JFCBPTR PTR	*/ 00794000
				916+*/*		*/ 00796000
				917+*/*	F.E.'S	*/ 00798000
				918+*/*	MICROFICHE LISTING - IEFJFCBN	*/ 00798400
				919+*/*		*/ 00798800
				920+*/*	DEVELOPERS	*/ 00799200
				921+*/*	BAL LISTING - SPECIFY LIST=YES ON MACRO CALL.	*/ 00799600
				922+*/*	PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE INCLUDE.	*/ 00799700
				923+*/*		*/ 00799800
				924+*/*	FOR INTEGRATION A LISTING SHOULD NOT BE REQUESTED.	*/ 00799900
				925+*/*		*/ 00800100
				926+*/*	CHANGE ACTIVITY = YA05186	@YA05186*/ 00800300
				927+*/*		*/ 00800500
				928+*/*	A - DECLARED STRUCTURE TO THE JFCAMPTR FIELD. THE	@YA05186*/ 00800700
				929+*/*	STRUCTURE SHOWS THE PLACEMENT OF THE SVA WITHIN	@YA05186*/ 00800900
				930+*/*	THE 4 CHARACTER FIELD.	@YA05186*/ 00801100
				931+*/*	*****	*/ 00801300
				932+*%GOTO	JFCBL2; /*	00802000
				933+	PUSH PRINT	00802400
				934+	PRINT OFF	00803200
				1522+	POP PRINT	35950000
				1524	CAMLST CAMLST SEARCH,JFCBDSNM,JFCBVOLS,DS1FMTID	GP10044 06980000
000F90				1525+CAMLIST	DS OF	ALIGN ON FULL WORD 00349401
000F90	C1			1526+	DC AL1(193)	THREE BYTES OF FLAGS 00349501
000F91	00			1527+	DC AL1(0)	INDICATING THE FUNC- 00349601
000F92	00			1528+	DC AL1(0)	TION TO BE PERFORMED 00399601
000F93	00			1529+	DC AL1(0)	NO OPTION THREE 00419601
000F94	00000EE0			1530+	DC A(JFCBDSNM)	PARAMETER TWO 00441601
000F98	00000F56			1531+	DC A(JFCBVOLS)	PARAMETER THREE 00448001
000F9C	00000FCC			1532+	DC A(DS1FMTID)	PARAMETER FOUR 00448801

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				1533	IECSDSL1 1	MY FMT 1 DSCB	GP10044 06990000
		00FA0		1534+IECSDSL1	EQU *	FORMAT 1 DSCB	08300000
		00FA0		1535+IECSDSF1	EQU IECSDSL1		08350000
000FA0				1536+DS1DSNAM	DS CL44	DATA SET NAME	08400000
000FCC				1537+DS1FMTID	DS CL1	FORMAT IDENTIFIER	08450000
000FCD				1538+DS1DSSN	DS CL6	DATA SET SERIAL NUMBER	08500000
000FD3				1539+DS1VOLSQ	DS XL2	VOLUME SEQUENCE NUMBER	08550000
000FD5				1540+DS1CREDT	DS XL3	CREATION DATE	08600000
000FD8				1541+DS1EXPDT	DS XL3	EXPIRATION DATE	08650000
000FDB				1542+DS1NOEPV	DS XL1	NUMBER OF EXTENTS ON VOLUME	08700000
000FDC				1543+DS1NOBDB	DS XL1	NUMBER OF BYTES USED IN LAST	08750000
				1544+*		DIRECTORY BLOCK	08800000
000FDD				1545+	DS XL1	RESERVED	08850000
000FDE				1546+DS1SYSCD	DS CL13	SYSTEM CODE	08900000
000FEB				1547+DS1REFD	DS XL3	DATE LAST REFERENCED @02C	08950000
000FEE				1548+	DS XL4	RESERVED @G60ASBJ	09000000
000FF2				1549+DS1DSORG	DS XL2	DATA SET ORGANIZATION	09050000
				1550+*			09100000
				1551+*		FIRST BYTE OF DS1DSORG	09150000
		00080		1552+DS1DSGIS	EQU X'80'	IS - INDEXED SEQUENTIAL @01A	09200000
				1553+*		ORGANIZATION	09250000
		00040		1554+DS1DSGPS	EQU X'40'	PS - PHYSICAL SEQUENTIAL @01A	09300000
				1555+*		ORGANIZATION	09350000
		00020		1556+DS1DSGDA	EQU X'20'	DA - DIRECT ORGANIZATION @01A	09400000
		00010		1557+DS1DSGCX	EQU X'10'	CX - BTAM OR QTAM LINE GROUP @01A	09450000
				1558+*	EQU X'08'	RESERVED @01A	09500000
				1559+*	EQU X'04'	RESERVED @01A	09550000
		00002		1560+DS1DSGPO	EQU X'02'	PO - PARTITIONED ORGANIZATION @01A	09600000
		00001		1561+DS1DSGU	EQU X'01'	U - UNMOVABLE, THE DATA @01A	09650000
				1562+*		CONTAINS LOCATION DEPENDENT	09700000
				1563+*		INFORMATION	09750000
				1564+*			09800000
				1565+*		SECOND BYTE OF DS1DSORG	09850000
		00080		1566+DS1DSGGS	EQU X'80'	GS - GRAPHICS ORGANIZATION @01A	09900000
		00040		1567+DS1DSGTX	EQU X'40'	TX - TCAM LINE GROUP @01A	09950000
		00020		1568+DS1DSGTQ	EQU X'20'	TQ - TCAM MESSAGE QUEUE @01A	10000000
				1569+*	EQU X'10'	RESERVED @01A	10050000
		00008		1570+DS1ACBM	EQU X'08'	ACCESS METHOD CONTROL BLOCK @01A	10100000
		00004		1571+DS1DSGTR	EQU X'04'	TR - TCAM 3705 @01A	10150000
				1572+*	EQU X'02'	RESERVED @01A	10200000
				1573+*	EQU X'01'	RESERVED @01A	10250000
000FF4				1574+DS1RECFM	DS XL1	RECORD FORMAT	10300000
000FF5				1575+DS1OPTCD	DS XL1	OPTION CODE	10350000
000FF6				1576+DS1BLKL	DS XL2	BLOCK LENGTH	10400000
000FF8				1577+DS1LRECL	DS XL2	RECORD LENGTH	10450000
000FFA				1578+DS1KEYL	DS XL1	KEY LENGTH	10500000
000FFB				1579+DS1RKP	DS XL2	RELATIVE KEY POSITION	10550000
000FFD				1580+DS1DSIND	DS XL1	DATA SET INDICATORS	10600000
		00080		1581+DS1IND80	EQU X'80'	LAST VOLUME ON WHICH A @G60ASBJ	10650000
				1582+*		DATA SET RESIDES @G60ASBJ	10700000
		00040		1583+DS1IND40	EQU X'40'	DATA SET IS RACF DEFINED @G60ASBJ	10750000
		00020		1584+DS1IND20	EQU X'20'	BLOCK LENGTH IS A MULTIPLE @G60ASBJ	10800000
				1585+*		OF 8 BYTES @G60ASBJ	10850000
		00010		1586+DS1IND10	EQU X'10'	PASSWORD IS REQUIRED TO @G60ASBJ	10900000
				1587+*		READ OR WRITE OR BOTH-SEE @G60ASBJ	10950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				1588+*	DS1IND04	@G60ASBJ 11000000
		00008		1589+DS1IND08 EQU X'08'	RESERVED	@G60ASBJ 11050000
		00004		1590+DS1IND04 EQU X'04'	IF DS1IND10 IS 1 THEN IF	@G60ASBJ 11100000
				1591+*	DS1IND04 IS	@G60ASBJ 11150000
				1592+*	1-PASSWORD REQUIRED TO	@G60ASBJ 11200000
				1593+*	WRITE BUT NOT TO READ	@G60ASBJ 11250000
				1594+*	0-PASSWORD REQUIRED TO	@G60ASBJ 11300000
				1595+*	WRITE AND TO READ	@G60ASBJ 11350000
		00002		1596+DS1IND02 EQU X'02'	DATASET OPENED FOR OTHER	@G60ASBJ 11400000
				1597+*	THAN INPUT SINCE LAST	@G60ASBJ 11450000
				1598+*	BACKUP COPY MADE.	@G60ASBJ 11500000
		00002		1599+DS1DSCHA EQU DS1IND02	SAME USE AS BIT DS1IND02	@G60ASBJ 11550000
		00001		1600+DS1IND01 EQU X'01'	SECURE CHECKPOINT DATA SET	@02C 11600000
		00001		1601+DS1CHKPT EQU DS1IND01	SAME AS DS1IND01	@02A 11650000
000FFE				1602+DS1SCALO DS XL4	SECONDARY ALLOCATION	11700000
001002				1603+DS1LSTAR DS XL3	LAST USED TRACK AND BLOCK ON TRACK	11750000
001005				1604+DS1TRBAL DS XL2	BYTES REMAINING ON LAST TRACK USED	11800000
001007				1605+ DS XL2	RESERVED	11850000
001009				1606+DS1EXT1 DS XL10	FIRST EXTENT DESCRIPTION	11900000
				1607+*	FIRST BYTE	EXTENT TYPE INDICATOR 11950000
				1608+*	SECOND BYTE	EXTENT SEQUENCE NUMBER 12000000
				1609+*	THIRD - SIXTH BYTES	LOWER LIMIT 12050000
				1610+*	SEVENTH - TENTH BYTES	UPPER LIMIT 12100000
001013				1611+DS1EXT2 DS XL10	SECOND EXTENT DESCRIPTION	12150000
00101D				1612+DS1EXT3 DS XL10	THIRD EXTENT DESCRIPTION	12200000
001027				1613+DS1PTRDS DS XL5	POSSIBLE PTR TO A FORMAT 2 OR 3 DSCB	12250000
		0102C		1614+DS1END EQU *		12300000
00102C				1615 DS XL128	JUST IN CASE ?	GP10044 07000000
				1617 *-----*		07020000
				1618 *		* 07030000
				1619 *	PROCESSOR TABLE	* 07040000
				1620 *		* 07050000
				1621 *-----*		* 07060000
000000				1622 PROCD SCT DSECT		07070000
000000				1623 PROCTYPE DS X	RECORD CODE	07080000
000001				1624 PROCFLAG DS X	FLAGS	07090000
000002				1625 PROCINTL DS AL2	INTERNAL PROCESSING RTN	07100000
000004				1626 PROCXTNL DS AL2	EXTERNAL PROCESSING MODULE	07110000
		00006		1627 PROCL EQU *-PROCD SCT		07120000
				1628 *-----*		* 07130000
				1629 *		* 07140000
				1630 *	COMMON DATA MAP	* 07150000
				1631 *		* 07160000
				1632 *-----*		* 07170000
				1633 DISASM00 DISASMCM TYPE=DSECT		07180000
				1634+ PRINT OFF		00280000
				2265+ PRINT ON		06440000
				2266+*-----*		* 06460000
				2267+*		* 06470000
				2268+*	ABEND REASON CODES	* 06480000
				2269+*		* 06490000
				2270+*-----*		* 06500000
		00001		2271+ABEND001 EQU 1	REQUESTED VIA AN ABEND STATEMENT	06510000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
		00002	2272+ABEND002	EQU 2	UNKNOWN RETURN CODE FROM BLDL	06520000
		00003	2273+ABEND003	EQU 3	UNKNOWN RLD ITEM TYPE	06530000
		00004	2274+ABEND004	EQU 4	RLD DATA REMAINING WENT NEGATIVE	06540000
		00005	2275+ABEND005	EQU 5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000	2278+R0	EQU 0		00070000
		00001	2279+R1	EQU 1		00080000
		00002	2280+R2	EQU 2		00090000
		00003	2281+R3	EQU 3		00100000
		00004	2282+R4	EQU 4		00110000
		00005	2283+R5	EQU 5		00120000
		00006	2284+R6	EQU 6		00130000
		00007	2285+R7	EQU 7		00140000
		00008	2286+R8	EQU 8		00150000
		00009	2287+R9	EQU 9		00160000
		0000A	2288+R10	EQU 10		00170000
		0000B	2289+R11	EQU 11		00180000
		0000C	2290+R12	EQU 12		00190000
		0000D	2291+R13	EQU 13		00200000
		0000E	2292+R14	EQU 14		00210000
		0000F	2293+R15	EQU 15		00220000
		2295		COPY DISASMDA	GP99148	07190000
		2296		AIF ('&DAPRT' EQ 'ON').DA010		00010000
		2297		PRINT OFF		00020000
		2508		PRINT ON		02130000
		2509	.DA020	ANOP		02140000
		2510		DCBD DEVD=DA	GP10044	07200000
		2511+*,***	IHB068	NO VALID DSORG SPECIFIED-EXCP ASSUMED		
		2513+*		DCB SYMBOLIC DEFINITION FOR		07700000
		2514+*		EXCP WITH EXTENSION		09250000
000000		2516+IHADCB	DSECT , -	DCBPTR	@ZA05613	09851000
		2518+*****				09853000
		2519+*	OS/VS2 RELEASE 02, 02/14/73		*	09854000
		2520+*	OS/VS2 RELEASE 03, 10/23/74		*	09855000
		2521+*	OS/VS2 RELEASE 3.7, 3/15/78		*	09856000
		2522+*	C80400037		@ZA33630	09886000
		2523+*			*	09902100
		2524+*	OS/VS2 RELEASE 3.8, 5/15/80	FMID=FDM1133	*	09909000
		2525+*			*	09915900
		2526+*	C(116500),A(116638-116914),D(117000),A(117052-117466)		@ZA46311	09922800
		2527+*	D(117500),A(117604-117880),D(118000),A(118018-118432)		@ZA46311	09929700
		2528+*	D(118500-118510),A(118570-118846)		@ZA46311	09936600
		2529+*	\$F01=UZ59799,FDM1133:DCBDEVT DEFINITION FOR D/T3375 AND D/T3380	@F01A		09940000
		2530+*			*	09943500
		2531+*****				09950700
00080		2533+DCBBIT0	EQU 128		@ZA05613	09951000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00040	2534+DCBBIT1	EQU	64	@ZA05613 09951100
			00020	2535+DCBBIT2	EQU	32	@ZA05613 09951200
			00010	2536+DCBBIT3	EQU	16	@ZA05613 09951300
			00008	2537+DCBBIT4	EQU	8	@ZA05613 09951400
			00004	2538+DCBBIT5	EQU	4	@ZA05613 09951500
			00002	2539+DCBBIT6	EQU	2	@ZA05613 09951600
			00001	2540+DCBBIT7	EQU	1	@ZA05613 09951700
			2542+*****				09951900
			2544+*****				10301000
			2545+*				10350000
			2546+*****				10351000
			2548+*****				10451000
			2549+*				10500000
			2550+*****				10501000
000000			2552+DCBRELAD	DS	CL4 -	PARTITIONED ORGANIZATION DATA SET -	10600000
			2553+*			ADDRESS (IN THE FORM TTRN) OF MEMBER	10650000
			2554+*			CURRENTLY USED. ---	10700000
			2555+*			SYS1.LOGREC DATA SET - IF CCH OPTION HAS	10750000
			2556+*			BEEN SPECIFIED IN SYSGEN PROCESS, ADDRESS	10800000
			2557+*			OF A 12-BYTE PARAMETER IN THE EXPANSION	10850000
			2558+*			OF MACRO INSTRUCTION IGFCATAP	10900000
000004			2559+DCBKEYCN	DS	FL1 -	KEYED BLOCK OVERHEAD CONSTANT	10950000
000005			2560+DCBFDAD	DS	CL8 -	FULL DISK ADDRESS IN THE FORM OF MBBCCHHR	11000000
			2561+*			OF RECORD THAT WAS JUST READ OR WRITTEN	11050000
00000D		0000C	2563+	ORG	DCBFDAD+7		11150000
00000C			2564+DCBDVTBL	DS	0A -	SAME AS DCBDVTBA BELOW	11200000
00000C			2565+	DS	X -	LAST BYTE OF DCBFDAD	11250000
00000D			2566+DCBDVTBA	DS	AL3 -	ADDRESS OF ENTRY IN I/O DEVICE	11300000
			2567+*			CHARACTERISTICS TABLE FOR DEVICE BEING	11350000
			2568+*			USED	11400000
000010			2569+	DS	FL1 -	DCBKEYLE - KEY LENGTH OF DATA SET	11450000
000011			2570+	DS	C -	DCBDEVT - DEVICE TYPE	11500000
			2571+*	FOR MASKS	FOR ISAM DIRECT	ACCESS, SEE DCBOVDEV IN ISAM SECTION	11550000
		00021	2572+DCBDV311	EQU	X'21' -	2311 DISK STORAGE @ZA46311	11650000
		00022	2573+DCBDV301	EQU	X'22' -	2301 PARALLEL DRUM	11663800
		00023	2574+DCBDV303	EQU	X'23' -	2303 SERIAL DRUM	11677600
		00024	2575+DCBDV302	EQU	X'24' -	2302 DISK STORAGE	11691400
		00025	2576+DCBDV321	EQU	X'25' -	2321 DATA CELL STORAGE @ZA46311	11705200
		00026	2577+DCBD1305	EQU	X'26' -	2305 DRUM MODEL-1 @ZA46311	11719000
		00027	2578+DCBDV305	EQU	X'27' -	2305 DRUM MODEL-2 @ZA46311	11732800
		00028	2579+DCBDV314	EQU	X'28' -	2314/2319 DISK STORAGE FACILITY @ZA46311	11746600
		00029	2580+DCBDV330	EQU	X'29' -	3330 DISK STORAGE FACILITY @ZA46311	11760400
			2581+*			3330 MODEL-1 @ZA46311	11774200
			2582+*			3330 MODEL-2 @ZA46311	11788000
			2583+*			3333 MODEL-1 @ZA46311	11801800
		0002A	2584+DCBDV340	EQU	X'2A' -	3340/3344 DISK STORAGE FACILITY @ZA46311	11815600
		0002B	2585+DCBDV350	EQU	X'2B' -	3350 DISK STORAGE FACILITY @ZA46311	11829400
			2586+*			MODELS A2, B2, AND C2 @ZA46311	11843200
		0002C	2587+DCBDV375	EQU	X'2C' -	3375 DISK STORAGE FACILITY @F01A	11850100

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			0002D	2588+DCBDV331 EQU	X'2D' - 3330 MODEL-11 OR 3333 MODEL-11 @ZA46311 11857000	
				2589+*	DISK STORAGE FACILITY @ZA46311 11870800	
			0002E	2590+DCBDV380 EQU	X'2E' - 3380 DISK STORAGE FACILITY @F01A 11877700	
000012				2592+DCBTRBAL DS	H - TRACK BALANCE. NUMBER OF BYTES REMAINING 11900000	
				2593+*	ON CURRENT TRACK AFTER A WRITE OPERATION 11950000	
				2594+*	(THIS QUANTITY MAY BE NEGATIVE IF THERE 12000000	
				2595+*	ARE NO BYTES REMAINING ON TRACK). 12050000	
				2597+*****	***** 24551000	
				2598+*	ACCESS METHOD COMMON INTERFACE 24600000	
				2599+*****	***** 24601000	
000014		00010		2601+	ORG IHADCB+16 24700000	
000010				2602+DCBREL	DS OF - SAME AS DCBREL BELOW 24750000	
000010				2603+DCBKEYLE	DS FL1 - KEY LENGTH OF DATA SET 24800000	
000011				2604+DCBDEVT	DS OC - DEVICE TYPE 24850000	
		0004F		2605+DCBDVTRM EQU	X'4F' - TERMINAL. (DD CONTAINS TERM=TS) 24900000	
000011				2606+DCBREL	DS FL3 - NUMBER OF RELATIVE TRACKS OR BLOCKS IN 24950000	
				2607+*	THIS DATA SET (BDAM) 25000000	
000014				2608+DCBBUF	FCB DS OA - ADDRESS OF BUFFER POOL CONTROL BLOCK 25050000	
000014				2609+DCBBUFNO	DS FL1 - NUMBER OF BUFFERS REQUIRED FOR THIS DATA 25100000	
				2610+*	SET. MAY RANGE FROM 0 TO 255. IF 25150000	
				2611+*	UNBLOCKED SPANNED RECORDS ARE USED, 25200000	
				2612+*	NUMBER OF SEGMENT WORK AREAS REQUIRED 25250000	
				2613+*	FOR THIS DATA SET. 25300000	
000015				2614+DCBBUFCA	DS AL3 - ADDRESS OF BUFFER POOL CONTROL BLOCK 25350000	
000018				2615+DCBBUFL	DS H - LENGTH OF BUFFER. MAY RANGE FROM 0 TO 25400000	
				2616+*	32,767. 25450000	
00001A				2617+DCBDSORG	DS OBL2 - DATA SET ORGANIZATION BEING USED 25500000	
00001A				2618+DCBDSRG1	DS BL1 - FIRST BYTE OF DCBDSORG 25550000	
		00080		2619+DCBD	SGIS EQU DCBBIT0 - IS - INDEXED SEQUENTIAL ORGANIZATION 25600000	
		00040		2620+DCBD	SGPS EQU DCBBIT1 - PS - PHYSICAL SEQUENTIAL ORGANIZATION 25650000	
		00020		2621+DCBD	SGDA EQU DCBBIT2 - DA - DIRECT ORGANIZATION 25700000	
		00010		2622+DCBD	SGCX EQU DCBBIT3 - CX - BTAM OR QTAM LINE GROUP 25750000	
		00002		2623+DCBD	SGPO EQU DCBBIT6 - PO - PARTITIONED ORGANIZATION 25900000	
		00001		2624+DCBD	SGU EQU DCBBIT7 - U - UNMOVABLE, THE DATA CONTAINS 25950000	
				2625+*	LOCATION DEPENDENT INFORMATION 26000000	
00001B				2626+DCBD	SRG2 DS BL1 - SECOND BYTE OF DCBDSORG 26050000	
		00080		2627+DCBD	SGGS EQU DCBBIT0 - GS - GRAPHICS ORGANIZATION 26100000	
		00040		2628+DCBD	SGTX EQU DCBBIT1 - TX - TCAM LINE GROUP 26150000	
		00020		2629+DCBD	SGTQ EQU DCBBIT2 - TQ - TCAM MESSAGE QUEUE 26200000	
		00008		2630+DCB	ACBM EQU DCBBIT4 - ACCESS METHOD CONTROL BLOCK 26250000	
		00004		2631+DCBD	SGTR EQU DCBBIT5 - TR - TCAM 3705 26260000	
00001C				2632+DCB	IOBAD DS OA - ADDRESS OF IOB WHEN CHAINED SCHEDULING IS 26300000	
				2633+*	USED OR FOR 1419/1275 26350000	
00001C				2634+DCB	ODEB DS OA - ADDRESS OF OLD DEB 26400000	
00001C				2635+DCB	LNP DS OFL1 - 3525 PRINTER LINE POSITION COUNTER 26450000	
00001C				2636+DCB	QSLM DS BL1 - QSAM LOCATE MODE LOGICAL RECORD INTERFACE 26500000	
				2637+*	INDICATOR BYTE FOR UPDAT PROCESSING OF 26550000	
				2638+*	SPANNED RECORDS 26600000	
		00080		2639+DCB	1DVDS EQU DCBBIT0 - ONLY ONE DEVICE IS ALLOCATED TO THIS 26650000	
				2640+*	DATA SET 26700000	
		00040		2641+DCB	UPDCM EQU DCBBIT1 - UPDATE COMPLETE, FREE OLD DEB 26750000	
		00030		2642+DCB	UPDBT EQU DCBBIT2+DCBBIT3 - UPDATE BITS 26800000	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00020	2643+DCBUPDT	EQU DCBBIT2 - UPDATE TO TAKE PLACE	26850000
			00030	2644+DCBNUPD	EQU DCBBIT2+DCBBIT3 - NO UPDATE TO TAKE PLACE	26900000
			00010	2645+DCBSVDEB	EQU DCBBIT3 - OLD DEB ADDRESS MUST BE SAVED	26950000
00001D				2646+DCBIOBAA	DS 0AL3 - SAME AS DCBIOBAD ABOVE	27000000
00001D				2647+DCBODEBA	DS AL3 - ADDRESS OF OLD DEB	27050000
000020		0001C		2648+	ORG IHADCB+28	27100000
00001C				2649+DCBSVCXL	DS 0A - SAME AS DCBSVCXA BELOW	27150000
00001C				2650+	DS X - RESERVED	27200000
00001D				2651+DCBSVCXA	DS AL3 - POINTER TO EXIT LIST OF JES	27250000
				2652+*	C.I. INTERFACE CONTROL SVC	27300000
				2654+*****	*****	27351000
				2655+*	FOUNDATION EXTENSION	27400000
				2656+*****	*****	27401000
000020				2658+DCBEODAD	DS 0A - SAME AS DCBEODA BELOW	27500000
000020				2659+DCBHIARC	DS 0BL1 - HIERARCHY BITS	27550000
000020				2660+DCBBFTEK	DS 0BL1 - BUFFERING TECHNIQUE BITS	27600000
000020				2661+DCBBFALN	DS BL1 - BUFFER ALIGNMENT BITS	27650000
		00080		2662+DCBH1	EQU DCBBIT0 - HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO	27700000
		00070		2663+DCBBFT	EQU DCBBIT1+DCBBIT2+DCBBIT3 BUFFERING TECHNIQUE	27750000
		00060		2664+DCBBFTA	EQU DCBBIT1+DCBBIT2 - QSAM LOCATE MODE PROCESSING OF SPANNED	27800000
				2665+*	RECORDS - OPEN IS TO CONSTRUCT A RECORD	27850000
				2666+*	AREA IF IT AUTOMATICALLY CONSTRUCTS	27900000
				2667+*	BUFFERS	27950000
		00020		2668+DCBBFTR	EQU DCBBIT2 - FOR BSAM CREATE BDAM PROCESSING OF	28000000
				2669+*	UNBLOCKED SPANNED RECORDS - SOFTWARE	28050000
				2670+*	TRACK OVERFLOW. FOR BSAM INPUT	28100000
				2671+*	PROCESSING OF UNBLOCKED SPANNED RECORDS	28150000
				2672+*	WITH KEYS - RECORD OFFSET PROCESSING.	28200000
		00040		2673+DCBBFTS	EQU DCBBIT1 - SIMPLE BUFFERING - BIT 3 IS ZERO	28250000
		00020		2674+DCBBFTKR	EQU DCBBIT2 - UNBLOCKED SPANNED RECORDS - SOFTWARE	28300000
				2675+*	TRACK OVERFLOW (BDAM)	28350000
		00010		2676+DCBBFTE	EQU DCBBIT3 - EXCHANGE BUFFERING - BIT 1 IS ZERO	28400000
		00008		2677+DCBBFTKD	EQU DCBBIT4 - DYNAMIC BUFFERING (BTAM)	28450000
		00004		2678+DCBH0	EQU DCBBIT5 - HIERARCHY 0 MAIN STORAGE - BIT 0 IS ZERO	28500000
		00003		2679+DCBBFA	EQU DCBBIT6+DCBBIT7 - BUFFER ALIGNMENT	28550000
		00002		2680+DCBBFAD	EQU DCBBIT6 - DOUBLEWORD BOUNDARY	28600000
		00001		2681+DCBBFAF1	EQU DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28650000
				2682+*	CODED IN DCB MACRO INSTRUCTION	28700000
		00003		2683+DCBBFAF2	EQU DCBBIT6+DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28750000
				2684+*	CODED IN DCB MACRO INSTRUCTION	28800000
000021				2685+DCBEODA	DS AL3 - ADDRESS OF A USER-PROVIDED ROUTINE TO	28850000
				2686+*	HANDLE END-OF-DATA CONDITIONS	28900000
000024				2687+DCBEXLST	DS 0A - ADDRESS OF USER-PROVIDED LIST OF EXITS	28950000
000024				2688+DCBRECFCM	DS BL1 - RECORD FORMAT	29000000
		000E0		2689+DCBRECLA	EQU DCBBIT0+DCBBIT1+DCBBIT2 RECORD LENGTH INDICATOR - ASCII	29050000
		00020		2690+DCBRECD	EQU DCBBIT2 - ASCII VARIABLE RECORD LENGTH	29100000
		000C0		2691+DCBRECL	EQU DCBBIT0+DCBBIT1 - RECORD LENGTH INDICATOR	29150000
		00080		2692+DCBRECF	EQU DCBBIT0 - FIXED RECORD LENGTH	29200000
		00040		2693+DCBRECV	EQU DCBBIT1 - VARIABLE RECORD LENGTH	29250000
		000C0		2694+DCBRECU	EQU DCBBIT0+DCBBIT1 - UNDEFINED RECORD LENGTH	29300000
		00020		2695+DCBRECTOR	EQU DCBBIT2 - TRACK OVERFLOW	29350000
		00010		2696+DCBRECBR	EQU DCBBIT3 - BLOCKED RECORDS	29400000
		00008		2697+DCBRECSB	EQU DCBBIT4 - FOR FIXED LENGTH RECORD FORMAT - STANDARD	29450000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2698+*	BLOCKS. FOR VARIABLE LENGTH RECORD	29500000
				2699+*	FORMAT - SPANNED RECORDS	29550000
		00006		2700+DCBRECCC EQU	DCBBIT5+DCBBIT6 - CONTROL CHARACTER INDICATOR	29600000
		00004		2701+DCBRECCA EQU	DCBBIT5 - ASA CONTROL CHARACTER	29650000
		00002		2702+DCBRECCM EQU	DCBBIT6 - MACHINE CONTROL CHARACTER	29700000
		00000		2703+DCBRECC EQU	X'00' - NO CONTROL CHARACTER	29750000
		00001		2704+DCBRECKL EQU	DCBBIT7 - KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB	29800000
				2705+*	MACRO INSTRUCTION	29850000
000025				2706+DCBEXLSA DS	AL3 - ADDRESS OF USER-PROVIDED LIST OF EXITS	29900000
				2709+*****	*****	47139200
				2710+*	FOUNDATION BEFORE OPEN	47150000
				2711+*****	*****	47151000
000028		00028		2713+ ORG	IHADCB+40	47250000
000028				2714+DCBDDNAM DS	CL8 - NAME ON THE DD STATEMENT WHICH DEFINES	47300000
				2715+*	THE DATA SET ASSOCIATED WITH THIS DCB	47350000
000030				2716+DCBOFLGS DS	BL1 - FLAGS USED BY OPEN ROUTINE	47400000
		00080		2717+DCBOFLWR EQU	DCBBIT0 - IF ZERO, LAST I/O OPERATION WAS READ OR	47450000
				2718+*	POINT. IF ONE, LAST I/O OPERATION WAS	47500000
				2719+*	WRITE.	47550000
		00080		2720+DCBOFIOD EQU	DCBBIT0 - DATA SET IS BEING OPENED FOR INPUT OR	47600000
				2721+*	OUTPUT (BDAM)	47650000
		00040		2722+DCBOFLRB EQU	DCBBIT1 - LAST I/O OPERATION WAS IN READ BACKWARD	47700000
				2723+*	MODE	47750000
		00020		2724+DCBOFE0V EQU	DCBBIT2 - SET TO 1 BY EOVS WHEN IT CALLS CLOSE	47800000
				2725+*	ROUTINE FOR CONCATENATION OF DATA SETS	47850000
				2726+*	WITH UNLIKE ATTRIBUTES	47900000
		00010		2727+DCBOFOPN EQU	DCBBIT3 - AN OPEN HAS BEEN SUCCESSFULLY COMPLETED	47950000
		00008		2728+DCBOFPPC EQU	DCBBIT4 - SET TO 1 BY PROBLEM PROGRAM TO INDICATE A	48000000
				2729+*	CONCATENATION OF UNLIKE ATTRIBUTES	48050000
		00004		2730+DCBOFTM EQU	DCBBIT5 - TAPE MARK HAS BEEN READ	48100000
		00002		2731+DCBOFUEX EQU	DCBBIT6 - SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN	48150000
				2732+*	THAT FUNCTION TAKES A USER EXIT. SET TO 1	48200000
				2733+*	ON RETURN FROM USER EXIT TO THE I/O	48250000
				2734+*	SUPPORT FUNCTION WHICH TOOK THE EXIT.	48300000
		00001		2735+DCBOFIOF EQU	DCBBIT7 - SET TO 1 BY AN I/O SUPPORT FUNCTION IF	48350000
				2736+*	DCB IS TO BE PROCESSED BY THAT FUNCTION	48400000
000031				2737+DCBIFLG DS	BL1 - FLAGS USED BY IOS IN COMMUNICATING ERROR	48450000
				2738+*	CONDITIONS AND IN DETERMINING CORRECTIVE	48500000
				2739+*	PROCEDURES	48550000
		000C0		2740+DCBIBEC EQU	DCBBIT0+DCBBIT1 - ERROR CORRECTION INDICATOR	48600000
		00000		2741+DCBIFNEP EQU	X'00' - NOT IN ERROR PROCEDURE	48650000
		00040		2742+DCBEX EQU	DCBBIT1 - ERROR CORRECTION OR IOS PAGE FIX IN	48700000
				2743+*	PROCESS	48750000
		000C0		2744+DCBIFPEC EQU	DCBBIT0+DCBBIT1 - PERMANENT ERROR CORRECTION	48800000
		00030		2745+DCBIBPCT EQU	DCBBIT2+DCBBIT3 - PRINTER CARRIAGE TAPE PUNCH INDICATOR	48850000
		00020		2746+DCBIFC9 EQU	DCBBIT2 - CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH	48900000
				2747+*	SENSED	48950000
		00010		2748+DCBIFC12 EQU	DCBBIT3 - CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH	49000000
				2749+*	SENSED	49050000
		0000C		2750+DCBIBIOE EQU	DCBBIT4+DCBBIT5 - IOS ERROR ROUTINE USE INDICATOR	49100000
		00000		2751+DCBIFER EQU	X'00' - ALWAYS USE I/O SUPERVISOR ERROR ROUTINE	49150000
		00004		2752+DCBIFNE1 EQU	DCBBIT5 - NEVER USE I/O SUPERVISOR ERROR ROUTINE	49200000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000032 000032			00004	2753+DCBIFTIM	EQU	DCBBIT5 -	TEST IOS MASK (IMSK) FOR ERROR PROCEDURE 49250000
				2754+*			(BTAM) 49300000
			00008	2755+DCBIFNE2	EQU	DCBBIT4 -	NEVER USE I/O SUPERVISOR ERROR ROUTINE 49350000
			0000C	2756+DCBIFNE3	EQU	DCBBIT4+DCBBIT5	- NEVER USE I/O SUPERVISOR ERROR ROUTINE 49400000
				2757+DCBMACR	DS	OBL2 -	MACRO INSTRUCTION REFERENCE 49450000
				2758+DCBMACR1	DS	BL1 -	FIRST BYTE OF DCBMACR 49500000
			00080	2759+DCBMRECP	EQU	DCBBIT0 -	EXECUTE CHANNEL PROGRAM (EXCP) --- 49550000
				2760+*			ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, 49600000
				2761+*			QISAM, BDAM) --- RESERVED (QTAM, BTAM) 49650000
			00040	2762+DCBMRFE	EQU	DCBBIT1 -	FOUNDATION EXTENSION IS PRESENT (EXCP) 49700000
			00040	2763+DCBMRGET	EQU	DCBBIT1 -	GET (QSAM, QISAM, TCAM) 49750000
			00040	2764+DCBMRPTQ	EQU	DCBBIT1 -	PUT FOR MESSAGE GROUP (QTAM) --- 49800000
				2765+*			ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) --- 49850000
				2766+*			RESERVED (BTAM) 49900000
			00020	2767+DCBMRAPG	EQU	DCBBIT2 -	APPENDAGES ARE REQUIRED (EXCP) 49950000
			00020	2768+DCBMRRD	EQU	DCBBIT2 -	READ (BSAM, BPAM, BISAM, BDAM, BTAM) 50000000
			00020	2769+DCBMRWRQ	EQU	DCBBIT2 -	WRITE FOR LINE GROUP (QTAM) --- 50050000
				2770+*			ALWAYS ZERO (QSAM, QISAM) 50100000
			00010	2771+DCBMRCI	EQU	DCBBIT3 -	COMMON INTERFACE (EXCP) 50150000
			00010	2772+DCBMRMVG	EQU	DCBBIT3 -	MOVE MODE OF GET (QSAM, QISAM) 50200000
			00010	2773+DCBMRRDK	EQU	DCBBIT3 -	KEY SEGMENT WITH READ (BDAM) --- 50250000
				2774+*			ALWAYS ZERO (BISAM) --- 50300000
				2775+*			RESERVED (BSAM, BPAM, QTAM, BTAM) 50350000
			00008	2776+DCBMRLCG	EQU	DCBBIT4 -	LOCATE MODE OF GET (QSAM, QISAM) 50400000
			00008	2777+DCBMRRDI	EQU	DCBBIT4 -	ID ARGUMENT WITH READ (BDAM) --- 50450000
				2778+*			ALWAYS ZERO (BISAM) --- 50500000
				2779+*			RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM) 50550000
			00004	2780+DCBMRABC	EQU	DCBBIT5 -	USER'S PROGRAM MAINTAINS ACCURATE BLOCK 50600000
				2781+*			COUNT (EXCP) 50650000
			00004	2782+DCBMRPT1	EQU	DCBBIT5 -	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM) 50700000
			00004	2783+DCBMRSBG	EQU	DCBBIT5 -	SUBSTITUTE MODE OF GET (QSAM) 50750000
			00004	2784+DCBMRDBF	EQU	DCBBIT5 -	DYNAMIC BUFFERING (BISAM, BDAM) --- 50800000
				2785+*			ALWAYS ZERO (QISAM) --- 50850000
				2786+*			RESERVED (QTAM, BTAM) 50900000
			00002	2787+DCBPGFXA	EQU	DCBBIT6 -	PAGE FIX APPENDAGE IS SPECIFIED (EXCP) 50950000
			00002	2788+DCBMRCRL	EQU	DCBBIT6 -	CNTRL (BSAM, QSAM) 51000000
			00002	2789+DCBMRCHK	EQU	DCBBIT6 -	CHECK (BISAM) 51050000
			00002	2790+DCBMRRDX	EQU	DCBBIT6 -	READ EXCLUSIVE (BDAM) --- 51100000
				2791+*			RESERVED (BPAM, QISAM, QTAM, BTAM) 51150000
			00001	2792+DCBMRDMG	EQU	DCBBIT7 -	DATA MODE OF GET (QSAM) 51200000
000033			00001	2793+DCBMRCK	EQU	DCBBIT7 -	CHECK (BDAM) --- RESERVED (EXCP, BSAM, 51250000
				2794+*			BPAM, BISAM, QISAM, QTAM, BTAM) 51300000
				2795+DCBMACR2	DS	BL1 -	SECOND BYTE OF DCBMACR 51350000
			00080	2796+DCBMRSTL	EQU	DCBBIT0 -	SETL (QISAM) --- ALWAYS ZERO (BSAM, QSAM, 51400000
				2797+*			BPAM, BISAM, BDAM) --- 51450000
				2798+*			RESERVED (EXCP, QTAM, BTAM) 51500000
			00040	2799+DCBMRPUT	EQU	DCBBIT1 -	PUT (QSAM, TCAM) - PUT OR PUTX (QISAM) 51550000
			00040	2800+DCBMRGTQ	EQU	DCBBIT1 -	GET FOR MESSAGE GROUP (QTAM) --- 51600000
				2801+*			ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) --- 51650000
				2802+*			RESERVED (EXCP, BTAM) 51700000
			00020	2803+DCBMRWRT	EQU	DCBBIT2 -	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) 51750000
			00020	2804+DCBMRRDQ	EQU	DCBBIT2 -	READ FOR LINE GROUP (QTAM) --- 51800000
				2805+*			ALWAYS ZERO (QSAM, QISAM) --- 51850000
				2806+*			RESERVED (EXCP) 51900000
			00010	2807+DCBMRMVP	EQU	DCBBIT3 -	MOVE MODE OF PUT (QSAM, QISAM) 51950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00010	2808+DCBMRWRK EQU	DCBBIT3 -	KEY SEGMENT WITH WRITE (BDAM) ---	52000000
				2809+*		ALWAYS ZERO (BISAM) ---	52050000
				2810+*		RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM)	52100000
			00008	2811+DCBMR5WD EQU	DCBBIT4 -	FIVE-WORD DEVICE INTERFACE (EXCP)	52150000
			00008	2812+DCBMRLDM EQU	DCBBIT4 -	LOAD MODE BSAM (CREATE BDAM DATA SET)	52200000
				2813+*		(BSAM)	52250000
			00008	2814+DCBMRLCP EQU	DCBBIT4 -	LOCATE MODE OF PUT (QSAM, QISAM)	52300000
			00008	2815+DCBMRIDW EQU	DCBBIT4 -	ID ARGUMENT WITH WRITE (BDAM) ---	52350000
				2816+*		ALWAYS ZERO (BISAM) ---	52400000
				2817+*		RESERVED (BPAM, QTAM, BTAM)	52450000
			00004	2818+DCBMR4WD EQU	DCBBIT5 -	FOUR-WORD DEVICE INTERFACE (EXCP)	52500000
			00004	2819+DCBMRPT2 EQU	DCBBIT5 -	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)	52550000
			00004	2820+DCBMRTMD EQU	DCBBIT5 -	SUBSTITUTE MODE (QSAM)	52600000
			00004	2821+DCBMRUIP EQU	DCBBIT5 -	UPDATE IN PLACE (PUTX) (QISAM) ---	52650000
				2822+*		ALWAYS ZERO (BISAM) ---	52700000
				2823+*		RESERVED (BDAM, QTAM, BTAM)	52750000
			00002	2824+DCBMR3WD EQU	DCBBIT6 -	THREE-WORD DEVICE INTERFACE (EXCP)	52800000
			00002	2825+DCBMRCTL EQU	DCBBIT6 -	CNTRL (BSAM, QSAM)	52850000
			00002	2826+DCBMRSTK EQU	DCBBIT6 -	SETL BY KEY (QISAM)	52900000
			00002	2827+DCBMRAWR EQU	DCBBIT6 -	ADD TYPE OF WRITE (BDAM) ---	52950000
				2828+*		ALWAYS ZERO (BISAM) ---	53000000
				2829+*		RESERVED (BPAM, QTAM, BTAM)	53050000
			00001	2830+DCBMR1WD EQU	DCBBIT7 -	ONE-WORD DEVICE INTERFACE (EXCP)	53100000
			00001	2831+DCBMRSWA EQU	DCBBIT7 -	USER'S PROGRAM HAS PROVIDED A SEGMENT	53150000
				2832+*		WORK AREA POOL (BSAM CREATE BDAM, BDAM)	53200000
			00001	2833+DCBMRDMD EQU	DCBBIT7 -	DATA MODE (QSAM)	53250000
			00001	2834+DCBMRSTI EQU	DCBBIT7 -	SETL BY ID (QISAM) ---	53300000
				2835+*		ALWAYS ZERO (BISAM) ---	53350000
				2836+*		RESERVED (BPAM, QTAM, BTAM)	53400000
				2838+*****		*****	53451000
				2839+*		FOUNDATION AFTER OPEN	53500000
				2840+*****		*****	53501000
000034			00028	2842+	ORG	IHADCB+40	53600000
000028				2843+DCBTIOT DS	H -	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD	53650000
				2844+*		IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED	53700000
				2845+*		WITH THIS DCB	53750000
00002A				2846+DCBMACRF DS	OBL2 -	SAME AS DCBMACR BEFORE OPEN	53800000
00002A				2847+DCBMACF1 DS	BL1 -	FIRST BYTE OF DCBMACRF	53850000
00002B				2848+DCBMACF2 DS	BL1 -	SECOND BYTE OF DCBMACRF	53900000
00002C				2849+DCBDEBAD DS	0A -	ADDRESS OF ASSOCIATED DEB	53950000
00002C				2850+DCBIFLGS DS	BL1 -	SAME AS DCBIFLG BEFORE OPEN	54000000
			000C0	2851+DCBIFEC EQU	DCBBIT0+DCBBIT1 -	ERROR CORRECTION INDICATOR	54050000
			00030	2852+DCBIFPCT EQU	DCBBIT2+DCBBIT3 -	PRINTER CARRIAGE TAPE PUNCH INDICATOR	54100000
			0000C	2853+DCBIFIOE EQU	DCBBIT4+DCBBIT5 -	IOS ERROR ROUTINE USE INDICATOR	54150000
			00002	2854+DCBIFLDT EQU	DCBBIT6 -	3800 PRINTER LOST DATA INDICATOR @G38ESMH	54175000
00002D				2855+DCBDEBA DS	AL3 -	ADDRESS OF ASSOCIATED DEB	54200000
000030			00034	2859+	ORG	IHADCB+52	57996000
000034				2860+DCBOPTCD DS	OBL1 -	OPTION CODE	57998000
000000				2862	END	DISASM03	07210000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	08	0000A5	
0001	0001	08	0000F1	
0001	0001	0C	0005D0	
0001	0001	08	0007A1	
0001	0001	08	000EA5	
0001	0001	08	000EA9	
0001	0001	0C	000EDC	
0001	0001	0C	000F94	
0001	0001	0C	000F98	
0001	0001	0C	000F9C	
0001	0002	1C	0007C4	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18											
\$ABORT	00001	00000080	01747	00285	00481	00518	00538	00543	00548							
\$ALIAS	00001	00000080	00638	00123	00151	00164	00181	00186	00242	00253						
\$CSECT	00001	00000020	01749	00311	00313	00792	00797	00802	00807	00812	00817	00822	00827	00832		
\$ERROR	00001	00000040	01748	00285	00481	00538	00543	00548	00552							
\$EXEC	00001	00000002	00650	00226												
\$IOSIZE	00001	00007FF8	01699	00463												
\$MODEOF	00001	00000040	00690	00289	00320											
\$OFROUND	00001	00000010	01782	00576												
\$OPMASK	00001	00000001	02260	01916												
\$OVRLY	00001	00000020	00646	00212												
\$PFDIR	00001	00000080	01762	00554												
\$PFTRC	00001	00000001	01768	02003	02005											
\$PRTPRT	00001	000000D7	02127	02113	02134											
\$PRTSUBH	00001	000000E2	02126	00566	02009											
\$REFR	00001	00000001	00660	00233												
\$RENT	00001	00000080	00644	00196												
\$REUS	00001	00000040	00645	00203												
\$SCTR	00001	00000004	00649	00168	00179	00219										
\$SSI	00001	00000010	00667	00158	00176											
\$SUBH	00001	00000080	00689	00560	00565											
\$SYMERR	00001	00000020	00691	00444	00446											
ABEND002	00001	00000002	02272	00527												
AOP	00004	000000AC	01674	01897												
APR	00004	000000B8	01676	02116												
APU	00004	000000BC	01677	02137												
A04	00004	00000040	01656	00839												
A05	00004	0000004C	01658	00799	00804	00814	00819	00829	00834							
A55	00004	00000058	01660	00573												
BADFILE	00006	000006B4	00537	00079	00081	00094	00096									
BASEDSCT	00001	00000000	02315	02323												
BLDLCODE	00002	00000829	00692	00511	00522											
BLDLIST	00004	000007D4	00629	00117												
BLDLMSGL	00001	00000039	00774	00513	00516											
BLDLMSG	00001	00000BC9	00772	00507	00774											
BLDLR0	00001	0000082A	00694	00501	00505											
BLDLR15	00001	00000829	00693	00502	00503											
BLKTRT	00001	00000A68	02174	02175	02177	02179	02181	02183	02185	02187	02189	02191	02193	02195	02197	02199
CALLSYMT	00004	0000072E	00571	00290												
CAMLIST	00004	00000F90	01525	00091												
COMMBLKS	00001	00000225	01792	00150	00175											
COMMCLR	00004	000000F8	01703	01723	01727											
COMMCSAD	00004	0000011C	01713	00393	00585											
COMMSEA	00004	00000124	01715	00588												
COMMSEP	00004	00000120	01714	00146												
COMMCSLN	00004	0000012C	01717	00578	00582	00584										
COMMMDWRD	00008	00000000	01641	00076	00080	00082	00140	00142	02028	02029						
COMMESID	00002	00000140	01722	00371												
COMMFILL	00001	00000161	01744	02073												
COMMFLAG	00001	00000163	01746	00285	00313	00481	00518	00538	00543	00548	00552					
COMMHXCH	00016	00000275	01793	01794												
COMMHXTR	00016	00000185	01794	00131	00134	00144	00148	00173	00193	02020	02023	02026	02030			
COMMIO	00004	000000F4	01698	00352	00395	00406	00455									
COMMMD	00008	00000144	01725	00103	00113											
COMMNPRT	00001	000003C7	01849	01850	01852	01854	01856	01858	01860	01862	01864	01866	01868	01870	01872	01874
COMMOPFG	00001	00000168	01779	00576												

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
COMMP00L	00001	00000162	01745	02065	02080														
COMMPRT	00001	000002C7	01820	01821	01823	01825	01827	01829	01831	01833	01835	01837	01839	01841	01843				
COMMSUBH	00133	0000016D	01788	00562	02006														
COMMSUBL	00002	00000154	01738	00564	02007	02007	02008												
COMMSYMP	00004	00000134	01719	00421	00571														
COMMTXT	00004	00000130	01718	00394	00579														
CSCT0000	00002	00000450	00348	00793	00803	00808	00818	00823	00833										
CSCT0010	00002	00000470	00357	00354															
CSCT0020	00002	00000478	00360	00356															
CSCT0030	00002	00000498	00370	00375															
CSCT0040	00002	000004B2	00377	00372															
CSCT0050	00002	000004C6	00383	00376															
DATADSCT	00001	00000000	02330	02351															
DCBBIT0	00001	00000080	02533	02619	02627	02639	02662	02689	02691	02692	02694	02717	02720	02740	02744	02759	02796	02851	
DCBBIT1	00001	00000040	02534	02620	02628	02641	02663	02664	02673	02689	02691	02693	02694	02722	02740	02742	02744	02762	
				02763	02764	02799	02800	02851											
DCBBIT2	00001	00000020	02535	02621	02629	02642	02643	02644	02663	02664	02668	02674	02689	02690	02695	02724	02745	02746	
				02767	02768	02769	02803	02804	02852										
DCBBIT3	00001	00000010	02536	02622	02642	02644	02645	02663	02676	02696	02727	02745	02748	02771	02772	02773	02807	02808	
				02852															
DCBBIT4	00001	00000008	02537	02630	02677	02697	02728	02750	02755	02756	02776	02777	02811	02812	02814	02815	02853		
DCBBIT5	00001	00000004	02538	02631	02678	02700	02701	02730	02750	02752	02753	02756	02780	02782	02783	02784	02818	02819	
				02820	02821	02853													
DCBBIT6	00001	00000002	02539	02623	02679	02680	02683	02700	02702	02731	02787	02788	02789	02790	02824	02825	02826	02827	
				02854															
DCBBIT7	00001	00000001	02540	02624	02679	02681	02683	02704	02735	02792	02793	02830	02831	02833	02834				
DCBDDNAM	00008	00000028	02714	00075															
DCBFDAD	00008	00000005	02560	02563															
DIR#NOTE	00001	000007ED	00642	00139															
DIRATTR1	00001	000007EE	00643	00168	00179	00196	00203	00212	00219	00226									
DIRATTR2	00001	000007EF	00652	00233															
DIRATTR3	00001	000007F8	00664	00158	00176														
DIRDATA	00080	000007D8	00632	00633	00685														
DIREPA	00003	000007F5	00663	00146	00147														
DIRINDS	00001	000007E5	00637	00123	00151	00164	00181	00186	00242	00253									
DIRMEM	00008	000007D8	00634	00113	00122	00258													
DIRMEP	00003	000007FB	00680	00166	00188														
DIRMSIZE	00003	000007F0	00661	00143															
DIRMTTRZ	00004	000007E0	00635	00266															
DIRNTTR	00003	000007EA	00641	00133															
DIRRMEM	00008	000007FE	00681	00153	00166	00188	00246	00251	00258										
DIRSCTR	00002	000007FB	00675	00157	00178	00679													
DIRSSI	00004	00000806	00682	00160															
DIRTTTR	00003	000007E6	00639	00130															
DISASM00	00001	00000000	01635	00069	00799	00804	00814	00819	00829	00834	00839	01648	01887	01964	02001	02062	02098		
DISASM03	00001	00000000	00059	00060	00068	00793	00803	00808	00818	00823	00833	00843	02862						
DISMOD	00004	00000E84	00855	00075	00088	00111	00116	00245	00265	00464	00608								
DSCTDSCT	00001	00000000	02358	02364															
DS1DSGPO	00001	00000002	01560	00097															
DS1DSORG	00002	00000FF2	01549	00095	00097														
DS1FMTID	00001	00000FCC	01537	01532															
DS1IND01	00001	00000001	01600	01601															
DS1IND02	00001	00000002	01596	01599															
DS1RECFM	00001	00000FF4	01574	00099															
EMSG00	00032	00000A73	00759	00537	00760														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
EMSG00L	00001	00000020	00760	00537	
EMSG01	00037	00000A93	00761	00542 00762	
EMSG01L	00001	00000025	00762	00542	
EMSG02	00048	00000AB8	00763	00547 00764	
EMSG02L	00001	00000030	00764	00547	
EMSG18	00052	00000B95	00770	00595 00771	
EMSG18L	00001	00000034	00771	00595 00596	
EMSG19	00058	00000B5B	00769	00250 00250	
EMSG20	00001	00000B31	00767	00447	
EMSG20T	00041	00000B32	00768	00767	
EMSG3	00073	00000AE8	00765	00482 00766	
EMSG3L	00001	00000049	00766	00482	
EOD00000	00002	000005FA	00477	00873	
ERR0010	00002	0000063E	00500	00121	
ERR0020	00002	00000652	00506	00504	
ERR0040	00002	00000670	00515	00512 00514	
ERR0050	00002	00000682	00520	00510	
ERR0060	00002	000006C6	00541	00314	
ERR0070	00002	000006D8	00546	00278	
ESDDATA	00001	00000000	02371	02394	
ESDNAME	00008	0000000E	02375	02390	
EXCLCPAD	00006	0000078A	00598	00593	
EXGETOPC	00006	00000554	01928	01921	
EXITLIST	00004	00000EDC	00902	00875	
EXIT0000	00002	00000790	00600	00287 00484 00519 00540 00545 00550 00577 00583	
EXMVCSYM	00006	0000058E	00441	00435	
GETMAIN	00004	00000684	02063	00430	
GETOPEXT	00004	00000546	01924	01917	
GETOPLN	00001	0000055A	01929	01895	
GETOPNOT	00004	0000054E	01926	01900 01910 01915 01923	
GETOPTMK	00004	00000526	01916	01901	
GETOPWRK	00006	0000055E	01930	01920 01920 01922 01928	
HEXTRT	00001	00000868	02156	02157 02159 02161 02163 02165	
IECSDSL1	00001	00000FA0	01534	00494 01535	
IHADCB	00001	00000000	02516	00075 02601 02648 02713 02842 02859	
INFMJFCB	00001	00000EE0	00937	00493 00902	
INTTRT	00001	00000968	02167	02168 02170 02172	
JFCBDSNM	00044	00000EE0	00940	01530	
JFCBELNM	00008	00000F0C	00943	00103 00104 00104	
JFCBIND1	00001	00000F36	01076	00101 00105	
JFCBTSDM	00001	00000F14	00946	00106	
JFCBVOLS	00030	00000F56	01447	01531	
JFCNWRIT	00001	00000008	00955	00106	
JFCPDS	00001	00000001	01082	00101 00105	
JFCRESRV	00004	00000F4C	01386	01411	
JFCVSL	00001	00000040	00948	00106	
LABLDSCT	00001	00000000	02401	02417	
MAINRSV	00004	00000858	02154	02063 02069 02071 02075 02078 02084	
MODDECB	00004	000005C8	00460	00456 00456 00472	
MODENT	00004	00000064	00064	00060	
MODFLAG	00001	00000828	00688	00289 00320 00444 00446 00560 00565	
MODHEAD	00023	00000005	00062	00061	
MODSAVE	00004	0000001C	00063	00070	
MOD0010	00002	000000FC	00114	00259	
MOD0020	00002	00000128	00127	00124	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MOD0030	00002	0000012E	00129	00126	
MOD0040	00002	000001A8	00154	00152	
MOD0050	00002	000001CA	00163	00159	
MOD0060	00002	000001D6	00167	00165	
MOD0070	00002	000001E2	00171	00169	
MOD0080	00002	0000021C	00185	00180	
MOD0090	00004	00000228	00189	00184 00187	
MOD0100	00002	00000244	00195	00177 00182	
MOD0110	00002	00000256	00200	00197	
MOD0120	00002	0000025C	00202	00199	
MOD0130	00002	0000026E	00207	00204	
MOD0140	00002	00000274	00209	00206	
MOD0150	00002	00000290	00216	00213	
MOD0160	00002	00000296	00218	00215	
MOD0170	00002	000002A8	00223	00220	
MOD0180	00002	000002AE	00225	00222	
MOD0190	00002	000002C0	00230	00227	
MOD0200	00002	000002C6	00232	00229	
MOD0210	00002	000002D8	00237	00234	
MOD0220	00002	000002DE	00239	00236	
MOD0228	00006	00000318	00255	00249	
MOD0230	00002	00000330	00260	00243 00254	
MOD0240	00002	0000035A	00276	00282	
MOD0250	00002	00000374	00283	00280	
MOD0260	00002	00000386	00288	00272 00335 00346 00391 00401 00423 00440 00445 00449	
MOD0270	00002	000003A8	00298	00304	
MOD0280	00002	000003C2	00305	00302	
MOD0290	00002	00000400	00321	00312 00316	
MOD0300	00002	00000422	00332	00324	
MOD0310	00002	00000440	00342	00300	
MSG01	00001	0000084B	00702	00136 00715	
MSG01ALS	00003	0000086F	00707	00125 00128	
MSG01L	00001	0000006E	00715	00136	
MSG01MEM	00008	00000857	00704	00122	
MSG01NTE	00006	000008B2	00713	00133 00134 00135	
MSG01TXT	00006	00000890	00710	00130 00131 00132	
MSG02	00001	000008B9	00716	00155 00728	
MSG02EPA	00006	00000901	00724	00147 00148 00149	
MSG02L	00001	00000073	00728	00155	
MSG02MEM	00008	00000924	00727	00150 00153	
MSG02NTE	00004	000008CA	00718	00141 00142	
MSG02SZ	00006	000008E8	00721	00143 00144 00145	
MSG03	00001	0000092C	00729	00210 00741	
MSG03ATH	00002	00000936	00731	00172 00173 00174	
MSG03L	00001	00000066	00741	00210	
MSG03RNT	00003	00000973	00737	00198 00201	
MSG03RUS	00003	0000098F	00740	00205 00208	
MSG03SSI	00008	00000953	00734	00175 00192 00193 00194	
MSG04	00001	00000992	00742	00240 00754	
MSG04EXC	00003	000009D9	00750	00228 00231	
MSG04L	00001	00000069	00754	00240	
MSG04OVR	00003	0000099A	00744	00214 00217	
MSG04RFR	00003	000009F8	00753	00235 00238	
MSG04SCT	00003	000009BD	00747	00221 00224	
MSG05	00001	000009FB	00755	00255 00758	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
MSG05L	00001	00000078	00758	00255															
NBLTRT	00001	00000B68	02201	02202	02204														
NO	00003	0000082D	00698	00125	00198	00205	00214	00221	00228	00235									
NOMEM	00004	000000EC	00109	00102															
OPDSECT	00001	00000000	02223	01898	02261														
OPFLAGS	00001	00000007	02252	01916															
OPFLAG1	00001	00000001	02225	01905															
OPFLAG2	00001	00000002	02226	01907															
OPFLAG3	00001	00000003	02227	01909															
OPMASK	00006	00000008	02262	01922															
OPMNEM	00006	00000000	02224	02225	02226	02227													
PNTCODE	00002	0000082B	00695	00279															
PNTMSG1	00001	00000039	00781	00281	00284														
PNTMSG5	00001	00000CAE	00779	00275	00781														
POINTR0	00001	0000082C	00697	00274															
POINTR15	00001	0000082B	00696	00273															
PRINTDAT	00004	000006F0	02114	00567	02010														
PRINTFG1	00001	00000165	01761	00554	02003	02005													
PRINTMSG	00004	000006BE	02099	00448															
PRINTMVR	00006	000006E6	02111	02108															
PRINTREC	00004	000006EC	02113	00568	02032	02110													
PRINTREX	00004	000006FE	02118	02102															
PRINTRSV	00004	00000848	02153	02099	02109	02114	02118	02135	02139										
PROCDST	00001	00000000	01622	00297	01627														
PROCFLAG	00001	00000001	01624	00311															
PROCINTL	00002	00000002	01625	00334															
PROCL	00001	00000006	01627	00303															
PROCTBLE	00001	00000E3E	00789	00296															
PROCTYPE	00001	00000000	01623	00301	00307														
PROCXTNL	00002	00000004	01626	00323															
PRTBLOK	00001	0000070E	02123	02115															
PRTCC	00001	0000070F	02130	00256	02119														
PRTCMD	00001	0000070E	02124	00566	02009	02113	02134												
PRTDATA	00132	00000710	02131	00136	00155	00210	00240	00250	00251	00255	00284	00482	00516	00537	00542	00547	00556	00557	
				00557	00557	00595	00596	02017	02018	02019	02020	02021	02022	02023	02024	02025	02026	02027	
				02029	02030	02031	02103	02111	02120	02120									
PRT0000	00002	000006EA	00551	00137	00156	00211	00241	00252	00257	00286	00483	00517	00539	00544	00549	00597			
PRT0005	00002	00000706	00559	00553	00555														
PRT0010	00004	00000728	00568	00561															
PUNBLOK	00001	000007B2	02142	02136															
PUNDATA	00080	000007B4	02148	02133															
READOBJ	00004	00000618	00490	00083	00098	00100													
READ0000	00002	000005AC	00451	00291	00389														
REFDST	00001	00000000	02424	02434															
RLDDATA	00001	00000000	02441	02459															
ROUNDUP	00004	0000073C	00576	00572															
R0	00001	00000000	02278	00274	00429	00493	00505	00571	01888	01894	01894	01895	01918	01966	01985	02002	02041	02065	
				02070	02074	02080	02103	02104	02106	02109									
R1	00001	00000001	02279	00138	00138	00139	00140	00157	00160	00160	00161	00162	00166	00166	00170	00170	00172	00178	
				00183	00183	00188	00188	00189	00189	00190	00191	00192	00275	00277	00279	00281	00281	00284	
				00431	00432	00437	00442	00447	00494	00507	00509	00511	00513	00513	00516	00527	00563	00564	
				00585	00586	00587	00588	01890	01904	01924	01926	01928	01965	01967	01971	01971	01972	01974	
				01976	02063	02069	02070	02071	02075	02099	02101	02111	02114	02115	02118	02133	02135	02136	
				02139															
R10	00001	0000000A	02288	00137	00156	00211	00241	00252	00257	00286	00291	00389	00476	00483	00517	00539	00544	00549	

SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18									
				00558	00569	00597																	
R11	00001	0000000B	02289	00069	00325	01887	01964	02001	02062	02098													
R12	00001	0000000C	02290	00064	00065	00067	00068	00336	00497	00611	01978												
R13	00001	0000000D	02291	00064	00071	00072	00073	00495	00495	00496	00497	00610	00610	00611									
R14	00001	0000000E	02292	00064	00070	00071	00072	00073	00294	00307	00308	00309	00318	00329	00331	00339	00344	00350					
				00366	00380	00387	00397	00404	00430	00448	00453	00479	00490	00496	00522	00523	00524	00526					
				00567	00568	00574	00602	00611	00613	01891	01892	01893	01895	01902	01902	01904	01906	01908					
				01909	01911	01911	01912	01913	01924	01925	01927	01979	01986	02010	02032	02042	02063	02074					
				02075	02076	02078	02084	02085	02099	02109	02114	02117	02118	02121	02135	02138	02139	02140					
R15	00001	0000000F	02293	00060	00065	00078	00078	00093	00093	00120	00120	00249	00249	00271	00271	00273	00322	00322					
				00323	00325	00326	00326	00328	00331	00333	00333	00334	00336	00338	00341	00492	00498	00502					
				00573	00574	00589	00590	00591	00593	00594	00594	00596	00612	00612	01888	01889	01889	01890					
				01892	01896	01897	01898	01899	01899	01913	01914	01914	01926	01966	01985	02002	02041	02072					
				02072	02073	02078	02084	02100	02100	02101	02104	02106	02107	02108	02116	02117	02137	02138					
R2	00001	00000002	02280	00384	00384	00385	00392	00393	00394	00400	00424	00424	00425	00427	00433	00434	00435	00497					
				00580	00581	00582	00584	00586	00589	01903	01903	01905	01906	01907	01908								
R3	00001	00000003	02281	00293	00301	00315	00352	00353	00355	00358	00359	00361	00385	00399	00406	00407	00410	00418					
				00418	00422	00425	00436	00436	00441	00455	00467	00579	00592	00598	00598								
R4	00001	00000004	02282	00355	00358	00359	00359	00364	00371	00373	00374	00374	00379	00382	00412	00412	00413	00414					
				00414	00578	00580	00590	00592	01918	01919	01921												
R5	00001	00000005	02283	00361	00362	00365	00375	00409	00409	00410	00416	00416	00439	02011	02014	02034	02034	02035					
				02037	02039																		
R6	00001	00000006	02284	00368	00368	00373	00392	00395	00400	00419	00421	00431	00437	00438									
R7	00001	00000007	02285	00369	00369	00382	00390	00390	00399														
R8	00001	00000008	02286	00066	00067	00067	00068																
R9	00001	00000009	02287	00296	00297	00299	00303	00303															
SUBHD1	00024	00000833	00700	00562	00701																		
SUBHD1L	00001	00000018	00701	00562	00563																		
SYMDATA	00001	00000000	02466	00432	02471																		
SYMDATAL	00001	00000040	02471	00429																			
SYMPOINT	00004	000007D0	00627	00419	00438																		
SYMRLen	00002	00000004	02468	00433																			
SYMTEXT	00056	00000006	02469	00441																			
SYMTO000	00004	00000504	00404	00843																			
SYMTO050	00006	0000054A	00422	00420	00439																		
SYMTO990	00004	00000594	00444	00408	00411	00415	00417	00426	00428														
TPODA1A	00008	00000017	02046	02019	02019	02020	02020	02021	02021														
TPODA1B	00008	00000020	02047	02022	02022	02023	02023	02024	02024														
TPODA2A	00008	0000002A	02048	02025	02025	02026	02026	02027	02027														
TPODA2B	00008	00000033	02049	02029	02029	02030	02030	02031	02031														
TPOMOD	00008	00000003	02044	02017	02017																		
TPOTID	00008	0000000D	02045	02018	02018																		
TRACEPEN	00004	00000662	02041	02004	02013	02036																	
TRACEPIN	00004	00000646	02034	02012	02016																		
TRACEPPR	00004	000005E2	02015	02038	02040																		
TRACEPRT	00004	000005B0	02002	00526																			
TRACESHD	00027	00000668	02050	02006	02006	02007																	
TRACE000	00002	00000564	01963	00294	00309	00318	00329	00339	00344	00350	00366	00380	00387	00397	00404	00453	00479	00490					
				00524	00602																		
TRACE010	00002	00000580	01975	01973																			
TRACE020	00002	000005A8	01984	01968																			
TRCESAVE	00004	00000808	02152	01888	01924	01926	01966	01985	02002	02041													
TRCURR	00004	000000D4	01689	01967	01976	02011	02035																
TRDATA1	00008	000000E0	01692	00293	00308	00328	00338	00364	00379	00523	01980	01982	01982										
TRDATA2	00008	000000E8	01693	00365	01981	01983	01983																

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TREDATA1	00008	00000010	02214	01980 02019 02022	
TREDATA2	00008	00000018	02215	01981 02025 02028	
TREID	00008	00000008	02213	01979 02018	
TREMOD	00008	00000000	02212	01978 02015 02017	
TRETRY	00001	00000000	02211	01965 02014 02033 02033 02216	
TRETRYL	00001	00000020	02216	01971 02033 02034	
TRLAST	00004	000000CC	01687	01972 02037	
TR1ST	00004	000000C4	01685	01974 02039	
USNGDSCT	00001	00000000	02478	02492	
VERPSECT	00001	00000000	02499	02505	
YES	00003	00000830	00699	00128 00201 00208 00217 00224 00231 00238	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 721

TOTAL RECORDS READ FROM SYSTEM LIBRARY 11549

TOTAL RECORDS PUNCHED 75

TOTAL RECORDS PRINTED 1926

ASM 0201 00.48 07/11/18

DISASM04 SD 0001 000000 000456

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASM04	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	PROCESS ESD DATA AS A SUB-FUNCTION OF DISASM03. ESD DATA ARE	00070000
				8 *	PRINTED AND SAVED IN ESDDATA BLOCKS FOR USE IN GENERATING LABELS	00080000
				9 *	AND ENTRY STATEMENTS.	00090000
				10 *		00100000
				11 *		00110000
				12 *	-----*	00120000
				13	COPY DISASMGB	00130000
				14 *	-----*	00010000
				15 *		00020000
				16 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				17 *		00040000
				18 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				19 *		00060000
				20 *	-----*	00070000
				21	GBLA &TRNBRG,&MAXL,&MINL	00080000
				22	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				23	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				24	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
				25 DISASM04	MODHEAD , ENTRY HOUSEKEEPING GP99140	00140000
000000				26+DISASM04	START 0	00070000
000000	47F0 F064	00064		27+	B MODENT-DISASM04(,R15) BRANCH AROUND	00100000
000004	17			28+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F4			29+MODHEAD	DC C'DISASM04 07/11/18 00.48'	00120000
00001C	0000000000000000			30+MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		31+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			32+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
		00000		33+	USING DISASM04,R12	00330000
		00000		34+	USING DISASM00,R11	00360000
00006A	41E0 C01C	0001C		35+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008	00008		36+	ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0 E004	00004		37+	ST R13,4(,R14) CHAIN UP	00390000
000076	18DE			38+	LR R13,R14 NEW SAVE AREA	00400000
				39	ITRACE ID=ENTRY	00150000
000078	45E0 B564	00564		40+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00007C	C5D5E3D9E8404040			41+	DC CL8'ENTRY' TRACE ID	00670000
000084	9140 B165	00165		42	TM PRINTFG1,\$PFESD PRINTING CESD ? GP99132	00160000
000088	4780 C0BE	000BE		43	BZ ESD0010 NO; DON'T NEED SUBHEAD GP99132	00170000
00008C	D232 B16D C303	0016D 00303		44	MVC COMMSUBH(SUBHEADL),SUBHEAD GP10066	00180000
000092	4110 0033	00033		45	LA R1,SUBHEADL SUBHEADING LENGTH	00190000
000096	4010 B154	00154		46	STH R1,COMMSUBL SET LENGTH	00200000
00009A	92FF B154	00154		47	MVI COMMSUBL,X'FF' INDICATE NON-CENTERED	00210000
00009E	9180 C2FA	002FA		48	TM D04FLAG,\$SUBH INITIAL SUB HEADING PRINTED?	00220000
0000A2	4710 C0BE	000BE		49	BO ESD0010 YES	00230000
0000A6	9680 C2FA	002FA		50	OI D04FLAG,\$SUBH SET FLAG	00240000
0000AA	D283 B710 C336	00710 00336		51	MVC PRTDATA(MSG01L),MSG01 SET MESSAGE	00250000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0000B0	45A0	C2BE	002BE		52	BAL	R10,PRT0000	PRINT MESSAGE 00260000
0000B4	D232	B710	C303	00710	00303	53	MVC	PRTDATA(SUBHEADL),SUBHEAD GP10066 00270000
0000BA	45A0	C2BE	002BE		54	BAL	R10,PRT0000	PRINT MESSAGE 00280000
0000BE	5830	B0F4	000F4		56	ESD0010	L R3,COMMIO	I/O AREA ADDRESS GP10074 00300000
0000C2	D201	C2F8	3004	002F8	00004	57	MVC	SAVEESD,4(R3) SAVE ESD ID OF FIRST ITEM 00310000
0000C8	4850	3006		00006		58	LH	R5,6(,R3) SIZE OF ESD DATA 00320000
0000CC	8850	0004		00004		59	SRL	R5,4 COMPUTE NUMBER OF ESD ENTRIES 00330000
0000D0	4160	3008		00008		60	LA	R6,8(,R3) FIRST ESD ITEM 00340000
					61		ITRACE ID=PROCESD,	+00350000
							RDATA1=R5,	.. NUMBER OF ESD ENTRIES +00360000
							RDATA2=R6	.. FIRST ESD DATA ADDRESS 00370000
0000D4	BE5F	B0E0		000E0		62+	STCM	R5,15,TRDATA1 00460000
0000D8	BE6F	B0E8		000E8		63+	STCM	R6,15,TRDATA2 00610000
0000DC	45E0	B564		00564		64+	BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000
0000E0	D7D9D6C3C5E2C440					65+	DC	CL8'PROCESD' TRACE ID 00670000
					67	*	-----*	00390000
					68	*	LOOP THROUGH ESD ENTRIES; INSERT NEW ONE IN ESDNAME SEQUENCE	* 00400000
					69	*	FOR NON-NULL BLANK NAMES AND BLANK REQUEST, CREATE NAME	* 00410000
					70	*	-----*	00420000
0000E8	4100	0020		00020		71	ESD0040	LA R0,ESDDATAL GP99140 00430000
0000EC	45E0	B684		00684		72	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW ESD DATA 00440000
					73		ITRACE ID=NEWESD,	+00450000
							RDATA1=R1	.. NEW ESD BLOCK'S ADDRESS 00460000
0000F0	BE1F	B0E0		000E0		74+	STCM	R1,15,TRDATA1 00460000
0000F4	45E0	B564		00564		75+	BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000
0000F8	D5C5E6C5E2C44040					76+	DC	CL8'NEWESD' TRACE ID 00670000
000100	9140	B168		00168		77	TM	COMMOPFG,\$OFNOBLK ADJUST BLANKS CSECTS? GP10074 00470000
000104	4780	C134		00134		78	BZ	ESD0041 NO; NO CHANGE GP10074 00480000
000108	9507	6008		00008		79	CLI	ESDTYPE-ESDNAME(R6),X'07' NULL ? GP10074 00490000
00010C	4780	C134		00134		80	BE	ESD0041 YES; NO CHANGE GP10074 00500000
000110	D507	6000	B225	00000	00225	81	CLC	ESDNAME-ESDNAME(L'ESDNAME,R6),COMMBLKS EMPTY? GP10074 00510000
000116	4770	C134		00134		82	BNE	ESD0041 NO; USE AS IS GP10074 00520000
00011A	D207	6000	C448	00000	00448	83	MVC	ESDNAME-ESDNAME(L'ESDNAME,R6),=X'F0202020202020' 00530000
000120	4800	C2F8		002F8		84	LH	R0,SAVEESD CURRENT ESD ID NUMBER GP10074 00540000
000124	4E00	B000		00000		85	CVD	R0,COMMDWRD MAKE PACKED GP10074 00550000
000128	DE07	6000	B004	00000	00004	86	ED	ESDNAME-ESDNAME(L'ESDNAME,R6),COMMDWRD+4 FIX UP GP10074 00560000
00012E	D202	6000	C450	00000	00450	87	MVC	ESDNAME-ESDNAME(3,R6),=C'PC#' GP10074 00570000
000134	4120	B0F8		000F8		88	ESD0041	LA R2,COMMESD ROOT OF ESD CHAIN GP10074 00580000
				00000		89	USING	ESDDATA,R4 DEFINE BASE GP10074 00590000
000138	1842					90	LOOPESD	LR R4,R2 ADVANCE GP10074 00600000
00013A	BF2F	4000		00000		91	ICM	R2,15,ESDNEXT IS THERE ANOTHER ? GP10074 00610000
00013E	4780	C14C		0014C		92	BZ	APPNDESD NO; TACK NEW ONE ON END GP10074 00620000
000142	D507	200E	6000	0000E	00000	93	CLC	ESDNAME-ESDDATA(L'ESDNAME,R2),0(R6) INSERT ? GP10074 00630000
000148	4740	C138		00138		94	BL	LOOPESD NO; TRY NEXT SLOT GP10074 00640000
00014C	5010	4000		00000		95	APPNDESD	ST R1,ESDNEXT-ESDDATA(,R4) FORWARD LINK TO NEW GP10074 00650000
000150	5020	1000		00000		96	ST	R2,ESDNEXT-ESDDATA(,R1) LINK TO LARGER GP10074 00660000
000154	1841					97	LR	R4,R1 SET NEW BLOCK ADDRESS 00670000
000156	D207	4004	C2FB	00004	002FB	98	MVC	ESDEYE,ESD SET EYECATCHER 00680000
00015C	D20F	400E	6000	0000E	00000	99	MVC	ESDNAME(ESDL),0(R6) COPY ESD DATA 00690000
000162	D502	401B	C453	0001B	00453	100	CLC	ESDLLEN,=X'004040' OBJECT DECK LENGTH? GP10074 00700000
000168	4770	C172		00172		101	BNE	*+10 NO GP10074 00710000
00016C	D702	401B	401B	0001B	0001B	102	XC	ESDLLEN,ESDLLEN FIX UP GP10074 00720000
000172	4810	C2F8		002F8		103	LH	R1,SAVEESD CURRENT ESD ID NUMBER 00730000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000176	BE13	400C	0000C		104	STCM	R1,3,ESDID	SET ESD ID 00740000
00017A	4110	1001	00001		105	LA	R1,1(,R1)	ADD 1 TO ESD ID NUMBER 00750000
00017E	4010	C2F8	002F8		106	STH	R1,SAVEESD	SAVE UPDATED ID 00760000
000182	D207	C3C2	400E 003C2	0000E	107	MVC	MSG02SYM,ESDNAME	SET NAME 00770000
000188	D607	C3C2	B225 003C2	00225	108	OC	MSG02SYM,COMMBLKS	FORCE AT LEAST X'40'S 00780000
00018E	4110	C40B	0040B		109	LA	R1,ESDTBLE	FIRST ESD TYPE/DESCRIPTOR 00790000
000192					110	ESD0050 DS	OH	00800000
000192	95FF	1000	00000		111	CLI	O(R1),X'FF'	END OF TABLE? 00810000
000196	4780	C1AC	001AC		112	BE	ESD0060	YES 00820000
00019A	D500	4016	1000 00016	00000	113	CLC	ESDTYPE,0(R1)	DESCRIPTOR FOUND? 00830000
0001A0	4780	C1AC	001AC		114	BE	ESD0060	YES 00840000
0001A4	4110	1005	00005		115	LA	R1,ESDTBLEL(,R1)	NEXT ESD DESCRIPTOR 00850000
0001A8	47F0	C192	00192		116	B	ESD0050	LOOP 00860000
0001AC					117	ESD0060 DS	OH	00870000
0001AC	D203	C3CC	1001 003CC	00001	118	MVC	MSG02TYP,1(R1)	SET ESD TYPE 00880000
0001B2	F363	C3D2	4017 003D2	00017	119	UNPK	MSG02ADR(7),ESDADDR(4)	00890000
0001B8	DC05	C3D2	B185 003D2	00185	120	TR	MSG02ADR,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00900000
0001BE	9240	C3D8	003D8		121	MVI	MSG02ADR+6,C' '	RESTORE BLANK 00910000
0001C2	F321	C3DA	401A 003DA	0001A	122	UNPK	MSG02SEG(3),ESDSEG(2)	UNPACK SEGMENT NUMBER 00920000
0001C8	DC01	C3DA	B185 003DA	00185	123	TR	MSG02SEG,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00930000
0001CE	9240	C3DC	003DC		124	MVI	MSG02SEG+2,C' '	RESTORE BLANK 00940000
0001D2	F363	C3DF	401B 003DF	0001B	125	UNPK	MSG02LEN(7),ESDLEN(4)	UNPACK LENGTH 00950000
0001D8	DC05	C3DF	B185 003DF	00185	126	TR	MSG02LEN,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00960000
0001DE	9240	C3E5	003E5		127	MVI	MSG02LEN+6,C' '	RESTORE BLANK 00970000
0001E2	F342	C3E7	400C 003E7	0000C	128	UNPK	MSG02ESD(5),ESDID(3)	UNPACK ESD ID 00980000
0001E8	DC03	C3E7	B185 003E7	00185	129	TR	MSG02ESD,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00990000
0001EE	9240	C3EB	003EB		130	MVI	MSG02ESD+4,C' '	RESTORE BLANK 01000000
0001F2	D20E	C3ED	B225 003ED	00225	131	MVC	MSG02MSG,COMMBLKS	CLEAR MESSAGE 01010000
0001F8	9500	4016	00016		132	CLI	ESDTYPE,\$ESDSD	EXTERNAL SYMBOL? 01020000
0001FC	4780	C218	00218		133	BE	ESD0070	YES 01030000
000200	9580	4016	00016		134	CLI	ESDTYPE,\$ESDSD+128	NEW EXTERNAL SYMBOL? GP13236 01040000
000204	4780	C218	00218		135	BE	ESD0070	YES GP13236 01050000
000208	9504	4016	00016		136	CLI	ESDTYPE,\$ESDPC	PRIVATE CODE? 01060000
00020C	4780	C218	00218		137	BE	ESD0070	YES GP05095 01070000
000210	9520	4016	00016		138	CLI	ESDTYPE,\$ESDPC1	"FIRST" PRIVATE CODE? GP05095 01080000
000214	4770	C2A8	002A8		139	BNE	ESD0090	NO 01090000
000218					140	ESD0070 DS	OH	01100000
000218	9540	B14C	0014C		141	CLI	COMMCSNM,C' '	CSECT GIVEN? 01110000
00021C	4770	C226	00226		142	BNE	ESD0080	YES 01120000
000220	D207	B14C	400E 0014C	0000E	143	MVC	COMMCSNM,ESDNAME	SET NAME (WILL BE FIRST CSECT) 01130000
000226					144	ESD0080 DS	OH	01140000
000226	D507	400E	B14C 0000E	0014C	145	CLC	ESDNAME,COMMCSNM	CORRECT CSECT FOUND? 01150000
00022C	4770	C2A8	002A8		146	BNE	ESD0090	NO 01160000
					147		ITRACE ID=CSECTFND	01170000
000230	45E0	B564	00564		148+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000234	C3E2C5C3E3C6D5C4				149+	DC	CL8'CSECTFND'	TRACE ID 00670000
00023C	1B11				150	SR	R1,R1	CLEAR REGISTER 01180000
00023E	BF17	4017	00017		151	ICM	R1,7,ESDADDR	CSECT'S ADDRESS 01190000
000242	5010	B11C	0011C		152	ST	R1,COMMCSAD	SET CSECT ADDRESS 01200000
000246	1B22				153	SR	R2,R2	CLEAR REGISTER 01210000
000248	BF27	401B	0001B		154	ICM	R2,7,ESDLEN	CSECT LENGTH 01220000
00024C	5020	B12C	0012C		155	ST	R2,COMMCSLN	SET CSECT LENGTH 01230000
000250	1A12				156	AR	R1,R2	ADDRESS + LENGTH 01240000
000252	0610				157	BCTR	R1,0	MINUS 1 01250000
000254	5010	B124	00124		158	ST	R1,COMMCSA	SAVE ENDING ADDRESS 01260000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
000258	5010	B128	00128		159		ST R1,COMMCSAD	SAVE END BEFORE PADDING GP10071 01270000	
					160		ITRACE ID=CSECTAD,DATA1=COMMCSAD,DATA2=COMMCSA	01280000	
00025C	41E0	B11C	0011C		161+		LA R14,COMMCSAD	DATA ADDRESS 00360000	
000260	D207	B0E0	E000	000E0	00000	162+	MVC TRDATA1,0(R14)	MOVE DATA 00370000	
000266	41E0	B124	00124		163+		LA R14,COMMCSA	DATA ADDRESS 00510000	
00026A	D207	B0E8	E000	000E8	00000	164+	MVC TRDATA2,0(R14)	MOVE DATA 00530000	
000270	45E0	B564	00564		165+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000	
000274	C3E2C5C3E3C1C440				166+		DC CL8'CSECTAD'	TRACE ID 00670000	
00027C	4100	2020	00020		167		LA R0,32(,R2)	PREVENT OC4 IN TEXT PRINTER 01290000	
000280	9108	B168	00168		168		TM COMMOPFG,\$OFZERO	USE ZERO FILL ? GP10066 01300000	
000284	4770	C28C	0028C		169		BNZ **+8	YES; RETAIN 0 FILL GP10066 01310000	
000288	92CC	B161	00161		170		MVI COMMFILL,X'CC'	MAKE DS/ORG AREAS OBVIOUS GP10018 01320000	
00028C	45E0	B684	00684		171		BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW BASE BLOCK 01330000	
000290	5010	B130	00130		172		ST R1,COMMTXT	SAVE TEXT'S STORAGE ADDRESS 01340000	
000294	9200	B161	00161		173		MVI COMMFILL,0	RESTORE NORMAL VALUE GP10018 01350000	
000298	D201	B140	400C	00140	0000C	174	MVC COMMESID,ESDID	SAVE ESD ID OF CSECT 01360000	
00029E	9620	B163	00163		175		OI COMMFLAG,\$CSECT	CSECT HAS BEEN FOUND 01370000	
0002A2	D20E	C3ED	C3FC	003ED	003FC	176	MVC MSG02MSG,MSGMSG	SET MESSAGE 01380000	
0002A8					177	ESD0090	DS OH	01390000	
0002A8	D241	B710	C3BA	00710	003BA	178	MVC PRTDATA(MSG02L),MSG02	SET MESSAGE 01400000	
0002AE	45A0	C2BE	002BE		179		BAL R10,PRT0000	PRINT MESSAGE 01410000	
0002B2	4160	6010	00010		180		LA R6,ESDL(,R6)	NEXT ESD DATA 01420000	
0002B6	4650	C0E8	000E8		181		BCT R5,ESD0040	LOOP 01430000	
0002BA	47F0	C2E0	002E0		182		B EXIT0000	01440000	
0002BE					183	PRT0000	DS OH	01450000	
0002BE	9140	B163	00163		184		TM COMMFLAG,\$ERROR	ERROR MESSAGE? GP99132 01460000	
0002C2	4770	C2DA	002DA		185		BNZ PRT0005	YES; PRINT IT GP99132 01470000	
0002C6	9140	B165	00165		186		TM PRINTFG1,\$PFESD	PRINT CSED DATA ? GP99132 01480000	
0002CA	4770	C2DA	002DA		187		BNZ PRT0005	YES GP99132 01490000	
0002CE	9240	B710	00710		188		MVI PRTDATA,C' '	JUST CLEAR GP99132 01500000	
0002D2	D282	B711	B710	00711	00710	189	MVC PRTDATA+1(L'PRTDATA-1),PRTDATA	PRINT BUFFER GP99132 01510000	
0002D8	07FA				190		BR R10	JUST RETURN GP99132 01520000	
0002DA	45E0	B6EC	006EC		191	PRT0005	BAL R14,PRINTREC	GP99138 01530000	
0002DE	07FA				192		BR R10	EXIT 01540000	
0002E0					193	EXIT0000	DS OH	01550000	
					194		ITRACE ID=EXIT	01560000	
0002E0	45E0	B564	00564		195+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000	
0002E4	C5E7C9E340404040				196+		DC CL8'EXIT'	TRACE ID 00670000	
0002EC	58D0	D004	00004		197		L R13,4(,R13)	RESTORE REGISTER 13 01570000	
0002F0	98EC	D00C	0000C		198		LM R14,R12,12(R13)	RESTORE ALL OTHER REGISTERS 01580000	
0002F4	1BFF				199		SR R15,R15	GIVE GOOD RETURN CODE 01590000	
0002F6	07FE				200		BR R14	RETURN TO CALLER 01600000	
					201	*-----*			* 01610000
					202	*			* 01620000
					203	*			* 01630000
					204	*			* 01640000
					205	*-----*			* 01650000
0002F8	0000				206	SAVEESD	DC H'0'	01660000	
0002FA	00				207	D04FLAG	DC X'00'	01670000	
				00080	208	\$SUBH	EQU X'80'	INITIAL SUB HEADING PRINTED 01680000	
0002FB	C5E2C44040404040				209	ESD	DC CL8'ESD'	01690000	
000303	40404040404040				210	SUBHEAD	DC CL07' '	GP10066 01700000	
00030A	40E2E8D4C2D6D340				211		DC CL08' SYMBOL '	01710000	
000312	404040				212		DC CL03' '	01720000	
000315	E3E8D7C5				213		DC CL04'TYPE'	01730000	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000319	4040			214	DC	CL02' '	01740000
00031B	40C1C4C4D940			215	DC	CL06' ADDR '	01750000
000321	4040			216	DC	CL02' '	01760000
000323	E2C5C7			217	DC	CL03' SEG'	01770000
000326	4040			218	DC	CL02' '	01780000
000328	D3C5D5C7E3C8			219	DC	CL06' LENGTH'	01790000
00032E	4040			220	DC	CL02' '	01800000
000330	C5E2C4C9C440			221	DC	CL06' ESDID'	01810000
		00033		222	SUBHEADL EQU	*-SUBHEAD	01820000
000336	6060606060606060			223	MSG01 DC	55C'-'	GP10066 01830000
00036D	40C5E7E3C5D9D5C1			224	DC	CL23' EXTERNAL SYMBOL TABLE '	01840000
000384	6060606060606060			225	DC	54C'-'	GP10066 01850000
		00084		226	MSG01L EQU	*-MSG01	01860000
0003BA				227	MSG02 DS	OC	01870000
0003BA	4040404040404040			228	DC	CL08' '	01880000
0003C2	4040404040404040			229	MSG02SYM DC	CL08' ' EXTERNAL SYMBOL	01890000
0003CA	4040			230	DC	CL02' '	01900000
0003CC	40404040			231	MSG02TYP DC	CL04' ' SYMBOL TYPE	01910000
0003D0	4040			232	DC	CL02' '	01920000
0003D2	404040404040			233	MSG02ADR DC	CL06' ' ADDRESS	01930000
0003D8	4040			234	DC	CL02' '	01940000
0003DA	4040			235	MSG02SEG DC	CL02' ' SEGMENT NUMBER	01950000
0003DC	404040			236	DC	CL03' '	01960000
0003DF	404040404040			237	MSG02LEN DC	CL06' ' LENGTH	01970000
0003E5	4040			238	DC	CL02' '	01980000
0003E7	40404040			239	MSG02ESD DC	CL04' ' ESD ID	01990000
0003EB	4040			240	DC	CL02' '	02000000
0003ED	4040404040404040			241	MSG02MSG DC	CL15' ' MESSAGE	02010000
		00042		242	MSG02L EQU	*-MSG02	02020000
0003FC	D9C5D8E4C5E2E3C5			243	MSGMSG DC	CL15' REQUESTED CSECT'	02030000
00040B				244	ESDTBLE DS	OC	02040000
00040B	0040E2C440			245	DC	AL1(\$ESDSD),CL4' SD'	02050000
		00005		246	ESDTBLEL EQU	*-ESDTBLE	02060000
000410	8040E2C440			247	DC	AL1(\$ESDSD+128),CL4' SD' FUNNY X390 SD	GP11013 02070000
000415	0240C5D940			248	DC	AL1(\$ESDER),CL4' ER'	02080000
00041A	0340D3D940			249	DC	AL1(\$ESDLR),CL4' LR'	02090000
00041F	0440D7C340			250	DC	AL1(\$ESDPC),CL4' PC'	02100000
000424	2040D7C340			251	DC	AL1(\$ESDPC1),CL4' PC'	GP05095 02110000
000429	0540C3D440			252	DC	AL1(\$ESDCM),CL4' CM'	02120000
00042E	0640D7E240			253	DC	AL1(\$ESDPR),CL4' PS'	02130000
000433	07D5E4D3D3			254	DC	AL1(\$ESDNULL),CL4' NULL'	02140000
000438	0A40E6E740			255	DC	AL1(\$ESDWX),CL4' WX'	02150000
00043D	1440D6E540			256	DC	AL1(\$ESDOV),CL4' OV'	02160000
000442	FFE4D5D2D5			257	DC	X'FF',CL4' UNKN'	02170000
				258	*-----*		02180000
				259	*		02190000
				260	* LITERALS		02200000
				261	*		02210000
				262	*-----*		02220000
000448				263	LTORG		02230000
000448	F020202020202020			264	=X'F020202020202020'		
000450	D7C37B			265	=C'PC#'		
000453	004040			266	=X'004040'		
				267	COPY	DISASMDA	02240000
				268	AIF ('&DAPRT' EQ 'ON').DA010		00010000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				269	PRINT OFF	00020000
				480	PRINT ON	02130000
				481	.DA020 ANOP	02140000
				482	*-----*	02250000
				483	*	* 02260000
				484	*	* 02270000
				485	*	* 02280000
				486	*-----*	* 02290000
				487	DISASM00 DISASMCM TYPE=DSECT	02300000
				488+	PRINT OFF	00280000
				1119+	PRINT ON	06440000
				1120+	*-----*	* 06460000
				1121+	*	* 06470000
				1122+	*	* 06480000
				1123+	*	* 06490000
				1124+	*-----*	* 06500000
				00001	1125+ABEND001 EQU 1	06510000
				00002	1126+ABEND002 EQU 2	06520000
				00003	1127+ABEND003 EQU 3	06530000
				00004	1128+ABEND004 EQU 4	06540000
				00005	1129+ABEND005 EQU 5	06550000
					REQUESTED VIA AN ABEND STATEMENT	
					UNKNOWN RETURN CODE FROM BLDL	
					UNKNOWN RLD ITEM TYPE	
					RLD DATA REMAINING WENT NEGATIVE	
					ATTEMPT TO GEN AN INSTR ON ODD ADDR	
				00000	1132+R0 EQU 0	00070000
				00001	1133+R1 EQU 1	00080000
				00002	1134+R2 EQU 2	00090000
				00003	1135+R3 EQU 3	00100000
				00004	1136+R4 EQU 4	00110000
				00005	1137+R5 EQU 5	00120000
				00006	1138+R6 EQU 6	00130000
				00007	1139+R7 EQU 7	00140000
				00008	1140+R8 EQU 8	00150000
				00009	1141+R9 EQU 9	00160000
				0000A	1142+R10 EQU 10	00170000
				0000B	1143+R11 EQU 11	00180000
				0000C	1144+R12 EQU 12	00190000
				0000D	1145+R13 EQU 13	00200000
				0000E	1146+R14 EQU 14	00210000
				0000F	1147+R15 EQU 15	00220000
000000				1149	END DISASM04	02310000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$CSECT	00001	00000020	00603	00175	
\$ERROR	00001	00000040	00602	00184	
\$ESDCM	00001	00000005	00353	00252	
\$ESDER	00001	00000002	00350	00248	
\$ESDLR	00001	00000003	00351	00249	
\$ESDNULL	00001	00000007	00355	00254	
\$ESDOV	00001	00000014	00357	00256	
\$ESDPC	00001	00000004	00352	00136 00250	
\$ESDPC1	00001	00000020	00358	00138 00251	
\$ESDPR	00001	00000006	00354	00253	
\$ESDSD	00001	00000000	00349	00132 00134 00245 00247	
\$ESDWX	00001	0000000A	00356	00255	
\$OFNOBLK	00001	00000040	00635	00077	
\$OFZERO	00001	00000008	00637	00168	
\$OPMASK	00001	00000001	01114	00770	
\$PFESD	00001	00000040	00617	00042 00186	
\$PFTRC	00001	00000001	00622	00857 00859	
\$PRTprt	00001	000000D7	00981	00967 00988	
\$PRTSUBH	00001	000000E2	00980	00863	
\$SUBH	00001	00000080	00208	00048 00050	
AOP	00004	000000AC	00528	00751	
APPNDESD	00004	0000014C	00095	00092	
APR	00004	000000B8	00530	00970	
APU	00004	000000BC	00531	00991	
BASEDSCT	00001	00000000	00287	00295	
BLKTRT	00001	00000A68	01028	01029 01031 01033 01035 01037 01039 01041 01043 01045 01047 01049 01051 01053	
COMMBLKS	00001	00000225	00646	00081 00108 00131	
COMMCLR	00004	000000F8	00557	00577 00581	
COMMCSAD	00004	0000011C	00567	00152 00161	
COMMSEA	00004	00000124	00569	00158 00163	
COMMCEO	00004	00000128	00570	00159	
COMMCSLN	00004	0000012C	00571	00155	
COMMCSNM	00008	0000014C	00580	00141 00143 00145	
COMMMDWRD	00008	00000000	00495	00085 00086 00882 00883	
COMMESD	00004	000000F8	00558	00088	
COMMESID	00002	00000140	00576	00174	
COMMFILL	00001	00000161	00598	00170 00173 00927	
COMMFLAG	00001	00000163	00600	00175 00184	
COMMHXCH	00016	00000275	00647	00648	
COMMHXTR	00016	00000185	00648	00120 00123 00126 00129 00874 00877 00880 00884	
COMMIO	00004	000000F4	00552	00056	
COMMNPRT	00001	000003C7	00703	00704 00706 00708 00710 00712 00714 00716 00718 00720 00722 00724 00726 00728	
COMMOPFG	00001	00000168	00633	00077 00168	
COMMPPOOL	00001	00000162	00599	00919 00934	
COMMPRT	00001	000002C7	00674	00675 00677 00679 00681 00683 00685 00687 00689 00691 00693 00695 00697	
COMMSUBH	00133	0000016D	00642	00044 00860	
COMMSUBL	00002	00000154	00592	00046 00047 00861 00861 00862	
COMMTXT	00004	00000130	00572	00172	
DATADSCT	00001	00000000	00302	00323	
DISASM00	00001	00000000	00489	00034 00502 00741 00818 00855 00916 00952	
DISASM04	00001	00000000	00026	00027 00033 01149	
DSCTDSCT	00001	00000000	00330	00336	
D04FLAG	00001	000002FA	00207	00048 00050	
ESD	00008	000002FB	00209	00098	
ESDADDR	00003	00000017	00359	00119 00151	

SYMBOL	LEN	VALUE	DEFN	REFERENCES															ASM 0201 00.48 07/11/18									
ESDDATA	00001	00000000	00343	00089	00093	00095	00096	00366																				
ESDDATAL	00001	00000020	00366	00071																								
ESDEYE	00008	00000004	00345	00098																								
ESDID	00002	0000000C	00346	00104	00128	00174																						
ESDL	00001	00000010	00362	00099	00180																							
ESDLEN	00003	0000001B	00361	00100	00102	00102	00125	00154																				
ESDNAME	00008	0000000E	00347	00079	00081	00081	00081	00083	00083	00083	00086	00086	00086	00087	00087	00093	00093	00099										
				00107	00143	00145	00362																					
ESDNEXT	00004	00000000	00344	00091	00095	00096																						
ESDSEG	00001	0000001A	00360	00122																								
ESDTBLE	00001	0000040B	00244	00109	00246																							
ESDTBLEL	00001	00000005	00246	00115																								
ESDTYPE	00001	00000016	00348	00079	00113	00132	00134	00136	00138																			
ESD0010	00004	000000BE	00056	00043	00049																							
ESD0040	00004	000000E8	00071	00181																								
ESD0041	00004	00000134	00088	00078	00080	00082																						
ESD0050	00002	00000192	00110	00116																								
ESD0060	00002	000001AC	00117	00112	00114																							
ESD0070	00002	00000218	00140	00133	00135	00137																						
ESD0080	00002	00000226	00144	00142																								
ESD0090	00002	000002A8	00177	00139	00146																							
EXGETOPC	00006	00000554	00782	00775																								
EXIT0000	00002	000002E0	00193	00182																								
GETMAIN	00004	00000684	00917	00072	00171																							
GETOPEXT	00004	00000546	00778	00771																								
GETOPLN	00001	0000055A	00783	00749																								
GETOPNOT	00004	0000054E	00780	00754	00764	00769	00777																					
GETOPTMK	00004	00000526	00770	00755																								
GETOPWRK	00006	0000055E	00784	00774	00774	00776	00782																					
HEXTRT	00001	00000868	01010	01011	01013	01015	01017	01019																				
INTTRT	00001	00000968	01021	01022	01024	01026																						
LABLDSCCT	00001	00000000	00373	00389																								
LOOPESD	00002	00000138	00090	00094																								
MAINRSV	00004	00000858	01008	00917	00923	00925	00929	00932	00938																			
MODENT	00004	00000064	00031	00027																								
MODHEAD	00023	00000005	00029	00028																								
MODSAVE	00004	0000001C	00030	00035																								
MSGMSG	00015	000003FC	00243	00176																								
MSG01	00001	00000336	00223	00051	00226																							
MSG01L	00001	00000084	00226	00051																								
MSG02	00001	000003BA	00227	00178	00242																							
MSG02ADR	00006	000003D2	00233	00119	00120	00121																						
MSG02ESD	00004	000003E7	00239	00128	00129	00130																						
MSG02L	00001	00000042	00242	00178																								
MSG02LEN	00006	000003DF	00237	00125	00126	00127																						
MSG02MSG	00015	000003ED	00241	00131	00176																							
MSG02SEG	00002	000003DA	00235	00122	00123	00124																						
MSG02SYM	00008	000003C2	00229	00107	00108																							
MSG02TYP	00004	000003CC	00231	00118																								
NBLTRT	00001	00000B68	01055	01056	01058																							
OPDSECT	00001	00000000	01077	00752	01115																							
OPFLAGS	00001	00000007	01106	00770																								
OPFLAG1	00001	00000001	01079	00759																								
OPFLAG2	00001	00000002	01080	00761																								
OPFLAG3	00001	00000003	01081	00763																								

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
OPMASK	00006	00000008	01116	00776															
OPMNEM	00006	00000000	01078	01079	01080	01081													
PRINTDAT	00004	000006F0	00968	00864															
PRINTFG1	00001	00000165	00615	00042	00186	00857	00859												
PRINTMVR	00006	000006E6	00965	00962															
PRINTREC	00004	000006EC	00967	00191	00886	00964													
PRINTREX	00004	000006FE	00972	00956															
PRINTRSV	00004	00000848	01007	00953	00963	00968	00972	00989	00993										
PRTBLOK	00001	0000070E	00977	00969															
PRTCC	00001	0000070F	00984	00973															
PRTCMD	00001	0000070E	00978	00863	00967	00988													
PRTDATA	00132	00000710	00985	00051	00053	00178	00188	00189	00189	00189	00189	00871	00872	00873	00874	00875	00876	00877	00878
				00879	00880	00881	00883	00884	00885	00957	00965	00974	00974						
PRT0000	00002	000002BE	00183	00052	00054	00179													
PRT0005	00004	000002DA	00191	00185	00187														
PUNBLOK	00001	000007B2	00996	00990															
PUNDATA	00080	000007B4	01002	00987															
REFDSC	00001	00000000	00396	00406															
RLDDATA	00001	00000000	00413	00431															
R0	00001	00000000	01132	00071	00084	00085	00167	00742	00748	00748	00749	00772	00820	00839	00856	00895	00919	00924	
				00928	00934	00957	00958	00960	00963										
R1	00001	00000001	01133	00045	00046	00074	00095	00096	00097	00103	00104	00105	00105	00106	00109	00111	00113	00115	
				00115	00118	00150	00150	00151	00152	00156	00157	00158	00159	00172	00744	00758	00778	00780	
				00782	00819	00821	00825	00825	00826	00828	00830	00917	00923	00924	00925	00929	00953	00955	
				00965	00968	00969	00972	00987	00989	00990	00993								
R10	00001	0000000A	01142	00052	00054	00179	00190	00192											
R11	00001	0000000B	01143	00034	00741	00818	00855	00916	00952										
R12	00001	0000000C	01144	00031	00032	00033	00198	00832											
R13	00001	0000000D	01145	00031	00036	00037	00038	00197	00197	00198									
R14	00001	0000000E	01146	00031	00035	00036	00037	00038	00040	00064	00072	00075	00148	00161	00162	00163	00164	00165	
				00171	00191	00195	00198	00200	00745	00746	00747	00749	00756	00756	00758	00760	00762	00763	
				00765	00765	00766	00767	00778	00779	00781	00833	00840	00864	00886	00896	00917	00928	00929	
				00930	00932	00938	00939	00953	00963	00968	00971	00972	00975	00989	00992	00993	00994		
R15	00001	0000000F	01147	00027	00032	00199	00199	00742	00743	00743	00744	00746	00750	00751	00752	00753	00753	00767	
				00768	00768	00780	00820	00839	00856	00895	00926	00926	00927	00932	00938	00954	00954	00955	
				00958	00960	00961	00962	00970	00971	00991	00992								
R2	00001	00000002	01134	00088	00090	00091	00093	00096	00153	00153	00154	00155	00156	00167	00757	00757	00759	00760	
				00761	00762														
R3	00001	00000003	01135	00056	00057	00058	00060												
R4	00001	00000004	01136	00089	00090	00095	00097	00772	00773	00775									
R5	00001	00000005	01137	00058	00059	00062	00181	00865	00868	00888	00888	00889	00891	00893					
R6	00001	00000006	01138	00060	00063	00079	00081	00083	00086	00087	00093	00099	00180	00180					
SAVEESD	00002	000002F8	00206	00057	00084	00103	00106												
SUBHEAD	00007	00000303	00210	00044	00053	00222													
SUBHEADL	00001	00000033	00222	00044	00045	00053													
SYMDATA	00001	00000000	00438	00443															
TPODA1A	00008	00000017	00900	00873	00873	00874	00874	00875	00875										
TPODA1B	00008	00000020	00901	00876	00876	00877	00877	00878	00878										
TPODA2A	00008	0000002A	00902	00879	00879	00880	00880	00881	00881										
TPODA2B	00008	00000033	00903	00883	00883	00884	00884	00885	00885										
TPOMOD	00008	00000003	00898	00871	00871														
TPOTID	00008	0000000D	00899	00872	00872														
TRACEPEN	00004	00000662	00895	00858	00867	00890													
TRACEPIN	00004	00000646	00888	00866	00870														
TRACEPPR	00004	000005E2	00869	00892	00894														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18				
TRACESHD	00027	00000668	00904	00860 00860 00861					
TRACE000	00002	00000564	00817	00040 00064 00075 00148 00165 00195					
TRACE010	00002	00000580	00829	00827					
TRACE020	00002	000005A8	00838	00822					
TRCESAVE	00004	00000808	01006	00742 00778 00780 00820 00839 00856 00895					
TRCURR	00004	000000D4	00543	00821 00830 00865 00889					
TRDATA1	00008	000000E0	00546	00062 00074 00162 00834 00836 00836					
TRDATA2	00008	000000E8	00547	00063 00164 00835 00837 00837					
TREDATA1	00008	00000010	01068	00834 00873 00876					
TREDATA2	00008	00000018	01069	00835 00879 00882					
TREID	00008	00000008	01067	00833 00872					
TREMOD	00008	00000000	01066	00832 00869 00871					
TRENTY	00001	00000000	01065	00819 00868 00887 00887 01070					
TRENTY	00001	00000020	01070	00825 00887 00888					
TRLAST	00004	000000CC	00541	00826 00891					
TR1ST	00004	000000C4	00539	00828 00893					
USNGDSCT	00001	00000000	00450	00464					
VERPSECT	00001	00000000	00471	00477					

SYMBOL

LEN

VALUE

DEFN

REFERENCES

ASM 0201 00.48 07/11/18

=X'F020202020202020'

00008 00000448 00264 00083

=C'PC#' 00003 00000450 00265 00087

=X'004040'

00003 00000453 00266 00100

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 231

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2722

TOTAL RECORDS PUNCHED 23

TOTAL RECORDS PRINTED 542

ASM 0201 00.48 07/11/18

DISASM05 SD 0001 000000 000988

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASM05	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	PROCESS RLD RECORDS. THIS MODULE RUNS AS A SUB-FUNCTION OF	00070000
				8 *	DISASM03. RLD DATA ARE INTERPRETED AND INDIVIDUAL FIELDS ARE	00080000
				9 *	REPRESENTED IN RLDDATA BLOCKS CHAINED FROM FIELD COMMRLD OF	00090000
				10 *	THE COMMON MODULE, DISASM00.	00100000
				11 *		00110000
				12 *	THIS MODULE WAS CHANGED TO PERMIT RLD AND DATA DEFINITIONS TO	00120000
				13 *	OVERLAP. WHEN A CONFLICT IS DETECTED, THE DATA SPECIFICATION IS	00130000
				14 *	SPLIT OR MANGLED TO ELIMINATE THE CONFLICT. GP99137	00140000
				15 *		00150000
				16 *	-----*	00160000
				17	COPY DISASMGB	00170000
				18 *	-----*	00010000
				19 *		00020000
				20 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				21 *		00040000
				22 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				23 *		00060000
				24 *	-----*	00070000
				25	GBLA &TRNBRG,&MAXL,&MINL	00080000
				26	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				27	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				28	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
				29 DISASM05	MODHEAD , ENTRY HOUSEKEEPING 00180000	
000000				30+DISASM05	START 0 00070000	
000000	47F0 F064	00064		31+	B MODENT-DISASM05(,R15) BRANCH AROUND 00100000	
000004	17			32+	DC AL1(L'MODHEAD) 00110000	
000005	C4C9E2C1E2D4F0F5			33+MODHEAD	DC C'DISASM05 07/11/18 00.48' 00120000	
00001C	0000000000000000			34+MODSAVE	DC 18A(0) SAVE AREA 00130000	
000064	90EC D00C	0000C		35+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS 00140000	
000068	18CF			36+	LR R12,R15 MAKE FIRST OR ONLY BASE 00150000	
		00000		37+	USING DISASM05,R12 00330000	
		00000		38+	USING DISASM00,R11 00360000	
00006A	41E0 C01C	0001C		39+	LA R14,MODSAVE GET LOCAL SAVE AREA 00370000	
00006E	50E0 D008	00008		40+	ST R14,8(,R13) CHAIN DOWN 00380000	
000072	50D0 E004	00004		41+	ST R13,4(,R14) CHAIN UP 00390000	
000076	18DE			42+	LR R13,R14 NEW SAVE AREA 00400000	
				43	ITRACE ID=ENTRY 00190000	
000078	45E0 B564	00564		44+	BAL R14,TRACE000 ENTER TRACE ROUTINE 00640000	
00007C	C5D5E3D9E8404040			45+	DC CL8'ENTRY' TRACE ID 00670000	
000084	9120 B165	00165		46	TM PRINTFG1,\$PFRD PRINTING RLD? GP99149 00200000	
000088	4780 C0B2	000B2		47	BZ RLD0010 NO; DON'T NEED SUBHEAD 00210000	
00008C	9180 C658	00658		48	TM LOCFLAG,\$LFSUBHD FLAG ALREADY SET? GP99138 00220000	
000090	4770 C0B2	000B2		49	BNZ RLD0010 YES; DON'T NEED SUBHEAD GP99139 00230000	
000094	D261 B16D C66D	0016D 0066D		50	MVC COMMSUBH(SUBHEADL),SUBHEAD GP99139 00240000	
00009A	4110 0062	00062		51	LA R1,SUBHEADL SUBHEADING LENGTH GP99139 00250000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00009E	4010	B154	00154		52	STH	R1,COMMSUBL	SET LENGTH GP99139 00260000
0000A2	92FF	B154	00154		53	MVI	COMMSUBL,X'FF'	SET NON-CENTERED INDICATOR GP99139 00270000
0000A6	92E2	B70E	0070E		54	MVI	PRTCMD,\$PRTSUBH	SET COMMAND GP99139 00280000
0000AA	45E0	B6F0	006F0		55	BAL	R14,PRINTDAT	PRINT SUBHEADER GP99139 00290000
0000AE	9680	C658	00658		56	OI	LOCFLAG,\$LFSUBHD	SET FLAG GP99138 00300000
0000B2					58	RLD0010	DS OH	00320000
0000B2	4140	B0FC	000FC		59	LA	R4,COMMRLD	FIRST RLD POINTER 00330000
				00000	60	USING	RLDDATA,R5	DEFINE BASE 00340000
0000B6	1854				61	RLD0020	LR R5,R4	SAVE LAST ENTRY GP99141 00350000
0000B8	BF4F	5000	00000		62	ICM	R4,15,RLDNEXT	LAST ENTRY YET? GP99141 00360000
0000BC	4770	C0B6	000B6		63	BNZ	RLD0020	GP99141 00370000
0000C0					64	RLD0030	DS OH	00380000
0000C0	5840	B0F4	000F4		65	L	R4,COMMIO	I/O AREA ADDRESS 00390000
0000C4	4860	4006	00006		66	LH	R6,6(,R4)	SIZE OF RLD DATA 00400000
0000C8	4170	4010	00010		67	LA	R7,16(,R4)	FIRST RLD ITEM 00410000
					68	ITRACE	ID=PROCRLD, RDATA1=R6, RDATA2=R7	+00420000 .. RLD DATA LENGTH +00430000 .. FIRST RLD DATA ADDRESS 00440000
0000CC	BE6F	B0E0	000E0		69+	STCM	R6,15,TRDATA1	00460000
0000D0	BE7F	B0E8	000E8		70+	STCM	R7,15,TRDATA2	00610000
0000D4	45E0	B564	00564		71+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
0000D8	D7D9D6C3D9D3C440				72+	DC	CL8'PROCRLD'	TRACE ID 00670000
0000E0					73	RLD0040	DS OH	00450000
0000E0	D201	C659	7000	00659	74	MVC	SAVEPTR,0(R7)	SAVE RLD POINTER 00460000
0000E6	D201	C65B	7002	0065B	75	MVC	SAVEPP,2(R7)	SAVE POSITION POINTER 00470000
0000EC	4170	7004	00004		76	LA	R7,4(,R7)	SKIP RLD AND POSITION POINTERS 00480000
0000F0	4B60	B158	00158		77	SH	R6,COMMH4	MINUS LENGTH USED 00490000
0000F4	47D0	C59C	0059C		78	BNP	EXIT0000	NO DATA.. EXIT 00500000
0000F8					79	RLD0050	DS OH	00510000
					80	ITRACE	ID=NEWITEM, RDATA1=R7, DATA2=0(R7)	+00520000 +00530000 00540000
0000F8	BE7F	B0E0	000E0		81+	STCM	R7,15,TRDATA1	00460000
0000FC	41E7	0000	00000		82+	LA	R14,0(R7)	DATA ADDRESS 00510000
000100	D207	B0E8	E000	000E8	83+	MVC	TRDATA2,0(R14)	MOVE DATA 00530000
000106	45E0	B564	00564		84+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00010A	D5C5E6C9E3C5D440				85+	DC	CL8'NEWITEM'	TRACE ID 00670000
000112	D502	7001	B11D	00001	86	CLC	1(3,R7),COMMCSAD+1	ADDRESS TOO LOW? 00550000
000118	4740	C538	00538		87	BL	RLD0250	YES.. 00560000
00011C	D502	7001	B125	00001	88	CLC	1(3,R7),COMMSEA+1	ADDRESS TOO HIGH? 00570000
000122	4720	C538	00538		89	BH	RLD0250	YES.. 00580000
000126	4100	001C	0001C		90	LA	R0,RLDDATAL	MAKE EXPANSION SHORTER GP99140 00590000
00012A	45E0	B684	00684		91	BAL	R14,GETMAIN	ACQUIRE STORAGE FOR NEW RLD DATA 00600000
					92	ITRACE	ID=NEWRLD, RDATA1=R1	+00610000 .. NEW RLD BLOCK'S ADDRESS 00620000
00012E	BE1F	B0E0	000E0		93+	STCM	R1,15,TRDATA1	00460000
000132	45E0	B564	00564		94+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000136	D5C5E6D9D3C44040				95+	DC	CL8'NEWRLD'	TRACE ID 00670000
00013E	5010	5000	00000		96	ST	R1,RLDNEXT	CHAIN FORWARD 00630000
000142	1851				97	LR	R5,R1	SET NEW BLOCK ADDRESS 00640000
000144	D207	5004	C65D	00004	98	MVC	RLDEYE,RLD	SET EYECATCHER 00650000
00014A	D201	5014	7000	00014	99	MVC	RLDLEN,0(R7)	SET LENGTH (SORT OF) 00660000
000150	940F	5014	00014		100	NI	RLDLEN,X'0F'	TURN OFF 'TYPE' BITS 00670000
000154	1B11				101	SR	R1,R1	CLEAR REGISTER 00680000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000156	4310	5014	00014		102	IC	R1,RLDLEN	LENGTH, DIRECTION, AND INDICATOR 00690000
00015A	8810	0002	00002		103	SRL	R1,2	SHIFT OUT DIRECTION AND INDICATOR 00700000
00015E	4110	1001	00001		104	LA	R1,1(,R1)	+1 = REAL LENGTH 00710000
000162	4010	5014	00014		105	STH	R1,RLDLEN	SAVE LENGTH 00720000
000166	BF17	7001	00001		106	ICM	R1,7,1(R7)	CONSTANT'S ADDRESS 00730000
00016A	5B10	B11C	0011C		107	S	R1,COMMCSAD	DISPLACEMENT INTO THIS CSECT 00740000
00016E	5010	5010	00010		108	ST	R1,RLDDISP	SAVE DATA DISPLACEMENT GP99141 00750000
000172	D201	5017	C659	00017	00659	MVC	RLDPTR,SAVEPTR	SET RLD POINTER 00760000
000178	D201	5019	C65B	00019	0065B	MVC	RLDPP,SAVEPP	SET POSITION POINTER 00770000
00017E	D300	5016	7000	00016	00000	MVZ	RLDTYPE,0(R7)	COPY RLD TYPE ONLY GP10073 00780000
000184	916F	5016	00016		112	TM	RLDTYPE,X'FF'-X'90'	OTHER THAN UNRESOLVED A/V? GP10073 00790000
000188	4770	C190	00190		113	BNZ	RLD0068	YES; LEAVE IT GP10073 00800000
00018C	947F	5016	00016		114	NI	RLDTYPE,X'7F'	KILL ANY UNRESOLVED BIT GP10073 00810000
000190	924E	501B	0001B		115	RLD0068	MVI RLDDIR,C'+'	SET DIRECTION (PLUS) GP99141 00820000
000194	9102	7000	00000		116	TM	0(R7),X'02'	DIRECTION BACKWARD (-) ? 00830000
000198	4780	C1A0	001A0		117	BZ	RLD0070	GP99141 00840000
00019C	9260	501B	0001B		118	MVI	RLDDIR,C'-'	SET DIRECTION (MINUS) 00850000
0001A0					119	RLD0070	DS OH	00860000
0001A0	F342	C6D8	5017	006D8	00017	120	UNPK MSG02PTR(5),RLDPTR(3)	UNPACK RLD POINTER 00870000
0001A6	DC03	C6D8	B185	006D8	00185	121	TR MSG02PTR,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00880000
0001AC	9240	C6DC	006DC		122	MVI	MSG02PTR+4,C' '	RESTORE BLANK 00890000
0001B0	F342	C6E5	5019	006E5	00019	123	UNPK MSG02PP(5),RLDPP(3)	UNPACK POSITION POINTER 00900000
0001B6	DC03	C6E5	B185	006E5	00185	124	TR MSG02PP,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00910000
0001BC	9240	C6E9	006E9		125	MVI	MSG02PP+4,C' '	RESTORE BLANK 00920000
0001C0	98F1	C63C	0063C		126	LM	R15,R1,RLDBXLE	GET RLD NAME TABLE GP99141 00930000
0001C4	43E0	5016	00016		127	IC	R14,RLDTYPE	LOAD SEARCH ARGUMENT GP99141 00940000
0001C8	BDE1	F000	00000		128	RLD0080	CLM R14,1,0(R15)	MATCH? GP99141 00950000
0001CC	4780	C1D4	001D4		129	BE	RLD0090	YES 00960000
0001D0	87F0	C1C8	001C8		130	BXLE	R15,R0,RLD0080	LOOP GP99141 00970000
0001D4					131	RLD0090	DS OH	00980000
0001D4	D209	C6F1	F001	006F1	00001	132	MVC MSG02TYP,1(R15)	SET RLD TYPE GP99141 00990000
0001DA	D200	C700	5015	00700	00015	133	MVC MSG02LEN,RLDLEN+1	MOVE LENGTH 01000000
0001E0	96F0	C700	00700		134	OI	MSG02LEN,X'F0'	CONVERT TO EBCDIC 01010000
0001E4	D200	C709	501B	00709	0001B	135	MVC MSG02DIR,RLDDIR	COPY DIRECTION 01020000
0001EA	F384	C711	5010	00711	00010	136	UNPK MSG02DSP(9),RLDDISP(5)	01030000
0001F0	DC07	C711	B185	00711	00185	137	TR MSG02DSP,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 01040000
0001F6	9240	C719	00719		138	MVI	MSG02DSP+8,C' '	RESTORE BLANK 01050000
0001FA	D207	C71D	B225	0071D	00225	139	MVC MSG02ENM,COMMBLKS	CLEAR NAME 01060000
000200	1B11				140	SR	R1,R1	CLEAR REGISTER 01070000
000202	BF13	5017	00017		141	ICM	R1,3,RLDPTR	RLD POINTER 01080000
000206	4780	C246	00246		142	BZ	RLD0150	IGNORE IF ZERO 01090000
00020A	BF13	5017	00017		143	ICM	R1,3,RLDPTR	GET RLD'S ESD ID GP10074 01100000
00020E	4130	B0F8	000F8		144	LA	R3,COMMESD	FIRST ESD ENTRY GP99141 01110000
			00000		145	USING	ESDDATA,R3	DEFINE BASE 01120000
000212					146	RLD0100	DS OH	01130000
000212	BF3F	3000	00000		147	ICM	R3,15,ESDNEXT	NEXT ESD ENTRY 01140000
000216	4780	C58E	0058E		148	BZ	ERR0020	IF ZERO.. BAD NEWS 01150000
00021A	BD13	300C	0000C		149	CLM	R1,3,ESDID	MATCHING ESD? GP10074 01160000
00021E	4770	C212	00212		150	BNE	RLD0100	NO; TRY NEXT GP10074 01170000
000222					151	RLD0120	DS OH	01180000
000222	5030	500C	0000C		152	ST	R3,RLDESD	CHAIN RLD TO ESD 01190000
000226	D207	C71D	300E	0071D	0000E	153	MVC MSG02ENM,ESDNAME	COPY NAME 01200000
00022C	98F1	C648	00648		154	LM	R15,R1,ESDBXLE	GET ESD NAME TABLE GP99141 01210000
000230	43E0	3016	00016		155	IC	R14,ESDTYPE	LOAD SEARCH ARGUMENT GP99141 01220000
000234	BDE1	F000	00000		156	RLD0130	CLM R14,1,0(R15)	MATCH? GP99141 01230000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000238	4780	C240	00240		157	BE	RLD0140 YES	01240000
00023C	87F0	C234	00234		158	BXLE	R15,R0,RLD0130 LOOP	GP99141 01250000
000240					159	RLD0140 DS	OH	01260000
000240	D203	C729 F001	00729 00001		160	MVC	MSG02ETY,1(R15) SET ESD TYPE	GP99141 01270000
000246					161	RLD0150 DS	OH	01280000
000246	D25D	B710 C6CF	00710 006CF		162	MVC	PRTDATA(MSG02L),MSG02 SET MESSAGE	01290000
00024C	45A0	C61A	0061A		163	BAL	R10,PRT0000 PRINT RLD MESSAGE	01300000
					164	*-----*		01310000
					165	* FIND OUT IF THE RLD DATA IS WITHIN A DEFINED DATA AREA *		01320000
					166	* CASES: +---RLD---+ *		01330000
					167	* 1) +---DATA---+ LOOP TO NEXT DATA ITEM *		01340000
					168	* 2) +---DATA---+ TRUNC DATA; BUILD RLD *		01350000
					169	* 3) +-DATA--+ OVERLAY DATA BY RLD *		01360000
					170	* 4) +---DATA---+ BUILD RLD; TRUNC. DATA *		01370000
					171	* 5) +---DATA---+ BUILD & LINK RLD *		01380000
					172	* 6) +-----DATA-----+ SPLIT DATA INTO TWO *		01390000
					173	* FIELDS; INSERT RLD *		01400000
					174	* R2 - POINTER TO DATA R8 - DATA R1 - NEW RLD IF REQUIRED *		01410000
					175	*-----*		01420000
000250	5800	5010	00010		176	L	R0,RLDDISP DISPLACEMENT TO RLD DATA GP99141	01430000
000254	4810	5014	00014		177	LH	R1,RLDLEN RLD DATA LENGTH	01440000
000258	1A10				178	AR	R1,R0 PLUS BEGINNING DISPLACEMENT	01450000
00025A	0610				179	BCTR	R1,0 MINUS 1	01460000
00025C	5010	C654	00654		180	ST	R1,TEMPEND ENDING DISPLACEMENT GP99137	01470000
000260	4120	B10C	0010C		181	LA	R2,COMMDATA 'LAST' FORWARD POINTER	01480000
000264	BF8F	B10C	0010C		182	ICM	R8,15,COMMDATA FIRST 'DATA' BLOCK	01490000
			00000		183	USING	DATADSCT,R8 DEFINE BASE	01500000
000268	4780	C36C	0036C		184	BZ	RLDNEW NO DATA BLOCKS GP10060	01510000
00026C	9608	C658	00658		185	OI	LOCFLAG,\$LFDATA INDICATE DATA BLOCKS EXIST GP99138	01520000
000270	D503	5010 8020	00010 00020		186	RLD0160 CLC	RLDDISP,DATAEND OVERLAP? GP10066	01530000
000276	4720	C360	00360		187	BH	RLD0169 NO; TRY ANOTHER CASE 1) GP10066	01540000
00027A	D503	C654 801C	00654 0001C		188	CLC	TEMPEND,DATABEGN IN DATA BLOCK? CASE 5) GP99138	01550000
000280	4740	C36C	0036C		189	BL	RLDNEW NO; ADD THE RLD INFO BEFORE DATA GP10066	01560000
000284	D503	801C 5010	0001C 00010		190	CLC	DATABEGN,RLDDISP OVERLAP ? GP10066	01570000
00028A	4740	C2D8	002D8		191	BL	RLD0162 YES; SOME SORT OF SPLIT GP10066	01580000
00028E	D503	8020 C654	00020 00654		192	CLC	DATAEND,TEMPEND DATA INSIDE RLD ? GP10066	01590000
000294	47D0	C392	00392		193	BNH	RLDREP YES; REPLACE DATA CASE 3) GP10066	01600000
					194	*-----*		01610000
					195	* RLD BEGINS PRIOR TO DATA; BUILD RLD PRIOR, AND CLIP DATA *		01620000
					196	*-----*		01630000
000298	58E0	C654	00654		197	RLDCLIP L	R14,TEMPEND CASE 4) GP10066	01640000
00029C	41E0	E001	00001		198	LA	R14,1(,R14) FIRST BYTE AFTER RLD GP10066	01650000
0002A0	50E0	801C	0001C		199	ST	R14,DATABEGN NEW DATA START GP10066	01660000
0002A4	58F0	8020	00020		200	L	R15,DATAEND CURRENT END GP10066	01670000
0002A8	41F0	F001	00001		201	LA	R15,1(,R15) RELATIVITY GP10066	01680000
0002AC	1BFE				202	SR	R15,R14 NEW LENGTH GP10066	01690000
0002AE	50F0	8024	00024		203	ST	R15,DATALEN COMPLETE CLIPPED DATA AREA GP10066	01700000
0002B2	4100	0030	00030		204	LA	R0,DATAL GET NEW DATA BLOCK GP10066	01710000
0002B6	45E0	B684	00684		205	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW DATA BLOCK	01720000
					206	ITRACE	ID=DATACLIP, TRACE NEW BLOCKS +01730000	
							RDATA1=R1 GP10066	01740000
0002BA	BE1F	B0E0	000E0		207+	STCM	R1,15,TRDATA1	00460000
0002BE	45E0	B564	00564		208+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0002C2	C4C1E3C1C3D3C9D7				209+	DC	CL8'DATACLIP' TRACE ID	00670000
0002CA	5010	2000	00000		210	ST	R1,0(,R2) LINK AHEAD OF DATA GP10066	01750000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002CE	5080	1000	00000		211	ST	R8,0(,R1)	LINK OLD TO NEW GP10066 01760000
0002D2	1881				212	LR	R8,R1	SWAP GP10066 01770000
0002D4	47F0	C398	00398		213	B	RLDFILL	COMPLETE NEW BLOCK GP10066 01780000
					215	*-----*		01800000
					216	* RLD BEGINS AFTER DATA; CLIP DATA AND BUILD RLD		* 01810000
					217	*-----*		01820000
0002D8	D503	8020	C654	00020	00654	218	RLD0162 CLC DATAEND,TEMPEND	DATA LONGER THAN RLD? GP10066 01830000
0002DE	4720	C320		00320		219	BH RLDSPLIT	YES; SPLIT DATA PRIOR TO INSERT GP10066 01840000
0002E2	58E0	5010		00010		220	RLDTRIM L R14,RLDDISP	CASE 2) GP10066 01850000
0002E6	06E0					221	BCTR R14,0	LAST BYTE BEFORE RLD GP10066 01860000
0002E8	50E0	8020		00020		222	ST R14,DATAEND	NEW DATA START GP10066 01870000
0002EC	41E0	E001		00001		223	LA R14,1(,R14)	RELATIVITY GP10066 01880000
0002F0	5BF0	801C		0001C		224	S R15,DATABEGN	NEW LENGTH GP10066 01890000
0002F4	50F0	8024		00024		225	ST R15,DATALEN	COMPLETE CLIPPED DATA AREA GP10066 01900000
0002F8	4100	0030		00030		226	LA R0,DATAL	GET NEW DATA BLOCK GP10066 01910000
0002FC	45E0	B684		00684		227	BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW DATA BLOCK 01920000
					228	ITRACE	ID=DATATRIM, TRACE NEW BLOCKS	+01930000
							RDATA1=R1	GP10066 01940000
000300	BE1F	B0E0		000E0		229+	STCM R1,15,TRDATA1	00460000
000304	45E0	B564		00564		230+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
000308	C4C1E3C1E3D9C9D4					231+	DC CL8'DATATRIM'	TRACE ID 00670000
000310	D203	1000	8000	00000	00000	232	MVC O(4,R1),O(R8)	LINK IN GP10066 01950000
000316	5010	8000		00000		233	ST R1,0(,R8)	LINK AFTER DATA GP10066 01960000
00031A	1881					234	LR R8,R1	SWAP GP10066 01970000
00031C	47F0	C398		00398		235	B RLDFILL	COMPLETE NEW BLOCK GP10066 01980000
					236	*-----*		01990000
					237	* RLD INSIDE DATA; SPLIT DATA AND LINK RLD IN BETWEEN		* 02000000
					238	*-----*		02010000
000320	4100	0030		00030		239	RLDSPLIT LA R0,DATAL	GET NEW DATA BLOCK GP10066 02020000
000324	45E0	B684		00684		240	BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW DATA BLOCK 02030000
					241	ITRACE	ID=DATASPLT, TRACE NEW BLOCKS	+02040000
							RDATA1=R1	GP10066 02050000
000328	BE1F	B0E0		000E0		242+	STCM R1,15,TRDATA1	00460000
00032C	45E0	B564		00564		243+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
000330	C4C1E3C1E2D7D3E3					244+	DC CL8'DATASPLT'	TRACE ID 00670000
000338	D22F	1000	8000	00000	00000	245	MVC O(DATAL,R1),O(R8)	COPY OLD DATA TO NEW GP10066 02060000
00033E	58E0	5010		00010		246	L R14,RLDDISP	CASE 6) LEFT DATA GP10066 02070000
000342	06E0					247	BCTR R14,0	LAST BYTE BEFORE RLD GP10066 02080000
000344	50E0	8020		00020		248	ST R14,DATAEND	NEW DATA START GP10066 02090000
000348	41E0	E001		00001		249	LA R14,1(,R14)	RELATIVITY GP10066 02100000
00034C	5BF0	801C		0001C		250	S R15,DATABEGN	NEW LENGTH GP10066 02110000
000350	50F0	8024		00024		251	ST R15,DATALEN	COMPLETE CLIPPED DATA AREA GP10066 02120000
000354	5010	8000		00000		252	ST R1,0(,R8)	LINK NEW TO OLD GP10066 02130000
000358	1828					253	LR R2,R8	MAKE OLD THE POINTER GP10066 02140000
00035A	1881					254	LR R8,R1	AND NEW THE WORKING ENTRY GP10066 02150000
00035C	47F0	C298		00298		255	B RLDCLIP	REST LIKE CASE 4) GP10066 02160000
000360	4120	8000		00000		256	RLD0169 LA R2,DATANEXT	LAST FORWARD POINTER GP99137 02170000
000364	BF8F	8000		00000		257	ICM R8,15,DATANEXT	NEXT DATA BLOCK'S ADDRESS 02180000
000368	4770	C270		00270		258	BNZ RLD0160	LOOP 02190000
					259	*NEXT*	B RLDNEW	INSERT NEW RLD GP10066 02200000
					261	*-----*		02220000
					262	* BUILD RLD AREA AND LINK PRIOR TO CURRENT DATA		* 02230000
					263	*-----*		02240000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00036C	4100	0030	00030		264	RLDNEW	LA R0,DATAL NEW BLOCK LENGTH	GP10057 02250000
000370	45E0	B684	00684		265		BAL R14,GETMAIN ACQUIRE STORAGE FOR NEW DATA BLOCK	02260000
					266		ITRACE ID=NEWDATA, TRACE NEW BLOCKS	+02270000
							RDATA1=R1	GP10066 02280000
000374	BE1F	B0E0	000E0		267+	STCM	R1,15,TRDATA1	00460000
000378	45E0	B564	00564		268+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00037C	D5C5E6C4C1E3C140				269+	DC	CL8'NEWDATA' TRACE ID	00670000
000384	5010	2000	00000		270	ST	R1,0(,R2) CHAIN TO PREVIOUS BLOCK	GP10066 02290000
000388	5080	1000	00000		271	ST	R8,DATANEXT-DATADSCT(,R1)	GP10066 02300000
00038C	1881				272	LR	R8,R1 NEW BLOCK TO FILL	GP10066 02310000
00038E	47F0	C398	00398		273	B	RLDFILL COMPLETE NEW DATA BLOCK	GP10057 02320000
					275	*-----*		02340000
					276	* EMPTY AND REUSE DATA AREA FOR RLD INFO		* 02350000
					277	*-----*		02360000
000392	D72B	8004	8004	00004	00004	278	RLDREP XC DATANEXT+4-DATADSCT(DATAL-4,R8),DATANEXT+4-DATADSCT(R8)	02370000
					280	*-----*		02390000
					281	* RLD AREA HAS BEEN LINKED; COMPLETE THE DATA PORTION		* 02400000
					282	*-----*		02410000
000398	D207	8004	C665	00004	00665	283	RLDFILL MVC DATAEYE,DATA SET EYECATCHER	02420000
00039E	9604	C658		00658		284	OI LOCFLAG,\$LFDMOD INDICATE DATA BLOCKS MESSED UP	GP10057 02430000
0003A2	D203	801C	5010	0001C	00010	285	MVC DATABEGN,RLDDISP DATA BEGINNING DISPLACEMENT	02440000
0003A8	D203	8020	C654	00020	00654	286	MVC DATAEND,TEMPEND DATA ENDING DISPLACEMENT	02450000
0003AE	D201	8026	5014	00026	00014	287	MVC DATALEN+2(2),RLDLEN SET RLD DATA LENGTH	02460000
0003B4	D207	800C	B225	0000C	00225	288	MVC DATANAME,COMMBLKS INITIALIZE NAME	02470000
0003BA	9500	5016		00016		289	CLI RLDTYPE,\$RLDAACN ADCON?	02480000
0003BE	4780	C414		00414		290	BE RLD0180 YES	02490000
0003C2	9510	5016		00016		291	CLI RLDTYPE,\$RLDVCON VCON?	02500000
0003C6	4780	C458		00458		292	BE RLD0200 YES	02510000
0003CA	9580	5016		00016		293	CLI RLDTYPE,\$RLDER1 UNRESOLVED EXTERNAL REFERENCE?	02520000
0003CE	4780	C458		00458		294	BE RLD0200 YES	02530000
0003D2	9590	5016		00016		295	CLI RLDTYPE,\$RLDER2 UNRESOLVED EXTERNAL REFERENCE?	02540000
0003D6	4780	C458		00458		296	BE RLD0200 YES	02550000
0003DA	9530	5016		00016		297	CLI RLDTYPE,\$RLDPSSZ PSEUDO AREA SIZE?	02560000
0003DE	4780	C466		00466		298	BE RLD0210 YES	02570000
0003E2	9520	5016		00016		299	CLI RLDTYPE,\$RLDPSDP PSEUDO AREA DISPLACEMENT?	02580000
0003E6	4780	C46E		0046E		300	BE RLD0220 YES	02590000
0003EA	D220	B710	C72D	00710	0072D	301	MVC PRTDATA(EMSG01L),EMSG01	02600000
0003F0	96C0	B163		00163		302	OI COMMFLAG,\$ERROR+\$ABORT	02610000
0003F4	45A0	C61A		0061A		303	BAL R10,PRT0000 PRINT THE MESSAGE	02620000
0003F8	45E0	B5B0		005B0		304	BAL R14,TRACEPRT PRINT TRACE	GP99146 02630000
0003FC	4110	0003		00003		305	LA R1,ABEND003 SET ABEND CODE (NOT ADDRESS)	GP99146 02640000
					306		ABEND (1),DUMP,,USER	GP99146 02650000
000400					307+	DS	OH	00400002
000400	8910	0014		00014		308+	SLL 1,20(0) SHIFT OFF > 12 BITS	01200002
000404	8810	0014		00014		309+	SRL 1,20(0) SHIFT TO USER POSITION	01360002
000408	4100	0080		00080		310+	LA 0,128(0,0) PICK UP DUMP/STEP/DUMPOPTS	YM1995 01800002
00040C	8900	0018		00018		311+	SLL 0,24(0) SHIFT TO HIGH ORDER	01850002
000410	1610					312+	OR 1,0 OR IN WITH COMPCODE	01900002
000412	0A0D					313+	SVC 13 LINK TO ABEND ROUTINE	02050002
000414	D507	300E	B14C	0000E	0014C	315	RLD0180 CLC ESDNAME,COMMCSNM SAME AS REQUESTED CSECT NAME?	02670000
00041A	4770	C426		00426		316	BNE RLD0190 NO	02680000
00041E	9214	802B		0002B		317	MVI DATATYPE,\$DATAACN ADCON	02690000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000422	47F0	C538		00538	318		B RLD0250 AND EXIT	02700000
000426	9215	802B		0002B	319	RLD0190	MVI DATATYPE,\$DATAARL ADCON W/CSECT RELOCATION	GP05212 02710000
00042A	D202	802D	3017	0002D	00017	320	MVC DATABASE+1(3),ESDADDR SAVE RELOCATION VALUE	GP10069 02720000
000430	D207	800C	300E	0000C	0000E	321	MVC DATANAME,ESDNAME COPY NAME FOR ACON	GP10069 02730000
000436	9680	301E		0001E	322		OI ESDFLAG,\$ESFXTRN A() NEEDS EXTRN	GP10071 02740000
00043A	F384	C874	5010	00874	00010	323	UNPK MSG03DSP(9),RLDDISP(5)	02750000
000440	DC07	C874	B185	00874	00185	324	TR MSG03DSP,COMMHXTR TRANSLATE TO PRINTABLE	GP99132 02760000
000446	9240	C87C		0087C	325		MVI MSG03DSP+8,C' ' RESTORE BLANK	02770000
00044A	D24A	B710	C85C	00710	0085C	326	MVC PRTDATA(MSG03L),MSG03 COPY MESSAGE	02780000
000450	45A0	C61A		0061A	327		BAL R10,PRT0000 PRINT MESSAGE	02790000
000454	47F0	C538		00538	328		B RLD0250 AND EXIT	02800000
000458	9216	802B		0002B	330	RLD0200	MVI DATATYPE,\$DATAVCN VCON	02820000
00045C	D207	800C	300E	0000C	0000E	331	MVC DATANAME,ESDNAME COPY NAME FOR VCON	02830000
					332	* N.B.: IEBGEN03 HAS A(),V(),AND EXTRN IN ONE CSECT. SO LEAVE GP10073 02840000		
					333	* THE EXTRN GENERATION FLAG ALONE GP10073 02850000		
					334	*NO* NI ESDFLAG,255-\$ESFXTRN V() DOESN'T NEED EXTRN GP10071 02860000		
000462	47F0	C538		00538	335		B RLD0250 AND EXIT	02870000
000466					336	RLD0210	DS OH	02880000
000466	9237	802B		0002B	337		MVI DATATYPE,\$DATAACXD PSEUDO AREA SIZE	02890000
00046A	47F0	C538		00538	338		B RLD0250 AND EXIT	02900000
00046E					339	RLD0220	DS OH	02910000
00046E	9238	802B		0002B	340		MVI DATATYPE,\$DATAQ PSEUDO AREA DISPLACEMENT	02920000
000472	D207	800C	300E	0000C	0000E	341	MVC DATANAME,ESDNAME COPY NAME FOR Q AREA	02930000
000478	47F0	C538		00538	342		B RLD0250	02940000
00047C					343	RLD0230	DS OH	02950000
00047C	D501	5014	8026	00014	00026	344	CLC RLDLEN,DATALEN+2 SAME LENGTH?	02960000
000482	4770	C4CE		004CE	345		BNE RLD0240 NO	02970000
000486	9514	802B		0002B	346		CLI DATATYPE,\$DATAACN IS DATA AN ADCON?	02980000
00048A	4780	C496		00496	347		BE RLD0233 YES	GP05212 02990000
00048E	9515	802B		0002B	348		CLI DATATYPE,\$DATAARL IS DATA A RELATIVE ADCON	GP05212 03000000
000492	4770	C4CE		004CE	349		BNE RLD0240 NO	03010000
000496	9500	5016		00016	350	RLD0233	CLI RLDTYPE,\$RLDACON IS RLD ITEM AN ADCON?	GP05212 03020000
00049A	4780	C4A6		004A6	351		BE RLD0236 NO	GP05212 03030000
00049E	9501	5016		00016	352		CLI RLDTYPE,\$RLDACRL IS RLD ITEM AN ADCON?	GP05212 03040000
0004A2	4770	C4CE		004CE	353		BNE RLD0240 NO	03050000
					354	RLD0236	ITRACE ID=DUPADCON,	+03060000
							RDATA1=R7,	+03070000
							DATA2=0(R7)	03080000
0004A6	BE7F	B0E0		000E0	355+	RLD0236	STCM R7,15,TRDATA1	00460000
0004AA	41E7	0000		00000	356+		LA R14,0(R7) DATA ADDRESS	00510000
0004AE	D207	B0E8	E000	000E8	00000	357+	MVC TRDATA2,0(R14) MOVE DATA	00530000
0004B4	45E0	B564		00564	358+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0004B8	C4E4D7C1C4C3D6D5				359+		DC CL8'DUPADCON' TRACE ID	00670000
0004C0	D243	B710	C818	00710	00818	360	MVC PRTDATA(MSG04L),MSG04	03090000
0004C6	45A0	C61A		0061A	361		BAL R10,PRT0000 PRINT MESSAGE	03100000
0004CA	47F0	C538		00538	362		B RLD0250	03110000
0004CE					363	RLD0240	DS OH	03120000
					364		ITRACE ID=OVERLAP,	+03130000
							RDATA1=R7,	+03140000
							DATA2=0(R7)	03150000
0004CE	BE7F	B0E0		000E0	365+		STCM R7,15,TRDATA1	00460000
0004D2	41E7	0000		00000	366+		LA R14,0(R7) DATA ADDRESS	00510000
0004D6	D207	B0E8	E000	000E8	00000	367+	MVC TRDATA2,0(R14) MOVE DATA	00530000
0004DC	45E0	B564		00564	368+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
0004E0	D6E5C5D9D3C1D740				369+	DC	CL8'OVERLAP'	TRACE ID	00670000
0004E8	0700				370	NOPR	0		03160000
0004EA	F384	C7C9	5010	007C9	00010	371	UNPK	EMSG04RB(9),RLDDISP(5)	03170000
0004F0	DC07	C7C9	B185	007C9	00185	372	TR	EMSG04RB,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 03180000
0004F6	9240	C7D1		007D1		373	MVI	EMSG04RB+8,C' '	RESTORE BLANK 03190000
0004FA	F384	C7D5	C654	007D5	00654	374	UNPK	EMSG04RE(9),TEMPEND(5)	03200000
000500	DC07	C7D5	B185	007D5	00185	375	TR	EMSG04RE,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 03210000
000506	9240	C7DD		007DD		376	MVI	EMSG04RE+8,C' '	RESTORE BLANK 03220000
00050A	F384	C803	801C	00803	0001C	377	UNPK	EMSG04DB(9),DATABEGN(5)	03230000
000510	DC07	C803	B185	00803	00185	378	TR	EMSG04DB,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 03240000
000516	9240	C80B		0080B		379	MVI	EMSG04DB+8,C' '	RESTORE BLANK 03250000
00051A	F384	C80F	8020	0080F	00020	380	UNPK	EMSG04DE(9),DATAEND(5)	03260000
000520	DC07	C80F	B185	0080F	00185	381	TR	EMSG04DE,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 03270000
000526	9240	C817		00817		382	MVI	EMSG04DE+8,C' '	RESTORE BLANK 03280000
00052A	D266	B710	C7B1	00710	007B1	383	MVC	PRTDATA(EMSG04L),EMSG04	03290000
000530	96C0	B163		00163		384	OI	COMMFLAG,\$ERROR+\$ABORT	03300000
000534	45A0	C61A		0061A		385	BAL	R10,PRT0000	PRINT MESSAGE 03310000
000538						386	RLD0250 DS	OH	03320000
000538	9101	7000		00000		387	TM	O(R7),X'01'	RLD/POS PTRS VALID FOR NEXT ITEM? 03330000
00053C	4710	C558		00558		388	BO	RLD0260	YES 03340000
000540	D201	C659	7004	00659	00004	389	MVC	SAVEPTR,4(R7)	SAVE NEW RLD POINTER 03350000
000546	D201	C65B	7006	0065B	00006	390	MVC	SAVEPP,6(R7)	SAVE NEW POSITION POINTER 03360000
00054C	4170	7004		00004		391	LA	R7,4(,R7)	UPDATE DATA ADDRESS 03370000
000550	4B60	B158		00158		392	SH	R6,COMM4	MINUS LENGTH USED 03380000
000554	47D0	C59C		0059C		393	BNP	EXIT0000	ALL DONE 03390000
000558						394	RLD0260 DS	OH	03400000
000558	4170	7004		00004		395	LA	R7,4(,R7)	NEXT RLD ITEM 03410000
00055C	4B60	B158		00158		396	SH	R6,COMM4	MINUS LENGTH USED 03420000
000560	4720	C0F8		000F8		397	BP	RLD0050	PROCESS NEXT RLD ITEM 03430000
000564						398	ERR0010 DS	OH	03440000
000564	D22B	B710	C74E	00710	0074E	399	MVC	PRTDATA(EMSG02L),EMSG02	03450000
00056A	96C0	B163		00163		400	OI	COMMFLAG,\$ERROR+\$ABORT	03460000
00056E	45A0	C61A		0061A		401	BAL	R10,PRT0000	PRINT ERROR MESSAGE 03470000
000572	45E0	B5B0		005B0		402	BAL	R14,TRACEPRT	PRINT TRACE GP99146 03480000
000576	4110	0004		00004		403	LA	R1,ABEND004	SET ABEND CODE (NOT ADDRESS) GP99146 03490000
						404	ABEND	(1),DUMP,,USER	GP99146 03500000
00057A						405+	DS	OH	00400002
00057A	8910	0014		00014		406+	SLL	1,20(0)	SHIFT OFF > 12 BITS 01200002
00057E	8810	0014		00014		407+	SRL	1,20(0)	SHIFT TO USER POSITION 01360002
000582	4100	0080		00080		408+	LA	0,128(0,0)	PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
000586	8900	0018		00018		409+	SLL	0,24(0)	SHIFT TO HIGH ORDER 01850002
00058A	1610					410+	OR	1,0	OR IN WITH COMPCODE 01900002
00058C	0A0D					411+	SVC	13	LINK TO ABEND ROUTINE 02050002
00058E						413	ERR0020 DS	OH	03520000
00058E	D236	B710	C77A	00710	0077A	414	MVC	PRTDATA(EMSG03L),EMSG03	03530000
000594	96C0	B163		00163		415	OI	COMMFLAG,\$ERROR+\$ABORT	03540000
000598	45A0	C61A		0061A		416	BAL	R10,PRT0000	PRINT ERROR MESSAGE 03550000
						417	*NEXT* B	EXIT0000	AND EXIT GP99141 03560000
00059C	910C	C658		00658		419	EXIT0000 TM	LOCFLAG,\$LFDATA+\$LFDMOD	USER'S DATA REDEFINED? GP99138 03580000
0005A0	47E0	C5BC		005BC		420	BNO	EXIT0010	GP99138 03590000
0005A4	9101	B167		00167		421	TM	PRINTFG3,\$MG0504	MESSAGE ISSUED BEFORE ? GP04234 03600000
0005A8	4770	C5BC		005BC		422	BNZ	EXIT0010	YES; ONCE IS ENOUGH GP04234 03610000
0005AC	9601	B167		00167		423	OI	PRINTFG3,\$MG0504	SET FLAG GP04234 03620000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0005B0	92F0	B70F	0070F		424	MVI	PRTCC,C'0' DOUBLE-SPACE THIS	GP99138 03630000
0005B4	4110	C8A7	008A7		425	LA	R1,MSGMUNGE	GP99138 03640000
0005B8	45E0	B6BE	006BE		426	BAL	R14,PRINTMSG PRINT WARNING MESSAGE	GP99138 03650000
					427	*-----*		03660000
					428	* TO KEEP DISASM08/09 FROM BOMBING, SORT THE DATA CHAIN AFTER MODS *		03670000
					429	*-----*		03680000
0005BC	910C	C658	00658		430	EXIT0010	TM LOCFLAG,\$LFDATA+\$LFDMOD DATA CHANGED ?	GP10057 03690000
0005C0	47E0	C602	00602		431	BNO	EXIT0020	GP10057 03700000
0005C4	94FB	C658	00658		432	NI	LOCFLAG,255-\$LFDMOD RESET FLAG	GP10057 03710000
0005C8	4110	B10C	0010C		433	EXIT0012	LA R1,COMMDATA POINT TO FIRST ELEMENT	GP10057 03720000
0005CC	BF2F	1000	00000		434	ICM	R2,15,DATANEXT-DATADSCT(R1) HAVE ANOTHER ?	GP10057 03730000
0005D0	4780	C5BC	005BC		435	BZ	EXIT0010 NO	GP10057 03740000
0005D4	1812				436	EXIT0014	LR R1,R2 SAVE PRIOR	GP10057 03750000
0005D6	BF2F	1000	00000		437	ICM	R2,15,DATANEXT-DATADSCT(R1) HAVE ANOTHER ?	GP10057 03760000
0005DA	4780	C5BC	005BC		438	BZ	EXIT0010 NO	GP10057 03770000
0005DE	D507	101C	201C	0001C	439	CLC	DATABEGN-DATADSCT(8,R1),DATABEGN-DATADSCT(R2)	GP10057 03780000
0005E4	47D0	C5D4	005D4		440	BNH	EXIT0014 IN SEQUENCE	GP10057 03790000
0005E8	D72B	1004	2004	00004	441	XC	DATANEXT+4-DATADSCT(DATAL-4,R1),DATANEXT+4-DATADSCT(R2)	03800000
0005EE	D72B	2004	1004	00004	442	XC	DATANEXT+4-DATADSCT(DATAL-4,R2),DATANEXT+4-DATADSCT(R1)	03810000
0005F4	D72B	1004	2004	00004	443	XC	DATANEXT+4-DATADSCT(DATAL-4,R1),DATANEXT+4-DATADSCT(R2)	03820000
0005FA	9604	C658	00658		444	OI	LOCFLAG,\$LFDMOD SHOW ENTRY SWAPPED	GP10057 03830000
0005FE	47F0	C5C8	005C8		445	B	EXIT0012 TRY NEXT ONE	GP10057 03840000
000602					446	EXIT0020	DS OH	GP10057 03850000
					447	ITRACE ID=EXIT		03860000
000602	45E0	B564	00564		448+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000606	C5E7C9E340404040				449+	DC	CL8'EXIT' TRACE ID	00670000
00060E	58D0	D004	00004		450	L	R13,4(,R13) RESTORE REGISTER 13	03870000
000612	98EC	D00C	0000C		451	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	03880000
000616	1BFF				452	SR	R15,R15 GIVE GOOD RETURN CODE	03890000
000618	07FE				453	BR	R14 RETURN TO CALLER	03900000
00061A					455	PRT0000	DS OH	GP99141 03920000
00061A	9140	B163	00163		456	TM	COMMFLAG,\$ERROR ERROR MESSAGE?	GP99132 03930000
00061E	4770	C636	00636		457	BNZ	PRT0005 YES; PRINT IT	GP99132 03940000
000622	9120	B165	00165		458	TM	PRINTFG1,\$PFRLD PRINT RELOCATION DATA ?	GP99132 03950000
000626	4770	C636	00636		459	BNZ	PRT0005 YES	GP99132 03960000
00062A	9240	B710	00710		460	MVI	PRTDATA,C' ' JUST CLEAR	GP99132 03970000
00062E	D282	B711	B710	00711	461	MVC	PRTDATA+1(L'PRTDATA-1),PRTDATA PRINT BUFFER	GP99132 03980000
000634	07FA				462	BR	R10 JUST RETURN	GP99132 03990000
000636	45E0	B6EC	006EC		463	PRT0005	BAL R14,PRINTREC	GP99138 04000000
00063A	07FA				464	BR	R10 EXIT	GP99141 04010000
					465	*-----*		04020000
					466	*		04030000
					467	*		04040000
					468	*		04050000
					469	*-----*		04060000
00063C	000008F800000000B				470	RLDBXLE	DC A(RLDTBLE,RLDTBLEL,RLDTBLND)	GP99141 04070000
000648	00000945000000005				471	ESDBXLE	DC A(ESDTBLE,ESDTBLEL,ESDTBLND)	GP99141 04080000
000654	00000000				472	TEMPEND	DC A(0)	GP99137 04090000
000658	00				473	LOCFLAG	DC X'00'	GP99138 04100000
			00080		474	\$LFSUBHD	EQU X'80' SUBHEADING PRINTED	GP99138 04110000
			00008		475	\$LFDATA	EQU X'08' USER SPECIFIED DATA BLOCKS EXIST	GP99138 04120000
			00004		476	\$LFDMOD	EQU X'04' USER SPECIFIED DATA MUNGED	GP99138 04130000
000659	0000				477	SAVEPTR	DC XL2'0000'	04140000
00065B	0000				478	SAVEPP	DC XL2'0000'	04150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00065D	D9D3C44040404040			479	RLD	DC CL8'RLD'	04160000
000665	C4C1E3C140404040			480	DATA	DC CL8'DATA'	04170000
00066D				481	SUBHEAD	DS OC	04180000
00066D	D9D3C4407A404040			482		DC CL08'RLD : '	GP99139 04190000
000675	D9C5D3D7E3D9			483		DC CL06'RELPTR'	04200000
00067B	4040			484		DC CL02' '	04210000
00067D	D7D6E2C9E3C9D6D5			485		DC CL16'POSITION POINTER'	04220000
00068D	4040			486		DC CL02' '	04230000
00068F	E3E8D7C540404040			487		DC CL08'TYPE '	GP10058 04240000
000697	4040			488		DC CL02' '	04250000
000699	D3C5D5C7E3C84040			489		DC CL08'LENGTH'	GP10058 04260000
0006A1	4040			490		DC CL02' '	04270000
0006A3	C4C9D9C5C3E3C9D6			491		DC CL09'DIRECTION'	04280000
0006AC	404040			492		DC CL03' '	04290000
0006AF	C4C9E2D740404040			493		DC CL08'DISP '	GP10058 04300000
0006B7	404040			494		DC CL03' '	GP10058 04310000
0006BA	C5E2C440E2E8D4C2			495		DC CL10'ESD SYMBOL'	04320000
0006C4	404040			496		DC CL03' '	GP10058 04330000
0006C7	E3E8D7C540404040			497		DC CL08'TYPE'	GP10058 04340000
		00062		498	SUBHEADL	EQU *-SUBHEAD	04350000
0006CF				499	MSG02	DS OC	04360000
0006CF	4040404040404040			500		DC CL09' '	04370000
0006D8	40404040			501	MSG02PTR	DC CL04' ' RLD POINTER	04380000
0006DC	4040404040404040			502		DC CL09' '	04390000
0006E5	40404040			503	MSG02PP	DC CL04' ' POSITION POINTER	04400000
0006E9	4040404040404040			504		DC CL08' '	04410000
0006F1	4040404040404040			505	MSG02TYP	DC CL10' ' RLD TYPE	04420000
0006FB	4040404040			506		DC CL05' '	04430000
000700	40			507	MSG02LEN	DC CL01' ' LENGTH	04440000
000701	4040404040404040			508		DC CL08' '	04450000
000709	40			509	MSG02DIR	DC CL01' ' DIRECTION (+ OR -)	04460000
00070A	4040404040404040			510		DC CL07' '	04470000
000711	4040404040404040			511	MSG02DSP	DC CL08' ' DISPLACEMENT	04480000
000719	40404040			512		DC CL04' '	04490000
00071D	4040404040404040			513	MSG02ENM	DC CL08' ' CORRESPONDING ESD ENTRY NAME	04500000
000725	40404040			514		DC CL04' '	04510000
000729	40404040			515	MSG02ETY	DC CL04' ' CORRESPONDING ESD ENTRY TYPE	04520000
		0005E		516	MSG02L	EQU *-MSG02	04530000
00072D	C4C9E2C1E2D4F0F5			518	EMSG01	DC C'DISASM0501E UNKNOWN RLD DATA TYPE'	04550000
		00021		519	EMSG01L	EQU *-EMSG01	04560000
00074E	C4C9E2C1E2D4F0F5			521	EMSG02	DC C'DISASM0502E RLD DATA REMAINING WENT NEGATIVE'	04580000
		0002C		522	EMSG02L	EQU *-EMSG02	04590000
00077A	C4C9E2C1E2D4F0F5			524	EMSG03	DC C'DISASM0503E RLD POINTER LARGER THAN NUMBER OF ESD ITEM+	04610000
000782	F0F3C540D9D3C440					S'	04620000
		00037		525	EMSG03L	EQU *-EMSG03	04630000
0007B1	C4C9E2C1E2D4F0F5			527	EMSG04	DC C'DISASM0504E RLD DATA AT '	04650000
0007C9	4040404040404040			528	EMSG04RB	DC CL08' '	04660000
0007D1	40E3D640			529		DC C' TO '	04670000
0007D5	4040404040404040			530	EMSG04RE	DC CL08' '	04680000
0007DD	40D6E5C5D9D3C1D7			531		DC C' OVERLAPS A USER DEFINED DATA AREA AT '	04690000
000803	4040404040404040			532	EMSG04DB	DC CL08' '	04700000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00080B	40E3D640			533	DC	C' TO '	04710000
00080F	4040404040404040			534	MSG04DE	DC CL08' '	04720000
000817	40			535	DC	C' '	04730000
		00067		536	MSG04L	EQU *-MSG04	04740000
000818	C4C9E2C1E2D4F0F5			538	MSG04	DC C'DISASM0505W THIS RLD ITEM REFERENCES AN ADCON PREVIOUS+	04760000
000820	F0F5E640E3C8C9E2					LY ENCOUNTERED'	04770000
		00044		539	MSG04L	EQU *-MSG04	04780000
00085C	C4C9E2C1E2D4F0F5			541	MSG03	DC C'DISASM0506I RLD ITEM AT '	04800000
000874	4040404040404040			542	MSG03DSP	DC CL8' '	04810000
00087C	40C9E240C1D540C1			543	DC	C' IS AN ADCON RESOLVING TO A DIFFERENT CSECT' GP10071	04820000
		0004B		544	MSG03L	EQU *-MSG03	04830000
0008A7	50			546	MSGMUNGE	DC AL1(L'MSGMUNGT)	GP99138 04850000
0008A8	C4C9E2C1E2D4F0F5			547	MSGMUNGT	DC C'DISASM0507W AT LEAST ONE DATA DEFINITION WAS MODIFIED *	04860000
0008B0	F0F7E640C1E340D3					TO RESOLVE AN RLD CONFLICT' GP10074	04870000
0008F8				549	RLDTBLE	DS OC	04890000
0008F8	00C1C4C3D6D54040			550	DC	AL1(\$RLDACON),CL10'ADCON'	04900000
		0000B		551	RLDTBLEL	EQU *-RLDTBLE	04910000
000903	10E5C3D6D5404040			552	DC	AL1(\$RLDVCON),CL10'VCON'	04920000
00090E	30C3E7C440404040			553	DC	AL1(\$RLDPSSZ),CL10'CXD'	04930000
000919	20D8404040404040			554	DC	AL1(\$RLDPSPD),CL10'Q'	04940000
000924	80E4D5D9C5E2D6D3			555	DC	AL1(\$RLDER1),CL10'UNRESOLVED'	04950000
00092F	90E4D5D9C5E2D6D3			556	RLDTBLND	DC AL1(\$RLDER2),CL10'UNRESOLVED' GP99141	04960000
00093A	FFE4D5D2D5D6E6D5			557	DC	X'FF',CL10'UNKNOWN'	04970000
000945				558	ESDTBLE	DS OC	04980000
000945	0040E2C440			559	DC	AL1(\$ESDSD),CL4' SD' 00	04990000
		00005		560	ESDTBLEL	EQU *-ESDTBLE	05000000
00094A	8040E2C440			561	DC	AL1(\$ESDSD+128),CL4' SD' 80 X390 FUNNY ? GP11013	05010000
00094F	0240C5D940			562	DC	AL1(\$ESDER),CL4' ER' 01	05020000
000954	0340D3D940			563	DC	AL1(\$ESDLR),CL4' LR' 02	05030000
000959	0440D7C340			564	DC	AL1(\$ESDPC),CL4' PC' 03	05040000
00095E	2040D7C340			565	DC	AL1(\$ESDPC1),CL4' PC' 04 GP05095	05050000
000963	0540C3D440			566	DC	AL1(\$ESDCM),CL4' CM' 05	05060000
000968	0640D7E240			567	DC	AL1(\$ESDPR),CL4' PS' 06	05070000
00096D	07D5E4D3D3			568	DC	AL1(\$ESDNULL),CL4'NULL' 07	05080000
000972	0A40E6E740			569	DC	AL1(\$ESDWX),CL4' WX' 0A	05090000
000977	1440D6E540			570	ESDTBLND	DC AL1(\$ESDOV),CL4' OV' 14 GP99141	05100000
00097C	FFE4D5D2D5			571	DC	X'FF',CL4'UNKN'	05110000
000988				573		LTORG	05130000
				575		COPY DISASMDA	05150000
				576		AIF ('&DAPRT' EQ 'ON').DA010	00010000
				577		PRINT OFF	00020000
				788		PRINT ON	02130000
				789	.DA020	ANOP	02140000
				790	*-----*		05160000
				791	*		05170000
				792	*	COMMON DATA MAP	05180000
				793	*		05190000
				794	*-----*		05200000
				795	DISASM00	DISASMCM TYPE=DSECT	05210000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				796+	PRINT OFF	00280000
				1427+	PRINT ON	06440000
				1428+*	-----*	06460000
				1429+*		* 06470000
				1430+*	ABEND REASON CODES	* 06480000
				1431+*		* 06490000
				1432+*	-----*	06500000
		00001	1433+	ABEND001 EQU 1	REQUESTED VIA AN ABEND STATEMENT	06510000
		00002	1434+	ABEND002 EQU 2	UNKNOWN RETURN CODE FROM BLDL	06520000
		00003	1435+	ABEND003 EQU 3	UNKNOWN RLD ITEM TYPE	06530000
		00004	1436+	ABEND004 EQU 4	RLD DATA REMAINING WENT NEGATIVE	06540000
		00005	1437+	ABEND005 EQU 5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000	1440+	R0 EQU 0		00070000
		00001	1441+	R1 EQU 1		00080000
		00002	1442+	R2 EQU 2		00090000
		00003	1443+	R3 EQU 3		00100000
		00004	1444+	R4 EQU 4		00110000
		00005	1445+	R5 EQU 5		00120000
		00006	1446+	R6 EQU 6		00130000
		00007	1447+	R7 EQU 7		00140000
		00008	1448+	R8 EQU 8		00150000
		00009	1449+	R9 EQU 9		00160000
		0000A	1450+	R10 EQU 10		00170000
		0000B	1451+	R11 EQU 11		00180000
		0000C	1452+	R12 EQU 12		00190000
		0000D	1453+	R13 EQU 13		00200000
		0000E	1454+	R14 EQU 14		00210000
		0000F	1455+	R15 EQU 15		00220000
000000			1457	END	DISASM05	05220000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
\$ABORT	00001	00000080	00909	00302	00384	00400	00415													
\$DATAACN	00001	00000014	00625	00317	00346															
\$DATAARL	00001	00000015	00626	00319	00348															
\$DATAACXD	00001	00000037	00628	00337																
\$DATAQ	00001	00000038	00629	00340																
\$DATAVCN	00001	00000016	00627	00330																
\$ERROR	00001	00000040	00910	00302	00384	00400	00415	00456												
\$ESDCM	00001	00000005	00661	00566																
\$ESDER	00001	00000002	00658	00562																
\$ESDLR	00001	00000003	00659	00563																
\$ESDNULL	00001	00000007	00663	00568																
\$ESDOV	00001	00000014	00665	00570																
\$ESDPC	00001	00000004	00660	00564																
\$ESDPC1	00001	00000020	00666	00565																
\$ESDPR	00001	00000006	00662	00567																
\$ESDSD	00001	00000000	00657	00559	00561															
\$ESDWX	00001	0000000A	00664	00569																
\$ESFXTRN	00001	00000080	00672	00322																
\$LFDATA	00001	00000008	00475	00185	00419	00430														
\$LFDMOD	00001	00000004	00476	00284	00419	00430	00432	00444												
\$LFSUBHD	00001	00000080	00474	00048	00056															
\$MG0504	00001	00000001	00940	00421	00423															
\$OPMASK	00001	00000001	01422	01078																
\$PFRLD	00001	00000020	00926	00046	00458															
\$PFTRC	00001	00000001	00930	01165	01167															
\$PRTPRT	00001	000000D7	01289	01275	01296															
\$PRTSUBH	00001	000000E2	01288	00054	01171															
\$RLDACON	00001	00000000	00728	00289	00350	00550														
\$RLDACRL	00001	00000001	00729	00352																
\$RLDER1	00001	00000080	00733	00293	00555															
\$RLDER2	00001	00000090	00734	00295	00556															
\$RLDPSPDP	00001	00000020	00731	00299	00554															
\$RLDPSSZ	00001	00000030	00732	00297	00553															
\$RLDVCON	00001	00000010	00730	00291	00552															
ABEND003	00001	00000003	01435	00305																
ABEND004	00001	00000004	01436	00403																
AOP	00004	000000AC	00836	01059																
APR	00004	000000B8	00838	01278																
APU	00004	000000BC	00839	01299																
BASEDSCT	00001	00000000	00595	00603																
BLKTRT	00001	00000A68	01336	01337	01339	01341	01343	01345	01347	01349	01351	01353	01355	01357	01359	01361				
COMMBLKS	00001	00000225	00954	00139	00288															
COMMCLR	00004	000000F8	00865	00885	00889															
COMMCSAD	00004	0000011C	00875	00086	00107															
COMMSEA	00004	00000124	00877	00088																
COMMCSNM	00008	0000014C	00888	00315																
COMMDATA	00004	0000010C	00871	00181	00182	00433														
COMMDWRD	00008	00000000	00803	01190	01191															
COMMESD	00004	000000F8	00866	00144																
COMMFILL	00001	00000161	00906	01235																
COMMFLAG	00001	00000163	00908	00302	00384	00400	00415	00456												
COMMHXCH	00016	00000275	00955	00956																
COMMHXTR	00016	00000185	00956	00121	00124	00137	00324	00372	00375	00378	00381	01182	01185	01188	01192					
COMMH4	00002	00000158	00902	00077	00392	00396														
COMMIO	00004	000000F4	00860	00065																

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18												
COMMNPRT	00001	000003C7	01011	01012	01014	01016	01018	01020	01022	01024	01026	01028	01030	01032	01034	01036	
COMMP00L	00001	00000162	00907	01227	01242												
COMMPRT	00001	000002C7	00982	00983	00985	00987	00989	00991	00993	00995	00997	00999	01001	01003	01005		
COMMRDL	00004	000000FC	00867	00059													
COMMSUBH	00133	0000016D	00950	00050	01168												
COMMSUBL	00002	00000154	00900	00052	00053	01169	01169	01170									
DATA	00008	00000665	00480	00283													
DATABASE	00004	0000002C	00630	00320													
DATABEGN	00004	0000001C	00616	00188	00190	00199	00224	00250	00285	00377	00439	00439					
DATADSCT	00001	00000000	00610	00183	00271	00278	00278	00434	00437	00439	00439	00441	00441	00442	00442	00443	00631
DATAEND	00004	00000020	00617	00186	00192	00200	00218	00222	00248	00286	00380						
DATAEYE	00008	00000004	00612	00283													
DATAL	00001	00000030	00631	00204	00226	00239	00245	00264	00278	00441	00442	00443					
DATALEN	00004	00000024	00618	00203	00225	00251	00287	00344									
DATANAME	00008	0000000C	00613	00288	00321	00331	00341										
DATANEXT	00004	00000000	00611	00256	00257	00271	00278	00278	00434	00437	00441	00441	00442	00442	00443	00443	
DATATYPE	00001	0000002B	00621	00317	00319	00330	00337	00340	00346	00348							
DISASM00	00001	00000000	00797	00038	00810	01049	01126	01163	01224	01260							
DISASM05	00001	00000000	00030	00031	00037	01457											
DSCTDSCT	00001	00000000	00638	00644													
EMSG01	00033	0000072D	00518	00301	00519												
EMSG01L	00001	00000021	00519	00301													
EMSG02	00044	0000074E	00521	00399	00522												
EMSG02L	00001	0000002C	00522	00399													
EMSG03	00055	0000077A	00524	00414	00525												
EMSG03L	00001	00000037	00525	00414													
EMSG04	00024	000007B1	00527	00383	00536												
EMSG04DB	00008	00000803	00532	00377	00378	00379											
EMSG04DE	00008	0000080F	00534	00380	00381	00382											
EMSG04L	00001	00000067	00536	00383													
EMSG04RB	00008	000007C9	00528	00371	00372	00373											
EMSG04RE	00008	000007D5	00530	00374	00375	00376											
ERR0020	00002	0000058E	00413	00148													
ESDADDR	00003	00000017	00667	00320													
ESDBXLE	00004	00000648	00471	00154													
ESDDATA	00001	00000000	00651	00145	00674												
ESDFLAG	00001	0000001E	00671	00322													
ESDID	00002	0000000C	00654	00149													
ESDNAME	00008	0000000E	00655	00153	00315	00321	00331	00341	00670								
ESDNEXT	00004	00000000	00652	00147													
ESDTBLE	00001	00000945	00558	00471	00560												
ESDTBLEL	00001	00000005	00560	00471													
ESDTBLND	00001	00000977	00570	00471													
ESDTYPE	00001	00000016	00656	00155													
EXGETOPC	00006	00000554	01090	01083													
EXIT0000	00004	0000059C	00419	00078	00393												
EXIT0010	00004	000005BC	00430	00420	00422	00435	00438										
EXIT0012	00004	000005C8	00433	00445													
EXIT0014	00002	000005D4	00436	00440													
EXIT0020	00002	00000602	00446	00431													
GETMAIN	00004	00000684	01225	00091	00205	00227	00240	00265									
GETOPEXT	00004	00000546	01086	01079													
GETOPLEN	00001	0000055A	01091	01057													
GETOPNOT	00004	0000054E	01088	01062	01072	01077	01085										
GETOPTMK	00004	00000526	01078	01063													

SYMBOL	LEN	VALUE	DEFN	REFERENCES																ASM 0201 00.48 07/11/18															
GETOPWRK	00006	0000055E	01092	01082	01082	01084	01090																												
HEXTRT	00001	00000868	01318	01319	01321	01323	01325	01327																											
INTTRT	00001	00000968	01329	01330	01332	01334																													
LABLDSCT	00001	00000000	00681	00697																															
LOCFLAG	00001	00000658	00473	00048	00056	00185	00284	00419	00430	00432	00444																								
MAINRSV	00004	00000858	01316	01225	01231	01233	01237	01240	01246																										
MODENT	00004	00000064	00035	00031																															
MODHEAD	00023	00000005	00033	00032																															
MODSAVE	00004	0000001C	00034	00039																															
MSGMUNGE	00001	000008A7	00546	00425																															
MSGMUNGT	00080	000008A8	00547	00546																															
MSG02	00001	000006CF	00499	00162	00516																														
MSG02DIR	00001	00000709	00509	00135																															
MSG02DSP	00008	00000711	00511	00136	00137	00138																													
MSG02ENM	00008	0000071D	00513	00139	00153																														
MSG02ETY	00004	00000729	00515	00160																															
MSG02L	00001	0000005E	00516	00162																															
MSG02LEN	00001	00000700	00507	00133	00134																														
MSG02PP	00004	000006E5	00503	00123	00124	00125																													
MSG02PTR	00004	000006D8	00501	00120	00121	00122																													
MSG02TYP	00010	000006F1	00505	00132																															
MSG03	00024	0000085C	00541	00326	00544																														
MSG03DSP	00008	00000874	00542	00323	00324	00325																													
MSG03L	00001	0000004B	00544	00326																															
MSG04	00068	00000818	00538	00360	00539																														
MSG04L	00001	00000044	00539	00360																															
NBLTRT	00001	00000B68	01363	01364	01366																														
OPDSECT	00001	00000000	01385	01060	01423																														
OPFLAGS	00001	00000007	01414	01078																															
OPFLAG1	00001	00000001	01387	01067																															
OPFLAG2	00001	00000002	01388	01069																															
OPFLAG3	00001	00000003	01389	01071																															
OPMASK	00006	00000008	01424	01084																															
OPMNEM	00006	00000000	01386	01387	01388	01389																													
PRINTDAT	00004	000006F0	01276	00055	01172																														
PRINTFG1	00001	00000165	00923	00046	00458	01165	01167																												
PRINTFG3	00001	00000167	00937	00421	00423																														
PRINTMSG	00004	000006BE	01261	00426																															
PRINTMVR	00006	000006E6	01273	01270																															
PRINTREC	00004	000006EC	01275	00463	01194	01272																													
PRINTREX	00004	000006FE	01280	01264																															
PRINTRSV	00004	00000848	01315	01261	01271	01276	01280	01297	01301																										
PRTBLOK	00001	0000070E	01285	01277																															
PRTCC	00001	0000070F	01292	00424	01281																														
PRTCMD	00001	0000070E	01286	00054	01171	01275	01296																												
PRTDATA	00132	00000710	01293	00162	00301	00326	00360	00383	00399	00414	00460	00461	00461	00461	01179	01180	01181	01182																	
				01183	01184	01185	01186	01187	01188	01189	01191	01192	01193	01265	01273	01282	01282																		
PRT0000	00002	0000061A	00455	00163	00303	00327	00361	00385	00401	00416																									
PRT0005	00004	00000636	00463	00457	00459																														
PUNBLOK	00001	000007B2	01304	01298																															
PUNDATA	00080	000007B4	01310	01295																															
REFDSCT	00001	00000000	00704	00714																															
RLD	00008	0000065D	00479	00098																															
RLDBXLE	00004	0000063C	00470	00126																															
RLDCLIP	00004	00000298	00197	00255																															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
				00155 00156 00197 00198 00198 00199 00202 00205 00208 00220 00221 00222 00223 00223 00227														
				00230 00240 00243 00246 00247 00248 00249 00249 00265 00268 00304 00356 00357 00358 00366														
				00367 00368 00402 00426 00448 00451 00453 00463 01053 01054 01055 01057 01064 01064 01066														
				01068 01070 01071 01073 01073 01074 01075 01086 01087 01089 01141 01148 01172 01194 01204														
				01225 01236 01237 01238 01240 01246 01247 01261 01271 01276 01279 01280 01283 01297 01300														
				01301 01302														
R15	00001	0000000F	01455	00031 00036 00126 00128 00130 00132 00154 00156 00158 00160 00200 00201 00201 00202 00203														
				00224 00225 00250 00251 00452 00452 01050 01051 01051 01052 01054 01058 01059 01060 01061														
				01061 01075 01076 01076 01088 01128 01147 01164 01203 01234 01234 01235 01240 01246 01262														
				01262 01263 01266 01268 01269 01270 01278 01279 01299 01300														
R2	00001	00000002	01442	00181 00210 00253 00256 00270 00434 00436 00437 00439 00441 00442 00443 01065 01065 01067														
				01068 01069 01070														
R3	00001	00000003	01443	00144 00145 00147 00152														
R4	00001	00000004	01444	00059 00061 00062 00065 00066 00067 01080 01081 01083														
R5	00001	00000005	01445	00060 00061 00097 01173 01176 01196 01196 01197 01199 01201														
R6	00001	00000006	01446	00066 00069 00077 00392 00396														
R7	00001	00000007	01447	00067 00070 00074 00075 00076 00076 00081 00082 00086 00088 00099 00106 00111 00116 00355														
				00356 00365 00366 00387 00389 00390 00391 00391 00395 00395														
R8	00001	00000008	01448	00182 00183 00211 00212 00232 00233 00234 00245 00252 00253 00254 00257 00271 00272 00278														
				00278														
SAVEPP	00002	0000065B	00478	00075 00110 00390														
SAVEPTR	00002	00000659	00477	00074 00109 00389														
SUBHEAD	00001	0000066D	00481	00050 00498														
SUBHEADL	00001	00000062	00498	00050 00051														
SYMDATA	00001	00000000	00746	00751														
TEMPEND	00004	00000654	00472	00180 00188 00192 00197 00218 00286 00374														
TPODA1A	00008	00000017	01208	01181 01181 01182 01182 01183 01183														
TPODA1B	00008	00000020	01209	01184 01184 01185 01185 01186 01186														
TPODA2A	00008	0000002A	01210	01187 01187 01188 01188 01189 01189														
TPODA2B	00008	00000033	01211	01191 01191 01192 01192 01193 01193														
TPOMOD	00008	00000003	01206	01179 01179														
TPOTID	00008	0000000D	01207	01180 01180														
TRACEPEN	00004	00000662	01203	01166 01175 01198														
TRACEPIN	00004	00000646	01196	01174 01178														
TRACEPPR	00004	000005E2	01177	01200 01202														
TRACEPRT	00004	000005B0	01164	00304 00402														
TRACESHD	00027	00000668	01212	01168 01168 01169														
TRACE000	00002	00000564	01125	00044 00071 00084 00094 00208 00230 00243 00268 00358 00368 00448														
TRACE010	00002	00000580	01137	01135														
TRACE020	00002	000005A8	01146	01130														
TRCESAVE	00004	00000808	01314	01050 01086 01088 01128 01147 01164 01203														
TRCURR	00004	000000D4	00851	01129 01138 01173 01197														
TRDATA1	00008	000000E0	00854	00069 00081 00093 00207 00229 00242 00267 00355 00365 01142 01144 01144														
TRDATA2	00008	000000E8	00855	00070 00083 00357 00367 01143 01145 01145														
TREDATA1	00008	00000010	01376	01142 01181 01184														
TREDATA2	00008	00000018	01377	01143 01187 01190														
TREID	00008	00000008	01375	01141 01180														
TREMOD	00008	00000000	01374	01140 01177 01179														
TRENTRY	00001	00000000	01373	01127 01176 01195 01195 01378														
TRENTRYL	00001	00000020	01378	01133 01195 01196														
TRLAST	00004	000000CC	00849	01134 01199														
TR1ST	00004	000000C4	00847	01136 01201														
USNGDSCT	00001	00000000	00758	00772														
VERPSECT	00001	00000000	00779	00785														

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 522

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2782

TOTAL RECORDS PUNCHED 47

TOTAL RECORDS PRINTED 968

ASM 0201 00.48 07/11/18

DISASM06 SD 0001 000000 0004E8

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					2	*-----*	00020000
					3	*	* 00030000
					4	* MODULE NAME: DISASM06	* 00040000
					5	*	* 00050000
					6	* FUNCTION:	* 00060000
					7	* TEXT PRINTER. THE OBJECT MODULE WILL HAVE ALREADY BEEN READ	* 00070000
					8	* INTO STORAGE BY THE MODULE READER DISASM03. FIELDS COMMTXT AND	* 00080000
					9	* COMMCSLN IN DISASM00 WILL HAVE BEEN SET TO THE ADDRESS AND	* 00090000
					10	* LENGTH OF THE MODULE IN STORAGE.	* 00100000
					11	*	* 00110000
					12	*-----*	* 00120000
					13	COPY DISASMGB	00130000
					14	*-----*	* 00010000
					15	*	* 00020000
					16	* GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
					17	*	* 00040000
					18	* DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
					19	*	* 00060000
					20	*-----*	* 00070000
					21	GBLA &TRNBRG,&MAXL,&MINL	00080000
					22	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
					23	GBLC &TROPT,&DAPRT,&COMPRT	00100000
					24	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
						DALIST=OFF, DON'T PRINT DATA AREA +00120000	
						MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
						MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
						TRACE=ON, GENERATE TRACE +00150000	
						TRNBR=1000 1000 TRACE ENTRIES 00160000	
					25	DISASM06 MODHEAD , ENTRY HOUSEKEEPING GP99140	00140000
000000					26+	DISASM06 START 0	00070000
000000	47F0	F064	00064		27+	B MODENT-DISASM06(,R15) BRANCH AROUND	00100000
000004	17				28+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F6				29+	MODHEAD DC C'DISASM06 07/11/18 00.48'	00120000
00001C	0000000000000000				30+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC	D00C	0000C		31+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF				32+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
			00000		33+	USING DISASM06,R12	00330000
			00000		34+	USING DISASM00,R11	00360000
00006A	41E0	C01C	0001C		35+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0	D008	00008		36+	ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0	E004	00004		37+	ST R13,4(,R14) CHAIN UP	00390000
000076	18DE				38+	LR R13,R14 NEW SAVE AREA	00400000
000078	BF3F	B138	00138		39	ICM R3,15,COMMVERS ANY VERIFY DATA ? GP10082	00150000
00007C	4780	C0DA	000DA		40	BZ DOREPS NO; CHECK FOR REPLACE GP10082	00160000
			00000		41	USING VERPSECT,R3 DECLARE VERIFY BLOCK GP10082	00170000
000080	1B99				42	SR R9,R9 FLAG FOR ALL VERIFIED GP10082	00180000
000082	98EF	3004	00004		43	VERLOOP LM R14,R15,VERPOFFS LOAD OFFSET AND LENGTH GP10082	00190000
000086	411F	E000	00000		44	LA R1,0(R15,R14) LAST BYTE GP10082	00200000
00008A	5910	B12C	0012C		45	C R1,COMMCSLN IN RANGE? GP10082	00210000
00008E	47B0	C0BA	000BA		46	BNL VERBUMP NO; IGNORE (LATER MSG?) GP10082	00220000
000092	5AE0	B130	00130		47	A R14,COMMTXT RELOCATE GP10082	00230000
000096	44F0	C110	00110		48	EX R15,EXVERTEX VERIFIES ? GP10082	00240000
00009A	4780	C0BA	000BA		49	BE VERBUMP YES GP10082	00250000
00009E	189E				50	LR R9,R14 TOO BAD GP10082	00260000
0000A0	D229	B710	C2FD	00710	002FD	51 MVC PRTDATA(MSG05L),MSG05E MAKE MESSAGE GP10082	00270000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0000A6	F384	B726	3004	00726	00004	52 53+ +	SHEX PRTDATA+MSG050-MSG05E,VERPOFFS UNPK PRTDATA+MSG050-MSG05E(2*L'VERPOFFS+1),VERPOFFS(L'S+1)	GP10082 00280000 GP10065 00310000
0000AC	DC07	B726	B185	00726	00185	54+	TR PRTDATA+MSG050-MSG05E(2*L'VERPOFFS),COMMHXTR	GP10081 00320000
0000B2	9240	B72E		0072E		55+	MVI PRTDATA+MSG050-MSG05E+2*L'VERPOFFS,C' '	GP10065 00340000
0000B6	45E0	B6EC		006EC		56	BAL R14,PRINTREC	GP10082 00290000
0000BA	BF3F	3000		00000		57	VERBUMP ICM R3,15,VERPNEXT	GP10082 00300000
0000BE	4770	C082		00082		58	BNZ VERLOOP	GP10082 00310000
0000C2	1299					59	LTR R9,R9	GP10082 00320000
0000C4	4780	C0DA		000DA		60	BZ DOREPS	GP10082 00330000
0000C8	D22E	B710	C327	00710	00327	61	MVC PRTDATA(MSG06L),MSG06E	GP10082 00340000
0000CE	45E0	B6EC		006EC		62	BAL R14,PRINTREC	GP10082 00350000
0000D2	96C0	B163		00163		63	OI COMMFLAG,\$ERROR+\$ABORT	GP10082 00360000
0000D6	47F0	C124		00124		64	B TAKEDUMP	GP10082 00370000
0000DA	BF3F	B13C		0013C		65	DOREPS ICM R3,15,COMMREPS	GP10082 00380000
0000DE	4780	C11C		0011C		66	BZ TESTDUMP	GP10082 00390000
0000E2	98EF	3004		00004	00000	67	USING VERPSECT,R3	GP10082 00400000
0000E6	411F	E000		00000		68	REPLOOP LM R14,R15,VERPOFFS	GP10082 00410000
0000EA	5910	B12C		0012C		69	LA R1,0(R15,R14)	GP10082 00420000
0000EE	47B0	C0FA		000FA		70	C R1,COMMCSLN	GP10082 00430000
0000F2	5AE0	B130		00130		71	BNL REPBUMP	GP10082 00440000
0000F6	44F0	C116		00116		72	A R14,COMMTXT	GP10082 00450000
0000FA	BF3F	3000		00000		73	EX R15,EXREPTX	GP10082 00460000
0000FE	4770	C0E2		000E2		74	REPBUMP ICM R3,15,VERPNEXT	GP10082 00470000
000102	D21F	B710	C356	00710	00356	75	BNZ RELOOP	GP10082 00480000
000108	45E0	B6EC		006EC		76	MVC PRTDATA(MSG08L),MSG08I	GP10082 00490000
00010C	47F0	C11C		0011C		77	BAL R14,PRINTREC	GP10082 00500000
						78	B TESTDUMP	GP10082 00510000
000110	D500	300C	E000	0000C	00000	80	EXVERTEX CLC VERPTEXT(0),0(R14)	GP10082 00530000
000116	D200	E000	300C	00000	0000C	81	EXREPTX MVC 0(0,R14),VERPTEXT	GP10082 00540000
						82	DROP R3	GP10082 00550000
00011C	9180	B166		00166		84	TESTDUMP TM PRINTFG2,\$PFHEX	GP99132 00570000
000120	4780	C252		00252		85	BZ EXIT0000	GP99132 00580000
000124	D205	B16D	C280	0016D	00280	86	TAKEDUMP MVC COMMSUBH(SUBHEADL),SUBHEAD	00590000
00012A	4110	0006		00006		87	LA R1,SUBHEADL	00600000
00012E	4010	B154		00154		88	STH R1,COMMSUBL	00610000
000132	92C8	B70E		0070E		89	MVI PRTCMD,\$PRTHEAD	00620000
000136	45E0	B6F0		006F0		90	BAL R14,PRINTDAT	GP99138 00630000
00013A	5830	B12C		0012C		91	L R3,COMMCSLN	00640000
00013E	5840	B130		00130		92	L R4,COMMTXT	00650000
000142	D703	C27C	C27C	0027C	0027C	93	XC TEXTDISP,TEXTDISP	00660000
000148						94	TEXT0020 DS OH	00670000
000148	1853					95	LR R5,R3	00680000
00014A	4950	B15C		0015C		96	CH R5,COMM32	00690000
00014E	47D0	C156		00156		97	BNH TEXT0030	00700000
000152	4850	B15C		0015C		98	LH R5,COMM32	00710000
000156						99	TEXT0030 DS OH	00720000
000156	D248	C291	B225	00291	00225	100	MVC MSG01HX,COMMBLKS	00730000
00015C	D21F	C2DD	B225	002DD	00225	101	MVC MSG01CH,COMMBLKS	00740000
000162	F384	C286	C27C	00286	0027C	102	UNPK MSG01DSP(9),TEXTDISP(5)	00750000
000168	DC07	C286	B185	00286	00185	103	TR MSG01DSP,COMMHXTR	GP99132 00760000
00016E	9240	C28E		0028E		104	MVI MSG01DSP+8,C' '	00770000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000172	F384	C397	4000	00397	00000	105	UNPK WORKHX1(9),00(5,R4)	UNPACK DATA 00780000
000178	F384	C3A0	4004	003A0	00004	106	UNPK WORKHX2(9),04(5,R4)	UNPACK DATA 00790000
00017E	F384	C3A9	4008	003A9	00008	107	UNPK WORKHX3(9),08(5,R4)	UNPACK DATA 00800000
000184	F384	C3B2	400C	003B2	0000C	108	UNPK WORKHX4(9),12(5,R4)	UNPACK DATA 00810000
00018A	F384	C3BD	4010	003BD	00010	109	UNPK WORKHX5(9),16(5,R4)	UNPACK DATA 00820000
000190	F384	C3C6	4014	003C6	00014	110	UNPK WORKHX6(9),20(5,R4)	UNPACK DATA 00830000
000196	F384	C3CF	4018	003CF	00018	111	UNPK WORKHX7(9),24(5,R4)	UNPACK DATA 00840000
00019C	F384	C3D8	401C	003D8	0001C	112	UNPK WORKHX8(9),28(5,R4)	UNPACK DATA 00850000
0001A2	DC07	C397	B185	00397	00185	113	TR WORKHX1,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00860000
0001A8	DC07	C3A0	B185	003A0	00185	114	TR WORKHX2,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00870000
0001AE	DC07	C3A9	B185	003A9	00185	115	TR WORKHX3,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00880000
0001B4	DC07	C3B2	B185	003B2	00185	116	TR WORKHX4,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00890000
0001BA	DC07	C3BD	B185	003BD	00185	117	TR WORKHX5,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00900000
0001C0	DC07	C3C6	B185	003C6	00185	118	TR WORKHX6,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00910000
0001C6	DC07	C3CF	B185	003CF	00185	119	TR WORKHX7,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00920000
0001CC	DC07	C3D8	B185	003D8	00185	120	TR WORKHX8,COMMHXTR	TRANSLATE TO PRINTABLE GP99132 00930000
0001D2	9240	C39F		0039F		121	MVI WORKHX1+8,C' '	RESTORE BLANK 00940000
0001D6	9240	C3A8		003A8		122	MVI WORKHX2+8,C' '	RESTORE BLANK 00950000
0001DA	9240	C3B1		003B1		123	MVI WORKHX3+8,C' '	RESTORE BLANK 00960000
0001DE	9240	C3BA		003BA		124	MVI WORKHX4+8,C' '	RESTORE BLANK 00970000
0001E2	9240	C3C5		003C5		125	MVI WORKHX5+8,C' '	RESTORE BLANK 00980000
0001E6	9240	C3CE		003CE		126	MVI WORKHX6+8,C' '	RESTORE BLANK 00990000
0001EA	9240	C3D7		003D7		127	MVI WORKHX7+8,C' '	RESTORE BLANK 01000000
0001EE	1815					128	LR R1,R5	COPY LENGTH 01010000
0001F0	4111	C376		00376		129	LA R1,LENTBLE(R1)	PRINT LENGTH'S ADDRESS 01020000
0001F4	1B22					130	SR R2,R2	CLEAR REGISTER 01030000
0001F6	4320	1000		00000		131	IC R2,0(,R1)	PRINT LENGTH 01040000
0001FA	0620					132	BCTR R2,0	MINUS 1 FOR EXECUTE 01050000
0001FC	4420	C26A		0026A		133	EX R2,HEXMVC	MOVE HEX DATA 01060000
000200	1815					134	LR R1,R5	COPY LENGTH 01070000
000202	0610					135	BCTR R1,0	MINUS 1 FOR EXECUTES 01080000
000204	4410	C270		00270		136	EX R1,CHARMVC	MOVE CHARACTER 01090000
000208	4410	C276		00276		137	EX R1,CHARTR	TRANSLATE UNPRINTABLES TO PERIODS 01100000
00020C	D276	B710	C286	00710	00286	138	MVC PRTDATA(MSG01L),MSG01	SET MESSAGE 01110000
000212	45A0	C230		00230		139	BAL R10,PRT0000	PRINT TEXT 01120000
000216	5810	C27C		0027C		140	L R1,TEXTDISP	CURRENT DISPLACEMENT GP99140 01130000
00021A	4110	1020		00020		141	LA R1,32(,R1)	UPDATE DISPLACEMENT 01140000
00021E	5010	C27C		0027C		142	ST R1,TEXTDISP	SAVE UPDATED DISPLACEMENT GP99140 01150000
000222	4140	4020		00020		143	LA R4,32(,R4)	NEXT TEXT 01160000
000226	1B35					144	SR R3,R5	MINUS LENGTH PRINTED 01170000
000228	4770	C148		00148		145	BNZ TEXT0020	CONTINUE 01180000
00022C	47F0	C252		00252		146	B EXIT0000	EXIT 01190000
000230						147	PRT0000 DS OH	01200000
000230	9140	B163		00163		148	TM COMMFLAG,\$ERROR	ERROR MESSAGE? GP99132 01210000
000234	4770	C24C		0024C		149	BNZ PRT0005	YES; PRINT IT GP99132 01220000
000238	9180	B166		00166		150	TM PRINTFG2,\$PFHEX	PRINT CSECT TEXT ? GP99132 01230000
00023C	4770	C24C		0024C		151	BNZ PRT0005	YES GP99132 01240000
000240	9240	B710		00710		152	MVI PRTDATA,C' '	JUST CLEAR GP99132 01250000
000244	D282	B711	B710	00711	00710	153	MVC PRTDATA+1(L'PRTDATA-1),PRTDATA	PRINT BUFFER GP99132 01260000
00024A	07FA					154	BR R10	JUST RETURN GP99132 01270000
00024C	45E0	B6EC		006EC		155	PRT0005 BAL R14,PRINTREC	GP99138 01280000
000250	07FA					156	BR R10	RETURN 01290000
000252						157	EXIT0000 DS OH	01300000
						158	ITRACE ID=EXIT	01310000
000252	45E0	B564		00564		159+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000256	C5E7C9E340404040				160+	DC	CL8'EXIT' TRACE ID	00670000
00025E	58D0 D004	00004			161	L	R13,4(,R13) RESTORE REGISTER 13	01320000
000262	98EC D00C	0000C			162	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	01330000
000266	1BFF				163	SR	R15,R15 GIVE GOOD RETURN CODE	01340000
000268	07FE				164	BR	R14 RETURN TO CALLER	01350000
00026A	D200 C291 C397 00291 00397				165	HEXMVC	MVC MSG01HX(0),HEXWORK MOVE HEX TO PRINT MESSAGE	01360000
000270	D200 C2DD 4000 002DD 00000				166	CHARMVC	MVC MSG01CH(0),0(R4) MOVE CHARACTER TO PRINT	01370000
000276	DC00 C2DD C3E1 002DD 003E1				167	CHARTR	TR MSG01CH(0),PRTTABLE TRANSLATE ALL TO PRINTABLE	01380000
					168	*	-----*	01390000
					169	*		* 01400000
					170	*	WORK AREAS	* 01410000
					171	*		* 01420000
					172	*	-----*	* 01430000
00027C	00000000				173	TEXTDISP	DC A(0) GP99140	01440000
000280	40E3C5E7E340				174	SUBHEAD	DC C' TEXT '	01450000
				00006	175	SUBHEADL	EQU *-SUBHEAD	01460000
000286					176	MSG01	DS OC	01470000
000286	4040404040404040				177	MSG01DSP	DC CL08' '	01480000
00028E	404040				178		DC CL03' '	01490000
000291	4040404040404040				179	MSG01HX	DC CL73' '	01500000
0002DA	404040				180		DC CL03' '	01510000
0002DD	4040404040404040				181	MSG01CH	DC CL32' '	01520000
				00077	182	MSG01L	EQU *-MSG01	01530000
0002FD	C4C9E2C1E2D4F0F6				184	MSG05E	DC C'DISASM0605E VERIFY AT ' GP10082	01550000
000313	4040404040404040				185	MSG050	DC CL8' ',C' NOT MATCHED' GP10082	01560000
				0002A	186	MSG05L	EQU *-MSG05E GP10082	01570000
000327	C4C9E2C1E2D4F0F6				188	MSG06E	DC C'DISASM0606E UNMATCHED VERIFY TEXT; DUMPING TEXT' GP10082	01590000
				0002F	189	MSG06L	EQU *-MSG06E GP10082	01600000
000356	C4C9E2C1E2D4F0F6				191	MSG08I	DC C'DISASM0608I REPLACE TEXT APPLIED' GP10082	01620000
				00020	192	MSG08L	EQU *-MSG08I GP10082	01630000
000376	00				194	LENTBLE	DC AL1(00) NOT USED	01650000
000377	02				195		DC AL1(02) WHEN LENGTH = 01	01660000
000378	04				196		DC AL1(04) WHEN LENGTH = 02	01670000
000379	06				197		DC AL1(06) WHEN LENGTH = 03	01680000
00037A	08				198		DC AL1(08) WHEN LENGTH = 04	01690000
00037B	0B				199		DC AL1(11) WHEN LENGTH = 05	01700000
00037C	0D				200		DC AL1(13) WHEN LENGTH = 06	01710000
00037D	0F				201		DC AL1(15) WHEN LENGTH = 07	01720000
00037E	11				202		DC AL1(17) WHEN LENGTH = 08	01730000
00037F	14				203		DC AL1(20) WHEN LENGTH = 09	01740000
000380	16				204		DC AL1(22) WHEN LENGTH = 10	01750000
000381	18				205		DC AL1(24) WHEN LENGTH = 11	01760000
000382	1A				206		DC AL1(26) WHEN LENGTH = 12	01770000
000383	1D				207		DC AL1(29) WHEN LENGTH = 13	01780000
000384	1F				208		DC AL1(31) WHEN LENGTH = 14	01790000
000385	21				209		DC AL1(33) WHEN LENGTH = 15	01800000
000386	23				210		DC AL1(35) WHEN LENGTH = 16	01810000
000387	28				211		DC AL1(40) WHEN LENGTH = 17	01820000
000388	2A				212		DC AL1(42) WHEN LENGTH = 18	01830000
000389	2C				213		DC AL1(44) WHEN LENGTH = 19	01840000
00038A	2E				214		DC AL1(46) WHEN LENGTH = 20	01850000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00038B	31				215	DC	AL1(49)	WHEN LENGTH = 21 01860000
00038C	33				216	DC	AL1(51)	WHEN LENGTH = 22 01870000
00038D	35				217	DC	AL1(53)	WHEN LENGTH = 23 01880000
00038E	37				218	DC	AL1(55)	WHEN LENGTH = 24 01890000
00038F	3A				219	DC	AL1(58)	WHEN LENGTH = 25 01900000
000390	3C				220	DC	AL1(60)	WHEN LENGTH = 26 01910000
000391	3E				221	DC	AL1(62)	WHEN LENGTH = 27 01920000
000392	40				222	DC	AL1(64)	WHEN LENGTH = 28 01930000
000393	43				223	DC	AL1(67)	WHEN LENGTH = 29 01940000
000394	45				224	DC	AL1(69)	WHEN LENGTH = 30 01950000
000395	47				225	DC	AL1(71)	WHEN LENGTH = 31 01960000
000396	49				226	DC	AL1(73)	WHEN LENGTH = 32 01970000
000397					227	HEXWORK	DS OC	01980000
000397	4040404040404040				228	WORKHX1	DC CL8' '	01990000
00039F	40				229		DC CL1' '	02000000
0003A0	4040404040404040				230	WORKHX2	DC CL8' '	02010000
0003A8	40				231		DC CL1' '	02020000
0003A9	4040404040404040				232	WORKHX3	DC CL8' '	02030000
0003B1	40				233		DC CL1' '	02040000
0003B2	4040404040404040				234	WORKHX4	DC CL8' '	02050000
0003BA	404040				235		DC CL3' '	02060000
0003BD	4040404040404040				236	WORKHX5	DC CL8' '	02070000
0003C5	40				237		DC CL1' '	02080000
0003C6	4040404040404040				238	WORKHX6	DC CL8' '	02090000
0003CE	40				239		DC CL1' '	02100000
0003CF	4040404040404040				240	WORKHX7	DC CL8' '	02110000
0003D7	40				241		DC CL1' '	02120000
0003D8	4040404040404040				242	WORKHX8	DC CL8' '	02130000
0003E0	40				243		DC CL1' '	02140000
0003E1	4B4B4B4B4B4B4B4B				244	PRTTABLE	DC 256C'.'	02150000
0004E1			00421		245	ORG	PRTTABLE+X'40'	02160000
000421	40				246	DC	C' '	02170000
000422			0042B		247	ORG	PRTTABLE+X'4A'	02180000
00042B	B84B4C4D4E4F				248	DC	C'«.<(+x'	02190000
000431	50				249	DC	X'50'	02200000
000432			0043B		250	ORG	PRTTABLE+X'5A'	02210000
00043B	5A5B5C5D5E5F6061				251	DC	C'!\$*);^-/'	02220000
000443			0044C		252	ORG	PRTTABLE+X'6B'	02230000
00044C	6B6C6D6E6F				253	DC	C',%_>?'	02240000
000451			0045B		254	ORG	PRTTABLE+X'7A'	02250000
00045B	7A7B7C				255	DC	C':#@'	02260000
00045E	7D				256	DC	X'7D'	02270000
00045F	7E7F				257	DC	C'=""	02280000
000461			004A1		258	ORG	PRTTABLE+X'C0'	02290000
0004A1	C0C1C2C3C4C5C6C7				259	DC	C'{ABCDEFGHI'	02300000
0004AB			004B1		260	ORG	PRTTABLE+X'D0'	02310000
0004B1	D0D1D2D3D4D5D6D7				261	DC	C'}JKLMNOPQR'	02320000
0004BB			004C3		262	ORG	PRTTABLE+X'E2'	02330000
0004C3	E2E3E4E5E6E7E8E9				263	DC	C'STUVWXYZ'	02340000
0004CB			004D1		264	ORG	PRTTABLE+X'F0'	02350000
0004D1	F0F1F2F3F4F5F6F7				265	DC	C'0123456789'	02360000
0004DB			004E1		266	ORG	PRTTABLE+256	02370000
0004E8					268	LTORG		02390000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				270	COPY DISASMDA	MAPPINGS GP10082 02410000
				271	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				272	PRINT OFF	00020000
				483	PRINT ON	02130000
				484	.DA020 ANOP	02140000
				485	*-----*	* 02420000
				486	*	* 02430000
				487	* COMMON DATA MAP	* 02440000
				488	*	* 02450000
				489	*-----*	* 02460000
				490	DISASM00 DISASMCM TYPE=DSECT	02470000
				491+	PRINT OFF	00280000
				1122+	PRINT ON	06440000
				1123+	*-----*	* 06460000
				1124+	*	* 06470000
				1125+	* ABEND REASON CODES	* 06480000
				1126+	*	* 06490000
				1127+	*-----*	* 06500000
	00001	1128+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1129+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1130+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1131+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1132+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1135+R0	EQU	0		00070000
	00001	1136+R1	EQU	1		00080000
	00002	1137+R2	EQU	2		00090000
	00003	1138+R3	EQU	3		00100000
	00004	1139+R4	EQU	4		00110000
	00005	1140+R5	EQU	5		00120000
	00006	1141+R6	EQU	6		00130000
	00007	1142+R7	EQU	7		00140000
	00008	1143+R8	EQU	8		00150000
	00009	1144+R9	EQU	9		00160000
	0000A	1145+R10	EQU	10		00170000
	0000B	1146+R11	EQU	11		00180000
	0000C	1147+R12	EQU	12		00190000
	0000D	1148+R13	EQU	13		00200000
	0000E	1149+R14	EQU	14		00210000
	0000F	1150+R15	EQU	15		00220000
000000				1152	END DISASM06	02480000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
\$ABORT	00001	00000080	00604	00063																
\$ERROR	00001	00000040	00605	00063	00148															
\$OPMASK	00001	00000001	01117	00773																
\$PFHEX	00001	00000080	00627	00084	00150															
\$PFTRC	00001	00000001	00625	00860	00862															
\$PRTHEAD	00001	000000C8	00982	00089																
\$PRTPRT	00001	000000D7	00984	00970	00991															
\$PRTSUBH	00001	000000E2	00983	00866																
AOP	00004	000000AC	00531	00754																
APR	00004	000000B8	00533	00973																
APU	00004	000000BC	00534	00994																
BASDSCCT	00001	00000000	00290	00298																
BLKTRT	00001	00000A68	01031	01032	01034	01036	01038	01040	01042	01044	01046	01048	01050	01052	01054	01056				
CHARMVC	00006	00000270	00166	00136																
CHARTR	00006	00000276	00167	00137																
COMMBLKS	00001	00000225	00649	00100	00101															
COMMCLR	00004	000000F8	00560	00580	00584															
COMMCSLN	00004	0000012C	00574	00045	00070	00091														
COMMDDWRD	00008	00000000	00498	00885	00886															
COMMFILL	00001	00000161	00601	00930																
COMMFLAG	00001	00000163	00603	00063	00148															
COMMHXCH	00016	00000275	00650	00651																
COMMHXTR	00016	00000185	00651	00054	00103	00113	00114	00115	00116	00117	00118	00119	00120	00877	00880	00883	00887			
COMMH32	00002	0000015C	00599	00096	00098															
COMMNPRT	00001	000003C7	00706	00707	00709	00711	00713	00715	00717	00719	00721	00723	00725	00727	00729	00731				
COMMPOOL	00001	00000162	00602	00922	00937															
COMMPRT	00001	000002C7	00677	00678	00680	00682	00684	00686	00688	00690	00692	00694	00696	00698	00700					
COMMREPS	00004	0000013C	00578	00065																
COMMSUBH	00133	0000016D	00645	00086	00863															
COMMSUBL	00002	00000154	00595	00088	00864	00864	00865													
COMMTXT	00004	00000130	00575	00047	00072	00092														
COMMVERS	00004	00000138	00577	00039																
DATADSCCT	00001	00000000	00305	00326																
DISASM00	00001	00000000	00492	00034	00505	00744	00821	00858	00919	00955										
DISASM06	00001	00000000	00026	00027	00033	01152														
DOREPS	00004	000000DA	00065	00040	00060															
DSCTDSCCT	00001	00000000	00333	00339																
ESDDATA	00001	00000000	00346	00369																
ESDNAME	00008	0000000E	00350	00365																
EXGETOPC	00006	00000554	00785	00778																
EXIT0000	00002	00000252	00157	00085	00146															
EXREPTX	00006	00000116	00081	00073																
EXVERTEX	00006	00000110	00080	00048																
GETOPEXT	00004	00000546	00781	00774																
GETOPLN	00001	0000055A	00786	00752																
GETOPNOT	00004	0000054E	00783	00757	00767	00772	00780													
GETOPTMK	00004	00000526	00773	00758																
GETOPWRK	00006	0000055E	00787	00777	00777	00779	00785													
HEXMVC	00006	0000026A	00165	00133																
HEXTRT	00001	00000868	01013	01014	01016	01018	01020	01022												
HEXWORK	00001	00000397	00227	00165																
INTTRT	00001	00000968	01024	01025	01027	01029														
LABLDSCCT	00001	00000000	00376	00392																
LENTBLE	00001	00000376	00194	00129																
MAINRSV	00004	00000858	01011	00920	00926	00928	00932	00935	00941											

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
MODENT	00004	00000064	00031	00027																
MODHEAD	00023	00000005	00029	00028																
MODSAVE	00004	0000001C	00030	00035																
MSG01	00001	00000286	00176	00138	00182															
MSG01CH	00032	000002DD	00181	00101	00166	00167														
MSG01DSP	00008	00000286	00177	00102	00103	00104														
MSG01HX	00073	00000291	00179	00100	00165															
MSG01L	00001	00000077	00182	00138																
MSG05E	00022	000002FD	00184	00051	00053	00054	00055	00186												
MSG05L	00001	0000002A	00186	00051																
MSG050	00008	00000313	00185	00053	00054	00055														
MSG06E	00047	00000327	00188	00061	00189															
MSG06L	00001	0000002F	00189	00061																
MSG08I	00032	00000356	00191	00076	00192															
MSG08L	00001	00000020	00192	00076																
NBLTRT	00001	00000B68	01058	01059	01061															
OPDSECT	00001	00000000	01080	00755	01118															
OPFLAGS	00001	00000007	01109	00773																
OPFLAG1	00001	00000001	01082	00762																
OPFLAG2	00001	00000002	01083	00764																
OPFLAG3	00001	00000003	01084	00766																
OPMASK	00006	00000008	01119	00779																
OPMNEM	00006	00000000	01081	01082	01083	01084														
PRINTDAT	00004	000006F0	00971	00090	00867															
PRINTFG1	00001	00000165	00618	00860	00862															
PRINTFG2	00001	00000166	00626	00084	00150															
PRINTMVR	00006	000006E6	00968	00965																
PRINTREC	00004	000006EC	00970	00056	00062	00077	00155	00889	00967											
PRINTREX	00004	000006FE	00975	00959																
PRINTRSV	00004	00000848	01010	00956	00966	00971	00975	00992	00996											
PRTBLOK	00001	0000070E	00980	00972																
PRTCC	00001	0000070F	00987	00976																
PRTCMD	00001	0000070E	00981	00089	00866	00970	00991													
PRTDATA	00132	00000710	00988	00051	00053	00054	00055	00061	00076	00138	00152	00153	00153	00153	00874	00875	00876	00877		
				00878	00879	00880	00881	00882	00883	00884	00886	00887	00888	00960	00968	00977	00977			
PRTTABLE	00001	000003E1	00244	00167	00245	00247	00250	00252	00254	00258	00260	00262	00264	00266						
PRT0000	00002	00000230	00147	00139																
PRT0005	00004	0000024C	00155	00149	00151															
PUNBLOK	00001	000007B2	00999	00993																
PUNDATA	00080	000007B4	01005	00990																
REFDSCT	00001	00000000	00399	00409																
REPBUMP	00004	000000FA	00074	00071																
RELOOP	00004	000000E2	00068	00075																
RLDDATA	00001	00000000	00416	00434																
R0	00001	00000000	01135	00745	00751	00751	00752	00775	00823	00842	00859	00898	00922	00927	00931	00937	00960	00961		
				00963	00966															
R1	00001	00000001	01136	00044	00045	00069	00070	00087	00088	00128	00129	00129	00131	00134	00135	00136	00137	00140		
				00141	00141	00142	00747	00761	00781	00783	00785	00822	00824	00828	00828	00829	00831	00833		
				00920	00926	00927	00928	00932	00956	00958	00968	00971	00972	00975	00990	00992	00993	00996		
R10	00001	0000000A	01145	00139	00154	00156														
R11	00001	0000000B	01146	00034	00744	00821	00858	00919	00955											
R12	00001	0000000C	01147	00031	00032	00033	00162	00835												
R13	00001	0000000D	01148	00031	00036	00037	00038	00161	00161	00162										
R14	00001	0000000E	01149	00031	00035	00036	00037	00038	00043	00044	00047	00050	00056	00062	00068	00069	00072	00077		
				00080	00081	00090	00155	00159	00162	00164	00748	00749	00750	00752	00759	00759	00761	00763		

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
WORKHX5	00008	000003BD	00236	00109 00117 00125	
WORKHX6	00008	000003C6	00238	00110 00118 00126	
WORKHX7	00008	000003CF	00240	00111 00119 00127	
WORKHX8	00008	000003D8	00242	00112 00120	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 248

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2757

TOTAL RECORDS PUNCHED 34

TOTAL RECORDS PRINTED 521

ASM 0201 00.48 07/11/18

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DISASM07  SD  0001 000000 0006F4
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASM07	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	DYNAMICALLY INVOKE THE ASSEMBLER (IEV90) TO ASSEMBLE DSECTS.	00070000
				8 *	ANY METHOD OF DEFINING DSECTS THAT ARE VALID TO THE ASSEMBLER	00080000
				9 *	MAY BE USED, THEY MAY BE DEFINED INLINE, BY MACROS, OR COPY	00090000
				10 *	STATEMENTS. THE DISASSEMBLER LINKS TO THE ASSEMBLER TO ASSEMBLE	00100000
				11 *	THE SOURCE, THEN SCANS THE ASSEMBLER OUTPUT TO LEARN THE DSECT	00110000
				12 *	NAMES, LABEL NAMES, AND DISPLACEMENTS TO THE LABELS. IN ORDER	00120000
				13 *	FOR DISASM TO FIND THE NAMES AND DISPLACEMENTS, THE PRINT OPTION	00130000
				14 *	OF THE ASSEMBLER MUST BE ON.	00140000
				15 *		00150000
				16 *	LABELS AND DSECT NAMES ARE LIMITED TO 8 CHARACTERS IN LENGTH.	00160000
				17 *		00170000
				18 *	THE DISASSEMBLER HAS A LIMITATION OF X'FFFF' FOR THE MAXIMUM	00180000
				19 *	DISPLACEMENT VALUE.	00190000
				20 *		00200000
				21 *	INPUT TO THE ASSEMBLER IS DELIMITED BY ASM START AND ASM END	00210000
				22 *	STATEMENTS. ANY STATEMENTS BETWEEN THE ASM START AND ASM END	00220000
				23 *	ARE COPIED TO SYSIN. ASSEMBLER INPUT STATEMENTS ARE LISTED ON	00230000
				24 *	THE DISPRINT OUTPUT, BUT ARE OTHERWISE IGNORED. ANY MACROS NOT	00240000
				25 *	DEFINED INLINE AND ANY COPY ELEMENTS MUST BE AVAILABLE TO THE	00250000
				26 *	ASSEMBLER IN A LIBRARY IN THE SYSLIB CONCATENATION.	00260000
				27 *		00270000
				28 *	IF THE RETURN CODE FROM THE ASSEMBLER IS GREATER THAN 4, THE	00280000
				29 *	DISASSEMBLY IS ABORTED. THE ASSEMBLER OUTPUT IS COPIED TO THE	00290000
				30 *	DISDEBUG DATA SET IF ALLOCATED.	00300000
				31 *		00310000
				32 *	THE DSECTS ARE CHAINED FROM FIELD COMMDSCT OF MODULE DISASM00.	00320000
				33 *	THE LABELS WITHIN THE DSECT ARE CHAINED FROM FIELD DSCTLBA.	00330000
				34 *	DSCTDSCT MAPS THE DSECT CONTROL BLOCKS, LABLDSCT MAPS THE LABEL	00340000
				35 *	CONTROL BLOCKS.	00350000
				36 *		00360000
				37 *	-----*	00370000
				38	COPY DISASMGB	00380000
				39 *	-----*	00010000
				40 *		00020000
				41 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				42 *		00040000
				43 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				44 *		00060000
				45 *	-----*	00070000
				46	GBLA &TRNBRG,&MAXL,&MINL	00080000
				47	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				48	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				49	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				50	DISASM07 MODHEAD , ENTRY HOUSEKEEPING	GP99140 00390000
000000				51+	DISASM07 START 0	00070000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000000	47F0 F064	00064		52+	B MODENT-DISASM07(,R15) BRANCH AROUND	00100000
000004	17			53+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F7			54+MODHEAD	DC C'DISASM07 07/11/18 00.48'	00120000
00001C	0000000000000000			55+MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		56+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			57+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
			00000	58+	USING DISASM07,R12	00330000
			00000	59+	USING DISASM00,R11	00360000
00006A	41E0 C01C	0001C		60+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008	00008		61+	ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0 E004	00004		62+	ST R13,4(,R14) CHAIN UP	00390000
000076	18DE			63+	LR R13,R14 NEW SAVE AREA	00400000
000078	D701 B154 B154	00154 00154		64	XC COMMSUBL,COMMSUBL NO SUBHEADING	00400000
00007E	9108 B163	00163		65	TM COMMFLAG,\$ASMIN ANY ASSEMBLER INPUT?	00410000
000082	47E0 C3DA	003DA		66	BND DSCT0300 NO	00420000
000086	4120 0018	00018		67	LA R2,ASMPARML-2 SET DEFAULT LENGTH	GP99131 00430000
				68	DEVTYPE =CL8'SYSTEM',COMMDWRD OPTIONAL SYSTEM?	GP99131 00440000
00008A	4110 C5D0	005D0		69+	LA 1,=CL8'SYSTEM' LOAD PARAMETER REG 1	01900002
00008E	4100 B000	00000		70+	LA 0,COMMDWRD LOAD PARAMETER REG 0	02500002
000092	0A18			71+	SVC 24	00180000
000094	86FF C0A4	000A4		72	BXH R15,R15,SETPARM NO	GP99131 00450000
000098	BF0F B000	00000		73	ICM R0,15,COMMDWRD DD DUMMY?	GP99131 00460000
00009C	4780 C0A4	000A4		74	BZ SETPARM	GP99131 00470000
0000A0	4120 001D	0001D		75	LA R2,ASMPARTL-2 ELSE APPEND TERM OPTION	GP99131 00480000
0000A4	4020 C446	00446		76 SETPARM	STH R2,ASMPARM SET PARM LENGTH	GP99131 00490000
				77	LOAD EPLOC=IBMASM LOAD THE ASSEMBLER	GP99131 00500000
0000A8				78+	CNOP 0,4	00400002
0000A8	4100 C432	00432		79+	LA 0,IBMASM LOAD PARAMETER INTO REG 0	00800002
0000AC	1B11			80+	SR 1,1 SHOW NO DCB PRESENT	01000002
0000AE	0A08			81+	SVC 8	01200002
0000B0	5000 C43C	0043C		82	ST R0,ASMEP SAVE ASSEMBLER'S ENTRY POINT	00510000
0000B4	18F0			83	LR R15,R0 COPY TO R15	00520000
0000B6	4110 C440	00440		84	LA R1,AASMPARM ASSEMBLER PARM LIST ADDRESS	00530000
				85	ITRACE ID=CALLASM, CALLING THE ASSEMBLER	+00540000
					RDATA1=R15, .. ASSEMBLER'S ENTRY POINT	+00550000
					RDATA2=R1 .. ASSEMBLER'S PARM LIST ADDRESS	00560000
0000BA	BEFF B0E0	000E0		86+	STCM R15,15,TRDATA1	00460000
0000BE	BE1F B0E8	000E8		87+	STCM R1,15,TRDATA2	00610000
0000C2	45E0 B564	00564		88+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0000C6	C3C1D3D3C1E2D440			89+	DC CL8'CALLASM' TRACE ID	00670000
				90 *OLD*	BASSM R14,R15 LINK TO ASSEMBLER	00570000
				91 * NOTE:	BASSM WORKS, BUT SYNCH RESULTS IN FASTER INSTRUCTION TRACING	00580000
				92	AIF (&MVSA).XASYN USE NEW CODE	GP04234 00590000
				93	SYNCH (15),RESTORE=YES	GP04234 00600000
0000CE				94+	DS OH ALIGNMENT AND NAME	@ZA24619 00790003
0000CE	0700			95+	CNOP 0,4 ALIGNMENT FOR OR	@ZA24619 02810003
0000D0	47F0 C0DC	000DC		96+	B *+12 BRANCH AROUND CONSTANTS	@ZA24619 02840003
0000D4	00000001			97+	DC XL4'00000001' PARAMETER LIST CONSTANT	@ZA24619 02870003
0000D8	80			98+	DC B'10000000'	@ZA24619 02900003
0000D9	00			99+	DC B'00000000'	@ZA24619 02930003
0000DA	00			100+	DC X'00' KEY BYTE OF PARM. LIST	@ZA24619 02960003
0000DB	00			101+	DC X'00' RESERVED	@ZA24619 02990003
0000DC	41E0 C0D8	000D8		102+	LA 14,*-4 POINT REG14 TO PARMLIST	@ZA24619 03060003
0000E0	56F0 C0D4	000D4		103+	O 15,*-12 INDICATE LIST EXISTS	@ZA24619 03110003
0000E4	0A0C			104+	SVC 12 SYNCH SVC	@ZA24619 05990003

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					105	AGO	.COMSYN	GP04234 00610000
					106	.COMSYN	ITRACE ID=ASMR, RDATA1=R15	TRACE ASSEMBLER'S RETURN CODE +00630000 .. RETURN CODE 00640000
0000E6	BEFF	B0E0	000E0		107+	STCM	R15,15,TRDATA1	00460000
0000EA	45E0	B564	00564		108+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
0000EE	C1E2D4D9C3404040				109+	DC	CL8'ASMR'	TRACE ID 00670000
0000F6	40F0	C444	00444		110	STH	R15,ASMR	SAVE ASSEMBLER RETURN CODE 00650000
0000FA	4EF0	B000	00000		111	CVD	R15,COMMDWRD	CONVERT TO DECIMAL 00660000
0000FE	92F0	B70F	0070F		112	MVI	PRTCC,C'0'	DOUBLE SPACE 00670000
000102	D203	C4DB	C5E0 004DB	005E0	113	MVC	MSG01RC,=X'40202120'	SET EDIT WORD 00680000
000108	DE03	C4DB	B006 004DB	00006	114	ED	MSG01RC,COMMDWRD+6	EDIT RETURN CODE 00690000
00010E	D229	B710	C4B5 00710	004B5	115	MVC	PRTDATA(MSG01L),MSG01	SET MESSAGE 00700000
000114	45A0	C3F8	003F8		116	BAL	R10,PRT0000	PRINT RETURN CODE MESSAGE 00710000
					117	OPEN	(SYSPRINT,INPUT)	OPEN SYSPRINT AS INPUT 00720000
000118					118+	CNOP	0,4	ALIGN LIST TO FULLWORD 01740001
000118	4510	C120	00120		119+	BAL	1,*+8	LOAD REG1 W/LIST ADDR. 01780000
00011C	80				120+	DC	AL1(128)	OPTION BYTE 01900000
00011D	00056C				121+	DC	AL3(SYSPRINT)	DCB ADDRESS 01920000
000120	0A13				122+	SVC	19	ISSUE OPEN SVC 04000000
000122	D222	B1F2	C492 001F2	00492	123	MVC	COMMDBSH,ASMHEAD	SET HEADING 00730000
000128	92C8	C568	00568		124	MVI	DEBUGCMD,\$DEBUGD	SET COMMAND 00740000
00012C	4110	C564	00564		125	LA	R1,DEBUGBLOK	DEBUG PARAMETER BLOCK ADDRESS 00750000
000130	58F0	B0A0	000A0		126	L	R15,ADB	DEBUG ENTRY POINT 00760000
000134	05EF				127	BALR	R14,R15	PRINT DEBUG HEADING 00770000
000136	92D7	C568	00568		128	MVI	DEBUGCMD,\$DEBUGPRT	SET COMMAND 00780000
00013A	1B33				129	SR	R3,R3	NO DSECT IS ACTIVE 00790000
00013C					130	DSC0010	DS OH	00800000
					131	GET	SYSPRINT	READ A SYSPRINT RECORD GP99145 00810000
00013C	4110	C56C	0056C		132+	LA	1,SYSPRINT	LOAD PARAMETER REG 1 01900002
000140	58F0	1030	00030		133+	L	15,48(0,1)	LOAD GET ROUTINE ADDR 00600000
000144	05EF				134+	BALR	14,15	LINK TO GET ROUTINE 00625000
000146	1881				135	LR	R8,R1	PRESERVE THE RECORD ADDRESS GP99145 00820000
			00000		136	USING	ASMSTMT,R8	AND DECLARE IT GP99145 00830000
000148	4110	8001	00001		137	LA	R1,ASMSTMT+1	DATA ADDRESS FOR DEBUG GP99145 00840000
00014C	5010	C564	00564		138	ST	R1,DEBUGDATA	SET DATA ADDRESS GP99145 00850000
000150	4110	C564	00564		139	LA	R1,DEBUGBLOK	DEBUG PARAMETER BLOCK ADDRESS 00860000
000154	58F0	B0A0	000A0		140	L	R15,ADB	DEBUG ENTRY POINT 00870000
000158	05EF				141	BALR	R14,R15	LINK TO DEBUG 00880000
00015A	D501	C444	B158 00444	00158	142	CLC	ASMR,COMM4	ASSEMBLER ERROR? 00890000
000160	4720	C13C	0013C		143	BH	DSC0010	YES 00900000
					144	ITRACE	ID=TEMP1, DATA1=ASMLABL, DATA2=ASMDISP	+00910000 +00920000 00930000
000164	41E0	8029	00029		145+	LA	R14,ASMLABL	DATA ADDRESS 00360000
000168	D207	B0E0	E000 000E0	00000	146+	MVC	TRDATA1,0(R14)	MOVE DATA 00370000
00016E	41E0	8001	00001		147+	LA	R14,ASMDISP	DATA ADDRESS 00510000
000172	D207	B0E8	E000 000E8	00000	148+	MVC	TRDATA2,0(R14)	MOVE DATA 00530000
000178	45E0	B564	00564		149+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00017C	E3C5D4D7F1404040				150+	DC	CL8'TEMP1'	TRACE ID 00670000
000184	955C	8029	00029		151	CLI	ASMLABL,C'*	COMMENT STATEMENT? 00940000
000188	4780	C13C	0013C		152	BE	DSC0010	YES 00950000
00018C	D64F	8001	B225 00001	00225	153	OC	ASMSTMT+1(80),COMMBLKS	MAKE A LITTLE UPPER CASE GP99145 00960000
000192	D510	C465	803B 00465	0003B	154	CLC	XREF,ASMSTMT+59	HL ASM ? GP99145 00970000
000198	4780	C1A6	001A6		155	BE	DSC0018	YES; SKIP GP99145 00980000
00019C	D510	C465	802D 00465	0002D	156	CLC	XREF,ASMSTMT+45	START OF CROSS REFERENCE? GP99145 00990000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48	07/11/18
0001A2	4770	C1B6	001B6		157	BNE	DSCT0020 NO		01000000
0001A6	9680	C476	00476		158	DSCT0018 OI	XREFFLAG,\$XREF SET CROSS REFERENCE FLAG	GP99145	01010000
					159		ITRACE ID=XREF CROSS REFERENCE STARTED		01020000
0001AA	45E0	B564	00564		160+	BAL	R14,TRACE000 ENTER TRACE ROUTINE		00640000
0001AE	E7D9C5C640404040				161+	DC	CL8'XREF' TRACE ID		00670000
0001B6	9180	C476	00476		162	DSCT0020 TM	XREFFLAG,\$XREF CROSS REFERENCE FOUND?	GP99145	01030000
0001BA	4710	C13C	0013C		163	BO	DSCT0010 YES		01040000
0001BE	9540	8029	00029		164	CLI	ASMLABL,C' ' LABEL PRESENT?		01050000
0001C2	4780	C13C	0013C		165	BE	DSCT0010 NO		01060000
0001C6	DD05	8001	B868	00001	00868	166	TRT ASMDISP,HEXTRT VALID HEX DISPLACEMENT?	GP99145	01070000
0001CC	4770	C1F4	001F4		167	BNZ	EQUATEST NO; SEE WHETHER EQUATE	GP08234	01080000
0001D0	D207	C477	B225	00477	00225	168	EQUJOIN MVC WORKLABL,COMMBLKS CLEAR LABEL NAME		01090000
0001D6	4150	8029	00029		169	LA	R5,ASMLABL FIRST BYTE OF LABEL	GP99145	01100000
0001DA	DD08	8029	BA68	00029	00A68	170	TRT ASMLABL(9),BLKTRT FIND NEXT BLANK OR NON-LABEL CHAR.		01110000
0001E0	4780	C266	00266		171	BZ	DSCT0035 TOO LONG; TOO BAD	GP99145	01120000
0001E4	18F1				172	LR	R15,R1 COPY STOP ADDRESS	GP99145	01130000
0001E6	1BF5				173	SR	R15,R5 GET LENGTH - 1	GP99145	01140000
0001E8	BD21	BAA8	00AA8		174	CLM	R2,1,BLKTRT+C' ' FOUND A SYNTACTIC BLANK?	GP99145	01150000
0001EC	4780	C27C	0027C		175	BE	DSCT0040 YES; CONTINUE	GP99145	01160000
0001F0	47F0	C13C	0013C		176	B	DSCT0010 ELSE READ NEXT SYSPRINT RECORD	GP99145	01170000
					178	*	----- *		01190000
					179	*	AN EQU STATEMENT FLUNKS THE HEX DISPLACEMENT TEST.	*	01200000
					180	*	LOOK FOR HEX ADDR2 FIELD AFTER BLANKS, AND AN	*	01210000
					181	*	EQU * (OTHERS MAY BE VALID, BUT I CAN'T TEST FOR RELOCATBLE)	*	01220000
					182	*	----- *	*	01230000
0001F4	1233				183	EQUATEST	LTR R3,R3 IN A DSECT ?	GP08234	01240000
0001F6	4780	C13C	0013C		184	BZ	DSCT0010 NO; IGNORE	GP08234	01250000
0001FA	D51A	8001	8002	00001	00002	185	CLC ASMDISP(ASMADR2-1-ASMDISP),ASMDISP+1 BLANK ?	GP08234	01260000
000200	4770	C13C	0013C		186	BNE	DSCT0010 NO; IGNORE	GP08234	01270000
000204	DD04	801D	B868	0001D	00868	187	TRT ASMADR2,HEXTRT VALID ADDR2 ?	GP08234	01280000
00020A	4770	C13C	0013C		188	BNZ	DSCT0010 NO; IGNORE	GP08234	01290000
00020E	D204	8002	801D	00002	0001D	189	MVC ASMDISP+L'ASMDISP-L'ASMADR2(L'ASMADR2),ASMADR2	GP08234	01300000
000214	DD08	8029	BA68	00029	00A68	190	TRT ASMLABL(9),BLKTRT LOOK FOR BLANK AFTER LABEL	GP08234	01310000
00021A	4780	C13C	0013C		191	BZ	DSCT0010 NONE; IGNORE	GP08234	01320000
00021E	41F0	0014	00014		192	LA	R15,20 DON'T SCAN TOO MUCH MORE	GP08234	01330000
000222	D504	C5EA	1000	005EA	00000	193	EQUFEQU CLC =C' EQU ',0(R1) EQUATE STATEMENT ?	GP08234	01340000
000228	4780	C238	00238		194	BE	EQUATEST2 YES; LOOK FOR *	GP08234	01350000
00022C	4110	1001	00001		195	LA	R1,1(,R1) TRY AGAIN	GP08234	01360000
000230	46F0	C222	00222		196	BCT	R15,EQUFEQU	GP08234	01370000
000234	47F0	C13C	0013C		197	B	DSCT0010 QUIT	GP08234	01380000
000238	41F0	000A	0000A		198	EQUATEST2	LA R15,10 SCAN A FEW MORE	GP08234	01390000
00023C	4110	1005	00005		199	LA	R1,5(,R1) SKIP EQU AND BLANKS	GP08234	01400000
000240	955C	1000	00000		200	EQUFAST	CLI 0(R1),C'*' HERE ?	GP08234	01410000
000244	4780	C254	00254		201	BE	EQUHAST YES	GP08234	01420000
000248	4110	1001	00001		202	LA	R1,1(,R1) TRY AGAIN	GP08234	01430000
00024C	46F0	C240	00240		203	BCT	R15,EQUFAST	GP08234	01440000
000250	47F0	C13C	0013C		204	B	DSCT0010 QUIT	GP08234	01450000
000254	DD07	1001	C5F4	00001	005F4	205	EQUHAST TRT 1(8,R1),ABSTRTAB + OR - DIGITS ONLY ?	GP08234	01460000
00025A	BD21	C634	00634		206	CLM	R2,1,ABSTRTAB+C' ' ENDS ON BLANK/COMMA ?	GP08234	01470000
00025E	4780	C1D0	001D0		207	BE	EQUJOIN YES; USE IT	GP08234	01480000
000262	47F0	C13C	0013C		208	B	DSCT0010 ELSE IGNORE	GP08234	01490000
					210	DSCT0035	ITRACE ID=LONGLABL	GP99145	01510000
000266	45E0	B564	00564		211+	DSCT0035	BAL R14,TRACE000 ENTER TRACE ROUTINE		00640000

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00026A	D3D6D5C7D3C1C2D3				212+	DC	CL8'LONGLABL'	TRACE ID 00670000
000272	47F0 C13C		0013C		213	B	DSCT0010	READ NEXT SYSPRINT RECORD 01520000
000276	D200 C477 8029	00477	00029		215	EXMVCLBL	MVC WORKLABL(0),ASMLABL	MOVE LABEL TO WORK AREA GP99145 01540000
00027C	44F0 C276		00276		216	DSCT0040	EX R15,EXMVCLBL	MOVE LABEL GP99145 01550000
000280	DD09 1000 BB68	00000	00B68		217	TRT	O(10,R1),NBLTRT	LOOK FOR A NON-BLANK GP99145 01560000
000286	4780 C32A		0032A		218	BZ	DSCT0110	NOT FOUND; TREAT AS LABEL GP99145 01570000
00028A	D505 C5E4 1000	005E4	00000		219	CLC	=C'START ',O(R1)	START? GP99145 01580000
000290	4780 C2B6		002B6		220	BE	DSCT0070	YES 01590000
000294	D504 C5EF 1001	005EF	00001		221	CLC	=C'SECT ',1(R1)	IS THIS AN XSECT? GP99145 01600000
00029A	4770 C32A		0032A		222	BNE	DSCT0110	YES GP99145 01610000
00029E	95C3 1000		00000		223	CLI	O(R1),C'C'	CSECT? GP99145 01620000
0002A2	4780 C2B6		002B6		224	BE	DSCT0070	YES GP99145 01630000
0002A6	95C4 1000		00000		225	CLI	O(R1),C'D'	DSECT? GP99145 01640000
0002AA	4780 C2B6		002B6		226	BE	DSCT0070	YES GP99145 01650000
0002AE	95D9 1000		00000		227	CLI	O(R1),C'R'	RSECT? GP99145 01660000
0002B2	4770 C32A		0032A		228	BNE	DSCT0110	NO.. MUST BE A LABEL 01670000
0002B6					229	DSCT0070	DS OH	01680000
					230		ITRACE ID=SCANDSCT	01690000
0002B6	45E0 B564		00564		231+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
0002BA	E2C3C1D5C4E2C3E3				232+	DC	CL8'SCANDSCT'	TRACE ID 00670000
0002C2	4120 B104		00104		233	LA	R2,COMMDSCT	DSECT ANCHOR 01700000
0002C6	BF3F B104		00104		234	ICM	R3,15,COMMDSCT	FIRST DSECT BLOCK 01710000
				00000	235	USING	DSCTDSCT,R3	DEFINE BASE 01720000
0002CA	4780 C2E2		002E2		236	BZ	DSCT0090	NO DSECTS YET 01730000
0002CE					237	DSCT0080	DS OH	01740000
0002CE	D507 300C C477	0000C	00477		238	CLC	DSCTNAME,WORKLABL	ALREADY ON DSECT CHAIN? 01750000
0002D4	4780 C31A		0031A		239	BE	DSCT0100	YES.. EXIT WITH BASE SET 01760000
0002D8	1823				240	LR	R2,R3	COPY ADDRESS 01770000
0002DA	BF3F 3000		00000		241	ICM	R3,15,DSCTNEXT	NEXT DSECT BLOCK 01780000
0002DE	4770 C2CE		002CE		242	BNZ	DSCT0080	LOOP 01790000
0002E2	4100 0018		00018		243	DSCT0090	LA R0,DSCTL	GP99140 01800000
0002E6	45E0 B684		00684		244	BAL	R14,GETMAIN	ACQUIRE STORAGE FOR NEW DSECT BLK 01810000
0002EA	5010 2000		00000		245	ST	R1,DSCTNEXT-DSCTDSCT(,R2)	CHAIN NEW TO PREVIOUS BLOCK 01820000
					246		ITRACE ID=NEWDSECT,	NEW DSECT BLOCK +01830000
							RDATA1=R1,	.. BLOCK'S ADDRESS +01840000
							DATA2=WORKLABL	.. DSECT'S NAME 01850000
0002EE	BE1F B0E0		000E0		247+	STCM	R1,15,TRDATA1	00460000
0002F2	41E0 C477		00477		248+	LA	R14,WORKLABL	DATA ADDRESS 00510000
0002F6	D207 B0E8 E000	000E8	00000		249+	MVC	TRDATA2,0(R14)	MOVE DATA 00530000
0002FC	45E0 B564		00564		250+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000300	D5C5E6C4E2C5C3E3				251+	DC	CL8'NEWDSECT'	TRACE ID 00670000
000308	1831				252	LR	R3,R1	SET BASE 01860000
00030A	D207 3004 C5D8	00004	005D8		253	MVC	DSCTEYE,=CL8'DSECT '	SET BLOCK ID GP99145 01870000
					254	*OBS*	XC DSCTNEXT,DSCTNEXT	ZERO 'NEXT' BLOCK ADDRESS GP99154 01880000
000310	D207 300C C477	0000C	00477		255	MVC	DSCTNAME,WORKLABL	SET DSECT'S NAME 01890000
					256	*OBS*	XC DSCTLBA,DSCTLBA	CLEAR LABEL POINTER GP99154 01900000
000316	47F0 C13C		0013C		257	B	DSCT0010	01910000
00031A					258	DSCT0100	DS OH	01920000
					259		ITRACE ID=DUPDSECT	01930000
00031A	45E0 B564		00564		260+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00031E	C4E4D7C4E2C5C3E3				261+	DC	CL8'DUPDSECT'	TRACE ID 00670000
000326	47F0 C13C		0013C		262	B	DSCT0010	01940000
00032A					263	DSCT0110	DS OH	01950000
00032A	1233				264	LTR	R3,R3	DSECT DETERMINED YET? 01960000

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00032C	4780	C13C		0013C	265		BZ DSCT0010	NO 01970000
000330					266	DSCT0120	DS OH	01980000
000330	D206	C47F	8001	0047F	00001	267	MVC DISPIN,ASMDISP	COPY DISPLACEMENT 01990000
000336	D406	C47F	B21D	0047F	0021D	268	NC DISPIN,COMM1F1F	PREPARE FOR TRANSLATE 02000000
00033C	DC06	C47F	B285	0047F	00285	269	TR DISPIN,COMMCHHX	TRANSLATE FOR PACKING 02010000
000342	F236	C486	C47F	00486	0047F	270	PACK DISPOUT(4),DISPIN(7)	PACK DISPLACEMENT 02020000
000348	4120	3014		00014	271		LA R2,DSCTLBA	LABEL CHAIN ANCHOR 02030000
00034C	BF4F	3014		00014	272		ICM R4,15,DSCTLBA	FIRST LABEL 02040000
				00000	273		USING LABLDSCT,R4	DEFINE BASE 02050000
000350	4780	C368		00368	274		BZ DSCT0140	NO LABELS 02060000
000354					275	DSCT0130	DS OH	02070000
000354	D502	C486	4015	00486	00015	276	CLC DISPOUT(3),LABLDISP+1	INSERT HERE? 02080000
00035A	4720	C368		00368	277		BH DSCT0140	YES 02090000
00035E	1824				278		LR R2,R4	COPY ADDRESS 02100000
000360	BF4F	4000		00000	279		ICM R4,15,LABLNEXT	NEXT LABEL 02110000
000364	4770	C354		00354	280		BNZ DSCT0130	LOOP 02120000
000368	4100	0024		00024	281	DSCT0140	LA R0,LABLL	GP99140 02130000
00036C	45E0	B684		00684	282		BAL R14,GETMAIN	ACQUIRE STORAGE FOR NEW LABEL BLK 02140000
					283		ITRACE ID=NEWLABL,	NEW LABEL BLOCK +02150000
							RDATA1=R1,	.. BLOCK'S ADDRESS +02160000
							DATA2=WORKLABL	.. LABEL'S NAME 02170000
000370	BE1F	B0E0		000E0	284+		STCM R1,15,TRDATA1	00460000
000374	41E0	C477		00477	285+		LA R14,WORKLABL	DATA ADDRESS 00510000
000378	D207	B0E8	E000	000E8	00000	286+	MVC TRDATA2,0(R14)	MOVE DATA 00530000
00037E	45E0	B564		00564	287+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
000382	D5C5E6D3C1C2D340				288+		DC CL8'NEWLABL'	TRACE ID 00670000
00038A	5010	2000		00000	289		ST R1,LABLNEXT-LABLDSCT(,R2)	CHAIN PREVIOUS BLOCK TO NEW 02180000
00038E	5040	1000		00000	290		ST R4,LABLNEXT-LABLDSCT(,R1)	CHAIN NEXT BLOCK TO NEW 02190000
000392	1841				291		LR R4,R1	SET BASE 02200000
000394	D207	4004	C48A	00004	0048A	292	MVC LABLEYE,LABEL	SET BLOCK IDENTIFIER 02210000
00039A	D207	400C	C477	0000C	00477	293	MVC LABLNAME,WORKLABL	SET LABEL NAME 02220000
					294	*OBS*	MVI LABLDISP,X'00'	FORCE FIRST BYTE TO ZERO GP99154 02230000
0003A0	D202	4015	C486	00015	00486	295	MVC LABLDISP+1(3),DISPOUT	SET DISPLACEMENT TO LABEL 02240000
0003A6	92C4	4021		00021	296		MVI LABLTYPE,\$LABLD	DATA TYPE LABEL 02250000
0003AA	92C1	4022		00022	297		MVI LABLSRCE,C'A'	SHOW FROM ASSEMBLER GP99142 02260000
0003AE	47F0	C13C		0013C	298		B DSCT0010	02270000
0003B2					299	DSCT0200	DS OH	02280000
0003B2	D501	C444	B158	00444	00158	300	CLC ASMRC,COMM4	ERROR DURING ASSEMBLY? 02290000
0003B8	47D0	C3FE		003FE	301		BNH EXIT0000	NO 02300000
					302		ITRACE ID=ASMERROR	02310000
0003BC	45E0	B564		00564	303+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
0003C0	C1E2D4C5D9D9D6D9				304+		DC CL8'ASMERROR'	TRACE ID 00670000
0003C8	96C0	B163		00163	305		OI COMMFLAG,\$ERROR+\$ABORT	02320000
0003CC	D246	B710	C51B	00710	0051B	306	MVC PRTDATA(EMSG01L),EMSG01	02330000
0003D2	45A0	C3F8		003F8	307		BAL R10,PRT0000	PRINT MESSAGE 02340000
0003D6	47F0	C3FE		003FE	308		B EXIT0000	AND EXIT 02350000
0003DA					309	DSCT0300	DS OH	02360000
					310		ITRACE ID=NOASMIN	02370000
0003DA	45E0	B564		00564	311+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
0003DE	D5D6C1E2D4C9D540				312+		DC CL8'NOASMIN'	TRACE ID 00670000
0003E6	92F0	B70F		0070F	313		MVI PRTCC,C'0'	DOUBLE SPACE 02380000
0003EA	D23B	B710	C4DF	00710	004DF	314	MVC PRTDATA(MSG99L),MSG99	SET MESSAGE 02390000
0003F0	45A0	C3F8		003F8	315		BAL R10,PRT0000	PRINT MESSAGE 02400000
0003F4	47F0	C3FE		003FE	316		B EXIT0000	AND EXIT 02410000

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0003F8	45E0 B6EC	006EC		318	PRT0000	BAL R14,PRINTREC	GP99138 02430000
0003FC	07FA			319		BR R10 RETURN	02440000
0003FE				320	EXIT0000	DS OH	02450000
0003FE	D603 C43C C43C	0043C 0043C		321		OC ASMEP,ASMEP ASSEMBLER LOADED?	02460000
000404	4780 C41A	0041A		322		BZ EXIT0010 NO	02470000
				323		ITRACE ID=DELASM DELETE ASSEMBLER	02480000
000408	45E0 B564	00564		324+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00040C	C4C5D3C1E2D44040			325+		DC CL8'DELASM' TRACE ID	00670000
				326		DELETE EPLOC=IBMASM GP99132 02490000	
000414	4100 C432	00432		327+		LA 0,IBMASM LOAD PARAMETER REG 0	02500002
000418	0A09			328+		SVC 9 ISSUE DELETE SVC	33000000
00041A				329	EXIT0010	DS OH	02500000
				330		ITRACE ID=EXIT	02510000
00041A	45E0 B564	00564		331+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00041E	C5E7C9E340404040			332+		DC CL8'EXIT' TRACE ID	00670000
000426	58D0 D004	00004		333		L R13,4(,R13) RESTORE REGISTER 13	02520000
00042A	98EC D00C	0000C		334		LM R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	02530000
00042E	1BFF			335		SR R15,R15 GIVE GOOD RETURN CODE	02540000
000430	07FE			336		BR R14 RETURN TO CALLER	02550000
				337	*-----*		02560000
				338	*		02570000
				339	*	WORK AREAS	02580000
				340	*		02590000
				341	*-----*		02600000
				342		AIF (&MVSXA).NEWASM GP04234 02610000	
000432	C9C6D6E7F0F04040			343	IBMASM	DC CL8'IF0X00' XF ASM; WAS IEV90 GP04234 02620000	
				344		AGO .COMASM GP04234 02630000	
				345	.COMASM	ANOP , GP04234 02660000	
00043A	0000			346	ASMEP	DC A(0) ASSEMBLER'S ENTRY POINT	02670000
00043C	00000000			347	AASMPARM	DC A(ASMPARM+X'80000000') ASSEMBLER PARMS	02680000
000440	80000446			348	ASMRC	DC H'0' ASSEMBLER'S RETURN CODE	02690000
000444	0000			349	ASMPARM	DC AL2(ASMPARML-2)	02700000
000446	0018			350		DC C'DECK'	02710000
000448	C4C5C3D2			351		DC C',NOOBJECT'	02720000
00044C	6BD5D6D6C2D1C5C3			352		DC C',XREF(FULL)'	GP03062 02730000
000455	6BE7D9C5C64DC6E4			353	ASMPARML	EQU *-ASMPARM	02740000
000460	6BE3C5D9D4		0001A	354		DC C',TERM' OPTIONAL SYSTEM DD GP99131 02750000	
			0001F	355	ASMPARTL	EQU *-ASMPARM GP99131 02760000	
000465	40C3D9D6E2E240D9			356	XREF	DC C' CROSS REFERENCE '	02770000
000476	00			357	XREFFLAG	DC X'00' CROSS REFERENCE FLAG	02780000
			00080	358	\$XREF	EQU X'80' .. CROSS REFERENCE HAS BEEN FOUND	02790000
000477	4040404040404040			359	WORKLABL	DC CL8' '	02800000
00047F	4040404040404040			360	DISPIN	DC CL7' '	02810000
000486	00000000			361	DISPOUT	DC XL4'000000'	02820000
00048A	D3C1C2C5D3404040			362	LABEL	DC CL8'LABEL'	02830000
000492	C1E2E2C5D4C2D3C5			363	ASMHEAD	DC CL35'ASSEMBLER OUTPUT'	02840000
0004B5	C4C9E2C1E2D4F0F7			364	MSG01	DC C'DISASM0701I ASSEMBLER RETURN CODE WAS '	02850000
0004DB	40404040			365	MSG01RC	DC CL04' '	02860000
			0002A	366	MSG01L	EQU *-MSG01	02870000
0004DF	C4C9E2C1E2D4F0F7			367	MSG99	DC C'DISASM0702I NO OPTIONAL ASSEMBLER INPUT, NO DSECTS AVA'	02880000
0004E7	F0F2C940D5D640D6					ILABLE' GP10060 02890000	
			0003C	368	MSG99L	EQU *-MSG99	02900000
00051B	C4C9E2C1E2D4F0F7			369	EMSG01	DC C'DISASM0703E ERROR ASSEMBLING DSECTS, CHECK ASSEMBLER O+	02910000
000523	F0F3C540C5D9D9D6					UTPUT IN DISDEBUG'	02920000

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			00047	370	EMSG01L EQU *-EMSG01	02930000
				372	*-----*	02950000
				373	*	* 02960000
				374	* DEBUG MODULE INTERFACE BLOCK	* 02970000
				375	*	* 02980000
				376	*-----*	* 02990000
				377	DEBUGBLOK DEBUGBLOK TYPE=CSECT	03000000
000564				378+	DEBUGBLOK DS OA	00090000
000564	00000000			379+	DEBUGDATA DC A(0) DEBUG DATA ADDRESS	00150000
000568	40			380+	DEBUGCMD DC C' ' COMMAND	00160000
		00040		381+	\$DEBUG EQU C' ' .. NORMAL DEBUG	00170000
		000C8		382+	\$DEBUGHD EQU C'H' .. PRINT SUB-HEADING	00180000
		000D7		383+	\$DEBUGPRT EQU C'P' .. PRINT	00190000
				384	*-----*	* 03010000
				385	*	* 03020000
				386	* ASSEMBLER OUTPUT DCB	* 03030000
				387	*	* 03040000
				388	*-----*	* 03050000
				389	SYSPRINT DCB DDNAME=SYSPRINT,	+03060000
					DSORG=PS,	+03070000
					EODAD=DSCT0200,	+03080000
					MACRF=GL (WAS MOVE MODE!)	GP99145 03090000
				391+	* DATA CONTROL BLOCK	22770000
				392+	*	22860000
000569	000000			393+	SYSPRINT DC OF'0' ORIGIN ON WORD BOUNDARY	22914000
00056C				395+	* DIRECT ACCESS DEVICE INTERFACE	27360000
00056C	0000000000000000			397+	DC BL16'0' FDAD,DVTBL	27540000
00057C	00000000			398+	DC A(0) KEYLE,DEVT,TRBAL	27720000
				400+	* COMMON ACCESS METHOD INTERFACE	48690000
000580	00			402+	DC AL1(0) BUFNO	49050000
000581	000001			403+	DC AL3(1) BUFCB	54720000
000584	0000			404+	DC AL2(0) BUFL	55170000
000586	4000			405+	DC BL2'0100000000000000'	*55800000
				+	DSORG	55890000
000588	00000001			406+	DC A(1) IOBAD	56340000
				408+	* FOUNDATION EXTENSION	56610000
00058C	00			410+	DC BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
00058D	0003B2			411+	DC AL3(DSCT0200) EODAD	65970000
000590	00			412+	DC BL1'00000000'	*66150000
				+	RECFM	66240000
000591	000000			413+	DC AL3(0) EXLST	66330000
				415+	* FOUNDATION BLOCK	66690000
000594	E2E8E2D7D9C9D5E3			417+	DC CL8'SYSPRINT' DDNAME	66870000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00059C	02			418+	DC	BL1'00000010'	OFLGS 68220000
00059D	00			419+	DC	BL1'00000000'	IFLG 68310000
00059E	4800			420+	DC	BL2'0100100000000000'	*68400000
				+			*68490000
				+		MACR	68580000
				422+*		BSAM-BPAM-QSAM INTERFACE	74430000
0005A0	00			424+	DC	BL1'00000000'	*74610000
				+			RER1 74700000
0005A1	000001			425+	DC	AL3(1)	CHECK, GERR, PERR 74790000
0005A4	00000001			426+	DC	A(1)	SYNAD 74880000
0005A8	0000			427+	DC	H'0'	CIND1, CIND2 74970000
0005AA	0000			428+	DC	AL2(0)	BLKSIZE 75240000
0005AC	00000000			429+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW 75870000
0005B0	00000001			430+	DC	A(1)	IOBA 75960000
0005B4	00			431+	DC	AL1(0)	NCP 76050000
0005B5	000001			432+	DC	AL3(1)	EOBR, EOBA 76140000
				434+*		QSAM INTERFACE	81450000
0005B8	00000001			436+	DC	A(1)	RECAD 81630000
0005BC	0000			437+	DC	H'0'	QSW 81810000
0005BE	0000			438+	DC	AL2(0)	LRECL 80730000
0005C0	00			439+	DC	BL1'00000000'	EROPT 82530000
0005C1	000001			440+	DC	AL3(1)	CNTRL 82620000
0005C4	00000000			441+	DC	F'0'	PRECL 82710000
0005C8	00000001			442+	DC	A(1)	EOB 82800000
0005D0				444		LTORG	03110000
0005D0	E2E8E2E3C5D9D440			445		=CL8'SYSTEM'	
0005D8	C4E2C5C3E3404040			446		=CL8'DSECT '	
0005E0	40202120			447		=X'40202120'	
0005E4	E2E3C1D9E340			448		=C'START '	
0005EA	40C5D8E440			449		=C' EQU '	
0005EF	E2C5C3E340			450		=C'SECT '	
0005F4	0808080808080808			452	ABSTRTAB	DC 256AL1(8)	FAIL EVERYTHING GP08234 03130000
0006F4		00634		453	ORG	ABSTRTAB+C' ' SPACE IS EXPECTED STOPPER	GP08234 03140000
000634	04			454	DC	AL1(4)	GP08234 03150000
000635		0065F		455	ORG	ABSTRTAB+C', ' COMMA IS EXPECTED STOPPER	GP08234 03160000
00065F	04			456	DC	AL1(4)	GP08234 03170000
000660		006E4		457	ORG	ABSTRTAB+C'0' DIGITS ARE ACCEPTABLE	GP08234 03180000
0006E4	0000000000000000			458	DC	10AL1(0)	GP08234 03190000
0006EE		006F4		459	ORG	,	GP08234 03200000
000000				461	ASMSTMT	DSECT ,	MAP ASSEMBLER OUTPUT RECORD GP99145 03220000
000000				462	DS	C	CARRIAGE CONTROL GP99145 03230000
000001				463	ASMDISP	DS CL6	GP99145 03240000
000007		0001D		464	ORG	ASMSTMT+29	GP08234 03250000
00001D				465	ASMADR2	DS CL5	ASM X/F - EQU VALUE GP08234 03260000
000022		00029		466	ORG	ASMSTMT+41	GP99145 03270000
000029				467	ASMLABL	DS CL8	GP99145 03280000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				469	COPY DISASMDA	03300000
				470	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				471	PRINT OFF	00020000
				682	PRINT ON	02130000
				683	.DA020 ANOP	02140000
				684	*-----*	03310000
				685	*	* 03320000
				686	* COMMON DATA MAP	* 03330000
				687	*	* 03340000
				688	*-----*	* 03350000
				689	DISASM00 DISASMCM TYPE=DSECT	03360000
				690+	PRINT OFF	00280000
				1321+	PRINT ON	06440000
				1322+	*-----*	* 06460000
				1323+	*	* 06470000
				1324+	* ABEND REASON CODES	* 06480000
				1325+	*	* 06490000
				1326+	*-----*	* 06500000
	00001	1327+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1328+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1329+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1330+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1331+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1334+R0	EQU	0		00070000
	00001	1335+R1	EQU	1		00080000
	00002	1336+R2	EQU	2		00090000
	00003	1337+R3	EQU	3		00100000
	00004	1338+R4	EQU	4		00110000
	00005	1339+R5	EQU	5		00120000
	00006	1340+R6	EQU	6		00130000
	00007	1341+R7	EQU	7		00140000
	00008	1342+R8	EQU	8		00150000
	00009	1343+R9	EQU	9		00160000
	0000A	1344+R10	EQU	10		00170000
	0000B	1345+R11	EQU	11		00180000
	0000C	1346+R12	EQU	12		00190000
	0000D	1347+R13	EQU	13		00200000
	0000E	1348+R14	EQU	14		00210000
	0000F	1349+R15	EQU	15		00220000
000000				1351	END DISASM07	03370000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	08	00011D
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0001	0001	0C	000440
0001	0001	00	000505

0001	0001	08	00058D
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SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$ABORT	00001	00000080	00803	00305	
\$ASMIN	00001	00000008	00807	00065	
\$DEBUGHD	00001	000000C8	00382	00124	
\$DEBUGPRT	00001	000000D7	00383	00128	
\$ERROR	00001	00000040	00804	00305	
\$LABLD	00001	000000C4	00583	00296	
\$OPMASK	00001	00000001	01316	00972	
\$PFTRC	00001	00000001	00824	01059 01061	
\$PRTPRT	00001	000000D7	01183	01169 01190	
\$PRTSUBH	00001	000000E2	01182	01065	
\$XREF	00001	00000080	00358	00158 00162	
AASMPARM	00004	00000440	00347	00084	
ABSTRTAB	00001	000005F4	00452	00205 00206 00453 00455 00457	
ADB	00004	000000A0	00728	00126 00140	
AOP	00004	000000AC	00730	00953	
APR	00004	000000B8	00732	01172	
APU	00004	000000BC	00733	01193	
ASMADR2	00005	0000001D	00465	00185 00187 00189 00189 00189	
ASMDISP	00006	00000001	00463	00147 00166 00185 00185 00185 00189 00189 00267	
ASMEP	00004	0000043C	00346	00082 00321 00321	
ASMHEAD	00035	00000492	00363	00123	
ASMLABL	00008	00000029	00467	00145 00151 00164 00169 00170 00190 00215	
ASMPARM	00002	00000446	00349	00076 00347 00353 00355	
ASMPARML	00001	0000001A	00353	00067 00349	
ASMPARTL	00001	0000001F	00355	00075	
ASMRC	00002	00000444	00348	00110 00142 00300	
ASMSTMT	00001	00000000	00461	00136 00137 00153 00154 00156 00464 00466	
BASEDSCT	00001	00000000	00489	00497	
BLKTRT	00001	00000A68	01230	00170 00174 00190 01231 01233 01235 01237 01239 01241 01243 01245 01247 01249 01251 01253 01255	
COMMBLKS	00001	00000225	00848	00153 00168	
COMMCHHX	00016	00000285	00851	00269	
COMMCLR	00004	000000F8	00759	00779 00783	
COMMDBSH	00035	000001F2	00845	00123	
COMMDSCT	00004	00000104	00763	00233 00234	
COMMDWRD	00008	00000000	00697	00070 00073 00111 00114 01084 01085	
COMMFILL	00001	00000161	00800	01129	
COMMFLAG	00001	00000163	00802	00065 00305	
COMMHXCH	00016	00000275	00849	00850	
COMMHXTR	00016	00000185	00850	01076 01079 01082 01086	
COMMH4	00002	00000158	00796	00142 00300	
COMMNPR	00001	000003C7	00905	00906 00908 00910 00912 00914 00916 00918 00920 00922 00924 00926 00928 00930	
COMMPPOOL	00001	00000162	00801	01121 01136	
COMMPRT	00001	000002C7	00876	00877 00879 00881 00883 00885 00887 00889 00891 00893 00895 00897 00899	
COMMSUBH	00133	0000016D	00844	01062	
COMMSUBL	00002	00000154	00794	00064 00064 01063 01063 01064	
COMM1F1F	00001	0000021D	00847	00268	
DATADSCT	00001	00000000	00504	00525	
DEBUGBLOK	00004	00000564	00378	00125 00139	
DEBUGCMD	00001	00000568	00380	00124 00128	
DEBUGDATA	00004	00000564	00379	00138	
DISASM00	00001	00000000	00691	00059 00704 00943 01020 01057 01118 01154	
DISASM07	00001	00000000	00051	00052 00058 01351	
DISPIN	00007	0000047F	00360	00267 00268 00269 00270	
DISPOUT	00004	00000486	00361	00270 00276 00295	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
DSCTDSCT	00001	00000000	00532	00235 00245 00538															
DSCTEYE	00008	00000004	00534	00253															
DSCTL	00001	00000018	00538	00243															
DSCTLBA	00004	00000014	00536	00271 00272															
DSCNAME	00008	0000000C	00535	00238 00255															
DSCNEX	00004	00000000	00533	00241 00245															
DSCT0010	00002	0000013C	00130	00143 00152 00163 00165 00176 00184 00186 00188 00191 00197 00204 00208 00213 00257 00262															
				00265 00298															
DSCT0018	00004	000001A6	00158	00155															
DSCT0020	00004	000001B6	00162	00157															
DSCT0035	00004	00000266	00211	00171															
DSCT0040	00004	0000027C	00216	00175															
DSCT0070	00002	000002B6	00229	00220 00224 00226															
DSCT0080	00002	000002CE	00237	00242															
DSCT0090	00004	000002E2	00243	00236															
DSCT0100	00002	0000031A	00258	00239															
DSCT0110	00002	0000032A	00263	00218 00222 00228															
DSCT0130	00002	00000354	00275	00280															
DSCT0140	00004	00000368	00281	00274 00277															
DSCT0200	00002	000003B2	00299	00411															
DSCT0300	00002	000003DA	00309	00066															
EMSG01	00071	0000051B	00369	00306 00370															
EMSG01L	00001	00000047	00370	00306															
EQUFAST	00004	00000240	00200	00203															
EQUFEQU	00006	00000222	00193	00196															
EQUHAST	00006	00000254	00205	00201															
EQUJOIN	00006	000001D0	00168	00207															
EQUTEST	00002	000001F4	00183	00167															
EQUTEST2	00004	00000238	00198	00194															
ESDDATA	00001	00000000	00545	00568															
ESDNAME	00008	0000000E	00549	00564															
EXGETOPC	00006	00000554	00984	00977															
EXIT0000	00002	000003FE	00320	00301 00308 00316															
EXIT0010	00002	0000041A	00329	00322															
EXMVCLBL	00006	00000276	00215	00216															
GETMAIN	00004	00000684	01119	00244 00282															
GETOPEXT	00004	00000546	00980	00973															
GETOPLN	00001	0000055A	00985	00951															
GETOPNOT	00004	0000054E	00982	00956 00966 00971 00979															
GETOPTMK	00004	00000526	00972	00957															
GETOPWRK	00006	0000055E	00986	00976 00976 00978 00984															
HEXTRT	00001	00000868	01212	00166 00187 01213 01215 01217 01219 01221															
IBMASM	00008	00000432	00343	00079 00327															
INTTRT	00001	00000968	01223	01224 01226 01228															
LABEL	00008	0000048A	00362	00292															
LABLDISP	00004	00000014	00579	00276 00295															
LABLDSCT	00001	00000000	00575	00273 00289 00290 00591															
LABLEYE	00008	00000004	00577	00292															
LABLL	00001	00000024	00591	00281															
LABLNAME	00008	0000000C	00578	00293															
LABLNEXT	00004	00000000	00576	00279 00289 00290															
LABLSRCE	00001	00000022	00588	00297															
LABLTYPE	00001	00000021	00582	00296															
MAINRSV	00004	00000858	01210	01119 01125 01127 01131 01134 01140															
MODENT	00004	00000064	00056	00052															

DA07				CROSS-REFERENCE												PAGE 15			
SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 00.48 07/11/18			
MODHEAD	00023	00000005	00054	00053															
MODSAVE	00004	0000001C	00055	00060															
MSG01	00038	000004B5	00364	00115	00366														
MSG01L	00001	0000002A	00366	00115															
MSG01RC	00004	000004DB	00365	00113	00114														
MSG99	00060	000004DF	00367	00314	00368														
MSG99L	00001	0000003C	00368	00314															
NBLTRT	00001	00000B68	01257	00217	01258	01260													
OPDSECT	00001	00000000	01279	00954	01317														
OPFLAGS	00001	00000007	01308	00972															
OPFLAG1	00001	00000001	01281	00961															
OPFLAG2	00001	00000002	01282	00963															
OPFLAG3	00001	00000003	01283	00965															
OPMASK	00006	00000008	01318	00978															
OPMNEM	00006	00000000	01280	01281	01282	01283													
PRINTDAT	00004	000006F0	01170	01066															
PRINTFG1	00001	00000165	00817	01059	01061														
PRINTMVR	00006	000006E6	01167	01164															
PRINTREC	00004	000006EC	01169	00318	01088	01166													
PRINTREX	00004	000006FE	01174	01158															
PRINTRSV	00004	00000848	01209	01155	01165	01170	01174	01191	01195										
PRTBLOK	00001	0000070E	01179	01171															
PRTCC	00001	0000070F	01186	00112	00313	01175													
PRTCMD	00001	0000070E	01180	01065	01169	01190													
PRTDATA	00132	00000710	01187	00115	00306	00314	01073	01074	01075	01076	01077	01078	01079	01080	01081	01082	01083	01085	
				01086	01087	01159	01167	01176	01176										
PRT0000	00004	000003F8	00318	00116	00307	00315													
PUNBLOK	00001	000007B2	01198	01192															
PUNDATA	00080	000007B4	01204	01189															
REFDSCT	00001	00000000	00598	00608															
RLDDATA	00001	00000000	00615	00633															
R0	00001	00000000	01334	00073	00082	00083	00243	00281	00944	00950	00950	00951	00974	01022	01041	01058	01097	01121	
				01126	01130	01136	01159	01160	01162	01165									
R1	00001	00000001	01335	00084	00087	00125	00135	00137	00138	00139	00172	00193	00195	00195	00199	00199	00200	00202	
				00202	00205	00217	00219	00221	00223	00225	00227	00245	00247	00252	00284	00289	00290	00291	
				00946	00960	00980	00982	00984	01021	01023	01027	01027	01028	01030	01032	01119	01125	01126	
				01127	01131	01155	01157	01167	01170	01171	01174	01189	01191	01192	01195				
R10	00001	0000000A	01344	00116	00307	00315	00319												
R11	00001	0000000B	01345	00059	00943	01020	01057	01118	01154										
R12	00001	0000000C	01346	00056	00057	00058	00334	01034											
R13	00001	0000000D	01347	00056	00061	00062	00063	00333	00333	00334									
R14	00001	0000000E	01348	00056	00060	00061	00062	00063	00088	00108	00127	00141	00145	00146	00147	00148	00149	00160	
				00211	00231	00244	00248	00249	00250	00260	00282	00285	00286	00287	00303	00311	00318	00324	
				00331	00334	00336	00947	00948	00949	00951	00958	00958	00960	00962	00964	00965	00967	00967	
				00968	00969	00980	00981	00983	01035	01042	01066	01088	01098	01119	01130	01131	01132	01134	
				01140	01141	01155	01165	01170	01173	01174	01177	01191	01194	01195	01196				
R15	00001	0000000F	01349	00052	00057	00072	00072	00083	00086	00107	00110	00111	00126	00127	00140	00141	00172	00173	
				00192	00196	00198	00203	00216	00335	00335	00944	00945	00945	00946	00948	00952	00953	00954	
				00955	00955	00969	00970	00970	00982	01022	01041	01058	01097	01128	01128	01129	01134	01140	
				01156	01156	01157	01160	01162	01163	01164	01172	01173	01193	01194					
R2	00001	00000002	01336	00067	00075	00076	00174	00206	00233	00240	00245	00271	00278	00289	00959	00959	00961	00962	
				00963	00964														
R3	00001	00000003	01337	00129	00129	00183	00183	00234	00235	00240	00241	00252	00264	00264					
R4	00001	00000004	01338	00272	00273	00278	00279	00290	00291	00974	00975	00977							
R5	00001	00000005	01339	00169	00173	01067	01070	01090	01090	01091	01093	01095							

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
R8	00001	00000008	01342	00135 00136	
SETPARM	00004	000000A4	00076	00072 00074	
SYMDATA	00001	00000000	00640	00645	
SYSPRINT	00004	0000056C	00393	00121 00132	
TPODA1A	00008	00000017	01102	01075 01075 01076 01076 01077 01077	
TPODA1B	00008	00000020	01103	01078 01078 01079 01079 01080 01080	
TPODA2A	00008	0000002A	01104	01081 01081 01082 01082 01083 01083	
TPODA2B	00008	00000033	01105	01085 01085 01086 01086 01087 01087	
TPOMOD	00008	00000003	01100	01073 01073	
TPOTID	00008	0000000D	01101	01074 01074	
TRACEPEN	00004	00000662	01097	01060 01069 01092	
TRACEPIN	00004	00000646	01090	01068 01072	
TRACEPPR	00004	000005E2	01071	01094 01096	
TRACESHD	00027	00000668	01106	01062 01062 01063	
TRACE000	00002	00000564	01019	00088 00108 00149 00160 00211 00231 00250 00260 00287 00303 00311 00324 00331	
TRACE010	00002	00000580	01031	01029	
TRACE020	00002	000005A8	01040	01024	
TRCESAVE	00004	00000808	01208	00944 00980 00982 01022 01041 01058 01097	
TRCURR	00004	000000D4	00745	01023 01032 01067 01091	
TRDATA1	00008	000000E0	00748	00086 00107 00146 00247 00284 01036 01038 01038	
TRDATA2	00008	000000E8	00749	00087 00148 00249 00286 01037 01039 01039	
TREDATA1	00008	00000010	01270	01036 01075 01078	
TREDATA2	00008	00000018	01271	01037 01081 01084	
TREID	00008	00000008	01269	01035 01074	
TREMOD	00008	00000000	01268	01034 01071 01073	
TRENTY	00001	00000000	01267	01021 01070 01089 01089 01272	
TRENTYRL	00001	00000020	01272	01027 01089 01090	
TRLAST	00004	000000CC	00743	01028 01093	
TR1ST	00004	000000C4	00741	01030 01095	
USNGDSCT	00001	00000000	00652	00666	
VERPSECT	00001	00000000	00673	00679	
WORKLABL	00008	00000477	00359	00168 00215 00238 00248 00255 00285 00293	
XREF	00017	00000465	00356	00154 00156	
XREFFLAG	00001	00000476	00357	00158 00162	

[illegible]

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 337

TOTAL RECORDS READ FROM SYSTEM LIBRARY 5385

TOTAL RECORDS PUNCHED 39

TOTAL RECORDS PRINTED 798

ASM 0201 00.48 07/11/18

```
DISASM08  SD  0001 000000 00114F
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----	* 00030000
				3 *		* 00040000
				4 *	MODULE NAME: DISASM08	* 00050000
				5 *		* 00060000
				6 *	FUNCTION:	* 00070000
				7 *	1) CHAIN THE USING BLOCKS TO THE DSECT BLOCKS THEY REFER TO.	* 00080000
				8 *	2) SCAN THE OBJECT CODE AND	* 00090000
				9 *	A. DETERMINE THE DISPLACEMENTS WHERE VALID INSTRUCTIONS	* 00100000
				10 *	OCCUR.	* 00110000
				11 *	B. ADD DATA BLOCKS TO REPRESENT ANY AREAS THAT DO NOT	* 00120000
				12 *	CONTAIN VALID INSTRUCTIONS AND ARE NOT ALREADY DEFINED	* 00130000
				13 *	BY DATA BLOCKS.	* 00140000
				14 *	3) VERIFY THAT ALL BASE AND USINGs REFERENCE DISPLACEMENTS WHERE	* 00150000
				15 *	A VALID INSTRUCTION OCCURS. THIS IS BECAUSE A USING OR DROP	* 00160000
				16 *	STATEMENT CANNOT BE GENERATED IN THE MIDDLE OF AN INSTRUCTION.	* 00170000
				17 *	4) GENERATE LABEL BLOCKS FOR ENTRY POINTS THAT OCCUR WITHIN THE	* 00180000
				18 *	CSECT. THIS INFO COMES FROM THE ESD BLOCKS BUILT BY MODULE	* 00190000
				19 *	DISASM04.	* 00200000
				20 *	5) GENERATE LABEL BLOCKS FOR THE POINTS REFERENCED BY ADCONS.	* 00210000
				21 *	THIS INFO COMES FROM THE RLD BLOCKS BUILT BY MODULE DISASM05.	* 00220000
				22 *	6) SCAN THE OBJECT CODE AND GENERATE THE REF BLOCKS FOR DATA	* 00230000
				23 *	REFERENCES.	* 00240000
				24 *		* 00250000
				25 *	THE ORIGINAL CODE CHANGED THE END OF USING/BASE BLOCKS TO THE	* 00260000
				26 *	BEGINNING OF A VALID INSTRUCTION. IF THE RANGE COVERS A SINGLE	* 00270000
				27 *	INSTRUCTION, THIS FAILS BECAUSE DA09 DOES NOT GENERATE A USING,	* 00280000
				28 *	BUT ONLY A DROP. THE NEW CODE SETS THE END ADDRESS TO THE NEXT	* 00290000
				29 *	INSTRUCTION. BASE/USING ADDRESS TESTS WERE CHANGED TO MATCH. GP	* 00300000
				30 *		* 00310000
				31 *	REGISTER R10 WAS CHANGED TO R14 TO FREE A BASE REGISTER FOR	* 00320000
				32 *	FIXES IN LOGIC (BAD OVERLAP PROCESSING) GP10081	00330000
				33 *		* 00340000
				34 *	-----	* 00350000
				35	COPY DISASMGB	00360000
				36 *	-----	* 00010000
				37 *		* 00020000
				38 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				39 *		* 00040000
				40 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				41 *		* 00060000
				42 *	-----	* 00070000
				43	GBLA &TRNBRG,&MAXL,&MINL	00080000
				44	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				45	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				46	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				47 DISASM08	MODHEAD BASE=(R12,R10) HOUSEKEEPING GP10081	00370000
000000				48+DISASM08	START 0	00070000
000000	47F0 F064	00064		49+	B MODENT-DISASM08(,R15) BRANCH AROUND	00100000
000004	17			50+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F8			51+MODHEAD	DC C'DISASM08 07/11/18 00.48'	00120000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00001C	0000000000000000			52+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		53+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			54+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
00006A	41A0 0800	00800		55+	LA R10,2048	00240000
00006E	41AA C800	00800		56+	LA R10,2048(R10,R12)	00290000
			00000	57+	USING DISASM08,R12,R10	00330000
			00000	58+	USING DISASM00,R11	00360000
000072	41E0 C01C	0001C		59+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
000076	50E0 D008	00008		60+	ST R14,8(,R13) CHAIN DOWN	00380000
00007A	50D0 E004	00004		61+	ST R13,4(,R14) CHAIN UP	00390000
00007E	18DE			62+	LR R13,R14 NEW SAVE AREA	00400000
				63	ITRACE ID=ENTRY	00380000
000080	45E0 B564	00564		64+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000084	C5D5E3D9E8404040			65+	DC CL8'ENTRY' TRACE ID	00670000
				67 *	----- *	00400000
				68 *	CHAIN USING BLOCKS TO THEIR RELATED DSECT BLOCKS	* 00410000
				69 *	----- *	* 00420000
00008C	4130 B100	00100		70	LA R3,COMMUSNG FIRST USING BLOCK'S ADDRESS GP99155	00430000
			00000	71	USING USNGDSCT,R3 DEFINE BASE	00440000
000090	BF3F 3000	00000		72	LABL0010 ICM R3,15,USNGNEXT NEXT USING BLOCK GP99155	00450000
000094	4780 C154	00154		73	BZ LABL0090 END OF CHAIN GP99155	00460000
				74	ITRACE ID=FINDDSCT, STARTING SEARCH FOR A DSECT ENTRY +	00470000
					DATA1=USNGDSNM .. DSECT'S NAME	00480000
000098	41E0 300C	0000C		75+	LA R14,USNGDSNM DATA ADDRESS	00360000
00009C	D207 B0E0 E000	000E0	00000	76+	MVC TRDATA1,0(R14) MOVE DATA	00370000
0000A2	45E0 B564	00564		77+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0000A6	C6C9D5C4C4E2C3E3			78+	DC CL8'FINDDSCT' TRACE ID	00670000
0000AE	4120 B104	00104		79	LA R2,COMMDSCT FIRST DSECT ENTRY GP99155	00490000
			00000	80	USING DSCTDSCT,R2 DEFINE BASE	00500000
0000B2	BF2F 2000	00000		82	LABL0020 ICM R2,15,DSCTNEXT NEXT DSECT BLOCK GP99155	00520000
0000B6	4780 CBDA	00BDA		83	BZ ERR0010 DSECT NOT FOUND	00530000
				84	ITRACE ID=TESTDSCT, CHECKING A DSECT ENTRY +	00540000
					DATA1=DSCTNAME .. DSECT'S NAME	00550000
0000BA	41E0 200C	0000C		85+	LA R14,DSCTNAME DATA ADDRESS	00360000
0000BE	D207 B0E0 E000	000E0	00000	86+	MVC TRDATA1,0(R14) MOVE DATA	00370000
0000C4	45E0 B564	00564		87+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0000C8	E3C5E2E3C4E2C3E3			88+	DC CL8'TESTDSCT' TRACE ID	00670000
0000D0	D507 300C 200C	0000C	0000C	89	CLC USNGDSNM,DSCTNAME DSECT FOUND?	00560000
0000D6	4770 C0B2	000B2		90	BNE LABL0020 NO; TRY AGAIN GP99155	00570000
				91	ITRACE ID=DSCTFND, DSECT ENTRY HAS BEEN FOUND +	00580000
					RDATA1=R2 .. DSECT BLOCK'S ADDRESS	00590000
0000DA	BE2F B0E0	000E0		92+	STCM R2,15,TRDATA1	00460000
0000DE	45E0 B564	00564		93+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0000E2	C4E2C3E3C6D5C440			94+	DC CL8'DSCTFND' TRACE ID	00670000
0000EA	5020 301C	0001C		95	ST R2,USNGDSA CHAIN DSECT BLOCK TO USING BLOCK	00600000
0000EE	D507 3014 B225	00014	00225	96	CLC USNGLBNM,COMMBLKS LABEL BLANK?	00610000
0000F4	4780 C13E	0013E		97	BE LABL0070 YES	00620000
0000F8	4190 2014	00014		98	LA R9,DSCTLBA FIRST LABEL IN THE DSECT GP99155	00630000
			00000	99	USING LABLDSCT,R9 DEFINE BASE	00640000
0000FC	BF9F 9000	00000		101	LABL0040 ICM R9,15,LABLNEXT NEXT LABEL GP99155	00660000
000100	4780 C112	00112		102	BZ LABL0050 NO LABELS GP99155	00670000
000104	D507 900C 3014	0000C	00014	103	CLC LABLNAME,USNGLBNM LABEL LOCATED?	00680000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00010A	4780	C130	00130		104	BE	LABL0060 YES	00690000
00010E	47F0	C0FC	000FC		105	B	LABL0040 LOOP	GP99155 00700000
000112	D207	CF7A	3014	00F7A	00014	107	LABL0050 MVC	MSG05N,USNGLBNM COPY LABEL NAME GP99155 00720000
000118	D207	CF93	300C	00F93	0000C	108	MVC	MSG05D,USNGDSNM COPY DSECT NAME 00730000
00011E	D254	B710	CF68	00710	00F68	109	MVC	PRTDATA(EMSG05L),EMSG05 00740000
000124	96C0	B163		00163		110	OI	COMMFLAG,\$ERROR+\$ABORT 00750000
000128	45E0	CC88		00C88		111	BAL	R14,PRT0000 PRINT MESSAGE 00760000
00012C	47F0	C090		00090		112	B	LABL0010 DO ANOTHER USING GP99155 00770000
000130					114	LABL0060 DS	OH	00790000
000130	5090	3020		00020		115	ST	R9,USNGLBA SET ASSOCIATED LABEL BLOCK ADDRESS 00800000
000134	D203	3024	9014	00024	00014	116	MVC	USNGDISP,LABLDISP SET DISP TO LABEL 00810000
00013A	47F0	C090		00090		117	B	LABL0010 PROCESS NEXT USING GP99155 00820000
00013E					119	LABL0070 DS	OH	00840000
00013E	BF9F	2014		00014		120	ICM	R9,15,DSCTLBA ANY LABELS? 00850000
000142	4780	C150		00150		121	BZ	LABL0080 NO 00860000
000146	5090	3020		00020		122	ST	R9,USNGLBA SET ASSOCIATED LABEL BLOCK ADDRESS 00870000
00014A	D703	3024	3024	00024	00024	123	XC	USNGDISP,USNGDISP SET DISP TO ZERO 00880000
000150	47F0	C090		00090		124	LABL0080 B	LABL0010 DO ANOTHER USING GP99155 00890000
000154	9180	B163		00163		126	LABL0090 TM	COMMFLAG,\$ABORT SERIOUS ERROR? GP99155 00910000
000158	4710	CCDA		00CDA		127	BO	EXIT0000 YES, STOP NOW GP99155 00920000
					128	*	-----	* 00930000
					129	*	SCAN THE OBJECT CODE AND DETERMINE THE DISPLACEMENTS	* 00940000
					130	*	TO ALL VALID INSTRUCTIONS. THIS IS NECESSARY BECAUSE	* 00950000
					131	*	SOME INSTRUCTIONS MAY REFERENCE OTHER INSTRUCTIONS TO	* 00960000
					132	*	MODIFY THEM (LIKE ZAPPING IN A LENGTH). IF AN INSTRUCTION	* 00970000
					133	*	REFERENCES ANOTHER AT OTHER THAN THE OPCODE ADDRESS, THE	* 00980000
					134	*	GENERATED LABEL WILL BE 'PRFXNNNN+D'.	* 00990000
					135	*		* 01000000
					136	*	'DATA' BLOCKS WILL BE GENERATED TO INDICATE AREAS THAT DO	* 01010000
					137	*	NOT HAVE VALID OPCODES AND ARE NOT ALREADY DEFINED AS BEING	* 01020000
					138	*	DATA.	* 01030000
					139	*		* 01040000
					140	*	THE HEX VALUE FOR BLANKS IS ALSO A VALID OPCODE, STH. TO	* 01050000
					141	*	PREVENT THE DISASSEMBLER FROM INTERPRETING A STRING OF	* 01060000
					142	*	BLANKS AS A SERIES OF STH'S, AN ADDITIONAL CHECK WAS ADDED	* 01070000
					143	*	FOR THIS SITUATION. THREE BLANKS WILL NOT BE PROCESSED AS	* 01080000
					144	*	AN INSTRUCTION.	* 01090000
					145	*		* 01100000
					146	*	EACH DISPLACEMENT WILL BE 4-BYTES. WORST CASE WOULD BE A	* 01110000
					147	*	MODULE THAT CONSISTS OF ONLY 2-BYTE OPCODES. EACH ENTRY	* 01120000
					148	*	WILL BE A 4-BYTE DISPLACEMENT, SO THE TABLE'S LENGTH WOULD	* 01130000
					149	*	BE TWICE THE CSECT'S SIZE AT MOST. FOUR ADDITIONAL BYTES	* 01140000
					150	*	ARE ADDED FOR END OF TABLE FLAG (X'FFFFFFFF').	* 01150000
					151	*	-----	* 01160000
00015C	5810	B12C		0012C		152	L	R1,COMMCSLN CSECT'S TOTAL LENGTH 01170000
000160	4101	1004		00004		153	LA	R0,4(R1,R1) DOUBLE+SPARE FOR END FLAG GP99140 01180000
000164	92FF	B161		00161		154	MVI	COMMFill,X'FF' SET FILL BYTE - ALL UNUSED GP99161 01190000
000168	45E0	B684		00684		155	BAL	R14,GETMAIN ACQUIRE STORAGE FOR DISPLACEMENTS 01200000
00016C	1891					156	LR	R9,R1 INITIALIZE DISP TABLE ADDRESS 01210000
00016E	5010	B110		00110		157	ST	R1,COMMDisp SAVE DISPLACEMENT TABLE'S ADDRESS 01220000
000172	9200	B161		00161		158	MVI	COMMFill,X'00' SET FILL BYTE - ALL EMPTY GP99161 01230000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000176	5850	B130	00130		159	L	R5,COMMTXT	TEXT'S STORAGE ADDRESS 01240000
00017A	1B66				160	SR	R6,R6	INITIALIZE DISPLACEMENT 01250000
00017C	5960	B12C	0012C		162	LABL0100	C R6,COMMCSLN	BEYOND END OF CSECT? 01270000
000180	47B0	C2CC	002CC		163	BNL	LABL0230	TEST FOR FINAL DATA BLOCK 01280000
000184	BF7F	B10C	0010C		164	ICM	R7,15,COMMDATA	FIRST DATA BLOCK 01290000
000188	4780	C1C6	001C6		165	BZ	LABL0130	NO DATA BLOCKS 01300000
				00000	166	USING	DATADSCT,R7	DEFINE BASE 01310000
					167	ITRACE	ID=DATACHK1, RDATA1=R6	TESTING FOR DATA AREA +01320000 .. CURRENT DISPLACEMENT 01330000
00018C	BE6F	B0E0	000E0		168+	STCM	R6,15,TRDATA1	00460000
000190	45E0	B564	00564		169+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
000194	C4C1E3C1C3C8D2F1				170+	DC	CL8'DATACHK1'	TRACE ID 00670000
00019C	5560	7020	00020		172	LABL0110	CL R6,DATAEND	TOO HIGH FOR THIS DATA AREA? 01350000
0001A0	4720	C1BE	001BE		173	BH	LABL0120	YES; TRY AGAIN GP10081 01360000
0001A4	5560	701C	0001C		174	CL	R6,DATABEGN	DATA AREA BEGINNING DISPLACEMENT? 01370000
					175	*WRONG*	BL LABL0120	THIS AREA IS BELOW CURRENT DISP 01380000
0001A8	4740	C1C6	001C6		176	BL	LABL0130	THIS AREA IS BEYOND DISP GP10081 01390000
0001AC	4780	C2A2	002A2		177	BE	LABL0220	DATA AREA FOUND 01400000
					178	*OLD*	CL R6,DATAEND	TOO HIGH FOR THIS DATA AREA? 01410000
					179	*OLD*	BH LABL0120	YES 01420000
0001B0	D603	CD7C	CD7C	00D7C	00D7C	180	OC DATASIZE,DATASIZE	DATA OVER-LAPPING DATA? 01430000
0001B6	4770	CBEA	00BEA		181	BNZ	ERR0060	YES.. INSTRUCTION OVERLAPS DATA 01440000
0001BA	47F0	CBF4	00BF4		182	B	ERR0020	INSTRUCTION OVERLAPS DATA 01450000
0001BE	BF7F	7000	00000		184	LABL0120	ICM R7,15,DATANEXT	NEXT DATA BLOCK 01470000
0001C2	4770	C19C	0019C		185	BNZ	LABL0110	LOOP 01480000
0001C6	4460	CCF2	00CF2		187	LABL0130	EX R6,EXTM01	IS ADDRESS ODD GP99140 01500000
0001CA	4770	C282	00282		188	BNZ	LABL0200	YES; TOO BAD GP99140 01510000
					189	*OBS*	L R1,COMMCSLN	CSECT TOTAL LENGTH 01520000
					190	*OBS*	SR R1,R6	MINUS CURRENT DISPLACEMENT 01530000
					191	*OBS*	CH R1,COMMH8	8 OR MORE BYTES LEFT? 01540000
					192	*OBS*	BL LABL0135	NO 01550000
					193	*OBS*	CLC COMMBLKS(6),0(R5)	6 BLANKS IN A ROW? GP10075 01560000
					194	*OBS*	BE LABL0200	YES..(DON'T OVERRUN DATA) GP10081 01570000
0001CE	1B88				195	LABL0135	SR R8,R8	CLEAR REGISTER 01580000
0001D0	BFE1	5000	00000		196	ICM	R14,1,0(R5)	INSERT POSSIBLE OP CODE GP10081 01590000
0001D4	4780	C282	00282		197	BZ	LABL0200	NOT A VALID OP CODE 01600000
0001D8	1815				198	LR	R1,R5	PASS INSTRUCTION ADDRESS GP99137 01610000
0001DA	45E0	B4C8	004C8		199	BAL	R14,GETOPENT	LOOK IT UP GP99137 01620000
0001DE	47F0	C282	00282		200	B	LABL0200	NOT A VALID CODE GP99137 01630000
0001E2	D502	B225	5000	00225	00000	201	CLC COMMBLKS(3),0(R5)	BLANKS/STH ? GP10081 01640000
0001E8	4780	C282	00282		202	BE	LABL0200	TREAT STH 4,0nn(4) AS DATA GP10081 01650000
0001EC	188F				203	LR	R8,R15	MOVE TO DESIRED REGISTER GP99137 01660000
0001EE	4000	CD80	00D80		204	STH	R0,OPLNGTH	SAVE INSTRUCTION LENGTH GP99137 01670000
				00000	205	USING	OPDSECT,R8	DEFINE BASE 01680000
0001F2	1810				206	LR	R1,R0	OP CODE LENGTH GP99140 01690000
0001F4	1A16				207	AR	R1,R6	DISPLACEMENT OF END OF INSTR + 1 01700000
0001F6	0610				208	BCTR	R1,0	DISPLACEMENT OF END OF INSTR 01710000
0001F8	1277				209	LTR	R7,R7	ANY DATA BLOCK ? GP10081 01720000
0001FA	4780	C206	00206		210	BZ	LABL0160	NO; SKIP TEST GP10081 01730000
0001FE	5910	701C	0001C		211	C	R1,DATABEGN	OVERLAPS THIS DATA BLOCK? GP10081 01740000
000202	47B0	C282	00282		212	BNL	LABL0200	YES; DO DATA GP10081 01750000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000206	5910	B124	00124		214	LABL0160	C R1,COMMCSEA	BEYOND END OF CSECT? GP99140 01770000
00020A	47B0	C26E	0026E		215		BNL LABL0190	NO; PERHAPS INST. IS LAST? GP99140 01780000
00020E	1810				216		LR R1,R0	OPCODE LENGTH GP99155 01790000
000210	1A15				217		AR R1,R5	NEXT OPCODE'S ADDRESS 01800000
000212	BFE1	1000	00000		218		ICM R14,1,0(R1)	INSERT POSSIBLE OPCODE GP99137 01810000
000216	4780	C230	00230		219		BZ LABL0170	NOT A VALID OPCODE GP99137 01820000
00021A	D502	B225	1000 00225	00000	220		CLC COMMBLKS(3),0(R1)	BLANKS/STH ? GP10081 01830000
000220	4780	C230	00230		221		BE LABL0170	TREAT STH 4,0nn(4) AS DATA GP10081 01840000
000224	45E0	B4C8	004C8		222		BAL R14,GETOPENT	LOOK IT UP GP99137 01850000
000228	47F0	C230	00230		223		B LABL0170	NOT A VALID CODE GP99137 01860000
00022C	47F0	C26E	0026E		224		B LABL0190	TWO VALID IN A ROW GP99137 01870000
					226		*-----*	01890000
					227		* WE FOUND ONE VALID OPCODE FOLLOWED BY DATA. TREAT THE OPCODE AS	* 01900000
					228		* DATA UNLESS IT IS AN INSTRUCTION THAT IS EXPECTED TO BE FOLLOWED	* 01910000
					229		* BY DATA (B, BR, BAL, BALR, SVC, LPSW). THIS IS SYSTEM DEPENDENT.	* 01920000
					230		*-----*	01930000
000230	BF2F	CD7C	00D7C		231	LABL0170	ICM R2,15,DATASIZE	PRIOR DATA AREA? GP10081 01940000
000234	4770	C282	00282		232		BNZ LABL0200	YES; TREAT AS MORE DATA GP10081 01950000
000238	DD00	5000	A04F 00000	0104F	233		TRT 0(1,R5),TRTOLAST	OK OPCODE/DATA SEQUENCE? GP10081 01960000
00023E	47F2	C242	00242		234		B *+4(R2)	BRANCH BY RESULT GP10081 01970000
000242	47F0	C282	00282		235		B LABL0200	0 - NOT LAST OPCODE GP10081 01980000
000246	47F0	C26E	0026E		236		B LABL0190	4 - EXPAND INSTRUCTION GP10081 01990000
00024A	47F0	C266	00266		237		B LABL0180	8 - TEST CC TEST GP10081 02000000
					238	*NEXT*	B LABL0172	12 - ADDITIONAL TESTING GP10081 02010000
00024E	D501	CD0C	5000 00D0C	00000	239	LABL0172	CLC =X'0A03',0(R5)	EXIT SVC ? GP10081 02020000
000254	4780	C26E	0026E		240		BE LABL0190	YES; EXPAND GP10081 02030000
000258	D501	CD0E	5000 00D0E	00000	241		CLC =X'0A0D',0(R5)	ABEND/ABDUMP SVC GP10081 02040000
00025E	4780	C26E	0026E		242		BE LABL0190	YES; EXPAND GP10081 02050000
000262	47F0	C282	00282		243		B LABL0200	NO; TREAT AS DATA GP10081 02060000
000266	91F0	5001	00001		245	LABL0180	TM 1(R5),X'F0'	UNCONDITIONAL BRANCH? GP99155 02080000
00026A	47E0	C282	00282		246		BNO LABL0200	NO.. NOT VALID OPCODE GP99155 02090000
00026E	45E0	CB00	00B00		248	LABL0190	BAL R14,LABL2000	NEW DATA BLOCK IF NEEDED GP10081 02110000
000272	5060	9000	00000		249		ST R6,0(,R9)	SAVE VALID DISPLACEMENT GP99146 02120000
000276	4190	9004	00004		250		LA R9,4(,R9)	NEXT DISPLACEMENT SLOT 02130000
00027A	4810	CD80	00D80		251		LH R1,0PLENGTH	INSTRUCTION'S LENGTH 02140000
00027E	47F0	C29A	0029A		252		B LABL0210	02150000
000282	4110	0001	00001		254	LABL0200	LA R1,1	NEXT BYTE 02170000
000286	5800	CD7C	00D7C		256	LABL0205	L R0,DATASIZE	DATA AREA SIZE SO FAR 02190000
00028A	1200				257		LTR R0,R0	FIRST TIME FOR THIS? GP08063 02200000
00028C	4770	C294	00294		258		BNZ LABL0208	NO GP08063 02210000
000290	5060	CD78	00D78		259		ST R6,DATADISP	SAVE STARTING DISPLACEMENT GP08063 02220000
000294	1A01				261	LABL0208	AR R0,R1	PLUS SKIP AMOUNT GP08063 02240000
000296	5000	CD7C	00D7C		262		ST R0,DATASIZE	SAVE TOTAL 02250000
00029A	1A51				264	LABL0210	AR R5,R1	NEXT OBJECT CODE BYTE 02270000
00029C	1A61				265		AR R6,R1	NEXT NEXT DISPLACEMENT 02280000
00029E	47F0	C17C	0017C		266		B LABL0100	LOOP 02290000
0002A2	45E0	CB00	00B00		268	LABL0220	BAL R14,LABL2000	DATA AREA IF NEEDED GP10081 02310000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
0002A6	5860	7020	00020		269	L	R6,DATAEND	ENDING DISPLACEMENT	GP99146	02320000	
0002AA	4160	6001	00001		270	LA	R6,1(,R6)	NEXT BYTE		02330000	
0002AE	1856				271	LR	R5,R6	COPY DISPLACEMENT		02340000	
0002B0	5A50	B130	00130		272	A	R5,COMMTXT	PLUS BASE		02350000	
					273	ITRACE	ID=DATASKIP, RDATA1=R5, RDATA2=R6	DISPLACEMENT SKIPPED DUE TO DATA .. NEW TEXT'S ADDRESS .. NEW DISPLACEMENT		+02360000 +02370000 02380000	
0002B4	BE5F	B0E0	000E0		274+	STCM	R5,15,TRDATA1			00460000	
0002B8	BE6F	B0E8	000E8		275+	STCM	R6,15,TRDATA2			00610000	
0002BC	45E0	B564	00564		276+	BAL	R14,TRACE000	ENTER TRACE ROUTINE		00640000	
0002C0	C4C1E3C1E2D2C9D7				277+	DC	CL8'DATASKIP'	TRACE ID		00670000	
0002C8	47F0	C17C	0017C		278	B	LABL0100	LOOP		02390000	
					280	*	-----			* 02410000	
					281	*	ADD LAST DATA BLOCK IF NECESSARY			* 02420000	
					282	*	-----			* 02430000	
0002CC	45E0	CB00	00B00		283	LABL0230	BAL R14,LABL2000	ADD DATA BLOCK	GP10081	02440000	
					284	*	-----			* 02450000	
					285	*	VERIFY THAT ALL BASE AND USINGs REFERENCE DATA AREAS OR			* 02460000	
					286	*	INSTRUCTION BOUNDARIES. THIS IS BECAUSE DROP AND USING			* 02470000	
					287	*	STATEMENTS CANNOT BE GENERATED IN THE MIDDLE OF AN			* 02480000	
					288	*	INSTRUCTION. ALSO I WILL NOT GENERATE DROPS OR USINGs IN			* 02490000	
					289	*	DATA AREAS (I GUESS THIS MAY CAUSE PROBLEMS WITH "S" TYPE			* 02500000	
					290	*	DC INSTRUCTIONS).			* 02510000	
					291	*	-----			* 02520000	
0002D0	4130	B108	00108		292	LA	R3,COMMBASE	FIRST BASE ENTRY	GP99155	02530000	
			00000		293	USING	BASEDSCT,R3			02540000	
0002D4	BF3F	3000	00000		294	LABL0240	ICM R3,15,BASENEXT	NEXT BASE BLOCK	GP99155	02550000	
0002D8	4780	C31C	0031C		295	BZ	LABL0260	NO BASES DEFINED		02560000	
0002DC	D203	CD74	300C	00D74	0000C	296	MVC	WORKDISP,BASEBEGN	SET BEGINNING DISPLACEMENT		02570000
0002E2	D208	CEA7	CDDA	00EA7	00DDA	297	MVC	MSG03A,BEGNDISP	SET 'BEGINNING' IN MESSAGE		02580000
0002E8	4520	C36C		0036C		298	BAL	R2,LABL0300	CHECK BEGINNING DISPLACEMENT		02590000
0002EC	D203	300C	CD74	0000C	00D74	299	MVC	BASEBEGN,WORKDISP	SET VERIFIED DISPLACEMENT	GP99147	02600000
0002F2	D503	3010	B124	00010	00124	300	CLC	BASEEND,COMMCSEA	BEYOND END OF CSECT?	GP10066	02610000
0002F8	47D0	C302		00302		301	BNH	LABL0250	NO		02620000
0002FC	D203	3010	B124	00010	00124	302	MVC	BASEEND,COMMCSEA	LIMIT TO CSECT LENGTH	GP10066	02630000
000302	D203	CD74	3010	00D74	00010	303	LABL0250	MVC	WORKDISP,BASEEND		02640000
000308	D208	CEA7	CDE3	00EA7	00DE3	304	MVC	MSG03A,ENDDISP	SET 'ENDING' IN MESSAGE		02650000
00030E	4520	C36C		0036C		305	BAL	R2,LABL0300	CHECK ENDING DISPLACEMENT		02660000
000312	D203	3010	CD74	00010	00D74	306	MVC	BASEEND,WORKDISP	SET VERIFIED DISPLACEMENT	GP99147	02670000
000318	47F0	C2D4		002D4		307	B	LABL0240	LOOP	GP99155	02680000
00031C	4130	B100	00100		309	LABL0260	LA R3,COMMUSNG	FIRST USING ENTRY	GP99155	02700000	
			00000		310	USING	USNGDSCT,R3	DEFINE BASE		02710000	
000320	BF3F	3000	00000		311	LABL0270	ICM R3,15,USNGNEXT	NEXT USING BLOCK	GP99155	02720000	
000324	4780	C360		00360		312	BZ	LABL0290	NO USINGs		02730000
000328	9180	3031		00031		313	TM	USNGFLAG,\$USNGND	DISPLACEMENTS?		02740000
00032C	4710	C320		00320		314	BO	LABL0270	NO	GP99155	02750000
000330	D203	CD74	3028	00D74	00028	315	MVC	WORKDISP,USNGBEGN	SET BEGINNING DISPLACEMENT		02760000
000336	D208	CEA7	CDDA	00EA7	00DDA	316	MVC	MSG03A,BEGNDISP	SET 'BEGINNING' IN MESSAGE		02770000
00033C	4520	C36C		0036C		317	BAL	R2,LABL0300	CHECK BEGINNING DISPLACEMENT		02780000
000340	D203	3028	CD74	00028	00D74	318	MVC	USNGBEGN,WORKDISP	SET VERIFIED DISPLACEMENT		02790000
000346	D203	CD74	302C	00D74	0002C	319	MVC	WORKDISP,USNGEND	SET ENDING DISPLACEMENT		02800000
00034C	D208	CEA7	CDE3	00EA7	00DE3	320	MVC	MSG03A,ENDDISP	SET 'ENDING' IN MESSAGE		02810000
000352	4520	C36C		0036C		321	BAL	R2,LABL0300	CHECK ENDING DISPLACEMENT		02820000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000356	D203	302C	CD74	0002C	00D74	322	MVC USNGEND,WORKDISP	SET VERIFIED DISPLACEMENT 02830000
00035C	47F0	C320		00320		323	B LABL0270 LOOP	GP99155 02840000
000360	9140	B163		00163		325	LABL0290 TM COMMFLAG,\$ERROR	ERROR DETECTED YET? GP99155 02860000
000364	4710	CCDA		00CDA		326	BO EXIT0000	YES.. STOP 02870000
000368	47F0	C414		00414		327	B LABL0370	02880000
00036C	4170	B10C		0010C		329	LABL0300 LA R7,COMMDATA FIRST DATA	GP99155 02900000
000370	BF7F	7000		00000		330	LABL0310 ICM R7,15,DATANEXT	NEXT DATA BLOCK GP99155 02910000
000374	4780	C38E		0038E		331	BZ LABL0330	NO DATA AREAS 02920000
000378	D503	CD74	701C	00D74	0001C	332	CLC WORKDISP,DATABEGN	POSSIBLY IN DATA? 02930000
00037E	4740	C370		00370		333	BL LABL0310	NO GP99155 02940000
000382	D503	CD74	7020	00D74	00020	334	CLC WORKDISP,DATAEND	WITHIN DATA? 02950000
000388	07D2					335	BNHR R2	YES, DISP IS OK 02960000
00038A	47F0	C370		00370		336	B LABL0310 LOOP	GP99155 02970000
00038E	5810	B110		00110		338	LABL0330 L R1,COMMDISP	DISPLACEMENT TABLE ADDRESS GP99155 02990000
000392	D503	CDC4	1000	00DC4	00000	339	LABL0340 CLC XFFFF,0(R1)	END OF TABLE REACHED? GP99155 03000000
000398	4780	C3B0		003B0		340	BE LABL0360	YES.. INVALID BOUNDARY 03010000
00039C	D503	CD74	1000	00D74	00000	341	CLC WORKDISP,0(R1)	DISPLACEMENT FOUND? 03020000
0003A2	0782					342	BER R2	YES.. GOOD 03030000
0003A4	4740	C3B0		003B0		343	BL LABL0360	INVALID BOUNDARY 03040000
0003A8	4110	1004		00004		344	LA R1,4(,R1)	NEXT DISPLACEMENT 03050000
0003AC	47F0	C392		00392		345	B LABL0340	LOOP 03060000
0003B0	58E0	CD74		00D74		347	LABL0360 L R14,WORKDISP	SAVE USER'S OFFSET GP99147 03080000
0003B4	D207	CEC3	3004	00EC3	00004	348	MVC MSG03B,4(R3)	SET BLOCK ID 03090000
						349	SHEX MSG030,WORKDISP	FORMAT OFFSET FOR DISPLAY GP10081 03100000
0003BA	F384	CEE2	CD74	00EE2	00D74	350+	UNPK MSG030(2*L'WORKDISP+1),WORKDISP(L'WORKDISP+1)	GP10065 00310000
0003C0	DC07	CEE2	B185	00EE2	00185	351+	TR MSG030(2*L'WORKDISP),COMMHXTR	GP10081 00320000
0003C6	9240	CEEA		00EEA		352+	MVI MSG030+2*L'WORKDISP,C' '	GP10065 00340000
0003CA	D508	CEA7	CDE3	00EA7	00DE3	353	CLC MSG03A,ENDDISP	END OF RANGE TEST? GP99147 03110000
0003D0	4780	C3D8		003D8		354	BE LABL0366	GP99147 03120000
0003D4	4B10	B158		00158		355	SH R1,COMMH4	BACK-UP 1 INSTRUCTION GP99147 03130000
0003D8	D203	CD74	1000	00D74	00000	356	LABL0366 MVC WORKDISP,0(R1)	DISP OF NEXT INSTRUCTION GP99147 03140000
0003DE	95FF	CD74		00D74		357	CLI WORKDISP,X'FF'	END FLAG? GP99147 03150000
0003E2	4770	C3EC		003EC		358	BNE LABL0368	GP99147 03160000
0003E6	D203	CD74	B12C	00D74	0012C	359	MVC WORKDISP,COMMCSLN	SET END SECTION ADDRESS GP99147 03170000
0003EC	5BE0	CD74		00D74		360	LABL0368 S R14,WORKDISP	GET NEW ADDRESS GP99147 03180000
0003F0	10EE					361	LPR R14,R14	MAKE IT POSITIVE GP99147 03190000
0003F2	49E0	CD10		00D10		362	CH R14,=H'1'	IF DIFFERENCE IS 0 OR 1, NO MSG GP99147 03200000
0003F6	07D2					363	BNHR R2	YES; RETURN WITHOUT MESSAGE GP99147 03210000
						364	SHEX MSG03N,WORKDISP	FORMAT OFFSET FOR DISPLAY GP10081 03220000
0003F8	F384	CEEE	CD74	00EEE	00D74	365+	UNPK MSG03N(2*L'WORKDISP+1),WORKDISP(L'WORKDISP+1)	GP10065 00310000
0003FE	DC07	CEEE	B185	00EEE	00185	366+	TR MSG03N(2*L'WORKDISP),COMMHXTR	GP10081 00320000
000404	9240	CEF6		00EF6		367+	MVI MSG03N+2*L'WORKDISP,C' '	GP10065 00340000
000408	D27F	B710	CE9B	00710	00E9B	368	MVC PRTDATA(EMSG03L),EMSG03	03230000
00040E	45E0	CC88		00C88		369	BAL R14,PRT0000	PRINT MESSAGE 03240000
000412	07F2					370	BR R2	RETURN 03250000
						372	* -----	* 03270000
						373	* GENERATE ANY LABELS FOR ENTRY POINTS WITHIN THE MODULE	* 03280000
						374	* -----	* 03290000
000414	4140	B0F8		000F8		375	LABL0370 LA R4,COMMESD	FIRST ESD ENTRY GP99155 03300000
				00000		376	USING ESDDATA,R4	DEFINE BASE 03310000

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000418	BF4F	4000	00000		377	LABL0380	ICM R4,15,ESDNEXT	NEXT ESD ENTRY	GP99155	03320000	
00041C	4780	C46E	0046E		378		BZ LABL0410	NO ESD ENTRIES		03330000	
000420	9503	4016	00016		379		CLI ESDTYPE,\$ESDLR	LABEL?		03340000	
000424	4780	C430	00430		380		BE LABL0390	YES		03350000	
000428	9504	4016	00016		381		CLI ESDTYPE,\$ESDPC	PRIVATE CODE?		03360000	
00042C	4770	C418	00418		382		BNE LABL0380	NO	GP99155	03370000	
000430					383	LABL0390	DS OH			03380000	
000430	D502	4017	B11D	00017	0011D	384	CLC ESDADDR,COMMCSAD+1	BELOW REQUESTED CSECT?		03390000	
000436	4740	C418	00418		385		BL LABL0380	YES	GP99155	03400000	
00043A	D502	4017	B125	00017	00125	386	CLC ESDADDR,COMMCSA+1	ABOVE REQUESTED CSECT?		03410000	
000440	4720	C418	00418		387		BH LABL0380	YES	GP99155	03420000	
000444	D507	400E	B14C	0000E	0014C	388	CLC ESDNAME,COMMCSNM	CSECT'S NAME?		03430000	
00044A	4780	C418	00418		389		BE LABL0380	YES	GP99155	03440000	
00044E	1B11				390		SR R1,R1	CLEAR REGISTER		03450000	
000450	BF17	4017	00017		391		ICM R1,7,ESDADDR	SYMBOL'S ADDRESS IN THE CSECT		03460000	
000454	5B10	B11C	0011C		392		S R1,COMMCSAD	CONVERT TO DISPLACEMENT		03470000	
000458	5010	CD74	00D74		393		ST R1,WORKDISP	SET DISPLACEMENT	GP99146	03480000	
00045C	D208	CD95	400E	00D95	0000E	394	MVC WORKLABL,ESDNAME	SET LABEL NAME		03490000	
000462	92C5	CD9F	00D9F		395		MVI WORKTYPE,\$LABEL	LABEL WILL BE FROM AN ESD ENTRY		03500000	
000466	45E0	C958	00958		396		BAL R14,LABL1150	ADD LABEL	GP10081	03510000	
00046A	47F0	C418	00418		397		B LABL0380	LOOP	GP99155	03520000	
					399	*	-----		*	03540000	
					400	*	GENERATE LABELS FOR ADCON REFERENCES		*	03550000	
					401	*	-----		*	03560000	
00046E	4170	B10C	0010C		402	LABL0410	LA R7,COMMDATA	FIRST DATA BLOCK	GP99155	03570000	
000472	BF7F	7000	00000		403	LABL0420	ICM R7,15,DATANEXT	NEXT BLOCK	GP99155	03580000	
000476	4780	C5B4	005B4		404		BZ LABL0490	NO DATA AREAS		03590000	
00047A	9514	702B	0002B		405		CLI DATATYPE,\$DATAACN	ADCON W/REFERENCE ?	GP10069	03600000	
00047E	4780	C556	00556		406		BE LABL0480	YES; PROCESS	GP10069	03610000	
000482	95E2	702A	0002A		407	LABL0430	CLI DATAASMT,C'S'	ASSEMBLER S-CON ?	GP10066	03620000	
000486	4770	C472	00472		408		BNE LABL0420	NO; DO NORMALLY	GP99179	03630000	
00048A	D501	CD12	7028	00D12	00028	409	CLC =H'2',DATAILEN	LENGTH=2 ?	GP99179	03640000	
000490	4770	C472	00472		410		BNE LABL0420	NO	GP99155	03650000	
000494	5850	B130	00130		411		L R5,COMMTXT	GET CSECT ADDRESS	GP99180	03660000	
000498	5860	701C	0001C		412		L R6,DATABEGN	PLUS OFFSET	GP99180	03670000	
00049C	1A56				413		AR R5,R6		GP99180	03680000	
00049E	91F0	5000	00000		414		TM O(R5),X'F0'	IS IT ABSOLUTE?	GP99179	03690000	
0004A2	4780	C472	00472		415		BZ LABL0420	YES; SAME AS AL2 ALMOST	GP99179	03700000	
					416	*	-----		*	03710000	
					417	*	RESOLVE S-CONSTANT, AND CREATE A REF TABLE ENTRY FOR IT.		*	03720000	
					418	*	-----		*	03730000	
					419		PUSH USING		GP99179	03740000	
0004A6	D703	CD58	CD58	00D58	00D58	420	XC WORKOP1,WORKOP1	CLEAR REFERENCE 1	GP99179	03750000	
0004AC	D703	CD5C	CD5C	00D5C	00D5C	421	XC WORKOP2,WORKOP2	CLEAR REFERENCE 2	GP99179	03760000	
0004B2	F300	CD9E	5000	00D9E	00000	422	UNPK WORKBASE,0(1,R5)	CLEAR REGISTER	GP99179	03770000	
0004B8	940F	CD9E	00D9E		423		NI WORKBASE,X'0F'	ISOLATE BASE REGISTER	GP99179	03780000	
0004BC	D201	CD76	5000	00D76	00000	424	MVC WORKDISP+2(2),0(R5)	COPY BASE AND DISP	GP99179	03790000	
0004C2	D403	CD74	CD08	00D74	00D08	425	NC WORKDISP,=X'00000FFF'	LEAVE ONLY DISPLACEMENT	GP08234	03800000	
0004C8	9039	CD2C	00D2C		426		STM R3,R9,LOCSAVE	SAVE CRITICAL REGISTERS	GP10046	03810000	
0004CC	45E0	C7D6	007D6		427		BAL R14,LABL1000	DETERMINE REFERENCE	GP10081	03820000	
0004D0	9839	CD2C	00D2C		428		LM R3,R9,LOCSAVE	RESTORE CRITICAL REGISTERS	GP10046	03830000	
0004D4	BF0F	CD60	00D60		429		ICM R0,15,WORKREF	DID ANYTHING USEFUL?	GP99180	03840000	
0004D8	4780	C472	00472		430		BZ LABL0420	NO; IGNORE	GP99180	03850000	
					431		ITRACE ID=OPOREF,	ADDRESS LABEL REFERENCE		+03860000	

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							DATA1=WORKREF, .. LABEL BLOCK'S ADDRESS +03870000		
							DATA2=WORKOPD .. DISPLACEMENT FROM LABEL GP99179 03880000		
0004DC	41E0	CD60	00D60		432+	LA	R14,WORKREF DATA ADDRESS 00360000		
0004E0	D207	B0E0	E000	000E0	00000	433+	MVC TRDATA1,0(R14) MOVE DATA 00370000		
0004E6	41E0	CD68	00D68		434+	LA	R14,WORKOPD DATA ADDRESS 00510000		
0004EA	D207	B0E8	E000	000E8	00000	435+	MVC TRDATA2,0(R14) MOVE DATA 00530000		
0004F0	45E0	B564	00564		436+	BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000		
0004F4	D6D7F0D9C5C64040				437+	DC	CL8'OPOREF' TRACE ID 00670000		
0004FC	4100	0024	00024		438	LA	R0,REFL SET LENGTH OF REF BLOCK GP99140 03890000		
000500	45E0	B684	00684		439	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW REF BLOCK 03900000		
					440		ITRACE ID=NEWREF, NEW REFERENCE BLOCK +03910000		
							RDATA1=R1 .. BLOCK'S ADDRESS GP99179 03920000		
000504	BE1F	B0E0	000E0		441+	STCM	R1,15,TRDATA1 00460000		
000508	45E0	B564	00564		442+	BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000		
00050C	D5C5E6D9C5C64040				443+	DC	CL8'NEWREF' TRACE ID 00670000		
				00000	444	USING	REFDSCT,R4 DEFINE BASE GP99179 03930000		
000514	41F0	B114	00114		445	LA	R15,COMMREF FIND QUEUE HEAD GP99179 03940000		
000518	184F				446	LABL04LP	LR R4,R15 SAVE THIS ONE GP99179 03950000		
00051A	BFFF	4000	00000		447	ICM	R15,15,REFNEXT NEXT? GP99179 03960000		
00051E	4780	C530	00530		448	BZ	LABL04ST NO; TACK IT AT END GP99179 03970000		
000522	5560	F01C	0001C		449	CL	R6,REFDISPI-REFDSCT(,R15) GOES HERE? GP99179 03980000		
000526	4720	C518	00518		450	BH	LABL04LP NOT YET GP99179 03990000		
00052A	D203	1000	4000	00000	00000	451	MVC REFNEXT-REFDSCT(4,R1),REFNEXT CHAIN IN GP99179 04000000		
000530	5010	4000	00000		452	LABL04ST	ST R1,REFNEXT CHAIN TO PREVIOUS BLOCK GP99179 04010000		
000534	1841				453	LR	R4,R1 SET BASE GP99179 04020000		
000536	D207	4004	CDA0	00004	00DA0	454	MVC REF EYE,REF SET BLOCK ID TO 'REF' GP99179 04030000		
00053C	D203	400C	CD60	0000C	00D60	455	MVC REFOPER1,WORKREF SET OPERAND 1 REFERENCE ENTRY 04040000		
000542	D203	4014	CD68	00014	00D68	456	MVC REFDISP1,WORKOPD SET DISPLACEMENT FROM LABEL 04050000		
000548	D201	4020	CD14	00020	00D14	457	MVC REFOPCD,=C'DC' PRESERVE THE OP-CODE GP99139 04060000		
00054E	5060	401C	0001C		458	ST	R6,REFDISPI REFERENCING INSTRUCTION'S DISP 04070000		
000552	47F0	C472	00472		459	B	LABL0420 NOW DO NEXT DATA BLOCK GP99179 04080000		
					460	POP	USING GP99179 04090000		
000556	D702	CD74	CD74	00D74	00D74	462	LABL0480	XC WORKDISP(3),WORKDISP SET BYTES 1-3 TO ZERO GP99142 04110000	
00055C	5810	701C	0001C		463	L	R1,DATABEGN DISPLACEMENT TO ADCON GP99142 04120000		
000560	5A10	B130	00130		464	A	R1,COMMTXT PLUS BASE ADDRESS 04130000		
000564	58F0	7024	00024		465	L	R15,DATALEN GET ITEM LENGTH GP99142 04140000		
000568	43F0	7027	00027		466	IC	R15,DATALEN+3 GP99142 04150000		
00056C	41E0	CD78	00D78		467	LA	R14,WORKDISP+4 POINT PAST IT GP99142 04160000		
000570	1BEF				468	SR	R14,R15 LESS LENGTH = MOVE DESTINATION GP99142 04170000		
000572	06F0				469	BCTR	R15,0 LENGTH FOR EXECUTE GP99142 04180000		
000574	44F0	CCF6	00CF6		470	EX	R15,EXMVCWR1 GP99142 04190000		
000578	9514	702B	0002B		471	CLI	DATATYPE,\$DATAACN ADCON TO BE RELATIVIZED? GP05212 04200000		
00057C	4770	C590	00590		472	BNE	LABL0485 NO; DO NORMALLY GP05212 04210000		
000580	5800	CD74	00D74		473	L	R0,WORKDISP GET VALUE GP10081 04220000		
000584	5F00	B11C	0011C		474	SL	R0,COMMCSAD LESS CSECT START GP10081 04230000		
000588	5000	CD74	00D74		475	ST	R0,WORKDISP RETURN CORRECTED VALUE GP10081 04240000		
00058C	44F0	CCFC	00CFC		476	EX	R15,EXMVCWR2 UPDATE STORAGE GP10072 04250000		
000590	947F	CD74	00D74		477	LABL0485	NI WORKDISP,X'7F' KILL AM31 BIT GP99142 04260000		
000594	92D9	CD9F	00D9F		478	MVI	WORKTYPE,\$LABLR LABEL WILL BE FOR RLD DATA 04270000		
000598	5070	CD64	00D64		479	ST	R7,SAVERLD SAVE DATA RLD ITEM'S ADDRESS 04280000		
00059C	45E0	C858	00858		480	BAL	R14,LABL1040 ADD LABEL GP10081 04290000		
0005A0	5870	CD64	00D64		481	L	R7,SAVERLD RESTORE DATA RLD ITEM'S ADDRESS 04300000		
0005A4	D203	7014	CD60	00014	00D60	482	MVC	DATALBA,WORKREF SET LABEL BLOCK ADDRESS 04310000	
0005AA	D203	7018	CD68	00018	00D68	483	MVC	DATALBD,WORKOPD SET DISPLACEMENT FROM LABEL 04320000	

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0005B0	47F0	C472	00472		484	B	LABL0420 LOOP	GP99155 04330000
0005B4	9240	CD9F	00D9F		486	LABL0490 MVI	WORKTYPE,C' ' CLEAR LABEL TYPE	GP99155 04350000
					487	*	-----	* 04360000
					488	*	SCAN THE OBJECT CODE AND GENERATE THE REFERENCE TABLE	* 04370000
					489	*	-----	* 04380000
0005B8	4140	B114	00114		490	LA	R4,COMMREF REFERENCE TABLE ANCHOR	04390000
				00000	491	USING	REFDST,R4 DEFINE BASE	04400000
0005BC	5850	B130	00130		492	L	R5,COMMTXT TEXT'S STORAGE ADDRESS	04410000
0005C0	1B66				493	SR	R6,R6 INITIALIZE DISPLACEMENT	04420000
0005C2					494	LABL0500 DS	OH	04430000
0005C2	5560	B12C	0012C		495	CL	R6,COMMCSLN BEYOND END OF CSECT? GP99155	04440000
0005C6	47B0	CB8E	00B8E		496	BNL	LABL3000 YES, QUIT	04450000
0005CA	BF7F	B10C	0010C		497	ICM	R7,15,COMMDATA FIRST DATA BLOCK	04460000
0005CE	4780	C62C	0062C		498	BZ	LABL0530 NOT WITHIN ANY DATA AREA	04470000
					499	ITRACE	ID=DATACHK2, TESTING FOR DATA AREA	+04480000
							RDATA1=R6 .. CURRENT DISPLACEMENT	04490000
0005D2	BE6F	B0E0	000E0		500+	STCM	R6,15,TRDATA1	00460000
0005D6	45E0	B564	00564		501+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0005DA	C4C1E3C1C3C8D2F2				502+	DC	CL8'DATACHK2' TRACE ID	00670000
0005E2					503	LABL0510 DS	OH	04500000
0005E2	5560	701C	0001C		504	CL	R6,DATABEGN TOO LOW FOR THIS DATA AREA?	04510000
0005E6	4740	C624	00624		505	BL	LABL0520 YES	04520000
0005EA	5560	7020	00020		506	CL	R6,DATAEND TOO HIGH FOR THIS DATA AREA?	04530000
0005EE	4720	C624	00624		507	BH	LABL0520 YES	04540000
					508	ITRACE	ID=DATA1 CURRENTLY IN A DATA AREA	04550000
0005F2	45E0	B564	00564		509+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0005F6	C4C1E3C1F1404040				510+	DC	CL8'DATA1' TRACE ID	00670000
0005FE	5860	7020	00020		511	L	R6,DATAEND ENDING DISPLACEMENT GP99146	04560000
000602	4160	6001	00001		512	LA	R6,1(,R6) NEXT POSSIBLE INSTRUCTION DISP	04570000
000606	1856				513	LR	R5,R6 COPY DISPLACEMENT	04580000
000608	5A50	B130	00130		514	A	R5,COMMTXT PLUS BASE ADDRESS	04590000
					515	ITRACE	ID=NEWADDR1, NEW ADDRESS AND DISP SET	+04600000
							RDATA1=R5, .. CURRENT TEXT ADDRESS	+04610000
							RDATA2=R6 .. CURRENT DISPLACEMENT	04620000
00060C	BE5F	B0E0	000E0		516+	STCM	R5,15,TRDATA1	00460000
000610	BE6F	B0E8	000E8		517+	STCM	R6,15,TRDATA2	00610000
000614	45E0	B564	00564		518+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000618	D5C5E6C1C4C4D9F1				519+	DC	CL8'NEWADDR1' TRACE ID	00670000
000620	47F0	C5C2	005C2		520	B	LABL0500 LOOP	04630000
000624					521	LABL0520 DS	OH	04640000
000624	BF7F	7000	00000		522	ICM	R7,15,DATANEXT NEXT DATA BLOCK	04650000
000628	4770	C5E2	005E2		523	BNZ	LABL0510 LOOP	04660000
00062C					524	LABL0530 DS	OH	04670000
00062C	4460	CCF2	00CF2		525	EX	R6,EXTM01 IS ADDRESS ODD GP99140	04680000
000630	4770	CC76	00C76		526	BNZ	ERR0070 YES; TOO BAD GP99140	04690000
					527	ITRACE	ID=NEWOPCODE, CHECKING AN OPCODE	+04700000
							DATA1=(R5), .. CURRENT OPCODE	+04710000
							RDATA2=R6 .. CURRENT DISPLACEMENT	04720000
000634	D207	B0E0	5000	000E0	00000	528+	MVC TRDATA1,0(R5) MOVE DATA	00410000
00063A	BE6F	B0E8	000E8		529+	STCM	R6,15,TRDATA2	00610000
00063E	45E0	B564	00564		530+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000642	D5C5E6D6D7C3C4C5				531+	DC	CL8'NEWOPCODE' TRACE ID	00670000
					532	*HUH*	ICM R8,15,0(R8) OPCODE ENTRY ADDRESS GP08063	04730000
					533	*HUH*	BZ ERR0030 NOT A VALID OPCODE GP08063	04740000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00064A	1815				534	LR	R1,R5 COPY TO PARM REGISTER	GP99137 04750000
00064C	45E0	B4C8	004C8		535	BAL	R14,GETOPENT LOOK IT UP	GP99137 04760000
000650	47F0	CC4E	00C4E		536	B	ERR0030 HUH? IT WAS VALID BEFORE	GP99137 04770000
000654	188F				537	LR	R8,R15	GP99137 04780000
000656	4000	CD80	00D80		538	STH	R0,OPLNGTH SAVE LENGTH	GP99137 04790000
				00000	539	USING	OPDSECT,R8 DEFINE BASE	04800000
					540	ITRACE	ID=OPCODE, VALID OPCODE	+04810000
							RDATA1=R8, .. OPCODE TABLE ENTRY'S ADDRESS	+04820000
							DATA2=(R8) .. PART OF THE OPCODE TABLE ENTRY	04830000
00065A	BE8F	B0E0	000E0		541+	STCM	R8,15,TRDATA1	00460000
00065E	D207	B0E8	8000	000E8	00000	542+	MVC TRDATA2,0(R8) MOVE DATA	00560000
000664	45E0	B564	00564		543+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000668	D6D7C3D6C4C54040				544+	DC	CL8'OPCODE' TRACE ID	00670000
000670	9110	8007	00007		545	TM	OPFLAGS,\$OPREF REFERENCE GENERATED?	04840000
000674	47E0	C7CA	007CA		546	BNO	LABL0560 NO	04850000
					547 *	-----	-----	* 04860000
					548 *	DETERMINE IF OPERAND 1 REFERENCES A KNOWN BASE, DATA, OR		* 04870000
					549 *	USING (DSECT).		* 04880000
					550 *	-----	-----	* 04890000
000678	D703	CD58	CD58	00D58	00D58	551	XC WORKOP1,WORKOP1 CLEAR REFERENCE 1	04900000
00067E	D703	CD5C	CD5C	00D5C	00D5C	552	XC WORKOP2,WORKOP2 CLEAR REFERENCE 2	04910000
000684	1B11					553	SR R1,R1 CLEAR REGISTER	04920000
000686	4310	5002	00002			554	IC R1,2(,R5) INSERT BASE AND PART OF DISP	04930000
00068A	8A10	0004	00004			555	SRA R1,4 SHIFT BASE TO LOW ORDER BITS	GP06260 04940000
00068E	4770	C6C4	006C4			556	BNZ LABL0537 NON-ZERO; USE IT	GP06260 04950000
000692	9507	8006	00006			557	CLI OPFORM,\$OPRX IS THIS AN RX INSTRUCTION ?	GP06260 04960000
000696	4780	C6A2	006A2			558	BE LABL0536 YES; TEST FURTHER	GP10031 04970000
00069A	9508	8006	00006			559	CLI OPFORM,\$OPRXA IS IT RXA ?	GP10031 04980000
00069E	4770	C6C4	006C4			560	BNE LABL0537 NO; HANDS OFF	GP10031 04990000
0006A2	9180	B168	00168			561	LABL0536 TM COMMOPTG,\$OFIXSWP DOES USER WANT IT SWAPPED?	GP08063 05000000
0006A6	4780	C6C4	006C4			562	BZ LABL0537 NO; LEAVE AS IS	GP08063 05010000
0006AA	BF18	5001	00001			563	ICM R1,8,1(R5) GET INDEX REGISTER BYTE	GP06260 05020000
0006AE	8910	0004	00004			564	SLL R1,4 KILL R1	GP06260 05030000
0006B2	BE18	CD74	00D74			565	STCM R1,8,WORKDISP TEMP SAVE	GP06260 05040000
0006B6	8810	001C	0001C			566	SRL R1,28 RIGHT JUSTIFY	GP06260 05050000
0006BA	D300	5002	CD74	00002	00D74	567	MVZ 2(1,R5),WORKDISP AND 'FIX' SOURCE	GP06260 05060000
0006C0	94F0	5001	00001			568	NI 1(R5),X'F0' MAKE INDEX INTO BASE REGISTER	GP06260 05070000
0006C4	4210	CD9E	00D9E			569	LABL0537 STC R1,WORKBASE SAVE BASE REG	GP06260 05080000
0006C8	D201	CD76	5002	00D76	00002	570	MVC WORKDISP+2(2),2(R5) COPY BASE AND DISP	05090000
0006CE	D403	CD74	CD08	00D74	00D08	571	NC WORKDISP,=X'00000FFF' LEAVE ONLY DISPLACEMENT	GP08234 05100000
0006D4	45E0	C7D6	007D6			572	BAL R14,LABL1000 DETERMINE REFERENCE	GP10081 05110000
					573	ITRACE	ID=OP1REF, OPERAND 1'S LABEL REFERENCE	+05120000
							DATA1=WORKREF, .. LABEL BLOCK'S ADDRESS	+05130000
							DATA2=WORKOPD .. DISPLACEMENT FROM LABEL	05140000
0006D8	41E0	CD60	00D60			574+	LA R14,WORKREF DATA ADDRESS	00360000
0006DC	D207	B0E0	E000	000E0	00000	575+	MVC TRDATA1,0(R14) MOVE DATA	00370000
0006E2	41E0	CD68	00D68			576+	LA R14,WORKOPD DATA ADDRESS	00510000
0006E6	D207	B0E8	E000	000E8	00000	577+	MVC TRDATA2,0(R14) MOVE DATA	00530000
0006EC	45E0	B564	00564			578+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0006F0	D6D7F1D9C5C64040					579+	DC CL8'OP1REF' TRACE ID	00670000
0006F8	D203	CD58	CD60	00D58	00D60	580	MVC WORKOP1,WORKREF SAVE OPERAND 1 REFERENCE	05150000
0006FE	D203	CD6C	CD68	00D6C	00D68	581	MVC WORKOPD1,WORKOPD SAVE DISPLACEMENT FROM LABEL	05160000
000704	950F	8006	00006			582	CLI OPFORM,\$OPSS1 TWO ADDRESS FORMAT?	GP10031 05170000
000708	4740	C75E	0075E			583	BL LABL0550 NO	GP10031 05180000
00070C	9513	8006	00006			584	CLI OPFORM,\$OPSSE TWO ADDRESS FORMAT?	GP10031 05190000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000710	4720	C75E	0075E		585	BH	LABL0550 NO	GP10031 05200000
					586	*	-----	* 05210000
					587	*	DETERMINE IF OPERAND 2 REFERENCES A KNOWN BASE, DATA, OR	* 05220000
					588	*	USING (DSECT).	* 05230000
					589	*	-----	* 05240000
000714					590	LABL0540	DS OH	05250000
000714	1B11				591	SR	R1,R1 CLEAR REGISTER	05260000
000716	4310	5004	00004		592	IC	R1,4(,R5) INSERT BASE AND PART OF DISP	05270000
00071A	8810	0004	00004		593	SRL	R1,4 SHIFT BASE TO LOW ORDER BITS	05280000
00071E	4210	CD9E	00D9E		594	STC	R1,WORKBASE SAVE BASE REG	05290000
000722	D201	CD76	5004 00D76	00004	595	MVC	WORKDISP+2(2),4(R5) COPY BASE AND DISP	05300000
000728	D403	CD74	CD08 00D74	00D08	596	NC	WORKDISP,=X'00000FFF' LEAVE ONLY DISPLACEMENT	GP08234 05310000
00072E	45E0	C7D6	007D6		597	BAL	R14,LABL1000 DETERMINE REFERENCE	GP10081 05320000
					598	ITRACE	ID=OP2REF, OPERAND 2'S LABEL REFERENCE	+05330000
							DATA1=WORKREF, .. LABEL BLOCK'S ADDRESS	+05340000
							DATA2=WORKOPD .. DISPLACEMENT FROM LABEL	05350000
000732	41E0	CD60	00D60		599+	LA	R14,WORKREF DATA ADDRESS	00360000
000736	D207	B0E0	E000 000E0	00000	600+	MVC	TRDATA1,0(R14) MOVE DATA	00370000
00073C	41E0	CD68	00D68		601+	LA	R14,WORKOPD DATA ADDRESS	00510000
000740	D207	B0E8	E000 000E8	00000	602+	MVC	TRDATA2,0(R14) MOVE DATA	00530000
000746	45E0	B564	00564		603+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00074A	D6D7F2D9C5C64040				604+	DC	CL8'OP2REF' TRACE ID	00670000
000752	D203	CD5C	CD60 00D5C	00D60	605	MVC	WORKOP2,WORKREF SAVE OPERAND 2 REFERENCE	05360000
000758	D203	CD70	CD68 00D70	00D68	606	MVC	WORKOPD2,WORKOPD SAVE DISPLACEMENT FROM LABEL	05370000
00075E					607	LABL0550	DS OH	05380000
00075E	D607	CD58	CD58 00D58	00D58	608	OC	WORKOP1(8),WORKOP1 BOTH REFERENCES ZERO?	05390000
000764	4780	C7CA	007CA		609	BZ	LABL0560 YES	05400000
000768	4100	0024	00024		610	LA	R0,REFL SET LENGTH OF REF BLOCK	GP99140 05410000
00076C	45E0	B684	00684		611	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW REF BLOCK	05420000
					612	ITRACE	ID=NEWREF, NEW REFERENCE BLOCK	+05430000
							RDATA1=R1 .. BLOCK'S ADDRESS	05440000
000770	BE1F	B0E0	000E0		613+	STCM	R1,15,TRDATA1	00460000
000774	45E0	B564	00564		614+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000778	D5C5E6D9C5C64040				615+	DC	CL8'NEWREF' TRACE ID	00670000
000780	41F0	B114	00114		616	LA	R15,COMMREF FIND QUEUE HEAD	GP99179 05450000
000784	184F				617	LABL05LP	LR R4,R15 SAVE THIS ONE	GP99179 05460000
000786	BFFF	4000	00000		618	ICM	R15,15,REFNEXT NEXT?	GP99179 05470000
00078A	4780	C79C	0079C		619	BZ	LABL05ST NO; TACK IT AT END	GP99179 05480000
00078E	5560	F01C	0001C		620	CL	R6,REFDISPI-REFDSCT(,R15) GOES HERE?	GP99179 05490000
000792	4720	C784	00784		621	BH	LABL05LP NOT YET	GP99179 05500000
000796	D203	1000	4000 00000	00000	622	MVC	REFNEXT-REFDSCT(4,R1),REFNEXT CHAIN IN	GP99179 05510000
00079C	5010	4000	00000		623	LABL05ST	ST R1,REFNEXT CHAIN TO PREVIOUS BLOCK	GP99180 05520000
0007A0	1841				624	LR	R4,R1 SET BASE	05530000
0007A2	D207	4004	CDA0 00004	00DA0	625	MVC	REFEYE,REF SET BLOCK ID TO 'REF'	05540000
0007A8	D203	400C	CD58 0000C	00D58	626	MVC	REFOPER1,WORKOP1 SET OPERAND 1 REFERENCE ENTRY	05550000
0007AE	D203	4010	CD5C 00010	00D5C	627	MVC	REFOPER2,WORKOP2 SET OPERAND 2 REFERENCE ENTRY	05560000
0007B4	D203	4014	CD6C 00014	00D6C	628	MVC	REFDISP1,WORKOPD1 SET DISPLACEMENT FROM LABEL	05570000
0007BA	D203	4018	CD70 00018	00D70	629	MVC	REFDISP2,WORKOPD2 SET DISPLACEMENT FROM LABEL	05580000
0007C0	D201	4020	5000 00020	00000	630	MVC	REFOPCD,0(R5) PRESERVE THE OP-CODE	GP99139 05590000
0007C6	5060	401C	0001C		631	ST	R6,REFDISPI REFERENCING INSTRUCTION'S DISP	05600000
0007CA					632	LABL0560	DS OH	05610000
0007CA	4A50	CD80	00D80		633	AH	R5,OPLNGTH NEXT INSTRUCTION'S ADDRESS	05620000
0007CE	4A60	CD80	00D80		634	AH	R6,OPLNGTH NEXT INSTRUCTION'S DISPLACEMENT	05630000
0007D2	47F0	C5C2	005C2		635	B	LABL0500	05640000
					636	*	-----	* 05650000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					637 *			* 05660000
					638 *			* 05670000
					639 *	DETERMINE IF BASE REGISTER IS REFERENCING A KNOWN BASE,		* 05680000
					640 *	DATA AREA, OR DSECT. THE BASE REGISTER HAS BEEN ISOLATED		* 05690000
					641 *	IN FIELD 'WORKBASE'.		* 05700000
					642 *			* 05710000
					643 *	IF A REFERENCE IS FOUND, 'WORKREF' WILL BE SET TO THE		* 05720000
					644 *	'LABEL' BLOCK ASSIGNED TO THAT LOCATION. IF NO LABEL CAN		* 05730000
					645 *	DETERMINED, 'WORKREF' WILL BE SET TO ZERO.		* 05740000
					646 *			* 05750000
					647 *	R14 IS THE RETURN ADDRESS.		* 05760000
					648 *			* 05770000
0007D6	50E0	CD54		00D54	649	LABL1000	ST R14,RETSV2 GP10081	05780000
					650		ITRACE ID=FINDLABL, ATTEMPTING TO FIND A LABEL	+05790000
							RDATA1=(R6), .. INSTRUCTION'S DISPLACEMENT	+05800000
							RDATA2=(R5) .. INSTRUCTION	05810000
0007DA	BE6F	B0E0		000E0	651+	STCM	(R6),15,TRDATA1	00460000
0007DE	BE5F	B0E8		000E8	652+	STCM	(R5),15,TRDATA2	00610000
0007E2	45E0	B564		00564	653+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0007E6	C6C9D5C4D3C1C2D3				654+	DC	CL8'FINDLABL' TRACE ID	00670000
0007EE	D703	CD60	CD60	00D60	655	XC	WORKREF,WORKREF ASSUME NO VALID REFERENCE	05820000
					656	ITRACE	ID=SRCHBASE SEARCHING BASE ENTRIES	05830000
0007F4	45E0	B564		00564	657+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0007F8	E2D9C3C8C2C1E2C5				658+	DC	CL8'SRCHBASE' TRACE ID	00670000
000800	BF3F	B108		00108	659	ICM	R3,15,COMMBASE FIRST BASE ENTRY	05840000
				00000	660	USING	BASEDSCT,R3 DEFINE BASE	05850000
000804	4780	CA3C		00A3C	661	BZ	LABL1200 NOT REFERENCING A KNOWN BASE	05860000
000808	D500	CD9E	3018	00D9E	662	LABL1010	CLC WORKBASE,BASEREG CORRECT REGISTER?	05870000
00080E	4770	C822		00822	663	BNE	LABL1020 NO	05880000
000812	5560	300C		0000C	664	CL	R6,BASEBEGN TOO LOW? GP99146	05890000
000816	4740	C822		00822	665	BL	LABL1020 YES	05900000
00081A	5560	3010		00010	666	CL	R6,BASEEND TOO HIGH? GP99146	05910000
					667	*FAILS*	BNH LABL1030 THIS IS A DEFINED BASE GP99147	05920000
00081E	4740	C82E		0082E	668	BL	LABL1030 THIS IS A DEFINED BASE GP99147	05930000
000822	BF3F	3000		00000	669	LABL1020	ICM R3,15,BASENEXT NEXT BASE	05940000
000826	4770	C808		00808	670	BNZ	LABL1010 LOOP GP10081	05950000
00082A	47F0	CA3C		00A3C	671	B	LABL1200 NOT BASED GP10081	05960000
					673	LABL1030	ITRACE ID=BASEFND, BASE REFERENCE FOUND	+05980000
							RDATA1=R3, .. BASE FOR REFERENCE	+05990000
							DATA2=BASEBEGN .. A PORTION OF THE ENTRY	06000000
00082E	BE3F	B0E0		000E0	674+	LABL1030	STCM R3,15,TRDATA1	00460000
000832	41E0	300C		0000C	675+	LA	R14,BASEBEGN DATA ADDRESS	00510000
000836	D207	B0E8	E000	000E8	676+	MVC	TRDATA2,0(R14) MOVE DATA	00530000
00083C	45E0	B564		00564	677+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000840	C2C1E2C5C6D5C440				678+	DC	CL8'BASEFND' TRACE ID	00670000
000848	5810	3014		00014	679	L	R1,BASEDISP DISPLACEMENT TO BASE GP99146	06010000
00084C	5A10	CD74		00D74	680	A	R1,WORKDISP PLUS DISPLACEMENT FROM BASE	06020000
000850	5010	CD74		00D74	681	ST	R1,WORKDISP SAVE TOTAL DISPLACEMENT GP99146	06030000
000854	58E0	CD54		00D54	682	L	R14,RETSV2 GP10081	06040000
000858	D703	CD68	CD68	00D68	684	LABL1040	XC WORKOPD,WORKOPD CLEAR DISPLACEMENT FROM LABEL	06060000
00085E	50E0	CD54		00D54	685	ST	R14,RETSV2 SAVE RETURN ADDRESS GP10081	06070000
000862	4170	B10C		0010C	686	LA	R7,COMMDATA FIRST DATA ENTRY GP99162	06080000
000866	BF7F	7000		00000	687	LABL1050	ICM R7,15,DATANEXT NEXT DATA BLOCK GP99162	06090000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48	07/11/18		
00086A	4780	C8D2		008D2	688	BZ	LABL1090	NOT IN A DATA AREA	06100000		
00086E	D503	CD74	701C	00D74	0001C	689	CLC	WORKDISP,DATABEGN	TOO LOW?	06110000	
000874	4740	C866		00866	690	BL	LABL1050	YES	GP99162	06120000	
000878	D503	CD74	7020	00D74	00020	691	CLC	WORKDISP,DATAEND	TOO HIGH?	06130000	
00087E	4720	C866		00866	692	BH	LABL1050	YES; TRY ANOTHER	GP99162	06140000	
					693	*	-----	-----	*	06150000	
					694	*	DATA AREA REFERENCED		*	06160000	
					695	*	-----	-----	*	06170000	
					696	LABL1070	ITRACE ID=DATA REF,	DATA REFERENCE FOUND		+06180000	
							RDATA1=R7,	.. BASE FOR REFERENCE		+06190000	
							DATA2=DATABEGN	.. A PORTION OF THE ENTRY		06200000	
000882	BE7F	B0E0		000E0	697+	LABL1070	STCM	R7,15,TRDATA1		00460000	
000886	41E0	701C		0001C	698+		LA	R14,DATABEGN	DATA ADDRESS	00510000	
00088A	D207	B0E8	E000	000E8	00000	699+	MVC	TRDATA2,0(R14)	MOVE DATA	00530000	
000890	45E0	B564		00564	700+		BAL	R14,TRACE000	ENTER TRACE ROUTINE	00640000	
000894	C4C1E3C1D9C5C640				701+		DC	CL8'DATA REF'	TRACE ID	00670000	
00089C	D208	CD95	CDB0	00D95	00DB0	702	MVC	WORKLABL,DATA	SET NAME TO 'DATA '	06210000	
0008A2	D703	CD68	CD68	00D68	00D68	703	XC	WORKOPD,WORKOPD	ASSUME NO DISPLACEMENT	06220000	
0008A8	9110	702B		0002B	704		TM	DATATYPE,X'10'	ATOMIC DATUM ?	GP10066	06230000
0008AC	4780	C8C2		008C2	705		BZ	LABL1080	NO; SUBDIVISION LEGAL	GP10066	06240000
					706	*	-----	-----	*	06250000	
					707	*	ITEM REFERENCED IS AN RLD ITEM (ADCON, VCON, Q, OR CXD).		*	06260000	
					708	*	RLD ITEMS CANNOT BE SUB-DIVIDED (WE CANNOT GENERATE		*	06270000	
					709	*	A LABEL IN THE MIDDLE OF A FOUR BYTE ADCON FOR EXAMPLE).		*	06280000	
					710	*	THE REFERENCE WILL BE CHANGED SO THE LABEL WILL BE DEFINED		*	06290000	
					711	*	AT THE BEGINNING OF THE RLD AND A DISPLACEMENT FROM THE		*	06300000	
					712	*	LABEL WILL BE RETURNED IN WORKOPD.		*	06310000	
					713	*	-----	-----	*	06320000	
0008B0	5800	CD74		00D74	714		L	R0,WORKDISP	DISPLACEMENT	GP99146	06330000
0008B4	5810	701C		0001C	715		L	R1,DATABEGN	DISPLACEMENT	GP99146	06340000
0008B8	5010	CD74		00D74	716		ST	R1,WORKDISP	CHANGE TO DATA ORIGIN	GP99146	06350000
0008BC	1B01				717		SR	R0,R1	MINUS ORIGIN		06360000
0008BE	5000	CD68		00D68	718		ST	R0,WORKOPD	DISPLACEMENT FROM LABEL	GP99146	06370000
0008C2					719	LABL1080	DS	OH			06380000
0008C2	95D9	CD9F		00D9F	720		CLI	WORKTYPE,\$LABLR	LABEL FOR AN RLD REFERENCE?		06390000
0008C6	4780	C95C		0095C	721		BE	LABL1152	YES	GP10081	06400000
0008CA	92C4	CD9F		00D9F	722		MVI	WORKTYPE,\$LABLD	DATA LABEL		06410000
0008CE	47F0	C95C		0095C	723		B	LABL1152		GP10081	06420000
					724	*	-----	-----	*	06430000	
					725	*	CSECT REFERENCE FROM A DEFINED BASE		*	06440000	
					726	*	-----	-----	*	06450000	
0008D2					727	LABL1090	DS	OH			06460000
					728		ITRACE ID=CSECTREF,	DATA REFERENCE FOUND		+06470000	
							RDATA1=R3,	.. BASE FOR REFERENCE		+06480000	
							DATA2=BASEBEGN	.. A PORTION OF THE ENTRY		06490000	
0008D2	BE3F	B0E0		000E0	729+		STCM	R3,15,TRDATA1		00460000	
0008D6	41E0	300C		0000C	730+		LA	R14,BASEBEGN	DATA ADDRESS	00510000	
0008DA	D207	B0E8	E000	000E8	00000	731+	MVC	TRDATA2,0(R14)	MOVE DATA	00530000	
0008E0	45E0	B564		00564	732+		BAL	R14,TRACE000	ENTER TRACE ROUTINE	00640000	
0008E4	C3E2C5C3E3D9C5C6				733+		DC	CL8'CSECTREF'	TRACE ID	00670000	
0008EC	95D9	CD9F		00D9F	734		CLI	WORKTYPE,\$LABLR	WORKING ON A RLD ITEM?	06500000	
0008F0	4780	C8F8		008F8	735		BE	LABL1100	YES	06510000	
0008F4	92C9	CD9F		00D9F	736		MVI	WORKTYPE,\$LABLI	INSTRUCTION LABEL	06520000	
0008F8					737	LABL1100	DS	OH		06530000	
0008F8	D208	CD95	CDB0	00D95	00DB0	738	MVC	WORKLABL,DATA	SET LABEL PREFIX	GP99162	06540000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48	07/11/18		
0008FE	1BFF				739	SR	R15,R15	CLEAR REGISTER	06550000		
000900	BFF3	B156	00156		740	ICM	R15,3,COMMPFXL	PREFIX'S LENGTH	06560000		
000904	4780	C914	00914		741	BZ	LABL1120	PREFIX NOT DEFINED; LEAVE AS DATA	GP99162 06570000		
000908	D208	CD95	CDC0	00D95	00DC0	742	MVC	WORKLABL,CHARZERO	SET NAME TO '0000'	GP99162 06580000	
00090E	06F0				743	BCTR	R15,0	FOR EXECUTE	06590000		
000910	44F0	CA36	00A36		744	EX	R15,LABLBMVC	SET LABEL PREFIX	06600000		
000914	1BFF				745	LABL1120	SR	R15,R15	GP99162 06610000		
000916	5810	B110	00110		746	L	R1,COMMDISP	DISPLACEMENT TABLE ADDRESS	06620000		
00091A					747	LABL1130	DS	OH	06630000		
00091A	D503	CDC4	1000	00DC4	00000	748	CLC	XFFFF,0(R1)	END OF TABLE?	06640000	
000920	4780	C93C		0093C		749	BE	LABL1140	YES	06650000	
000924	D503	CD74	1000	00D74	00000	750	CLC	WORKDISP,0(R1)	DISPLACEMENT FOUND?	06660000	
00092A	4780	C95C		0095C		751	BE	LABL1152	YES	GP10081 06670000	
00092E	4740	C93C		0093C		752	BL	LABL1140	ONE TOO FAR	06680000	
000932	18F1				753	LR	R15,R1		GP99162 06690000		
000934	4110	1004	00004		754	LA	R1,4(,R1)	NEXT DISPLACEMENT	06700000		
000938	47F0	C91A	0091A		755	B	LABL1130	LOOP	06710000		
00093C	121F				756	LABL1140	LTR	R1,R15	GET PRIOR ADDRESS	GP99162 06720000	
00093E	4780	CAFA	00AFA		757	BZ	LABL1990	NONE; NO VALID LABEL	GP10081 06730000		
000942	5800	CD74		00D74		758	L	R0,WORKDISP	DISPLACEMENT TO DATA REFERENCED	06740000	
000946	5B00	1000		00000		759	S	R0,0(,R1)	MINUS DISPLACEMENT TO LABEL	06750000	
00094A	5000	CD68		00D68		760	ST	R0,WORKOPD	SET DISPLACEMENT FROM LABEL	06760000	
00094E	D203	CD74	1000	00D74	00000	761	MVC	WORKDISP,0(R1)	SET DISPLACEMENT TO PREV INSTR	06770000	
000954	47F0	C95C		0095C		762	B	LABL1152	SKIP RETURN SAVE	GP10081 06780000	
					763	*	-----	*	06790000		
					764	*	DETERMINE WHERE THIS LABEL GOES IN THE CSECT LABEL CHAIN	*	06800000		
					765	*	-----	*	06810000		
000958	50E0	CD54		00D54		766	LABL1150	ST	R14,RETSV2	SAVE RETURN ADDRESS	GP10081 06820000
					767	LABL1152	ITRACE	ID=ADDLABEL,	CSECT REFERENCE	+06830000	
								DATA1=WORKDISP	.. DISPLACEMENT REFERENCED	06840000	
00095C	41E0	CD74		00D74		768	LABL1152	LA	R14,WORKDISP	DATA ADDRESS	00360000
000960	D207	B0E0	E000	000E0	00000	769	+	MVC	TRDATA1,0(R14)	MOVE DATA	00370000
000966	45E0	B564		00564		770	+	BAL	R14,TRACE000	ENTER TRACE ROUTINE	00640000
00096A	C1C4C4D3C1C2C5D3					771	+	DC	CL8'ADDLABEL'	TRACE ID	00670000
000972	4130	B118		00118		772		LA	R3,COMMLABL	FORWARD POINTER'S ADDRESS	06850000
000976	BF9F	B118		00118		773		ICM	R9,15,COMMLABL	FIRST CSECT LABEL	06860000
				00000		774		USING	LABLDSCT,R9	DEFINE BASE	06870000
00097A	4780	C9A4		009A4		775		BZ	LABL1170	INSERT ON END OF CHAIN	06880000
00097E						776	LABL1160	DS	OH		06890000
00097E	D503	9014	CD74	00014	00D74	777		CLC	LABLDISP,WORKDISP	TEST DISPLACEMENT	06900000
					778	*OLD*		BE	LABL1190	DUPLICATE	06910000
000984	4720	C9A4		009A4		779		BH	LABL1170	INSERT NEW NAME HERE	06920000
000988	4740	C998		00998		780		BL	LABL1162	TRY AGAIN	GP10012 06930000
00098C	95C5	CD9F		00D9F		781		CLI	WORKTYPE,\$LABEL	ESD, RLD, ETC. ?	GP10012 06940000
000990	4770	CA10		00A10		782		BNE	LABL1190	NO; SKIP DUPLICATE	GP10012 06950000
000994	47F0	C9A4		009A4		783		B	LABL1170	YES; EXPAND DUPLICATE LBL	GP10012 06960000
000998	4130	9000		00000		784	LABL1162	LA	R3,LABLNEXT	CURRENT BLOCK'S FWD POINTER ADDR	06970000
00099C	BF9F	9000		00000		785		ICM	R9,15,LABLNEXT	NEXT CSECT LABEL	06980000
0009A0	4770	C97E		0097E		786		BNZ	LABL1160	LOOP	06990000
					787	*	-----	*		07000000	
					788	*	A NEW CSECT LABEL NEEDS TO BE GENERATED	*		07010000	
					789	*	-----	*		07020000	
0009A4	4100	0024		00024		790	LABL1170	LA	R0,LABLL		GP99140 07030000
0009A8	45E0	B684		00684		791		BAL	R14,GETMAIN	ACQUIRE STORAGE FOR NEW LABL BLOCK	07040000
					792			ITRACE	ID=NEWLABL,	NEW CSECT LABEL	+07050000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
							RDATA1=R1, .. BLOCK'S ADRESS +07060000	
							DATA2=WORKDISP .. LABEL'S DISPLACEMENT 07070000	
0009AC	BE1F	B0E0	000E0		793+	STCM	R1,15,TRDATA1 00460000	
0009B0	41E0	CD74	00D74		794+	LA	R14,WORKDISP DATA ADDRESS 00510000	
0009B4	D207	B0E8	E000	000E8	00000	MVC	TRDATA2,0(R14) MOVE DATA 00530000	
0009BA	45E0	B564	00564		796+	BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000	
0009BE	D5C5E6D3C1C2D340				797+	DC	CL8'NEWLABL' TRACE ID 00670000	
0009C6	5010	3000	00000		798	ST	R1,LABLNEXT-LABLDSC(,R3) PREVIOUS BLOCK'S FWD POINTER 07080000	
0009CA	5090	1000	00000		799	ST	R9,LABLNEXT-LABLDSC(,R1) NEXT BLOCK'S ADDRESS 07090000	
0009CE	1891				800	LR	R9,R1 SET BASE 07100000	
0009D0	9240	9022	00022		801	MVI	LABLSRCE,C' ' SHOW SUPPLIED BY PROGRAM GP99139 07110000	
0009D4	D207	9004	CDB8	00004	00DB8	MVC	LABLEYE,LABL SET BLOCK ID 07120000	
0009DA	95C5	CD9F	00D9F		803	CLI	WORKTYPE,\$LABLE ESD LABEL? 07130000	
0009DE	4780	C9F6	009F6		804	BE	LABL1180 YES 07140000	
0009E2	9104	B163	00163		805	TM	COMMFLAG,\$SEQLABL SEQUENTIAL LABELS? 07150000	
0009E6	4710	C9F6	009F6		806	BO	LABL1180 YES.. SUFFIX WILL BE CREATED LATER 07160000	
					807	SHEX	WORKLABL+4,WORKDISP+2,2,FILL= CONVERT ONLY GP10081 07170000	
0009EA	F342	CD99	CD76	00D99	00D76	UNPK	WORKLABL+4(2*2+1),WORKDISP+2(2+1) GP10065 00240000	
0009F0	DC03	CD99	B185	00D99	00185	TR	WORKLABL+4(2*2),COMMHXTR GP10081 00250000	
0009F6					810	LABL1180 DS	OH 07180000	
0009F6	9540	9022	00022		811	CLI	LABLSRCE,C' ' USER SUPPLIED LABEL? GP99139 07190000	
0009FA	4720	CA04	00A04		812	BH	LABL1182 YES; DON'T MESS WITH IT GP99139 07200000	
0009FE	D207	900C	CD95	0000C	00D95	MVC	LABLNAME,WORKLABL SET LABEL'S NAME 07210000	
000A04	D203	9014	CD74	00014	00D74	MVC	LABLDISP,WORKDISP SET DISPLACEMENT GP99139 07220000	
000A0A	D200	9021	CD9F	00021	00D9F	MVC	LABLTYPE,WORKTYPE SET LABEL TYPE 07230000	
000A10					816	LABL1190 DS	OH 07240000	
000A10	5090	CD60	00D60		817	ST	R9,WORKREF SET REFERENCE TO THIS LABEL 07250000	
000A14	95C4	9021	00021		818	CLI	LABLTYPE,\$LABLD LABEL TYPE CURRENTLY 'DATA'? 07260000	
000A18	4780	CAFA	00AFA		819	BE	LABL1990 YES 07270000	
000A1C	95C9	CD9F	00D9F		820	CLI	WORKTYPE,\$LABLI WAS REQUEST FOR INSTRUCTION LABEL? 07280000	
000A20	4770	CAFA	00AFA		821	BNE	LABL1990 NO 07290000	
000A24	9540	9022	00022		822	CLI	LABLSRCE,C' ' USER SUPPLIED LABEL? GP99139 07300000	
000A28	4720	CAFA	00AFA		823	BH	LABL1990 YES; DON'T MESS WITH IT GP99139 07310000	
000A2C	D203	900C	CD95	0000C	00D95	MVC	LABLNAME(4),WORKLABL CHANGE PREFIX 07320000	
000A32	47F0	CAFA	00AFA		825	B	LABL1990 07330000	
000A36	D200	CD95	B169	00D95	00169	LABLBMVC MVC	WORKLABL(0),COMMPFX SET PREFIX 07340000	
					827	*	----- * 07350000	
					828	*	NO DEFINED CSECT REFERENCE WAS FOUND, TRY A DSECT * 07360000	
					829	*	----- * 07370000	
					830	LABL1200	ITRACE ID=SRCHDSC(SEARCHING DSECT ENTRIES 07380000	
000A3C	45E0	B564	00564		831+	LABL1200 BAL	R14,TRACE000 ENTER TRACE ROUTINE 00640000	
000A40	E2D9C3C8C4E2C3E3				832+	DC	CL8'SRCHDSC(TRACE ID 00670000	
000A48	BF3F	B100	00100		833	ICM	R3,15,COMMUSNG FIRST USING BLOCK 07390000	
				00000	834	USNG	USNGDSC(,R3 DEFINE BASE 07400000	
000A4C					835	LABL1210 DS	OH 07410000	
000A4C	4780	CAFA	00AFA		836	BZ	LABL1990 NOT REFERENCING A DSECT 07420000	
000A50	D500	CD9E	3030	00D9E	00030	CLC	WORKBASE,USNGBASE CORRECT REGISTER? 07430000	
000A56	4770	CA72	00A72		838	BNE	LABL1220 NO 07440000	
000A5A	9180	3031	00031		839	TM	USNGFLAG,\$USNGND DISPLACEMENTS ON USING STATEMENT? 07450000	
000A5E	4710	CA7A	00A7A		840	BO	LABL1230 NO 07460000	
000A62	5560	3028	00028		841	CL	R6,USNGBEGN TOO LOW? GP99146 07470000	
000A66	4740	CA72	00A72		842	BL	LABL1220 YES 07480000	
000A6A	5560	302C	0002C		843	CL	R6,USNGEND TOO HIGH? GP99146 07490000	
					844	*FAILS* BNH	LABL1230 NO, DSECT REFERENCE LOCATED 07500000	
000A6E	4740	CA7A	00A7A		845	BL	LABL1230 NO, DSECT REFERENCE LOCATED 07510000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000A72					846	LABL1220	DS OH	07520000
000A72	BF3F	3000	00000		847		ICM R3,15,USNGNEXT NEXT USING BLOCK	07530000
000A76	47F0	CA4C	00A4C		848		B LABL1210 LOOP	07540000
000A7A					849	LABL1230	DS OH	07550000
000A7A	5820	301C	0001C		850		L R2,USNGDSA ASSOCIATED DSECT BLOCK'S ADDRESS	07560000
					851		ITRACE ID=DSCTFND, DSECT REFERENCE	+07570000
							RDATA1=R3, .. USING BLOCK'S ADDRESS	+07580000
							RDATA2=R2 .. DSECT BLOCK'S ADDRESS	07590000
000A7E	BE3F	B0E0	000E0		852+	STCM	R3,15,TRDATA1	00460000
000A82	BE2F	B0E8	000E8		853+	STCM	R2,15,TRDATA2	00610000
000A86	45E0	B564	00564		854+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000A8A	C4E2C3E3C6D5C440				855+	DC	CL8'DSCTFND' TRACE ID	00670000
000A92	4190	2014	00014		856	LA	R9,DSCTLBA FIRST LABEL BLOCK'S ADDRESS	GP99162 07600000
000A96	5800	3024	00024		857	L	R0,USNGDISP SET OFFSET INTO DSECT	GP99146 07610000
000A9A	1BFF				858	SR	R15,R15	GP99162 07620000
000A9C	1BEE				859	SR	R14,R14 LOOK FOR BEST FIT	GP03064 07630000
000A9E	BF9F	9000	00000		860	LABL1240	ICM R9,15,LABLNEXT NEXT LABEL	GP99162 07640000
000AA2	4780	CAC6	00AC6		861	BZ	LABL1250 NO VALID LABEL KNOWN	GP99162 07650000
000AA6	5810	9014	00014		862	L	R1,LABLDISP DISPLACEMENT OF LABEL	GP99146 07660000
000AAA	1B10				863	SR	R1,R0 MINUS DISPLACEMENT TO LABEL	07670000
000AAC	4740	CA9E	00A9E		864	BM	LABL1240 IGNORE IF UNUSABLE	GP03064 07680000
000AB0	5910	CD74	00D74		865	C	R1,WORKDISP DISPLACEMENTS MATCH?	GP99146 07690000
000AB4	4720	CA9E	00A9E		866	BH	LABL1240 NOT YET	GP99162 07700000
000AB8	191E				867	CR	R1,R14 BEST FIT YET ?	GP03064 07710000
					868	*OLD*	BNH LABL1240 NO; IGNORE	GP03064 07720000
000ABA	4740	CA9E	00A9E		869	BL	LABL1240 NO; IGNORE	GP08234 07730000
000ABE	18E1				870	LR	R14,R1 SAVE FIT	GP03064 07740000
000AC0	18F9				871	LR	R15,R9 SAVE THE ONE WE HIT	GP99162 07750000
000AC2	47F0	CA9E	00A9E		872	B	LABL1240 TRY FOR A CLOSER ONE	GP99162 07760000
000AC6	129F				873	LABL1250	LTR R9,R15 DID WE FIND A MATCH?	GP99162 07770000
000AC8	4780	CAFA	00AFA		874	BZ	LABL1990 NO; JUST RETURN	GP99162 07780000
					875		ITRACE ID=LABLFND, LABEL WITHIN THE DSECT FOUND	+07790000
							RDATA1=R9, .. LABEL BLOCK'S ADDRESS	+07800000
							DATA2=LABLNAME .. LABEL	07810000
000ACC	BE9F	B0E0	000E0		876+	STCM	R9,15,TRDATA1	00460000
000AD0	41E0	900C	0000C		877+	LA	R14,LABLNAME DATA ADDRESS	00510000
000AD4	D207	B0E8	E000	000E8	878+	MVC	TRDATA2,0(R14) MOVE DATA	00530000
000ADA	45E0	B564	00564		879+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000ADE	D3C1C2D3C6D5C440				880+	DC	CL8'LABLFND' TRACE ID	00670000
000AE6	5800	CD74	00D74		881	L	R0,WORKDISP DISPLACEMENT FROM INSTRUCTION	07820000
000AEA	5B00	9014	00014		882	S	R0,LABLDISP DISPLACEMENT FROM LABEL	GP03064 07830000
000AEE	5A00	3024	00024		883	A	R0,USNGDISP DISPLACEMENT FROM DSECT	GP03064 07840000
000AF2	5000	CD68	00D68		884	ST	R0,WORKOPD SAVE DISPLACEMENT FROM THE LABEL	07850000
000AF6	5090	CD60	00D60		885	ST	R9,WORKREF LABEL BLOCK'S ADDRESS	07860000
000AFA	58E0	CD54	00D54		886	LABL1990	L R14,RETSAV2	GP10081 07870000
000AFE	07FE				887	BR	R14 RETURN	GP10081 07880000
					889	*	-----	* 07900000
					890	*		* 07910000
					891	*	ADD DATA BLOCKS	* 07920000
					892	*		* 07930000
					893	*	R14 IS THE RETURN ADDRESS	* 07940000
					894	*		* 07950000
					895	*	-----	* 07960000
000B00	D603	CD7C	CD7C	00D7C	00D7C	896	LABL2000 OC DATASIZE,DATASIZE ANY DATA	GP99155 07970000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
000B06	078E				897	BZR	R14	NO DATA	GP10081	07980000	
000B08	50E0	CD54	00D54		898	ST	R14,RETSAV2	SAVE RETURN ADDRESS	GP10081	07990000	
000B0C	4170	B10C	0010C		899	LA	R7,COMMDATA	ANCHOR'S ADDRESS	GP99155	08000000	
000B10	1827				900	LABL2010	LR R2,R7	PRESERVE INSERTION POINT	GP99155	08010000	
000B12	BF7F	7000	00000		901	ICM	R7,15,DATANEXT	NEXT DATA BLOCK'S ADDRESS	GP99155	08020000	
000B16	4780	CB24	00B24		902	BZ	LABL2020	NO DATA AREAS		08030000	
000B1A	D503	701C	CD78	0001C	00D78	903	CLC	DATABEGN,DATADISP	DOES IT GO HERE?		08040000
000B20	47D0	CB10	00B10		904	BNH	LABL2010	NOT YET; LOOP	GP99155	08050000	
000B24	4100	0030	00030		906	LABL2020	LA R0,DATAL		GP99140	08070000	
000B28	45E0	B684	00684		907	BAL	R14,GETMAIN	ACQUIRE STORAGE FOR NEW DATA BLOCK		08080000	
					908	ITRACE	ID=NEWDATA, RDATA1=R1	NEW BLOCK DATA BLOCK .. BLOCK'S ADDRESS		+08090000	
000B2C	BE1F	B0E0	000E0		909+	STCM	R1,15,TRDATA1			00460000	
000B30	45E0	B564	00564		910+	BAL	R14,TRACE000	ENTER TRACE ROUTINE		00640000	
000B34	D5C5E6C4C1E3C140				911+	DC	CL8'NEWDATA'	TRACE ID		00670000	
000B3C	5010	2000	00000		912	ST	R1,0(,R2)	CHAIN PREVIOUS BLOCK TO NEW		08110000	
000B40	5070	1000	00000		913	ST	R7,DATANEXT-DATADSCT(,R1)	CHAIN NEXT BLOCK TO NEW BLOCK		08120000	
000B44	1871				914	LR	R7,R1	SET BASE		08130000	
000B46	D207	7004	CDB0	00004	00DB0	915	MVC	DATAEYE,DATA	SET BLOCK IDENTIFIER		08140000
000B4C	D203	701C	CD78	0001C	00D78	916	MVC	DATABEGN,DATADISP	STARTING DISPLACEMENT		08150000
000B52	1816				917	LR	R1,R6	CURRENT DISPLACEMENT		08160000	
000B54	0610				918	BCTR	R1,0		GP99154	08170000	
000B56	5910	B124	00124		919	C	R1,COMMCSEA	BEYOND END OF CSECT?	GP10066	08180000	
000B5A	47D0	CB62	00B62		920	BNH	LABL2030	NO	GP99154	08190000	
000B5E	5810	B124	00124		921	L	R1,COMMCSEA	LIMIT TO CSECT LENGTH	GP10066	08200000	
000B62					922	LABL2030	DS OH			08210000	
000B62	5010	7020	00020		923	ST	R1,DATAEND	ENDING DISPLACEMENT	GP99146	08220000	
000B66	5B10	701C	0001C		924	S	R1,DATABEGN	STARTING DISPLACEMENT		08230000	
000B6A	4110	1001	00001		925	LA	R1,1(,R1)	PLUS 1		08240000	
000B6E	5010	7024	00024		926	ST	R1,DATAL	DATA AREA SIZE	GP99146	08250000	
000B72	D703	CD7C	CD7C	00D7C	00D7C	927	XC	DATASIZE,DATASIZE	CLEAR DATA SKIPPED		08260000
000B78	D703	CD78	CD78	00D78	00D78	928	XC	DATADISP,DATADISP	CLEAR STARTING DISPLACEMENT		08270000
000B7E	9203	702B	0002B		929	MVI	DATATYPE,\$DATAINT	INTERNALLY DETECTED DATA		08280000	
000B82	D207	700C	B225	0000C	00225	930	MVC	DATANAME,COMMBLKS	INITIALIZE NAME		08290000
000B88	58E0	CD54	00D54		931	L	R14,RETSAV2		GP10081	08300000	
000B8C	07FE				932	BR	R14		GP10081	08310000	
					934	*	-----		*	08330000	
					935	*			*	08340000	
					936	*	IF SEQUENTIAL LABELS ARE DESIRED, RUN THE LABEL CHAIN AND		*	08350000	
					937	*	SET THE SUFFIX IN THE NON-ESD LABELS.		*	08360000	
					938	*			*	08370000	
					939	*	-----		*	08380000	
000B8E					940	LABL3000	DS OH			08390000	
000B8E	9104	B163	00163		941	TM	COMMFLAG,\$SEQLABL	SEQUENTIALLY NUMBERED LABELS?		08400000	
000B92	47E0	CCDA	00CDA		942	BNO	EXIT0000	NO		08410000	
000B96	4190	B118	00118		943	LA	R9,COMMLABL	FIRST LABEL	GP99155	08420000	
					944	ITRACE	ID=SEQNBR			08430000	
000B9A	45E0	B564	00564		945+	BAL	R14,TRACE000	ENTER TRACE ROUTINE		00640000	
000B9E	E2C5D8D5C2D94040				946+	DC	CL8'SEQNBR'	TRACE ID		00670000	
000BA6	BF9F	9000	00000		947	LABL3010	ICM R9,15,LABLNEXT	NEXT LABEL BLOCK	GP99155	08440000	
000BAA	4780	CCDA	00CDA		948	BZ	EXIT0000	NO LABELS TO NUMBER	GP99155	08450000	
000BAE	95C5	9021	00021		949	CLI	LABLTYPE,\$LABEL	ESD TYPE LABEL?		08460000	
000BB2	4780	CBA6	00BA6		950	BE	LABL3010	YES, DON'T MODIFY IT	GP99155	08470000	

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000BB6	9540	9022		00022	951		CLI LABLSRCE,C' ' USER SUPPLIED LABEL?	GP99139 08480000
000BBA	4720	CBA6		00BA6	952		BH LABL3010 YES; DON'T MESS WITH IT	GP99139 08490000
000BBE	FA21	CD82	CD85	00D82	00D85	953	AP LABLNBR,P10 ADD TO LABEL COUNTER	08500000
000BC4	D205	CD87	CD8D	00D87	00D8D	954	MVC EDITWORK,EDITWORD INITIALIZE WITH EDIT WORD	08510000
000BCA	DE05	CD87	CD82	00D87	00D82	955	ED EDITWORK,LABLNBR EDIT LABEL NUMBER	08520000
000BD0	D203	9010	CD89	00010	00D89	956	MVC LABLNAME+4(4),EDITWORK+2	08530000
000BD6	47F0	CBA6		00BA6	957		B LABL3010 LOOP	GP99155 08540000
000BDA					959	ERR0010	DS OH	08560000
000BDA	D207	CDFE	300C	00DFE	0000C	960	MVC EMSG01NM,USNGDSNM SET DSECT'S NAME	08570000
000BE0	D250	B710	CDEC	00710	00DEC	961	MVC PRTDATA(EMSG01L),EMSG01	08580000
000BE6	47F0	CC7C		00C7C	962		B ERRPRINT SET FLAGS AND EXIT	GP99155 08590000
					964	*	-----*	08610000
					965	*	DATE (60) OR INSTRUCTION (20) OVERLAP WITH DATA DEFINITION	* 08620000
					966	*	-----*	08630000
000BEA	D209	B74C	CD16	0074C	00D16	967	ERR0060 MVC PRTDATA+EMSG02C-EMSG02(10),=CL10' DATA AREA'	GP10075 08640000
000BF0	47F0	CBFA		00BFA	968		B ERR0025 GO TO COMMON	GP10075 08650000
000BF4	D20A	B74C	CD20	0074C	00D20	970	ERR0020 MVC PRTDATA+EMSG02C-EMSG02(11),=CL11' INSTRUCTION'	GP10075 08670000
000BFA	D65D	B710	CE3D	00710	00E3D	971	ERR0025 OC PRTDATA(EMSG02L),EMSG02 COMPLETE MESSAGE	GP10075 08680000
					972		SHEX PRTDATA+EMSG02A-EMSG02,DATABEGN START OFFSET	GP10081 08690000
000C00	F384	B728	701C	00728	0001C	973+	UNPK PRTDATA+EMSG02A-EMSG02(2*L'DATABEGN+1),DATABEGN(L'DATABEX00310000	GP10065
					+		GN+1)	GP10065
000C06	DC07	B728	B185	00728	00185	974+	TR PRTDATA+EMSG02A-EMSG02(2*L'DATABEGN),COMMHXTR	GP10081 00320000
000C0C	9240	B730		00730	975+		MVI PRTDATA+EMSG02A-EMSG02+2*L'DATABEGN,C' '	GP10065 00340000
					976		SHEX PRTDATA+EMSG02B-EMSG02,DATAEND END OFFSET	GP10081 08700000
000C10	F384	B734	7020	00734	00020	977+	UNPK PRTDATA+EMSG02B-EMSG02(2*L'DATAEND+1),DATAEND(L'DATAEND+X00310000	GP10065
					+		1)	GP10065
000C16	DC07	B734	B185	00734	00185	978+	TR PRTDATA+EMSG02B-EMSG02(2*L'DATAEND),COMMHXTR	GP10081 00320000
000C1C	9240	B73C		0073C	979+		MVI PRTDATA+EMSG02B-EMSG02+2*L'DATAEND,C' '	GP10065 00340000
					980		SHEX PRTDATA+EMSG02D-EMSG02,(R6),4 CURRENT ADDRESS	GP10081 08710000
000C20	5060	B000		00000	981+		ST R6,COMMDWRD	GP10081 00170000
000C24	F384	B75B	B000	0075B	00000	982+	UNPK PRTDATA+EMSG02D-EMSG02(2*4+1),COMMDWRD+4-4(4+1)	GP10081 00180000
000C2A	DC07	B75B	B185	0075B	00185	983+	TR PRTDATA+EMSG02D-EMSG02(2*4),COMMHXTR	GP10081 00190000
000C30	9240	B763		00763	984+		MVI PRTDATA+EMSG02D-EMSG02+2*4,C' '	GP10065 00210000
000C34	D203	B000	5000	00000	00000	985	MVC COMMDWRD(4),0(R5) TEXT	GP10081 08720000
					986		SHEX PRTDATA+EMSG02E-EMSG02,COMMDWRD,4 TEXT	GP10081 08730000
000C3A	F384	B766	B000	00766	00000	987+	UNPK PRTDATA+EMSG02E-EMSG02(2*4+1),COMMDWRD(4+1)	GP10065 00240000
000C40	DC07	B766	B185	00766	00185	988+	TR PRTDATA+EMSG02E-EMSG02(2*4),COMMHXTR	GP10081 00250000
000C46	9240	B76E		0076E	989+		MVI PRTDATA+EMSG02E-EMSG02+2*4,C' '	GP10065 00270000
000C4A	47F0	CC7C		00C7C	990		B ERRPRINT SET FLAGS AND EXIT	GP99155 08740000
000C4E					992	ERR0030	DS OH	08760000
000C4E	D24C	B710	CF1B	00710	00F1B	993	MVC PRTDATA(EMSG04L),EMSG04	08770000
000C54	5060	B0E8		000E8	994		ST R6,TRDATA2 SAVE FOR FORMATTING	GP08063 08780000
					995		SHEX PRTDATA+EMSG040-EMSG04,TRDATA2,4 CURRENT ADDR	GP10081 08790000
000C58	F384	B755	B0E8	00755	000E8	996+	UNPK PRTDATA+EMSG040-EMSG04(2*4+1),TRDATA2(4+1)	GP10065 00240000
000C5E	DC07	B755	B185	00755	00185	997+	TR PRTDATA+EMSG040-EMSG04(2*4),COMMHXTR	GP10081 00250000
000C64	9240	B75D		0075D	998+		MVI PRTDATA+EMSG040-EMSG04+2*4,C' '	GP10065 00270000
000C68	47F0	CC7C		00C7C	999		B ERRPRINT SET FLAGS AND EXIT	GP99155 08800000
000C6C					1001	ERR0040	DS OH	08820000
000C6C	D245	B710	CFBD	00710	00FBD	1002	MVC PRTDATA(EMSG06L),EMSG06	08830000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000C72	47F0	CC7C	00C7C		1003	B	ERRPRINT SET FLAGS AND EXIT	GP99155 08840000
000C76					1005	ERR0070	DS OH	08860000
000C76	D24B	B710	A003	00710	01003	1006	MVC PRTDATA(EMSG09L),EMSG09	08870000
000C7C	96C0	B163		00163	1007	ERRPRINT	OI COMMFLAG,\$ERROR+\$ABORT	GP99155 08880000
000C80	45E0	CC88		00C88	1008	BAL	R14,PRT0000 PRINT ERROR MESSAGE	08890000
000C84	47F0	CCDA		00CDA	1009	B	EXIT0000 AND EXIT	08900000
000C88	50E0	CD50		00D50	1011	PRT0000	ST R14,RETSAVE SAVE RETURN ADDRESS	GP10081 08920000
000C8C	9140	B163		00163	1012	TM	COMMFLAG,\$ERROR ERROR MESSAGE?	GP99132 08930000
000C90	4770	CCA4		00CA4	1013	BNZ	PRT0005 YES; PRINT IT	GP99132 08940000
000C94	9102	B165		00165	1014	TM	PRINTFG1,\$PFLBL PRINT LABEL DATA ?	GP99132 08950000
000C98	4770	CCA4		00CA4	1015	BNZ	PRT0005 YES	GP99132 08960000
000C9C	45E0	B702		00702	1016	BAL	R14,PRINTCLR JUST CLEAR	GP99132 08970000
000CA0	47F0	CCD4		00CD4	1017	B	PRT0990 JUST RETURN	GP10081 08980000
000CA4	9180	CDC8		00DC8	1018	PRT0005	TM LOCFLAG,LFINIT FIRST TIME DONE?	GP99138 08990000
000CA8	4770	CCD0		00CD0	1019	BNZ	PRT0010	GP99147 09000000
000CAC	9680	CDC8		00DC8	1020	OI	LOCFLAG,LFINIT FIRST TIME DONE	GP99138 09010000
000CB0	D210	B16D	CDC9	0016D	00DC9	1021	MVC COMMSUBH(L'SUBHEAD),SUBHEAD	GP99139 09020000
000CB6	4110	0011		00011	1022	LA	R1,L'SUBHEAD SUBHEADING LENGTH	GP99139 09030000
000CBA	4010	B154		00154	1023	STH	R1,COMMSUBL SET LENGTH	GP99139 09040000
000CBE	92FF	B154		00154	1024	MVI	COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	GP99139 09050000
000CC2	92E2	B70E		0070E	1025	MVI	PRTCMD,\$PRTSUBH SET COMMAND	GP99139 09060000
000CC6	58F0	B0B8		000B8	1026	L	R15,APR GET PRINTER ADDRESS	GP99147 09070000
000CCA	4110	B70E		0070E	1027	LA	R1,PRTBLOK GET REQUEST BLOCK	GP99147 09080000
000CCE	05EF				1028	BALR	R14,R15 CALL PRINTER; DON'T CLEAR PRTDATA	GP99147 09090000
000CD0	45E0	B6EC		006EC	1029	PRT0010	BAL R14,PRINTREC	GP99138 09100000
000CD4	58E0	CD50		00D50	1030	PRT0990	L R14,RETSAVE	GP10081 09110000
000CD8	07FE				1031	BR	R14 RETURN	GP10081 09120000
					1033	EXIT0000	ITRACE ID=EXIT	09140000
000CDA	45E0	B564		00564	1034+	EXIT0000	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000CDE	C5E7C9E340404040				1035+	DC	CL8'EXIT' TRACE ID	00670000
000CE6	58D0	D004		00004	1036	L	R13,4(,R13) RESTORE REGISTER 13	09150000
000CEA	98EC	D00C		0000C	1037	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	09160000
000CEE	1BFF				1038	SR	R15,R15 GIVE GOOD RETURN CODE	09170000
000CF0	07FE				1039	BR	R14 RETURN TO CALLER	09180000
000CF2	9100	CD2B		00D2B	1040	EXTM01	TM =X'01',*-* TEST FOR ODD ADDRESS	GP99140 09190000
000CF6	D200	E000	1000	00000	00000	1041	EXMVCWR1 MVC 0(0,R14),0(R1) MOVE TEXT TO WORKDISP	GP99142 09200000
000CFC	D200	1000	E000	00000	00000	1042	EXMVCWR2 MVC 0(0,R1),0(R14) UPDATE TEXT FROM WORKDISK	GP10072 09210000
000D08					1044		LTORG	09230000
000D08	00000FFF				1045		=X'00000FFF'	
000D0C	0A03				1046		=X'0A03'	
000D0E	0A0D				1047		=X'0A0D'	
000D10	0001				1048		=H'1'	
000D12	0002				1049		=H'2'	
000D14	C4C3				1050		=C'DC'	
000D16	40C4C1E3C140C1D9				1051		=CL10' DATA AREA'	
000D20	C9D5E2E3D9E4C3E3				1052		=CL11' INSTRUCTION'	
000D2B	01				1053		=X'01'	
					1054	*-----*		09240000
					1055	*		09250000

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				1056 *	WORK AREAS	* 09260000
				1057 *		* 09270000
				1058 *	-----*	09280000
000D2C	0000000000000000			1059	LOCSAVE DC 9A(0)	GP10046 09290000
000D50	00000000			1060	RETSAVE DC A(0) R14 SAVER	GP10081 09300000
000D54	00000000			1061	RETSAV2 DC A(0) R14 SAVER	GP10081 09310000
000D58	00000000			1062	WORKOP1 DC A(0) OPERAND 1 REFERENCE	09320000
000D5C	00000000			1063	WORKOP2 DC A(0) OPERAND 2 REFERENCE	09330000
000D60	00000000			1064	WORKREF DC A(0) REFERENCED LABEL BLOCK	09340000
000D64	00000000			1065	SAVERLD DC A(0) SAVED RLD DATA ITEM ADDRESS	09350000
000D68	00000000			1066	WORKOPD DC A(0) DISPLACEMENT FROM LABEL	09360000
000D6C	00000000			1067	WORKOPD1 DC A(0) DISPLACEMENT FROM LABEL (OPER 1)	09370000
000D70	00000000			1068	WORKOPD2 DC A(0) DISPLACEMENT FROM LABEL (OPER 2)	09380000
000D74	00000000			1069	WORKDISP DC A(0) DISPLACEMENT FROM WORK BASE	09390000
000D78	00000000			1070	DATADISP DC A(0) STARTING DISPLACEMENT	09400000
000D7C	00000000			1071	DATASIZE DC A(0) SIZE OF CURRENT DATA AREA	09410000
000D80	0001			1072	OPLNGTH DC H'1' LENGTH OF CURRENT INSTRUCTION	09420000
000D82	00000C			1073	LABLNBR DC PL3'0' COUNTER FOR SEQUENTIAL LABELS	09430000
000D85	010C			1074	P10 DC P'10' CONSTANT	09440000
000D87	F02020202020			1075	EDITWORK DC X'F02020202020' EDIT WORK AREA	09450000
000D8D	F02020202020			1076	EDITWORD DC X'F02020202020' CONSTANT	09460000
000D93	0000			1077	DSECTOFF DC XL2'00' DISPLACEMENT TO LABEL IN DSECT	09470000
000D95	4040404040404040			1078	WORKLABL DC CL9' ' TEMP LABEL NAME	09480000
000D9E	00			1079	WORKBASE DC X'00' BASE FOR CURRENT OPERAND	09490000
000D9F	40			1080	WORKTYPE DC C' ' LABEL TYPE BEING CREATED	09500000
000DA0	D9C5C64040404040			1081	REF DC CL8'REF' 09510000	
000DA8	C5E2C44040404040			1082	ESD DC CL8'ESD ' 09520000	
000DB0	C4C1E3C140404040			1083	DATA DC CL8'DATA' 09530000	
000DB8	D3C1C2D340404040			1084	LABL DC CL8'LABL' 09540000	
000DC0	F0F0F0F0			1085	CHARZERO DC CL4'0000' 09550000	
000DC4	FFFFFFFF			1086	XFFFF DC X'FFFFFFFF' 09560000	
000DC8	00			1087	LOCFLAG DC X'00' LOCAL FLAG GP99147 09570000	
		00080		1088	LFINIT EQU X'80' PRINT INIT FLAG GP99147 09580000	
000DC9	40D3C1C2C5D340D7			1089	SUBHEAD DC C' LABEL PROCESSING' GP99147 09590000	
000DDA	C2C5C7C9D5D5C9D5			1090	BEGNDISP DC CL09'BEGINNING' 09600000	
000DE3	C5D5C4C9D5C74040			1091	ENDDISP DC CL09'ENDING ' 09610000	
000DEC	C4C9E2C1E2D4F0F8			1092	MSG01 DC C'DISASM0801E DSECT ' 09620000	
000DFE	4040404040404040			1093	MSG01NM DC CL08' ' 09630000	
000E06	40C9E240D5D6E340			1094	DC C' IS NOT PRESENT, BUT IS REFERENCED ON A USING STATEMEN+ 09640000	
000E0E	D7D9C5E2C5D5E36B				T' 09650000	
		00051		1095	MSG01L EQU *-MSG01 09660000	
000E3D	C4C9E2C1E2D4F0F8			1096	MSG02 DC C'DISASM0802E DATA/FILLER ' GP10075 09670000	
000E55	4040404040404040			1097	MSG02A DC CL8' ',C' TO ' GP10075 09680000	
000E61	4040404040404040			1098	MSG02B DC CL8' ' GP10075 09690000	
000E69	40C3D6D5C6D3C9C3			1099	DC C' CONFLICTS WITH ' GP10075 09700000	
000E79	4040404040404040			1100	MSG02C DC CL11' ',C' AT ' GP10075 09710000	
000E88	4040404040404040			1101	MSG02D DC CL8' ',C' : ' GP10081 09720000	
000E93	4040404040404040			1102	MSG02E DC CL8' ' GP10081 09730000	
		0005E		1103	MSG02L EQU *-MSG02 09740000	
000E9B	C4C9E2C1E2D4F0F8			1104	MSG03 DC C'DISASM0803W ' 09750000	
000EA7	4040404040404040			1105	MSG03A DC CL9' ' 09760000	
000EB0	40C4C9E2D7D3C1C3			1106	DC C' DISPLACEMENT IN A ' 09770000	
000EC3	4040404040404040			1107	MSG03B DC CL8' ' 09780000	
000ECB	40C2D3D6C3D240C9			1108	DC C' BLOCK IS CHANGED FROM ' 09790000	
000EE2	4040404040404040			1109	MSG03D DC CL8' ' 09800000	

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000EEA	40E3D640			1110	DC	C' TO '	09810000
000EEE	4040404040404040			1111	MSG03N	DC CL8' '	09820000
000EF6	40E3D640D9C5C6C5			1112	DC	C' TO REFERENCE AN INSTRUCTION BOUNDARY'	09830000
		00080		1113	MSG03L	EQU *-MSG03	09840000
000F1B	C4C9E2C1E2D4F0F8			1114	MSG04	DC C'DISASM0804E INVALID OPCODE DURING REFERENCE TABLE GENE+	09850000
000F23	F0F4C540C9D5E5C1					RATION'	09860000
000F57	4040D6C6C6E2C5E3			1115	DC	C' OFFSET '	GP08063 09870000
000F60	4040404040404040			1116	MSG04D	DC CL8' '	GP08063 09880000
		0004D		1117	MSG04L	EQU *-MSG04	09890000
000F68	C4C9E2C1E2D4F0F8			1118	MSG05	DC C'DISASM0805E LABEL '	09900000
000F7A	4040404040404040			1119	MSG05N	DC CL8' '	09910000
000F82	40C9E240D5D6E340			1120	DC	C' IS NOT IN DSECT '	09920000
000F93	4040404040404040			1121	MSG05D	DC CL8' '	09930000
000F9B	40C1E240D9C5D8E4			1122	DC	C' AS REQUESTED IN A USING STATEMENT'	09940000
		00055		1123	MSG05L	EQU *-MSG05	09950000
000FBD	C4C9E2C1E2D4F0F8			1124	MSG06	DC C'DISASM0806E LABEL NOT FOUND IN DSECT DURING REFERENCE +	09960000
000FC5	F0F6C540D3C1C2C5					TABLE GENERATION'	09970000
		00046		1125	MSG06L	EQU *-MSG06	09980000
001003	C4C9E2C1E2D4F0F8			1126	MSG09	DC C'DISASM0809E ATTEMPT TO LOCATE AN INSTRUCTION ON AN ODD+	09990000
00100B	F0F9C540C1E3E3C5					DISPLACEMENT BOUNDARY'	10000000
		0004C		1127	MSG09L	EQU *-MSG09	10010000
				1129	*-----*		10030000
				1130	* OPCODES THAT PRECEDE DATA: 4-UNCOND 8-F BR 12-TEST		* 10040000
				1131	*-----*		10050000
00104F	0000000000000000			1132	TRTOLAST	DC 256X'0' NON-TERMINAL	GP10081 10060000
00114F		01054		1133	ORG	TRTOLAST+X'05'	GP10081 10070000
001054	04			1134	DC	X'04' BALR	GP10081 10080000
001055		01056		1135	ORG	TRTOLAST+X'07'	GP10081 10090000
001056	08			1136	DC	X'08' BCR	GP10081 10100000
001057		01059		1137	ORG	TRTOLAST+X'0A'	GP10081 10110000
001059	0C			1138	DC	X'0C' SVC	GP10081 10120000
00105A		01094		1139	ORG	TRTOLAST+X'45'	GP10081 10130000
001094	04			1140	DC	X'04' BAL	GP10081 10140000
001095		01096		1141	ORG	TRTOLAST+X'47'	GP10081 10150000
001096	08			1142	DC	X'08' BC	GP10081 10160000
001097		010D1		1143	ORG	TRTOLAST+X'82'	GP10081 10170000
0010D1	04			1144	DC	X'04' LPSW	GP10081 10180000
0010D2		0114F		1145	ORG	,	GP10081 10190000
				1147	COPY DISASMDA		10210000
				1148	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				1149	PRINT OFF		00020000
				1360	PRINT ON		02130000
				1361	.DA020	ANOP	02140000
				1362	*-----*		10220000
				1363	*		* 10230000
				1364	*		* 10240000
				1365	*		* 10250000
				1366	*-----*		10260000
				1367	DISASM00	DISASMCM TYPE=DSECT	10270000
				1368+	PRINT OFF		00280000
				1999+	PRINT ON		06440000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2000+*	-----*	06460000
				2001+*		* 06470000
				2002+*	ABEND REASON CODES	* 06480000
				2003+*		* 06490000
				2004+*	-----*	06500000
		00001		2005+ABEND001	EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000
		00002		2006+ABEND002	EQU 2 UNKNOWN RETURN CODE FROM BLDL	06520000
		00003		2007+ABEND003	EQU 3 UNKNOWN RLD ITEM TYPE	06530000
		00004		2008+ABEND004	EQU 4 RLD DATA REMAINING WENT NEGATIVE	06540000
		00005		2009+ABEND005	EQU 5 ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000		2012+R0	EQU 0	00070000
		00001		2013+R1	EQU 1	00080000
		00002		2014+R2	EQU 2	00090000
		00003		2015+R3	EQU 3	00100000
		00004		2016+R4	EQU 4	00110000
		00005		2017+R5	EQU 5	00120000
		00006		2018+R6	EQU 6	00130000
		00007		2019+R7	EQU 7	00140000
		00008		2020+R8	EQU 8	00150000
		00009		2021+R9	EQU 9	00160000
		0000A		2022+R10	EQU 10	00170000
		0000B		2023+R11	EQU 11	00180000
		0000C		2024+R12	EQU 12	00190000
		0000D		2025+R13	EQU 13	00200000
		0000E		2026+R14	EQU 14	00210000
		0000F		2027+R15	EQU 15	00220000
000000				2029	END DISASM08	10280000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$ABORT	00001	00000080	01481	00110 00126 01007	
\$DATAACN	00001	00000014	01197	00405 00471	
\$DATAINT	00001	00000003	01196	00929	
\$ERROR	00001	00000040	01482	00110 00325 01007 01012	
\$ESDLR	00001	00000003	01231	00379	
\$ESDPC	00001	00000004	01232	00381	
\$LABLD	00001	000000C4	01261	00722 00818	
\$LABLE	00001	000000C5	01262	00395 00781 00803 00949	
\$LABLI	00001	000000C9	01263	00736 00820	
\$LABLR	00001	000000D9	01264	00478 00720 00734	
\$OFIXSWP	00001	00000080	01514	00561	
\$OPMASK	00001	00000001	01994	01650	
\$OPREF	00001	00000010	01990	00545	
\$OPRX	00001	00000007	01970	00557	
\$OPRXA	00001	00000008	01971	00559	
\$OP SSE	00001	00000013	01983	00584	
\$OPSS1	00001	0000000F	01979	00582	
\$PFLBL	00001	00000002	01501	01014	
\$PFTRC	00001	00000001	01502	01737 01739	
\$PRT PRT	00001	000000D7	01861	01847 01868	
\$PRTSUBH	00001	000000E2	01860	01025 01743	
\$SEQLABL	00001	00000004	01486	00805 00941	
\$USNGND	00001	00000080	01342	00313 00839	
AOP	00004	000000AC	01408	01631	
APR	00004	000000B8	01410	01026 01850	
APU	00004	000000BC	01411	01871	
BASEBEGN	00004	0000000C	01170	00296 00299 00664 00675 00730	
BASEDISP	00004	00000014	01172	00679	
BASEDSCT	00001	00000000	01167	00293 00660 01175	
BASEEND	00004	00000010	01171	00300 00302 00303 00306 00666	
BASENEXT	00004	00000000	01168	00294 00669	
BASEREG	00001	00000018	01173	00662	
BEGNDISP	00009	00000DDA	01090	00297 00316	
BLKTRT	00001	00000A68	01908	01909 01911 01913 01915 01917 01919 01921 01923 01925 01927 01929 01931 01933	
CHARZERO	00004	00000DC0	01085	00742	
COMMBASE	00004	00000108	01442	00292 00659	
COMMBLKS	00001	00000225	01526	00096 00201 00220 00930	
COMMCLR	00004	000000F8	01437	01457 01461	
COMMCSAD	00004	0000011C	01447	00384 00392 00474	
COMM CSEA	00004	00000124	01449	00214 00300 00302 00386 00919 00921	
COMMCSLN	00004	0000012C	01451	00152 00162 00359 00495	
COMMCSNM	00008	0000014C	01460	00388	
COMM DATA	00004	0000010C	01443	00164 00329 00402 00497 00686 00899	
COMM DISP	00004	00000110	01444	00157 00338 00746	
COMMDSCT	00004	00000104	01441	00079	
COMM DWRD	00008	00000000	01375	00981 00982 00985 00987 01762 01763	
COMMESD	00004	000000F8	01438	00375	
COMM FILL	00001	00000161	01478	00154 00158 01807	
COMM FLAG	00001	00000163	01480	00110 00126 00325 00805 00941 01007 01012	
COMM HXCH	00016	00000275	01527	01528	
COMM HXTR	00016	00000185	01528	00351 00366 00809 00974 00978 00983 00988 00997 01754 01757 01760 01764	
COMM H4	00002	00000158	01474	00355	
COMM LABL	00004	00000118	01446	00772 00773 00943	
COMM NPRT	00001	000003C7	01583	01584 01586 01588 01590 01592 01594 01596 01598 01600 01602 01604 01606 01608	
COMMOPFG	00001	00000168	01513	00561	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
COMMPFX	00004	00000169	01521	00826	
COMMPFXL	00002	00000156	01473	00740	
COMMPPOOL	00001	00000162	01479	01799 01814	
COMMPRT	00001	000002C7	01554	01555 01557 01559 01561 01563 01565 01567 01569 01571 01573 01575 01577	
COMMREF	00004	00000114	01445	00445 00490 00616	
COMMSUBH	00133	0000016D	01522	01021 01740	
COMMSUBL	00002	00000154	01472	01023 01024 01741 01741 01742	
COMMTXT	00004	00000130	01452	00159 00272 00411 00464 00492 00514	
COMMUSNG	00004	00000100	01440	00070 00309 00833	
DATA	00008	00000DB0	01083	00702 00738 00915	
DATAASMT	00001	0000002A	01192	00407	
DATABEGN	00004	0000001C	01188	00174 00211 00332 00412 00463 00504 00689 00698 00715 00903 00916 00924 00973 00973 00973	
				00974 00975	
DATADISP	00004	00000D78	01070	00259 00903 00916 00928 00928	
DATADSCT	00001	00000000	01182	00166 00913 01203	
DATAEND	00004	00000020	01189	00172 00269 00334 00506 00511 00691 00923 00977 00977 00977 00978 00979	
DATAEYE	00008	00000004	01184	00915	
DATAILEN	00002	00000028	01191	00409	
DATAL	00001	00000030	01203	00906	
DATALBA	00004	00000014	01186	00482	
DATALBD	00004	00000018	01187	00483	
DATALEN	00004	00000024	01190	00465 00466 00926	
DATANAME	00008	0000000C	01185	00930	
DATANEXT	00004	00000000	01183	00184 00330 00403 00522 00687 00901 00913	
DATASIZE	00004	00000D7C	01071	00180 00180 00231 00256 00262 00896 00896 00927 00927	
DATATYPE	00001	0000002B	01193	00405 00471 00704 00929	
DISASM00	00001	00000000	01369	00058 01382 01621 01698 01735 01796 01832	
DISASM08	00001	00000000	00048	00049 00057 02029	
DSCTDSCT	00001	00000000	01210	00080 01216	
DSCTLBA	00004	00000014	01214	00098 00120 00856	
DSCTNAME	00008	0000000C	01213	00085 00089	
DSCTNEXT	00004	00000000	01211	00082	
EDITWORD	00006	00000D8D	01076	00954	
EDITWORK	00006	00000D87	01075	00954 00955 00956	
MSG01	00018	00000DEC	01092	00961 01095	
MSG01L	00001	00000051	01095	00961	
MSG01NM	00008	00000DFE	01093	00960	
MSG02	00024	00000E3D	01096	00967 00970 00971 00973 00974 00975 00977 00978 00979 00982 00983 00984 00987 00988 00989	
				01103	
MSG02A	00008	00000E55	01097	00973 00974 00975	
MSG02B	00008	00000E61	01098	00977 00978 00979	
MSG02C	00011	00000E79	01100	00967 00970	
MSG02D	00008	00000E88	01101	00982 00983 00984	
MSG02E	00008	00000E93	01102	00987 00988 00989	
MSG02L	00001	0000005E	01103	00971	
MSG03	00012	00000E9B	01104	00368 01113	
MSG03A	00009	00000EA7	01105	00297 00304 00316 00320 00353	
MSG03B	00008	00000EC3	01107	00348	
MSG03L	00001	00000080	01113	00368	
MSG03N	00008	00000EEE	01111	00365 00366 00367	
MSG03O	00008	00000EE2	01109	00350 00351 00352	
MSG04	00060	00000F1B	01114	00993 00996 00997 00998 01117	
MSG04L	00001	0000004D	01117	00993	
MSG04O	00008	00000F60	01116	00996 00997 00998	
MSG05	00018	00000F68	01118	00109 01123	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
EMSG05D	00008	00000F93	01121	00108	
EMSG05L	00001	00000055	01123	00109	
EMSG05N	00008	00000F7A	01119	00107	
EMSG06	00070	00000FBD	01124	01002 01125	
EMSG06L	00001	00000046	01125	01002	
EMSG09	00076	00001003	01126	01006 01127	
EMSG09L	00001	0000004C	01127	01006	
ENDDISP	00009	00000DE3	01091	00304 00320 00353	
ERRPRINT	00004	00000C7C	01007	00962 00990 00999 01003	
ERR0010	00002	00000BDA	00959	00083	
ERR0020	00006	00000BF4	00970	00182	
ERR0025	00006	00000BFA	00971	00968	
ERR0030	00002	00000C4E	00992	00536	
ERR0060	00006	00000BEA	00967	00181	
ERR0070	00002	00000C76	01005	00526	
ESDADDR	00003	00000017	01239	00384 00386 00391	
ESDDATA	00001	00000000	01223	00376 01246	
ESDNAME	00008	0000000E	01227	00388 00394 01242	
ESDNEXT	00004	00000000	01224	00377	
ESDTYPE	00001	00000016	01228	00379 00381	
EXGETOPC	00006	00000554	01662	01655	
EXIT0000	00004	00000CDA	01034	00127 00326 00942 00948 01009	
EXMVCWR1	00006	00000CF6	01041	00470	
EXMVCWR2	00006	00000CFC	01042	00476	
EXTM01	00004	00000CF2	01040	00187 00525	
GETMAIN	00004	00000684	01797	00155 00439 00611 00791 00907	
GETOPENT	00004	000004C8	01622	00199 00222 00535	
GETOPEXT	00004	00000546	01658	01651	
GETOPLEN	00001	0000055A	01663	01629	
GETOPNOT	00004	0000054E	01660	01634 01644 01649 01657	
GETOPTMK	00004	00000526	01650	01635	
GETOPWRK	00006	0000055E	01664	01654 01654 01656 01662	
HEXTRT	00001	00000868	01890	01891 01893 01895 01897 01899	
INTTRT	00001	00000968	01901	01902 01904 01906	
LABL	00008	00000DB8	01084	00802	
LABLBMVC	00006	00000A36	00826	00744	
LABLDISP	00004	00000014	01257	00116 00777 00814 00862 00882	
LABLDSCT	00001	00000000	01253	00099 00774 00798 00799 01269	
LABLEYE	00008	00000004	01255	00802	
LABLL	00001	00000024	01269	00790	
LABLNAME	00008	0000000C	01256	00103 00813 00824 00877 00956	
LABLNBR	00003	00000D82	01073	00953 00955	
LABLNEXT	00004	00000000	01254	00101 00784 00785 00798 00799 00860 00947	
LABLSRCE	00001	00000022	01266	00801 00811 00822 00951	
LABLTYPE	00001	00000021	01260	00815 00818 00949	
LABL0010	00004	00000090	00072	00112 00117 00124	
LABL0020	00004	000000B2	00082	00090	
LABL0040	00004	000000FC	00101	00105	
LABL0050	00006	00000112	00107	00102	
LABL0060	00002	00000130	00114	00104	
LABL0070	00002	0000013E	00119	00097	
LABL0080	00004	00000150	00124	00121	
LABL0090	00004	00000154	00126	00073	
LABL0100	00004	0000017C	00162	00266 00278	
LABL0110	00004	0000019C	00172	00185	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
LABL0120	00004	000001BE	00184	00173	
LABL0130	00004	000001C6	00187	00165 00176	
LABL0160	00004	00000206	00214	00210	
LABL0170	00004	00000230	00231	00219 00221 00223	
LABL0180	00004	00000266	00245	00237	
LABL0190	00004	0000026E	00248	00215 00224 00236 00240 00242	
LABL0200	00004	00000282	00254	00188 00197 00200 00202 00212 00232 00235 00243 00246	
LABL0208	00002	00000294	00261	00258	
LABL0210	00002	0000029A	00264	00252	
LABL0220	00004	000002A2	00268	00177	
LABL0230	00004	000002CC	00283	00163	
LABL0240	00004	000002D4	00294	00307	
LABL0250	00006	00000302	00303	00301	
LABL0260	00004	0000031C	00309	00295	
LABL0270	00004	00000320	00311	00314 00323	
LABL0290	00004	00000360	00325	00312	
LABL0300	00004	0000036C	00329	00298 00305 00317 00321	
LABL0310	00004	00000370	00330	00333 00336	
LABL0330	00004	0000038E	00338	00331	
LABL0340	00006	00000392	00339	00345	
LABL0360	00004	000003B0	00347	00340 00343	
LABL0366	00006	000003D8	00356	00354	
LABL0368	00004	000003EC	00360	00358	
LABL0370	00004	00000414	00375	00327	
LABL0380	00004	00000418	00377	00382 00385 00387 00389 00397	
LABL0390	00002	00000430	00383	00380	
LABL04LP	00002	00000518	00446	00450	
LABL04ST	00004	00000530	00452	00448	
LABL0410	00004	0000046E	00402	00378	
LABL0420	00004	00000472	00403	00408 00410 00415 00430 00459 00484	
LABL0480	00006	00000556	00462	00406	
LABL0485	00004	00000590	00477	00472	
LABL0490	00004	000005B4	00486	00404	
LABL05LP	00002	00000784	00617	00621	
LABL05ST	00004	0000079C	00623	00619	
LABL0500	00002	000005C2	00494	00520 00635	
LABL0510	00002	000005E2	00503	00523	
LABL0520	00002	00000624	00521	00505 00507	
LABL0530	00002	0000062C	00524	00498	
LABL0536	00004	000006A2	00561	00558	
LABL0537	00004	000006C4	00569	00556 00560 00562	
LABL0550	00002	0000075E	00607	00583 00585	
LABL0560	00002	000007CA	00632	00546 00609	
LABL1000	00004	000007D6	00649	00427 00572 00597	
LABL1010	00006	00000808	00662	00670	
LABL1020	00004	00000822	00669	00663 00665	
LABL1030	00004	0000082E	00674	00668	
LABL1040	00006	00000858	00684	00480	
LABL1050	00004	00000866	00687	00690 00692	
LABL1080	00002	000008C2	00719	00705	
LABL1090	00002	000008D2	00727	00688	
LABL1100	00002	000008F8	00737	00735	
LABL1120	00002	00000914	00745	00741	
LABL1130	00002	0000091A	00747	00755	
LABL1140	00002	0000093C	00756	00749 00752	

SYMBOL	LEN	VALUE	DEFN	REFERENCES																ASM 0201 00.48 07/11/18																
LABL1150	00004	00000958	00766	00396																																
LABL1152	00004	0000095C	00768	00721	00723	00751	00762																													
LABL1160	00002	0000097E	00776	00786																																
LABL1162	00004	00000998	00784	00780																																
LABL1170	00004	000009A4	00790	00775	00779	00783																														
LABL1180	00002	000009F6	00810	00804	00806																															
LABL1182	00006	00000A04	00814	00812																																
LABL1190	00002	00000A10	00816	00782																																
LABL1200	00004	00000A3C	00831	00661	00671																															
LABL1210	00002	00000A4C	00835	00848																																
LABL1220	00002	00000A72	00846	00838	00842																															
LABL1230	00002	00000A7A	00849	00840	00845																															
LABL1240	00004	00000A9E	00860	00864	00866	00869	00872																													
LABL1250	00002	00000AC6	00873	00861																																
LABL1990	00004	00000AFA	00886	00757	00819	00821	00823	00825	00836	00874																										
LABL2000	00006	00000B00	00896	00248	00268	00283																														
LABL2010	00002	00000B10	00900	00904																																
LABL2020	00004	00000B24	00906	00902																																
LABL2030	00002	00000B62	00922	00920																																
LABL3000	00002	00000B8E	00940	00496																																
LABL3010	00004	00000BA6	00947	00950	00952	00957																														
LFINIT	00001	00000080	01088	01018	01020																															
LOCFLAG	00001	00000DC8	01087	01018	01020																															
LOCSAVE	00004	00000D2C	01059	00426	00428																															
MAINRSV	00004	00000858	01888	01797	01803	01805	01809	01812	01818																											
MODENT	00004	00000064	00053	00049																																
MODHEAD	00023	00000005	00051	00050																																
MODSAVE	00004	0000001C	00052	00059																																
NBLTRT	00001	00000B68	01935	01936	01938																															
OPDSECT	00001	00000000	01957	00205	00539	01632	01995																													
OPFLAGS	00001	00000007	01986	00545	01650																															
OPFLAG1	00001	00000001	01959	01639																																
OPFLAG2	00001	00000002	01960	01641																																
OPFLAG3	00001	00000003	01961	01643																																
OPFORM	00001	00000006	01962	00557	00559	00582	00584																													
OPLNGTH	00002	00000D80	01072	00204	00251	00538	00633	00634																												
OPMASK	00006	00000008	01996	01656																																
OPMNEM	00006	00000000	01958	01959	01960	01961																														
PRINTCLR	00004	00000702	01853	01016																																
PRINTDAT	00004	000006F0	01848	01744																																
PRINTFG1	00001	00000165	01495	01014	01737	01739																														
PRINTMVR	00006	000006E6	01845	01842																																
PRINTREC	00004	000006EC	01847	01029	01766	01844																														
PRINTREX	00004	000006FE	01852	01836																																
PRINTRSV	00004	00000848	01887	01833	01843	01848	01852	01869	01873																											
PRTBLOK	00001	0000070E	01857	01027	01849																															
PRTCC	00001	0000070F	01864	01853																																
PRTCMD	00001	0000070E	01858	01025	01743	01847	01868																													
PRTDATA	00132	00000710	01865	00109	00368	00961	00967	00970	00971	00973	00974	00975	00977	00978	00979	00982	00983	00984																		
				00987	00988	00989	00993	00996	00997	00998	01002	01006	01751	01752	01753	01754	01755	01756																		
				01757	01758	01759	01760	01761	01763	01764	01765	01837	01845	01854	01854																					
PRT0000	00004	00000C88	01011	00111	00369	01008																														
PRT0005	00004	00000CA4	01018	01013	01015																															
PRT0010	00004	00000CD0	01029	01019																																
PRT0990	00004	00000CD4	01030	01017																																

DA08				CROSS-REFERENCE													PAGE 30				
SYMBOL	LEN	VALUE	DEFN	REFERENCES													ASM 0201 00.48 07/11/18				
PUNBLOK	00001	000007B2	01876	01870																	
PUNDATA	00080	000007B4	01882	01867																	
P10	00002	00000D85	01074	00953																	
REF	00008	00000DA0	01081	00454	00625																
REFDISPI	00004	0000001C	01283	00449	00458	00620										00631					
REFDISP1	00004	00000014	01281	00456	00628																
REFDISP2	00004	00000018	01282	00629																	
REFDSCT	00001	00000000	01276	00444	00449	00451	00491	00620	00622	01286											
REFEYE	00008	00000004	01278	00454	00625																
REFL	00001	00000024	01286	00438	00610																
REFNEXT	00004	00000000	01277	00447	00451	00451	00452	00618	00622	00622	00623										
REFOPCD	00002	00000020	01284	00457	00630																
REFOPER1	00004	0000000C	01279	00455	00626																
REFOPER2	00004	00000010	01280	00627																	
RETSAVE	00004	00000D50	01060	01011	01030																
RETSAV2	00004	00000D54	01061	00649	00682	00685	00766	00886	00898	00931											
RLDDATA	00001	00000000	01293	01311																	
R0	00001	00000000	02012	00153	00204	00206	00216	00256	00257	00257	00261	00262	00429	00438	00473	00474	00475	00538			
				00610	00714	00717	00718	00758	00759	00760	00790	00857	00863	00881	00882	00883	00884	00906			
				01622	01628	01628	01629	01652	01700	01719	01736	01775	01799	01804	01808	01814	01837	01838			
R1	00001	00000001	02013	01840	01843																
				00152	00153	00153	00156	00157	00198	00206	00207	00208	00211	00214	00216	00217	00218	00220			
				00251	00254	00261	00264	00265	00338	00339	00341	00344	00344	00355	00356	00390	00390	00391			
				00392	00393	00441	00451	00452	00453	00463	00464	00534	00553	00553	00554	00555	00563	00564			
				00565	00566	00569	00591	00591	00592	00593	00594	00613	00622	00623	00624	00679	00680	00681			
				00715	00716	00717	00746	00748	00750	00753	00754	00754	00756	00759	00761	00793	00798	00799			
				00800	00862	00863	00865	00867	00870	00909	00912	00913	00914	00917	00918	00919	00921	00923			
				00924	00925	00925	00926	01022	01023	01027	01041	01042	01624	01638	01658	01660	01662	01699			
				01701	01705	01705	01706	01708	01710	01797	01803	01804	01805	01809	01833	01835	01845	01848			
				01849	01852	01867	01869	01870	01873												
R10	00001	0000000A	02022	00055	00056	00056	00057														
R11	00001	0000000B	02023	00058	01621	01698	01735	01796											01832		
R12	00001	0000000C	02024	00053	00054	00056	00057	01037	01712												
R13	00001	0000000D	02025	00053	00060	00061	00062	01036	01036	01037											
R14	00001	0000000E	02026	00053	00059	00060	00061	00062	00064	00075	00076	00077	00085	00086	00087	00093	00111	00155			
				00169	00196	00199	00218	00222	00248	00268	00276	00283	00347	00360	00361	00361	00362	00369			
				00396	00427	00432	00433	00434	00435	00436	00439	00442	00467	00468	00480	00501	00509	00518			
				00530	00535	00543	00572	00574	00575	00576	00577	00578	00597	00599	00600	00601	00602	00603			
				00611	00614	00649	00653	00657	00675	00676	00677	00682	00685	00698	00699	00700	00730	00731			
				00732	00766	00768	00769	00770	00791	00794	00795	00796	00831	00854	00859	00859	00867	00870			
				00877	00878	00879	00886	00887	00897	00898	00907	00910	00931	00932	00945	01008	01011	01016			
				01028	01029	01030	01031	01034	01037	01039	01041	01042	01625	01626	01627	01629	01636	01636			
				01638	01640	01642	01643	01645	01645	01646	01647	01658	01659	01661	01713	01720	01744	01766			
				01776	01797	01808	01809	01810	01812	01818	01819	01833	01843	01848	01851	01852	01855	01869			
R15	00001	0000000F	02027	01872	01873	01874															
				00049	00054	00203	00445	00446	00447	00449	00465	00466	00468	00469	00470	00476	00537	00616			
				00617	00618	00620	00739	00739	00740	00743	00744	00745	00745	00753	00756	00858	00858	00871			
				00873	01026	01028	01038	01038	01622	01623	01623	01624	01626	01630	01631	01632	01633	01633			
				01647	01648	01648	01660	01700	01719	01736	01775	01806	01806	01807	01812	01818	01834	01834			
R2	00001	00000002	02014	01835	01838	01840	01841	01842	01850	01851	01871							01872			
				00079	00080	00082	00092	00095	00231	00234	00298	00305	00317	00321	00335	00342	00363	00370			
R3	00001	00000003	02015	00850	00853	00900	00912	01637	01637	01639	01640	01641							01642		
				00070	00071	00072	00292	00293	00294	00309	00310	00311	00348	00426	00428	00659	00660	00669			
R4	00001	00000004	02016	00674	00729	00772	00784	00798	00833	00834	00847							00852			
				00375	00376	00377	00444	00446	00453	00490	00491	00617	00624	01652	01653	01655					

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
R5	00001	00000005	02017	00159 00196 00198 00201 00217 00233 00239 00241 00245 00264 00271 00272 00274 00411 00413 00414 00422 00424 00492 00513 00514 00516 00528 00534 00554 00563 00567 00568 00570 00592 00595 00630 00633 00652 00985 01745 01748 01768 01768 01769 01771 01773														
R6	00001	00000006	02018	00160 00160 00162 00168 00172 00174 00187 00207 00249 00259 00265 00269 00270 00270 00271 00275 00412 00413 00449 00458 00493 00493 00495 00500 00504 00506 00511 00512 00512 00513 00517 00525 00529 00620 00631 00634 00651 00664 00666 00841 00843 00917 00981 00994														
R7	00001	00000007	02019	00164 00166 00184 00209 00209 00329 00330 00402 00403 00479 00481 00497 00522 00686 00687 00697 00899 00900 00901 00913 00914														
R8	00001	00000008	02020	00195 00195 00203 00205 00537 00539 00541 00542														
R9	00001	00000009	02021	00098 00099 00101 00115 00120 00122 00156 00249 00250 00250 00426 00428 00773 00774 00785 00799 00800 00817 00856 00860 00871 00873 00876 00885 00943 00947														
SAVERLD	00004	00000D64	01065	00479 00481														
SUBHEAD	00017	00000DC9	01089	01021 01021 01022														
SYMDATA	00001	00000000	01318	01323														
TPODA1A	00008	00000017	01780	01753 01753 01754 01754 01755 01755														
TPODA1B	00008	00000020	01781	01756 01756 01757 01757 01758 01758														
TPODA2A	00008	0000002A	01782	01759 01759 01760 01760 01761 01761														
TPODA2B	00008	00000033	01783	01763 01763 01764 01764 01765 01765														
TPOMOD	00008	00000003	01778	01751 01751														
TPOTID	00008	0000000D	01779	01752 01752														
TRACEPEN	00004	00000662	01775	01738 01747 01770														
TRACEPIN	00004	00000646	01768	01746 01750														
TRACEPPR	00004	000005E2	01749	01772 01774														
TRACESHD	00027	00000668	01784	01740 01740 01741														
TRACE000	00002	00000564	01697	00064 00077 00087 00093 00169 00276 00436 00442 00501 00509 00518 00530 00543 00578 00603 00614 00653 00657 00677 00700 00732 00770 00796 00831 00854 00879 00910 00945 01034														
TRACE010	00002	00000580	01709	01707														
TRACE020	00002	000005A8	01718	01702														
TRCESAVE	00004	00000808	01886	01622 01658 01660 01700 01719 01736 01775														
TRCURR	00004	000000D4	01423	01701 01710 01745 01769														
TRDATA1	00008	000000E0	01426	00076 00086 00092 00168 00274 00433 00441 00500 00516 00528 00541 00575 00600 00613 00651 00674 00697 00729 00769 00793 00852 00876 00909 01714 01716 01716														
TRDATA2	00008	000000E8	01427	00275 00435 00517 00529 00542 00577 00602 00652 00676 00699 00731 00795 00853 00878 00994 00996 01715 01717 01717														
TREDATA1	00008	00000010	01948	01714 01753 01756														
TREDATA2	00008	00000018	01949	01715 01759 01762														
TREID	00008	00000008	01947	01713 01752														
TREMOD	00008	00000000	01946	01712 01749 01751														
TRENTYR	00001	00000000	01945	01699 01748 01767 01767 01950														
TRENTYRL	00001	00000020	01950	01705 01767 01768														
TRLAST	00004	000000CC	01421	01706 01771														
TRTOLAST	00001	0000104F	01132	00233 01133 01135 01137 01139 01141 01143														
TR1ST	00004	000000C4	01419	01708 01773														
USNGBASE	00001	00000030	01340	00837														
USNGBEGN	00004	00000028	01338	00315 00318 00841														
USNGDISP	00004	00000024	01337	00116 00123 00123 00857 00883														
USNGDSA	00004	0000001C	01335	00095 00850														

SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18					
WORKBASE	00001	00000D9E	01079	00422	00423	00569	00594	00662	00837										
WORKDISP	00004	00000D74	01069	00296	00299	00303	00306	00315	00318	00319	00322	00332	00334	00341	00347	00350	00350	00350	
				00351	00352	00356	00357	00359	00360	00365	00365	00365	00366	00367	00393	00424	00425	00462	
				00462	00467	00473	00475	00477	00565	00567	00570	00571	00595	00596	00680	00681	00689	00691	
				00714	00716	00750	00758	00761	00768	00777	00794	00808	00814	00865	00881				
WORKLABL	00009	00000D95	01078	00394	00702	00738	00742	00808	00809	00813	00824	00826							
WORKOPD	00004	00000D68	01066	00434	00456	00483	00576	00581	00601	00606	00684	00684	00703	00703	00718	00760	00884		
WORKOPD1	00004	00000D6C	01067	00581	00628														
WORKOPD2	00004	00000D70	01068	00606	00629														
WORKOP1	00004	00000D58	01062	00420	00420	00551	00551	00580	00608	00608	00626								
WORKOP2	00004	00000D5C	01063	00421	00421	00552	00552	00605	00627										
WORKREF	00004	00000D60	01064	00429	00432	00455	00482	00574	00580	00599	00605	00655	00655	00817	00885				
WORKTYPE	00001	00000D9F	01080	00395	00478	00486	00720	00722	00734	00736	00781	00803	00815	00820					
XFFFF	00004	00000DC4	01086	00339	00748														

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	1028
TOTAL RECORDS READ FROM SYSTEM LIBRARY	2757
TOTAL RECORDS PUNCHED	88
TOTAL RECORDS PRINTED	1726

SYMBOL

TYPE

ID

ADDR

LENGTH

LDID

ASM 0201 00.48 07/11/18

DISASM09

SD

0001

000000

0025E6

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	MACRO	00000200
				3 &NM	SVCDEF &SVCNBR,&DESC	GP99134 00000300
				4	LCLA &LEN	00000400
				5	AIF ('&DESC'(1,1) NE ''').UNQUO	GP99134 00000500
				6 &LEN	SETA K'&DESC-2	00000600
				7 &NM	DC AL1(&LEN-1),X'&SVCNBR',CL(&LEN)&DESC LN/HX/TXT	GP99134 00000700
				8	MEXIT ,	GP99134 00000800
				9 .UNQUO	ANOP ,	GP99134 00000900
				10 &LEN	SETA K'&DESC	GP99134 00001000
				11 &NM	DC AL1(&LEN-1),X'&SVCNBR',CL(&LEN)'&DESC' LN/HX/TXT	00001100
				12	MEND	GP99134 00001200
				13	COPY DISASMGB	00001300
				14 *	-----*	00010000
				15 *		* 00020000
				16 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				17 *		* 00040000
				18 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				19 *		* 00060000
				20 *	-----*	* 00070000
				21	GBLA &TRNBRG,&MAXL,&MINL	00080000
				22	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				23	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				24	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				25 *	-----*	* 00001400
				26 *		* 00001500
				27 *	MODULE NAME: DISASM09	* 00001600
				28 *		* 00001700
				29 *	FUNCTION:	* 00001800
				30 *	SOURCE CODE GENERATOR.	* 00001900
				31 *		* 00002000
				32 *	-----*	* 00002100
				33 DISASM09	MODHEAD BASE=(R12,R10) ENTRY HOUSEKEEPING	GP99140 00002200
000000				34+DISASM09	START 0	00070000
000000	47F0 F064	00064		35+	B MODENT-DISASM09(,R15) BRANCH AROUND	00100000
000004	17			36+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F0F9			37+MODHEAD	DC C'DISASM09 07/11/18 00.48'	00120000
00001C	0000000000000000			38+MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		39+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			40+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
00006A	41A0 0800	00800		41+	LA R10,2048	00240000
00006E	41AA C800	00800		42+	LA R10,2048(R10,R12)	00290000
			00000	43+	USING DISASM09,R12,R10	00330000
			00000	44+	USING DISASM00,R11	00360000
000072	41E0 C01C	0001C		45+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
000076	50E0 D008	00008		46+	ST R14,8(,R13) CHAIN DOWN	00380000
00007A	50D0 E004	00004		47+	ST R13,4(,R14) CHAIN UP	00390000
00007E	18DE			48+	LR R13,R14 NEW SAVE AREA	00400000
				49	ITRACE ID=ENTRY	00002300
000080	45E0 B564	00564		50+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000084	C5D5E3D9E8404040			51+	DC CL8'ENTRY' TRACE ID	00670000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00008C	F841	ABC5	ABCA	01BC5	01BCA	52	ZAP CARDSEQ,CARDINC COUNT CARDS	GP99134 00002400
000092	9140	B166		00166		53	TM PRINTFG2,\$PFASM PRINT ASSEMBLY TEXT ?	GP99132 00002500
000096	4780	C0B8		000B8		54	BZ GEN0015 NO	GP99132 00002600
00009A	D239	B16D	ABE1	0016D	01BE1	55	MVC COMMSUBH(SUBHEADL),SUBHEAD	00002700
0000A0	4110	003A		0003A		56	LA R1,SUBHEADL SUBHEADING LENGTH	00002800
0000A4	4010	B154		00154		57	STH R1,COMMSUBL SET LENGTH	00002900
0000A8	92FF	B154		00154		58	MVI COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	00003000
0000AC	9680	AB2E		01B2E		59	OI PRTFLAG,\$SUBH SET FLAG	GP99139 00003100
0000B0	92C8	B70E		0070E		60	MVI PRTCMD,\$PRTHEAD SET COMMAND	GP99139 00003200
0000B4	45E0	B6F0		006F0		61	BAL R14,PRINTDAT PRINT SUBHEADER	GP99139 00003300
0000B8						62	GEN0015 DS OH	GP99132 00003400
0000B8	4110	B14C		0014C		63	LA R1,COMMCSNM	GP99184 00003500
0000BC	45E0	A96A		0196A		64	BAL R14,FINDLABL BUILD CROSS-REFERENCE BY NAME	GP99184 00003600
0000C0	D207	AC44	B14C	01C44	0014C	65	MVC SRCLABL,COMMCSNM SET CSECT NAME	00003700
0000C6	D204	AC4D	AB8C	01C4D	01B8C	66	MVC SRCMNEM,CSCTOPCD SET MNEMONIC TO 'CSECT'	00003800
0000CC	D205	AC1C	ABBD	01C1C	01BBD	67	MVC SRCDISP,CHARZERO DISPLACEMENT IS ZERO	00003900
0000D2	D277	B710	AC1C	00710	01C1C	68	MVC PRTDATA(SRCL),SRC SET PRINT DATA	00004000
0000D8	4590	A8D4		018D4		69	BAL R9,PUNCH000 PUNCH CSECT STATEMENT	GP99134 00004100
0000DC	4590	A91E		0191E		70	BAL R9,PRTSTMT PRINT CSECT STATEMENT	GP99134 00004200
						71	* ----- * 00004300	
						72	* GENERATE ENTRY STATEMENTS * 00004400	
						73	* ----- * 00004500	
0000E0	BF3F	B0F8		000F8		74	ICM R3,15,COMMESD FIRST ESD ENTRY	00004600
0000E4	4780	C182		00182		75	BZ GEN0050 NO ESD ENTRIES	00004700
				00000		76	USING ESDDATA,R3 DEFINE BASE	00004800
0000E8	9503	3016		00016		78	GEN0020 CLI ESDTYPE,\$ESDLR LABEL?	00005000
0000EC	4780	C0F8		000F8		79	BE GEN0030 YES	00005100
0000F0	9504	3016		00016		80	CLI ESDTYPE,\$ESDPC PRIVATE CODE?	00005200
0000F4	4770	C142		00142		81	BNE GEN0035 NO	GP10071 00005300
0000F8	D502	3017	B11D	00017	0011D	82	GEN0030 CLC ESDADDR,COMMCSAD+1 TOO LOW FOR OUR CSECT?	00005400
0000FE	4740	C142		00142		83	BL GEN0035 YES	GP10072 00005500
000102	D502	3017	B129	00017	00129	84	CLC ESDADDR,COMMCSAD+1 TOO HIGH FOR OUR CSECT?	GP10071 00005600
000108	4720	C142		00142		85	BH GEN0035 YES	GP10072 00005700
00010C	D507	300E	B14C	0000E	0014C	86	CLC ESDNAME,COMMCSNM SAME AS THE CSECT NAME?	00005800
000112	4780	C142		00142		87	BE GEN0035 YES	GP10072 00005900
000116	D277	AC1C	AC1B	01C1C	01C1B	88	MVC SRC(SRCL),SRC-1 CLEAR SOURCE AREA	00006000
00011C	D204	AC4D	AB92	01C4D	01B92	89	MVC SRCMNEM,ENTROPCD SET OPCODE (ENTRY)	00006100
000122	D207	AC53	300E	01C53	0000E	90	MVC SRCOPER(L'ESDNAME),ESDNAME	00006200
000128	D277	B710	AC1C	00710	01C1C	91	MVC PRTDATA(SRCL),SRC SET PRINT DATA	00006300
00012E	4110	300E		0000E		92	LA R1,ESDNAME	GP99184 00006400
000132	45E0	A96A		0196A		93	BAL R14,FINDLABL BUILD CROSS-REFERENCE BY NAME	GP99184 00006500
000136	4590	A8D4		018D4		94	BAL R9,PUNCH000 PUNCH ENTRY STATEMENT	GP99134 00006600
00013A	4590	A91E		0191E		95	BAL R9,PRTSTMT PRINT ENTRY STATEMENT	GP99134 00006700
00013E	47F0	C17A		0017A		96	B GEN0040 LOOK FOR ANOTHER	GP10071 00006800
000142	9180	301E		0001E		98	GEN0035 TM ESDFLAG,\$ESFXTRN NEED AN EXTERNAL ?	GP10071 00007000
000146	4780	C17A		0017A		99	BZ GEN0040 NO	GP10071 00007100
00014A	947F	301E		0001E		100	NI ESDFLAG,255-\$ESFXTRN ONE IS ENOUGH	GP10071 00007200
00014E	D277	AC1C	AC1B	01C1C	01C1B	101	MVC SRC(SRCL),SRC-1 CLEAR SOURCE AREA	GP10071 00007300
000154	D204	AC4D	AA84	01C4D	01A84	102	MVC SRCMNEM,=C'EXTRN' SET OPCODE (EXTRN)	GP10071 00007400
00015A	950A	3016		00016		103	CLI ESDTYPE,\$ESDWX WEAK ?	GP10071 00007500
00015E	4770	C166		00166		104	BNE *+8 NO	GP10071 00007600
000162	92E6	AC4D		01C4D		105	MVI SRCMNEM,C'W' SET WXTRN	GP10071 00007700
000166	D207	AC53	300E	01C53	0000E	106	MVC SRCOPER(L'ESDNAME),ESDNAME	GP10071 00007800

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00016C	D277	B710	AC1C	00710	01C1C	107	MVC PRTDATA(SRCL),SRC	SET PRINT DATA GP10071 00007900
000172	4590	A8D4		018D4		108	BAL R9,PUNCH000	PUNCH ENTRY STATEMENT GP10071 00008000
000176	4590	A91E		0191E		109	BAL R9,PRTSTMT	PRINT ENTRY STATEMENT GP10071 00008100
00017A						110	GEN0040 DS OH	00008200
00017A	BF3F	3000		00000		111	ICM R3,15,ESDNEXT	NEXT ESD ENTRY 00008300
00017E	4770	C0E8		000E8		112	BNZ GEN0020	LOOP 00008400
						113	DROP R3	GP99141 00008500
						114	* -----	* 00008600
						115	* FINISHED WITH PRELIMINARIES	* 00008700
						116	* -----	* 00008800
000182						117	GEN0050 DS OH	00008900
000182	1B33					118	SR R3,R3	INITIALIZE INSTRUCTION DISP 00009000
000184	5030	AAFC		01AFC		119	ST R3,DISPI	SET INSTRUCTION DISPLACEMENT GP99161 00009100
000188	5030	AB08		01B08		120	ST R3,DISPL	CLEAR LABEL DISPLACEMENT GP99161 00009200
00018C	5840	B130		00130		121	L R4,COMMTXT	INITIALIZE INSTRUCTION ADDRESS 00009300
000190	4150	B118		00118		122	LA R5,COMMLABL	FIRST CSECT LABEL GP99161 00009400
000194	92FF	AB08		01B08		123	MVI DISPL,X'FF'	SET EOF FLAG GP99162 00009500
				00000		124	USING LABLDSC,T,R5	DEFINE BASE 00009600
000198	BF5F	5000		00000		125	GEN0052 ICM R5,15,LABLNEXT	GP99161 00009700
00019C	4780	C1AA		001AA		126	BZ GEN0070	NO LABELS GP99162 00009800
0001A0	D203	AB08	5014	01B08	00014	127	MVC DISPL,LABLDISP	SET LABEL DISPLACEMENT 00009900
0001A6	47F0	C1AA		001AA		128	B GEN0070	00010000
0001AA						129	GEN0070 DS OH	00010100
0001AA	BF6F	B114		00114		130	ICM R6,15,COMMREF	FIRST REFERENCE ENTRY 00010200
				00000		131	USING REFDSCT,R6	DEFINE BASE 00010300
0001AE	4780	C1BC		001BC		132	BZ GEN0080	NO REFERENCES 00010400
0001B2	D203	AB20	601C	01B20	0001C	133	MVC DISPR,REFDISPI	SET REFERENCE DISP 00010500
0001B8	47F0	C1C0		001C0		134	B GEN0090	00010600
0001BC						135	GEN0080 DS OH	00010700
0001BC	92FF	AB20		01B20		136	MVI DISPR,X'FF'	SET EOF FLAG 00010800
0001C0						137	GEN0090 DS OH	00010900
0001C0	BF7F	B10C		0010C		138	ICM R7,15,COMMDATA	FIRST DATA AREA 00011000
				00000		139	USING DATADSC,T,R7	DEFINE BASE 00011100
0001C4	4780	C1D2		001D2		140	BZ GEN0100	NO DATA AREAS 00011200
0001C8	D203	AB14	701C	01B14	0001C	141	MVC DISPD,DATABEGN	SET DATA AREA DISPLACEMENT 00011300
0001CE	47F0	C1D6		001D6		142	B GENLOOP	GP99155 00011400
0001D2						143	GEN0100 DS OH	00011500
0001D2	92FF	AB14		01B14		144	MVI DISPD,X'FF'	SET EOF FLAG 00011600
						145	* -----	* 00011700
						146	* -----	* 00011800
						147	* BEGINNING OF SOURCE GENERATION LOOP	* 00011900
						148	* -----	* 00012000
						149	* -----	* 00012100
0001D6						150	GENLOOP DS OH	GP99155 00012200
						151	ITRACE ID=GENLOOP,	STARTING GEN LOOP +00012300
							DATA1=DISPI,	.. INSTRUCTION DISPLACEMENT +00012400
							DATA2=DISPD	.. NEXT DATA AREA DISPLACEMENT 00012500
0001D6	41E0	AAFC		01AFC		152+	LA R14,DISPI	DATA ADDRESS 00360000
0001DA	D207	B0E0	E000	000E0	00000	153+	MVC TRDATA1,0(R14)	MOVE DATA 00370000
0001E0	41E0	AB14		01B14		154+	LA R14,DISPD	DATA ADDRESS 00510000
0001E4	D207	B0E8	E000	000E8	00000	155+	MVC TRDATA2,0(R14)	MOVE DATA 00530000
0001EA	45E0	B564		00564		156+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
0001EE	C7C5D5D3D6D6D740					157+	DC CL8'GENLOOP'	TRACE ID 00670000
						159	* -----	* 00012700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
					160 *	GENERATE A LABEL				*	00012800
					161 *	-----	-----			*	00012900
0001F6	5530	AB08	01B08		162	LABELLOOP	CL R3,DISPL GEN A LABEL AT THIS TIME?	GP99146			00013000
0001FA	4740	C2BE	002BE		163		BL GEN0130 NO	GP99155			00013100
0001FE	4780	C20A	0020A		164		BE LABELSET	GP99155			00013200
					165	*NEXT*	BH LABELEQU OOPS - PASSED IT	GP99153			00013300
000202	4580	C23E	0023E		166	LABELEQU	BAL R8,MAKEEQU CURRENT LABEL NEEDS EQU	GP99155			00013400
000206	47F0	C2AC	002AC		167		B LABELBMP TRY ANOTHER LABEL	GP99155			00013500
00020A	D507	500C	B14C	0000C	0014C	169	LABELSET CLC LABLNAME,COMMCSNM SAME AS CSECT?	GP99162			00013700
000210	4780	C2AC		002AC		170	BE LABELBMP YES; IGNORE	GP99162			00013800
000214	D207	ABD9	500C	01BD9	0000C	171	MVC LOCLABEL,LABLNAME SAVE LABEL FOR CODE EXPANSION	GP10012			00013900
00021A	18F5					172	LR R15,R5 SAVE CURRENT	GP10049			00014000
00021C	BF5F	5000		00000		173	ICM R5,15,LABLNEXT NEXT LABEL	GP10012			00014100
000220	4780	C2BA		002BA		174	BZ LABELEOF NO MORE LABELS	GP10049			00014200
000224	D503	AB08	5014	01B08	00014	175	CLC DISPL,LABLDISP NEXT LABEL AT SAME LOCATION?	GP10049			00014300
00022A	4780	C238		00238		176	BE MAKEEQPV YES; MAKE DS FOR THIS ONE	GP10049			00014400
00022E	D203	AB08	5014	01B08	00014	177	MVC DISPL,LABLDISP SET NEW LABEL DISPLACEMENT	GP10012			00014500
000234	47F0	C2BE		002BE		178	B GEN0130	GP10012			00014600
000238	185F					180	MAKEEQPV LR R5,R15 EXPAND PREVIOUS LABEL	GP10049			00014800
00023A	4180	C2AC		002AC		181	LA R8,LABELBMP THEN BUMP TO NEXT	GP10049			00014900
00023E	D507	500C	B14C	0000C	0014C	183	MAKEEQU CLC LABLNAME,COMMCSNM SAME AS CSECT?	GP99162			00015100
000244	4780	C2AC		002AC		184	BE LABELBMP YES; IGNORE	GP99162			00015200
000248	D277	AC1C	AC1B	01C1C	01C1B	185	MVC SRC(SRCL),SRC-1 CLEAR SOURCE STATEMENT AREA				00015300
						186	*OLD* UNPK SRCDISP(9),LABLDISP(5) UNPACK DISPLACEMENT	GP99155			00015400
						187	*OLD* TR SRCDISP,COMMHXTR TRANSLATE TO PRINTABLE	GP99155			00015500
						188	*OLD* MVI SRCDISP+8,C' ' RESTORE THE BLANK	GP99155			00015600
00024E	F363	AC1C	5015	01C1C	00015	189	UNPK SRCDISP(L'SRCDISP+1),LABLDISP+4-L'SRCDISP/2(L'SRCDISP/2+1)	13026			00015700
000254	DC05	AC1C	B185	01C1C	00185	190	TR SRCDISP,COMMHXTR TRANSLATE TO PRINTABLE	GP13026			00015800
00025A	9240	AC22		01C22		191	MVI SRCDISP+L'SRCDISP,C' ' RESTORE THE BLANK	GP13026			00015900
00025E	D207	AC44	500C	01C44	0000C	192	MVC SRCLABL,LABLNAME SET LABEL	GP99155			00016000
000264	D202	AC4D	AA89	01C4D	01A89	193	MVC SRCMNEM(3),=C'EQU' SET OPCODE	GP99155			00016100
00026A	D207	AC53	B14C	01C53	0014C	194	MVC SRCOPER(L'COMMCSNM),COMMCSNM COPY CSECT NAME	GP99155			00016200
000270	4110	B14C		0014C		195	LA R1,COMMCSNM	GP99184			00016300
000274	45E0	A96A		0196A		196	BAL R14,FINDLABL BUILD CROSS-REFERENCE BY NAME	GP99184			00016400
000278	DD08	AC53	BA68	01C53	00A68	197	TRT SRCOPER(9),BLKTRT FIND NEXT BLANK	GP99155			00016500
00027E	BF0F	5014		00014		198	ICM R0,15,LABLDISP ANY OFFSET?	GP10012			00016600
000282	4780	C29C		0029C		199	BZ MAKEEQUO	GP10012			00016700
000286	924E	1000		00000		200	MVI O(R1),C'+' JOIN	GP99155			00016800
00028A	D203	AB24	5014	01B24	00014	201	MVC WORKNBR,LABLDISP OFFSET TO BE CONVERTED				00016900
000290	4110	1001		00001		202	LA R1,1(R1) SET NEXT AVAILABLE ADDRESS	GP99155			00017000
000294	5010	AAEC		01AEC		203	ST R1,GENADDR PASS TO FUNCTION	GP99155			00017100
000298	45F0	A7B6		017B6		204	BAL R15,GENNBROO BUILD THE NUMBER	GP99155			00017200
00029C	D277	B710	AC1C	00710	01C1C	205	MAKEEQUO MVC PRTDATA(SRCL),SRC COPY STATEMENT TO PRINT	GP99155			00017300
0002A2	4590	A8D4		018D4		206	BAL R9,PUNCH000 PUNCH SOURCE STATEMENT	GP99155			00017400
0002A6	4590	A91E		0191E		207	BAL R9,PRTSTMT PRINT SOURCE STATEMENT	GP99155			00017500
0002AA	07F8					208	BR R8 RETURN TO CALLER	GP99161			00017600
0002AC	BF5F	5000		00000		210	LABELBMP ICM R5,15,LABLNEXT NEXT LABEL	GP99153			00017800
0002B0	D203	AB08	5014	01B08	00014	211	MVC DISPL,LABLDISP SET NEW LABEL DISPLACEMENT	GP99155			00017900
0002B6	4770	C1F6		001F6		212	BNZ LABELLOOP	GP99155			00018000
0002BA	92FF	AB08		01B08		213	LABELEOF MVI DISPL,X'FF' SET END OF FILE				00018100

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					215	* -----	* 00018300
					216	* TEST FOR DATA AREA	* 00018400
					217	* -----	* 00018500
0002BE					218	GEN0130 DS OH	00018600
0002BE	5530	B12C	0012C		219	CL R3,COMMC SLN REACHED END OF MODULE?	GP99155 00018700
0002C2	47B0	A02E	0102E		220	BNL GEN0700 YES.. COPY ASSEMBLER INPUT	GP99155 00018800
0002C6	5530	AB14	01B14		221	CL R3,DISPD IS THIS DATA?	GP99146 00018900
0002CA	4780	C6B6	006B6		222	BE GEN0390 YES	00019000
0002CE	4720	A7F2	017F2		223	BH ERR0010 INTERNAL ERROR	00019100
0002D2	9101	AAFF	01AFF		224	TM DISPI+3,X'01' DISPLACEMENT ODD?	00019200
0002D6	4710	A8AA	018AA		225	BO ERR0040 YES	00019300
					226	* -----	* 00019400
					227	* FLAG DROP STATEMENTS FOR USING BLOCKS	* 00019500
					228	* -----	* 00019600
0002DA	D707	B000	B000	00000	229	XC COMMDWRD,COMMDWRD CLEAR DROP FLAGS	GP99146 00019700
0002E0	4180	B100	00100		230	LA R8,COMMUSNG POINT TO FIRST USING BLOCK	GP99146 00019800
				00000	231	USNG USNGDSCT,R8 DEFINE BASE	GP99146 00019900
0002E4	BF8F	8000	00000		232	GEN0140 ICM R8,15,USNGNEXT NEXT USING BLOCK	GP99146 00020000
0002E8	4780	C324	00324		233	BZ GEN0160 LOOP	GP99146 00020100
0002EC	9180	8031	00031		234	TM USNGFLAG,\$USNGND DISPLACEMENTS?	00020200
0002F0	4710	C2E4	002E4		235	BO GEN0140 NO.. NEVER NEED A DROP	GP99146 00020300
0002F4	5530	802C	0002C		236	CL R3,USNGEND TIME FOR 'DROP' STATEMENT?	GP99146 00020400
0002F8	4770	C2E4	002E4		237	BNE GEN0140 NO	GP99146 00020500
0002FC	1B00				238	SR R0,R0	GP99146 00020600
0002FE	4300	8030	00030		239	IC R0,USNGBASE GET THE REGISTER NUMBER	GP99146 00020700
000302	45E0	C360	00360		240	BAL R14,TESTUSE SEE WHETHER WE WILL BE USING	GP99147 00020800
000306	47F0	C2E4	002E4		241	B GEN0140 IF SO, IGNORE THIS DROP	GP99147 00020900
00030A	4110	001E	0001E		242	LA R1,30 SET FOR LEFT-MOST NON-SIGN BIT	GP99146 00021000
00030E	1B10				243	SR R1,R0 GET PLACES TO SHIFT	GP99146 00021100
000310	4100	0001	00001		244	LA R0,1	GP99146 00021200
000314	8900	1000	00000		245	SLL R0,0(R1) SHIFT REGISTER BIT LEFT	GP99146 00021300
000318	5600	B000	00000		246	O R0,COMMDWRD COMBINE WITH OTHERS	GP99146 00021400
00031C	5000	B000	00000		247	ST R0,COMMDWRD AND STASH IT BACK	GP99146 00021500
000320	47F0	C2E4	002E4		248	B GEN0140	GP99146 00021600
					249	* -----	* 00021700
					250	* FLAG DROP STATEMENTS FOR BASE BLOCKS	* 00021800
					251	* -----	* 00021900
000324	4180	B108	00108		252	GEN0160 LA R8,COMMBASE POINT TO FIRST BLOCK	GP99146 00022000
				00000	253	USNG BASEDSCT,R8 DEFINE BASE	GP99146 00022100
000328	BF8F	8000	00000		254	GEN0170 ICM R8,15,BASENEXT NEXT BASE BLOCK	GP99146 00022200
00032C	4780	C3A4	003A4		255	BZ GEN0180 DONE; GO TO EXPAND	GP99146 00022300
000330	5530	8010	00010		256	CL R3,BASEEND TIME FOR 'DROP' STATEMENT?	GP99146 00022400
000334	4770	C328	00328		257	BNE GEN0170 NO	GP99146 00022500
000338	1B00				258	SR R0,R0	GP99146 00022600
00033A	4300	8018	00018		259	IC R0,BASEREG GET THE REGISTER NUMBER	GP99146 00022700
00033E	45E0	C360	00360		260	BAL R14,TESTUSE SEE WHETHER WE WILL BE USING	GP99147 00022800
000342	47F0	C328	00328		261	B GEN0170 IF SO, IGNORE THIS DROP	GP99147 00022900
000346	4110	001E	0001E		262	LA R1,30 SET FOR LEFT-MOST NON-SIGN BIT	GP99146 00023000
00034A	1B10				263	SR R1,R0 GET PLACES TO SHIFT	GP99146 00023100
00034C	4100	0001	00001		264	LA R0,1	GP99146 00023200
000350	8900	1000	00000		265	SLL R0,0(R1) SHIFT REGISTER BIT LEFT	GP99146 00023300
000354	5600	B000	00000		266	O R0,COMMDWRD COMBINE WITH OTHERS	GP99146 00023400
000358	5000	B000	00000		267	ST R0,COMMDWRD AND STASH IT BACK	GP99146 00023500
00035C	47F0	C328	00328		268	B GEN0170 NOW DO ANOTHER	GP99146 00023600

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					270 *	AS AN ADDED BONUS, SEE WHETHER WE WILL BE GENERATING A USING	GP99147 00023800
					271 *	STATEMENT AT THIS ADDRESS. IF SO, WE CAN SKIP THE DROP	GP99147 00023900
					272	PUSH USING	GP99147 00024000
					273	DROP R8	GP99147 00024100
000360	4120	B100	00100		274 TESTUSE	LA R2,COMMUSNG	GP99147 00024200
			00000		275	USNG USNGDSCT,R2 DECLARE USING	GP99147 00024300
000364	BF2F	2000	00000		276 TESTUSEL	ICM R2,15,USNGNEXT LINK?	GP99147 00024400
000368	4780	C386	00386		277	BZ TESTBAS NO MORE; TEST BASES	GP99147 00024500
00036C	BD01	2030	00030		278	CLM R0,1,USNGBASE REQUESTED REGISTER?	GP99147 00024600
000370	4770	C364	00364		279	BNE TESTUSEL NO	GP99147 00024700
000374	9180	2031	00031		280	TM USNGFLAG,\$USNGND DISPLACEMENTS?	GP99147 00024800
000378	4770	C364	00364		281	BNZ TESTUSEL NO; NOTHING TO TEST	GP99147 00024900
00037C	5530	2028	00028		282	CL R3,USNGBEGR MATCHING OFFSET?	GP99147 00025000
000380	4770	C364	00364		283	BNE TESTUSEL	GP99147 00025100
000384	078E				284	BER R14 YES; SKIP THIS REGISTER	GP99147 00025200
000386	4120	B108	00108		285 TESTBAS	LA R2,COMMBASE	GP99147 00025300
			00000		286	USNG BASEDSCT,R2 DECLARE USING	GP99147 00025400
00038A	BF2F	2000	00000		287 TESTBASL	ICM R2,15,BASENEXT LINK?	GP99147 00025500
00038E	4780	E004	00004		288	BZ 4(,R14) NO MORE; RETURN UNUSED	GP99147 00025600
000392	BD01	2018	00018		289	CLM R0,1,BASEREG REQUESTED REGISTER?	GP99147 00025700
000396	4770	C38A	0038A		290	BNE TESTBASL NO	GP99147 00025800
00039A	5530	200C	0000C		291	CL R3,BASEBEGR MATCHING OFFSET?	GP99147 00025900
00039E	4770	C38A	0038A		292	BNE TESTBASL	GP99147 00026000
0003A2	07FE				293	BR R14 YES; SKIP THIS REGISTER	GP99147 00026100
					294	POP USING	GP99147 00026200
					296 *	----- * 00026400	
					297 *	GENERATE DROP STATEMENT * 00026500	
					298 *	----- * 00026600	
0003A4	BF9F	B000	00000		299 GEN0180	ICM R9,15,COMMDWRD LOAD THE REGISTERS TO DROP	GP99146 00026700
0003A8	4780	C3FA	003FA		300	BZ GEN0190 NONE; SKIP THIS	GP99146 00026800
0003AC	D277	AC1C AC1B	01C1C 01C1B		301	MVC SRC(SRCL),SRC-1 CLEAR SOURCE AREA	GP99146 00026900
0003B2	D204	AC4D AB9E	01C4D 01B9E		302	MVC SRCMNEM,DROPOPCD SET OPCODE	GP99146 00027000
0003B8	4120	AC52	01C52		303	LA R2,SRCOPER-1 POINT TO OPERAND FIELD	GP10055 00027100
0003BC	4180	0010	00010		304	LA R8,16 MAX OF SIXTEEN DROPS	GP10055 00027200
0003C0	1698				305	OR R9,R8 MAKE LOW NON-ZERO	GP10055 00027300
0003C2	1B88				306	SR R8,R8 CURRENT REGISTER NUMBER	GP10055 00027400
0003C4	8699	C3DC	003DC		307 GEN0182	BXH R9,R9,GEN0186 SHIFT, TEST, AND SKIP IF OFF	GP10055 00027500
0003C8	926B	2000	00000		308	MVI 0(R2),C',' SEPARATOR	GP10055 00027600
0003CC	4122	0001	00001		309	LA R2,1(R2)	GP10055 00027700
0003D0	5020	AAEC	01AEC		310	ST R2,GENADDR SET NEXT O/P POSITION	GP10055 00027800
0003D4	1818				311	LR R1,R8 COPY CURRENT REGISTER	GP10055 00027900
0003D6	45F0	A5FA	015FA		312	BAL R15,GENREG01 EXPAND REGISTER NAME	GP10055 00028000
0003DA	182E				313	LR R2,R14 SET NEXT BLANK	GP10055 00028100
0003DC	4180	8001	00001		314 GEN0186	LA R8,1(,R8) TRY NEXT REGISTER	GP10055 00028200
0003E0	4980	AA38	01A38		315	CH R8,=H'16' DONE ALL ?	GP10055 00028300
0003E4	4740	C3C4	003C4		316	BL GEN0182 NOT YET	GP10055 00028400
0003E8	9240	AC52	01C52		317	MVI SRCOPER-1,C' ' REMOVE LEADING COMMA	GP10055 00028500
0003EC	D277	B710 AC1C	00710 01C1C		318	MVC PRTDATA(SRCL),SRC SET PRINT DATA	GP99146 00028600
0003F2	4590	A8D4	018D4		319	BAL R9,PUNCH000 PUNCH DROP STATEMENT	GP99134 00028700
0003F6	4590	A91E	0191E		320	BAL R9,PRTSTMT PRINT DROP STATEMENT	GP99134 00028800
					322 *	----- * 00029000	
					323 *	GENERATE USING STATEMENTS FOR USING BLOCKS * 00029100	
					324 *	----- * 00029200	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003FA	4180	B100	00100		325	GEN0190	LA R8,COMMUSNG FIRST USING BLOCK	GP99146 00029300
				00000	326		USING USNGDSCT,R8 DEFINE BASE	GP99146 00029400
0003FE	BF8F	8000	00000		327	GEN0200	ICM R8,15,USNGNEXT NEXT USING BLOCK	GP99146 00029500
000402	4780	C474	00474		328		BZ GEN0270 NO MORE USING BLOCKS	GP99146 00029600
000406	9180	8031	00031		329		TM USNGFLAG,\$USNGND DISPLACEMENTS?	GP99146 00029700
00040A	4780	C418	00418		330		BZ GEN0220 YES.. DISPLACEMENTS MUST MATCH	GP99146 00029800
00040E	1233				331		LTR R3,R3 FIRST TIME EVER?	GP99146 00029900
000410	4770	C3FE	003FE		332		BNZ GEN0200 NO; IGNORE	GP99146 00030000
000414	47F0	C420	00420		333		B GEN0230 EXPAND AT OFFSET 0	GP99146 00030100
000418	5530	8028	00028		335	GEN0220	CL R3,USNGBEGN TIME FOR 'USING' STATEMENT?	GP99146 00030300
00041C	4770	C3FE	003FE		336		BNE GEN0200 NO	GP99146 00030400
000420	D277	AC1C AC1B	01C1C 01C1B		337	GEN0230	MVC SRC(SRCL),SRC-1 CLEAR SOURCE AREA	GP99146 00030500
000426	D204	AC4D ABA4	01C4D 01BA4		338		MVC SRCMNEM,USNGOPCD SET OPCODE	00030600
00042C	4110	8014	00014		339		LA R1,USNGLBNM YES: USE LABEL	GP03064 00030700
000430	9540	8014	00014		340		CLI USNGLBNM,C' ' IS THERE A LABEL ?	GP03064 00030800
000434	4720	C43C	0043C		341		BH GEN0230L YES; USE IT	GP03064 00030900
000438	4110	800C	0000C		342		LA R1,USNGDSNM POINT TO DSECT NAME	GP03064 00031000
00043C	D207	AC53 1000	01C53 00000		343	GEN0230L	MVC SRCOPER(8),0(R1) SET DSECT OR LABEL NAME	GP03064 00031100
000442	4110	AC53	01C53		344		LA R1,SRCONPER	00031200
000446	45E0	A96A	0196A		345		BAL R14,FINDLABL REFERENCE IT	00031300
00044A	DD08	AC53 BA68	01C53 00A68		346		TRT SRCOPER(9),BLKTRT FIND NEXT BLANK	GP99146 00031400
000450	5010	AAEC	01AEC		347		ST R1,GENADDR SET OUTPUT ADDRESS	00031500
000454	45F0	A5BC	015BC		348		BAL R15,GENCOMMA GENERATE COMMA	GP99146 00031600
000458	D200	AB2B 8030	01B2B 00030		349		MVC WORKREG,USNGBASE COPY REGISTER	00031700
00045E	45F0	A5F2	015F2		350		BAL R15,GENREG00 GENERATE REGISTER	GP99146 00031800
000462	D277	B710 AC1C	00710 01C1C		351		MVC PRTDATA(SRCL),SRC SET PRINT DATA	00031900
000468	4590	A8D4	018D4		352		BAL R9,PUNCH000 PUNCH USING STATEMENT	GP99134 00032000
00046C	4590	A91E	0191E		353		BAL R9,PRTSTMT PRINT USING STATEMENT	GP99134 00032100
000470	47F0	C3FE	003FE		354		B GEN0200 DO ANOTHER	GP99146 00032200
					356	*	----- * 00032400	
					357	*	GENERATE USING STATEMENTS FOR BASE BLOCKS * 00032500	
					358	*	----- * 00032600	
000474	4180	B108	00108		359	GEN0270	LA R8,COMMBASE FIRST USING BLOCK	GP99146 00032700
				00000	360		USING BASEDSCT,R8 DEFINE BASE	GP99146 00032800
000478	BF8F	8000	00000		361	GEN0280	ICM R8,15,BASENEXT NEXT BASE BLOCK	GP99146 00032900
00047C	4780	C520	00520		362		BZ GEN0330 NO BASE BLOCKS	GP99146 00033000
000480	5530	800C	0000C		363		CL R3,BASEBEGN TIME FOR 'USING' STATEMENT?	GP99146 00033100
000484	4770	C478	00478		364		BNE GEN0280 NO	GP99146 00033200
000488	D277	AC1C AC1B	01C1C 01C1B		365		MVC SRC(SRCL),SRC-1 CLEAR SOURCE AREA	00033300
00048E	D204	AC4D ABA4	01C4D 01BA4		366		MVC SRCMNEM,USNGOPCD SET OPCODE	00033400
000494	5530	8014	00014		367		CL R3,BASEDISP OFFSET SAME AS CURRENT ADDRESS?	GP99146 00033500
000498	4770	C4CC	004CC		368		BNE GEN0290 NO	GP99146 00033600
00049C	925C	AC53	01C53		369		MVI SRCOPER,C'*' IF WE GET LUCKY?	GP99146 00033700
0004A0	9540	ABD9	01BD9		370		CLI LOCLABEL,C' ' IS THE NEXT INSTRUCTION LABELED?	GP99169 00033800
0004A4	47D0	C4BC	004BC		371		BNH GEN0282 NO; TRY *	GP99169 00033900
0004A8	D207	AC53 ABD9	01C53 01BD9		372		MVC SRCOPER(8),LOCLABEL MAKE USING NAME,RN	GP99169 00034000
0004AE	1233				373		LTR R3,R3 FIRST TIME?	GP99146 00034100
0004B0	4780	C4BC	004BC		374		BZ GEN0282 YES; SKIP LABEL (WILL BE CSECT)	GP99146 00034200
0004B4	4110	ABD9	01BD9		375		LA R1,LOCLABEL	GP99184 00034300
0004B8	45E0	A96A	0196A		376		BAL R14,FINDLABL BUILD CROSS-REFERENCE BY NAME	GP99184 00034400
0004BC	DD08	AC53 BA68	01C53 00A68		377	GEN0282	TRT SRCOPER(9),BLKTRT FIND NEXT BLANK	GP99146 00034500
0004C2	5010	AAEC	01AEC		378		ST R1,GENADDR SET ADDRESS	GP99146 00034600
0004C6	1233				379		LTR R3,R3 FIRST TIME?	GP99146 00034700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0004C8	4770	C500	00500		380		BNZ GEN0310 NO; JUST ADD REGISTER	GP99146 00034800
0004CC	D207	AC53 B14C	01C53	0014C	381	GEN0290	MVC SRCOPER(8),COMMCSNM SET OPERAND (CSECT'S NAME)	GP99146 00034900
0004D2	4110	B14C	0014C		382		LA R1,COMMCSNM	GP99184 00035000
0004D6	45E0	A96A	0196A		383		BAL R14,FINDLABL BUILD CROSS-REFERENCE BY NAME	GP99184 00035100
0004DA	DD08	AC53 BA68	01C53	00A68	384	GEN0300	TRT SRCOPER(9),BLKTRT FIND NEXT BLANK	GP99146 00035200
0004E0	5010	AAEC	01AEC		385		ST R1,GENADDR SET ADDRESS	00035300
0004E4	BF0F	8014	00014		386		ICM R0,15,BASEDISP DISPLACEMENT REFERRED TO	00035400
0004E8	4780	C500	00500		387		BZ GEN0310 DIRECTLY AT CSECT	00035500
0004EC	924E	1000	00000		388		MVI 0(R1),C'+ ' INSERT PLUS	00035600
0004F0	4110	1001	00001		389		LA R1,1(,R1) NEXT	00035700
0004F4	5010	AAEC	01AEC		390		ST R1,GENADDR SET ADDRESS	00035800
0004F8	5000	AB24	01B24		391		ST R0,WORKNBR SET LABEL	GP99161 00035900
0004FC	45F0	A7B6	017B6		392		BAL R15,GENNBROO GENERATE NUMERIC VALUE	GP99146 00036000
000500					393	GEN0310	DS OH	00036100
000500	45F0	A5BC	015BC		394		BAL R15,GENCOMMA INSERT COMMA	GP99146 00036200
000504	D200	AB2B 8018	01B2B	00018	395		MVC WORKREG,BASEREG COPY REGISTER	00036300
00050A	45F0	A5F2	015F2		396		BAL R15,GENREG00 GENERATE REGISTER	GP99146 00036400
00050E	D277	B710 AC1C	00710	01C1C	397		MVC PRTDATA(SRCL),SRC SET PRINT DATA	00036500
000514	4590	A8D4	018D4		398		BAL R9,PUNCH000 PUNCH USING STATEMENT	GP99134 00036600
000518	4590	A91E	0191E		399		BAL R9,PRTSTMT PRINT USING STATEMENT	GP99134 00036700
00051C	47F0	C478	00478		400		B GEN0280 LOOP	GP99146 00036800
					402	*	----- * 00037000	
					403	*	GENERATE AN INSTRUCTION * 00037100	
					404	*	----- * 00037200	
000520					405	GEN0330	DS OH	00037300
000520	1B88				406		SR R8,R8 CLEAR REGISTER	00037400
000522	BF81	4000	00000		407		ICM R8,1,0(R4) POSSIBLE OPCODE	00037500
000526	4780	A838	01838		408		BZ ERR0020 NOT A VALID OPCODE	00037600
00052A	1814				409		LR R1,R4 PASS INSTRUCTION ADDRESS	GP99137 00037700
00052C	45E0	B4C8	004C8		410		BAL R14,GETOPENT LOOK IT UP	GP99137 00037800
000530	47F0	A838	01838		411		B ERR0020 NOT A VALID CODE	GP99137 00037900
000534	188F				412		LR R8,R15 MOVE TO DESIRED REGISTER	GP99137 00038000
000536	4000	AB2C	01B2C		413		STH R0,OPLNGTH SAVE INSTRUCTION LENGTH	GP99137 00038100
				00000	414		USING OPDSECT,R8 DEFINE BASE	00038200
00053A	1200				415		LTR R0,R0 VALID LENGTH ?	GP10018 00038300
00053C	4780	A838	01838		416		BZ ERR0020 NOT A VALID OPCODE	00038400
					417		ITRACE ID=GENINSTR, GENERATING A VALID INSTRUCTION	+00038500
							DATA1=(R4), .. INSTRUCTION	+00038600
							DATA2=OPMNEM .. OPCODE TABLE DATA	00038700
000540	D207	B0E0 4000	000E0	00000	418+		MVC TRDATA1,0(R4) MOVE DATA	00410000
000546	41E0	8000	00000		419+		LA R14,OPMNEM DATA ADDRESS	00510000
00054A	D207	B0E8 E000	000E8	00000	420+		MVC TRDATA2,0(R14) MOVE DATA	00530000
000550	45E0	B564	00564		421+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000554	C7C5D5C9D5E2E3D9				422+		DC CL8'GENINSTR' TRACE ID	00670000
00055C	4590	CF9E	00F9E		423		BAL R9,GEN0600 GENERATE DISP AND HEX	GP99146 00038800
000560	1BFF				424		SR R15,R15 CLEAR REGISTER	00038900
000562	43F0	8006	00006		425		IC R15,OPFORM OPCODE FORM	00039000
000566	89F0	0002	00002		426		SLL R15,2 MULTIPLY BY 4	00039100
00056A	5EF0	A9E0	019E0		427		AL R15,=A(FMTTABLE) GENERATING ROUTINE'S ADDRESS	GP10071 00039200
00056E	58F0	F000	00000		428		L R15,0(,R15) LOAD ADDRESS AND	GP10071 00039300
000572	07FF				429		BR R15 GENERATE THE INSTRUCTION	00039400
000574					430	GEN0340	DS OH	00039500
000574	910E	8007	00007		431		TM OPFLAGS,\$OPCCA+\$OPCCL+\$OPCCC CONDITION CODE CHANGED?	00039600

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000578	4780	C582	00582		432	BZ	GEN0350 NO	00039700
00057C	D200	AB2F 8007	01B2F 00007		433	MVC	SAVEFLAG,OPFLAGS SAVE CONDITION CODE FLAGS	00039800
000582					434	GEN0350 DS	OH	00039900
000582	9120	8007	00007		435	TM	OPFLAGS,\$OPNCMNT COMMENT PRESENT?	00040000
000586	4710	C60C	0060C		436	BO	GEN0360 NO	00040100
00058A	9540	AC72	01C72		437	CLI	SRCCMNT,C' ' ALREADY USED (SVC)? GP10035	00040200
00058E	4720	C60C	0060C		438	BH	GEN0360 YES; DON'T CLOBBER GP10035	00040300
000592	41F0	8008	00008		439	LA	R15,OPCMNT GP10018	00040400
000596	9101	8007	00007		440	TM	OPFLAGS,\$OPMASK INSTRUCTION MASK PRESENT? GP10018	00040500
00059A	4780	C5A2	005A2		441	BZ	*+8 NO GP10018	00040600
00059E	41F0	800E	0000E		442	LA	R15,OPCMNT+L'OPMASK GP10018	00040700
0005A2	D501	AA3A AC23	01A3A 01C23		443	CLC	=C'05',SRCOBJ1 BALR? GP10024	00040800
0005A8	4780	C5B6	005B6		444	BE	GEN0354 GP10049	00040900
0005AC	D501	AA3C AC23	01A3C 01C23		445	CLC	=C'0D',SRCOBJ1 BASR? GP10049	00041000
0005B2	4770	C5CE	005CE		446	BNE	GEN0355 GP10024	00041100
0005B6	95F0	AC26	01C26		447	GEN0354 CLI	SRCOBJ1+3,C'0' RN,RO ? GP10024	00041200
0005BA	4770	C606	00606		448	BNE	GEN0358 GP10024	00041300
0005BE	95F0	AC25	01C25		449	CLI	SRCOBJ1+2,C'0' RO,RO ? GP10026	00041400
0005C2	4780	C60C	0060C		450	BE	GEN0360 SKIP COMMENT GP10026	00041500
0005C6	41F0	A9E4	019E4		451	LA	R15,=CL12'BASE' GP10024	00041600
0005CA	47F0	C606	00606		452	B	GEN0358 GP10024	00041700
0005CE	D501	AA3E AC23	01A3E 01C23		453	GEN0355 CLC	=C'06',SRCOBJ1 BCTR? GP10024	00041800
0005D4	4770	C5E8	005E8		454	BNE	GEN0356 GP10024	00041900
0005D8	95F0	AC26	01C26		455	CLI	SRCOBJ1+3,C'0' RN,RO ? GP10024	00042000
0005DC	4770	C606	00606		456	BNE	GEN0358 GP10024	00042100
0005E0	41F0	A9F0	019F0		457	LA	R15,=CL12'DECREMENT' GP10024	00042200
0005E4	47F0	C606	00606		458	B	GEN0358 GP10024	00042300
0005E8	D501	AA40 AC23	01A40 01C23		459	GEN0356 CLC	=C'45',SRCOBJ1 PLIST BRANCH ? GP10049	00042400
0005EE	4770	C606	00606		460	BNE	GEN0358 NO GP10018	00042500
0005F2	95F0	AC25	01C25		461	CLI	SRCOBJ1+2,C'0' BAL A, CALL ? GP10062	00042600
0005F6	4740	C606	00606		462	BL	GEN0358 YES, NOT NUMERIC GP10062	00042700
0005FA	95F1	AC25	01C25		463	CLI	SRCOBJ1+2,C'1' BAL 0, / BAL 1, PLISTS GP10049	00042800
0005FE	4720	C606	00606		464	BH	GEN0358 NO GP10049	00042900
000602	41F0	ABCC	01BCC		465	LA	R15,DCPLIST GP10018	00043000
000606	D20B	AC72 F000	01C72 00000		466	GEN0358 MVC	SRCCMNT(L'OPCMNT),OPCMNT-OPCMNT(R15) COMMENT GP10018	00043100
00060C					467	GEN0360 DS	OH	00043200
					468		ITRACE ID=PRTSRC	00043300
00060C	45E0	B564	00564		469+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000610	D7D9E3E2D9C34040				470+	DC	CL8'PRTSRC' TRACE ID	00670000
000618	D207	AC44 ABD9	01C44 01BD9		471	MVC	SRCLABL,LOCLABEL PLACE LABEL ON OUTPUT GP99146	00043400
00061E	D207	ABD9 ABD8	01BD9 01BD8		472	MVC	LOCLABEL,LOCLABEL-1 AND CLEAR FOR NEXT USE GP99146	00043500
000624	D277	B710 AC1C	00710 01C1C		473	MVC	PRTDATA(SRCL),SRC SET PRINT DATA	00043600
00062A	5530	AB20	01B20		474	CL	R3,DISPR LABEL REFERENCE USED? GP99184	00043700
00062E	4770	C64A	0064A		475	BNE	GEN0366 NO GP99184	00043800
000632	BF2F	600C	0000C		476	ICM	R2,15,REFOPER1 REFERENCE 1 USED? GP99184	00043900
000636	4780	C63E	0063E		477	BZ	GEN0363 NO GP99184	00044000
00063A	45E0	A982	01982		478	BAL	R14,REFLABEL MAKE REFERENCE CROSS GP99184	00044100
00063E	BF2F	6010	00010		479	GEN0363 ICM	R2,15,REFOPER2 REFERENCE 2 USED? GP99184	00044200
000642	4780	C64A	0064A		480	BZ	GEN0366 NO GP99184	00044300
000646	45E0	A982	01982		481	BAL	R14,REFLABEL MAKE REFERENCE CROSS GP99184	00044400
					482	*EN0366	ITRACE ID=PUNCHSRC	00044500
00064A	4590	A8D4	018D4		483	GEN0366 BAL	R9,PUNCH000 PUNCH SOURCE STATEMENT GP99146	00044600
00064E	4590	A91E	0191E		484	BAL	R9,PRTSTMT PRINT THE GENERATED INSTRUCTION	00044700
000652	5530	AB20	01B20		485	CL	R3,DISPR LABEL REFERENCE USED? GP99146	00044800
000656	4770	C692	00692		486	BNE	GEN0380 NO	00044900

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
00065A	BF6F	6000	00000		487	ICM	R6,15,REFNEXT	NEXT REFERENCE BLOCK 00045000	
00065E	4780	C682	00682		488	BZ	GEN0370	NO MORE REFERENCE BLOCKS 00045100	
000662	D203	AB20	601C	01B20	0001C	489	MVC	DISPR,REFDISPI	SET DISPLACEMENT 00045200
					490	ITRACE	ID=NEXTREF,	WE HAVE A NEW REFERENCE BLOCK +00045300	
							DATA1=DISPR	.. INSTRUCTION'S DISPLACEMENT 00045400	
000668	41E0	AB20	01B20		491+	LA	R14,DISPR	DATA ADDRESS 00360000	
00066C	D207	B0E0	E000	000E0	00000	492+	MVC	TRDATA1,0(R14)	MOVE DATA 00370000
000672	45E0	B564	00564		493+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
000676	D5C5E7E3D9C5C640				494+	DC	CL8'NEXTREF'	TRACE ID 00670000	
00067E	47F0	C692	00692		495	B	GEN0380	00045500	
000682					496	GEN0370	DS OH	00045600	
					497	ITRACE	ID=REFEOF	NO MORE REFERENCE BLOCKS 00045700	
000682	45E0	B564	00564		498+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
000686	D9C5C6C5D6C64040				499+	DC	CL8'REFEOF'	TRACE ID 00670000	
00068E	92FF	AB20	01B20		500	MVI	DISPR,X'FF'	SET EOF FLAG 00045800	
000692					501	GEN0380	DS OH	00045900	
000692	4A30	AB2C	01B2C		502	AH	R3,OPLNGTH	UPDATE DISPLACEMENT 00046000	
000696	4A40	AB2C	01B2C		503	AH	R4,OPLNGTH	UPDATE INSTRUCTION ADDRESS 00046100	
00069A	5030	AAFC	01AFC		504	ST	R3,DISPI	UPDATE CONTROL DATA GP99161 00046200	
					505	ITRACE	ID=NEWDISPI,	NEW DISPLACEMENT +00046300	
							RDATA1=R3,	.. DISPLACEMENT +00046400	
							RDATA2=R4	.. ASSOCIATED STORAGE ADDRESS 00046500	
00069E	BE3F	B0E0	000E0		506+	STCM	R3,15,TRDATA1	00460000	
0006A2	BE4F	B0E8	000E8		507+	STCM	R4,15,TRDATA2	00610000	
0006A6	45E0	B564	00564		508+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
0006AA	D5C5E6C4C9E2D7C9				509+	DC	CL8'NEWDISPI'	TRACE ID 00670000	
0006B2	47F0	C1D6	001D6		510	B	GENLOOP	LOOP GP99155 00046600	
					511	*	-----	* 00046700	
					512	*	GENERATE CONSTANTS	* 00046800	
					513	*	-----	* 00046900	
0006B6					514	GEN0390	DS OH	00047000	
					515	ITRACE	ID=GENDATA,	IN A DATA AREA +00047100	
							DATA1=DATABEGN,	.. BEGINNING POINT +00047200	
							DATA2=DATAEND	.. ENDING POINT 00047300	
0006B6	41E0	701C	0001C		516+	LA	R14,DATABEGN	DATA ADDRESS 00360000	
0006BA	D207	B0E0	E000	000E0	00000	517+	MVC	TRDATA1,0(R14)	MOVE DATA 00370000
0006C0	41E0	7020	00020		518+	LA	R14,DATAEND	DATA ADDRESS 00510000	
0006C4	D207	B0E8	E000	000E8	00000	519+	MVC	TRDATA2,0(R14)	MOVE DATA 00530000
0006CA	45E0	B564	00564		520+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
0006CE	C7C5D5C4C1E3C140				521+	DC	CL8'GENDATA'	TRACE ID 00670000	
0006D6	5880	B0AC	000AC		522	L	R8,AOP	OPCODE TABLE ADDRESS 00047400	
0006DA	5880	8000	00000		523	L	R8,0(,R8)	DC'S DUMMY ENTRY ADDRESS 00047500	
0006DE	9514	702B	0002B		524	CLI	DATATYPE,\$DATAACN	ADCON? 00047600	
0006E2	4780	CD18	00D18		525	BE	GEN0460	YES 00047700	
0006E6	9515	702B	0002B		526	CLI	DATATYPE,\$DATAARL	ADCON TO BE RELATIVIZED? GP05212 00047800	
0006EA	4780	CCEA	00CEA		527	BE	GEN0458	YES GP05212 00047900	
0006EE	9516	702B	0002B		528	CLI	DATATYPE,\$DATAVCN	V-CON? 00048000	
0006F2	4780	CDC8	00DC8		529	BE	GEN0500	YES 00048100	
0006F6	9537	702B	0002B		530	CLI	DATATYPE,\$DATA CXD	CXD (PSEUDO AREA SIZE)? 00048200	
0006FA	4780	CE38	00E38		531	BE	GEN0530	YES 00048300	
0006FE	9538	702B	0002B		532	CLI	DATATYPE,\$DATAQ	Q (PSEUDO AREA DISPLACEMENT)? 00048400	
000702	4780	CEC2	00EC2		533	BE	GEN0540	YES 00048500	
000706	58F0	7020	00020		534	L	R15,DATAEND	ASSUME FULL DATA SIZE GP99162 00048600	
					535	*WHOLY	CLI DISPL,X'FF'	END OF LABELS REACHED? GP99170 00048700	
					536	*WASTED	BE GEN0400	YES GP99170 00048800	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
00070A	BF9F	AB08	01B08		537	ICM	R9,15,DISPL	NEXT LABEL'S DISPLACEMENT	GP10025	00048900	
00070E	4740	C71C	0071C		538	BM	GEN0400	YES	GP10025	00049000	
000712	159F				539	CLR	R9,R15	LABEL WITHIN DATA?	GP99161	00049100	
000714	47B0	C71C	0071C		540	BNL	GEN0400	NO		00049200	
000718	18F9				541	LR	R15,R9	USE LABEL OFFSET	GP99162	00049300	
00071A	06F0				542	BCTR	R15,0	MINUS 1	GP99162	00049400	
00071C	50F0	AB24	01B24		543	GEN0400	ST R15,WORKNBR	LIMIT TO 1 BYTE BEFORE LABEL	GP99161	00049500	
					544		ITRACE ID=XXXXXXXX,DATA1=WORKNBR,DATA2=DISPD			00049600	
000720	41E0	AB24	01B24		545+	LA	R14,WORKNBR	DATA ADDRESS		00360000	
000724	D207	B0E0	E000	000E0	00000	MVC	TRDATA1,0(R14)	MOVE DATA		00370000	
00072A	41E0	AB14	01B14		547+	LA	R14,DISPD	DATA ADDRESS		00510000	
00072E	D207	B0E8	E000	000E8	00000	MVC	TRDATA2,0(R14)	MOVE DATA		00530000	
000734	45E0	B564	00564		549+	BAL	R14,TRACE000	ENTER TRACE ROUTINE		00640000	
000738	E7E7E7E7E7E7E7E7				550+	DC	CL8'XXXXXXXX'	TRACE ID		00670000	
					551	*****				00049700	
					552	**				00049800	
					553	** EXPAND DATA:				00049900	
					554	**				00050000	
					555	** WHEN DATAASMT FIELD SET, AND DATAILEN>0 THEN WE KNOW WHAT TYPE				00050100	
					556	** OF DATA TO EXPAND. VALIDATE CHARACTER AS SUCH (SINCE WE NEED				00050200	
					557	** TO TRANSLATE BACK), AND LIMIT LENGTH TO ONE CARD.				00050300	
					558	**				00050400	
					559	** WHEN DATAASMT IS < C' ', WE NEED TO GUESS AND SPLIT LIKELY				00050500	
					560	** PIECES. ARBITRARILY, WE WILL NOT PROCESS DATA AS CHARACTER				00050600	
					561	** UNLESS THEIR LENGTH IS AT LEAST THREE BYTES.				00050700	
					562	**				00050800	
					563	*****				00050900	
000740	5890	AB24	01B24		564	L	R9,WORKNBR	END OF DATA DISPLACEMENT	GP99161	00051000	
000744	5B90	AB14	01B14		565	S	R9,DISPD	STARTING DISPLACEMENT	GP99161	00051100	
000748	4740	A882	01882		566	BM	ERR0030	OOPS?	GP99169	00051200	
00074C	4190	9001	00001		567	LA	R9,1(,R9)	LENGTH	GP99169	00051300	
000750	9502	702B	0002B		568	CLI	DATATYPE,\$DATADS	FILLER ?	GP10066	00051400	
000754	4780	CE4C	00E4C		569	BE	GENDSLEN	YES; FORCE DC XL'000'	GP10066	00051500	
000758	9540	702A	0002A		570	CLI	DATAASMT,C' '	ASSEMBLER DC TYPE SET?	GP99169	00051600	
00075C	47D0	C9EA	009EA		571	BNH	GENDCANY	NO; WE NEED TO GUESS	GP99169	00051700	
000760	1B00				572	SR	R0,R0		GP99169	00051800	
000762	BF03	7028	00028		573	ICM	R0,3,DATAILEN	ITEM LENGTH SET?	GP99169	00051900	
000766	4780	C9EA	009EA		574	BZ	GENDCANY	NO; TREAT AS UNDEFINED	GP99169	00052000	
00076A	1990				575	CR	R9,R0	LONGER THAN ITEM?	GP99169	00052100	
00076C	47D0	C772	00772		576	BNH	*+6	NO	GP99169	00052200	
000770	1890				577	LR	R9,R0	TRUNCATE TO ITEM LENGTH	GP99169	00052300	
000772	95C3	702A	0002A		578	CLI	DATAASMT,C'C'	CHARACTER DATA ?	GP99169	00052400	
000776	4770	C796	00796		579	BNE	GENDCNTC	NO	GP99169	00052500	
00077A	4990	AA42	01A42		580	CH	R9,=H'52'	MAX LENGTH-1 OF DC C'XXXXX'	GP99161	00052600	
00077E	47D0	C786	00786		581	BNH	*+8		GP99161	00052700	
000782	4190	0034	00034		582	LA	R9,52	TRUNCATE TO MAX ON ONE CARD	GP99161	00052800	
000786	18F9				583	LR	R15,R9		GP99181	00052900	
000788	06F0				584	BCTR	R15,0	MAKE EX LENGTH	GP99181	00053000	
00078A	44F0	CBF6	00BF6		585	EX	R15,EXTSTZER	ALL HEX ZERO (E.G., DS)	GP99181	00053100	
00078E	4780	C9EA	009EA		586	BZ	GENDCANY	YES; DON'T DO AS CHARACTER	GP99181	00053200	
000792	47F0	CC02	00C02		587	B	GENDCCHR	GO TO CHARACTER GENERATION	GP99169	00053300	
000796	95C1	702A	0002A		589	GENDCNTC	CLI DATAASMT,C'A'	NON-RELOCATABLE ADCON?	GP99170	00053500	
00079A	4780	C8F4	008F4		590	BE	GENDCI4	YES; GENERATE UP TO 4-BYTE INTEGER	GP99170	00053600	
00079E	95C6	702A	0002A		591	CLI	DATAASMT,C'F'	INTEGER?	GP99170	00053700	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0007A2	4780	C8F4	008F4		592	BE	GENDCI4	YES; GENERATE UP TO 4-BYTE INTEGER GP99170 00053800
0007A6	95C8	702A	0002A		593	CLI	DATAASMT,C'H'	HALF-WORD INTEGER? GP99170 00053900
0007AA	4780	C8DC	008DC		594	BE	GENDCI2	YES; GENERATE UP TO 2-BYTE INTEGER GP99170 00054000
0007AE	95C4	702A	0002A		595	CLI	DATAASMT,C'D'	DOUBLE-WORD - DO ONLY IF ZERO GP99181 00054100
0007B2	4780	C8BE	008BE		596	BE	GENDCD	YES; SEE IF ALL ZERO GP99181 00054200
0007B6	95C5	702A	0002A		597	CLI	DATAASMT,C'E'	FLOAT - DO ONLY IF ZERO GP99181 00054300
0007BA	4780	C8BE	008BE		598	BE	GENDCD	YES; SEE IF ALL ZERO GP99181 00054400
0007BE	95D7	702A	0002A		599	CLI	DATAASMT,C'P'	PACKED DECIMAL - VARIFY PRIOR GP99183 00054500
0007C2	4780	CB4C	00B4C		600	BE	GENDCP	TO PROCESSING, ELSE DO AS HEX GP99183 00054600
0007C6	95E2	702A	0002A		601	CLI	DATAASMT,C'S'	SYMBOLIC ADDRESS ? GP99170 00054700
0007CA	4770	C9C2	009C2		602	BNE	GENDCNTS	NO GP99170 00054800
0007CE	4990	AA44	01A44		604	GENDCS2	CH	R9,=H'2' SUPPORTED LENGTH? GP99170 00055000
0007D2	4770	CA50	00A50		605	BNE	GENDSHX	NO; DO AS HEX GP99170 00055100
0007D6	4090	AB2C	01B2C		606	STH	R9,OPLNGTH	SAVE INSTRUCTION LENGTH GP99170 00055200
0007DA	4590	CF9E	00F9E		607	BAL	R9,GEN0600	PREPARE BASIC DC CARD GP99170 00055300
0007DE	4890	AB2C	01B2C		608	LH	R9,OPLNGTH	RESTORE GP99170 00055400
0007E2	D201	AC53	AA46 01C53	01A46	609	MVC	SRCOPER(2),=C'S('	GP99170 00055500
0007E8	41F0	AC55	01C55		610	LA	R15,SRCOPER+2	SET INSERTION ADDRESS GP99170 00055600
0007EC	41E0	C886	00886		611	LA	R14,ALIGNDCS	GP99181 00055700
0007F0	4440	CBFC	00BFC		612	EX	R4,EXTMODD	ALIGNED? GP99181 00055800
0007F4	4780	C802	00802		613	BZ	GENDCS2A	YES GP99181 00055900
0007F8	41F0	AC57	01C57		614	LA	R15,SRCOPER+4	GP99181 00056000
0007FC	D202	AC54	AA8C 01C54	01A8C	615	MVC	SRCOPER+1(3),=C'L2('	(LENGTH ALREADY CHECKED) GP99181 00056100
000802	50F0	AAEC	01AEC		616	GENDCS2A	ST	R15,GENADDR SET INSERTION ADDRESS GP99170 00056200
000806	5530	AB20	01B20		617	CL	R3,DISPR	LABEL REFERENCE USED? GP99179 00056300
00080A	4770	C88C	0088C		618	BNE	GENDCS2N	NO GP99179 00056400
00080E	BF2F	600C	0000C		619	ICM	R2,15,REFOPER1	LABEL REFERENCE? GP99179 00056500
000812	4780	C88C	0088C		620	BZ	GENDCS2N	NO (HUH? - ERROR IN DA08?) GP99179 00056600
000816	5810	AAEC	01AEC		621	L	R1,GENADDR	CURRENT ADDRESS IN SRCOPER GP99179 00056700
00081A	D207	F000	200C 00000	0000C	622	MVC	O(L'LABLNAME,R15),LABLNAME-LABLDSC(T(R2)	GET NAME GP99179 00056800
000820	45E0	A982	01982		623	BAL	R14,REFLABEL	BUILD CROSS-REFERENCE BY NAME GP99184 00056900
000824	DD08	F000	BA68 00000	00A68	624	TRT	O(9,R15),BLKTRT	FIND BLANK AT END GP99179 00057000
00082A	5010	AAEC	01AEC		625	ST	R1,GENADDR	AND UPDATE ADDRESS GP99179 00057100
00082E	BF0F	6014	00014		626	ICM	R0,15,REFDISP1	DISPLACEMENT ZERO? GP99179 00057200
000832	4780	C84A	0084A		627	BZ	GENDCS2M	YES; NO OFFSET GP99179 00057300
000836	924E	1000	00000		628	MVI	O(R1),C'+'	INSERT PLUS GP99179 00057400
00083A	4110	1001	00001		629	LA	R1,1(,R1)	BUMP ONE GP99179 00057500
00083E	5010	AAEC	01AEC		630	ST	R1,GENADDR	AND UPDATE ADDRESS GP99179 00057600
000842	5000	AB24	01B24		631	ST	R0,WORKNBR	SET DISPLACEMENT GP99179 00057700
000846	45F0	A7B6	017B6		632	BAL	R15,GENNBROO	FORMAT DISPLACEMENT GP10055 00057800
00084A	45F0	A5E0	015E0		633	GENDCS2M	BAL	R15,GENPRN2 MAKE CLOSING PARENTHESIS GP99179 00057900
00084E	BF6F	6000	00000		634	ICM	R6,15,REFNEXT	GET NEXT REFERENCE BLOCK GP99179 00058000
000852	92FF	AB20	01B20		635	MVI	DISPR,X'FF'	IN CASE THERE ISN'T ONE GP99179 00058100
000856	4780	CF16	00F16		636	BZ	GEN0570	NO MORE GP99179 00058200
00085A	D203	AB20	601C 01B20	0001C	637	MVC	DISPR,REFDISPI	ELSE SET ITS OFFSET GP99179 00058300
					638	ITRACE	ID=NEXTREF,DATA1=DISPR	GP99179 00058400
000860	41E0	AB20	01B20		639+	LA	R14,DISPR	DATA ADDRESS 00360000
000864	D207	B0E0	E000 000E0	00000	640+	MVC	TRDATA1,0(R14)	MOVE DATA 00370000
00086A	45E0	B564	00564		641+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000
00086E	D5C5E7E3D9C5C640				642+	DC	CL8'NEXTREF'	TRACE ID 00670000
000876	47F0	CF16	00F16		643	B	GEN0570	GP99179 00058500
00087A	C1F403				644	ALIGNTAB	DC	C'A',C'4',AL1(3) ASM TYPE / ALIGNED LEN / ZERO BITS 00058600
00087D	C4F807				645	DC	C'D',C'8',AL1(7)	GP99181 00058700
000880	C5F403				646	DC	C'E',C'4',AL1(3)	GP99181 00058800

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000883	C6F403				647	ALIGNDC4	DC C'F',C'4',AL1(3)	GP99181 00058900
000886	C8F201				648	ALIGNDCS	DC C'H',C'2',AL1(1)	GP99181 00059000
000889	E2F201				649		DC C'S',C'2',AL1(1)	GP99181 00059100
				00006	650	ALIGNCNT	EQU (*-ALIGNTAB)/3 NUMBER OF ENTRIES	GP99181 00059200
00088C	D201	AB26	4000	01B26	00000	651	GENDCS2N MVC WORKNBR+2(2),0(R4) COPY S ADDRESS	GP99179 00059300
000892	D403	AB24	A9FC	01B24	019FC	652	NC WORKNBR,=X'00000FFF' ISOLATE DISPLACEMENT	GP99170 00059400
000898	45F0	A7B6		017B6		653	BAL R15,GENNBROO MAKE A NUMBER	GP99170 00059500
00089C	91F0	4000		00000		654	TM 0(R4),X'F0' ANY BASE?	GP99170 00059600
0008A0	4780	C8B6		008B6		655	BZ GENDCS2P NO; JUST CLOSE	GP99170 00059700
0008A4	45F0	A5CE		015CE		656	BAL R15,GENPRN1 MAKE LEFT PARENTHESIS	GP99170 00059800
0008A8	F300	AB2B	4000	01B2B	00000	657	UNPK WORKREG,0(1,R4) SET REGISTER NUMBER	GP99170 00059900
0008AE	45F0	A5F2		015F2		658	BAL R15,GENREG00 FORMAT REGISTER	GP99170 00060000
0008B2	45F0	A5E0		015E0		659	BAL R15,GENPRN2 CLOSE PARENTHESIS	GP99170 00060100
0008B6	45F0	A5E0		015E0		660	GENDCS2P BAL R15,GENPRN2 CLOSE PARENTHESIS	GP99170 00060200
0008BA	47F0	CF16		00F16		661	B GEN0570 DISPLAY THIS	GP99170 00060300
0008BE	4990	AA48		01A48		663	GENDCD CH R9,=H'8' NOT TOO LONG?	GP99181 00060500
0008C2	4720	CA50		00A50		664	BH GENDSHEX TOO LONG, SO LONG	GP99181 00060600
0008C6	18F9					665	LR R15,R9	GP99181 00060700
0008C8	06F0					666	BCTR R15,0	GP99181 00060800
0008CA	44F0	CBF6		00BF6		667	EX R15,EXTSTZER IS IT HEX ZERO ?	GP99181 00060900
0008CE	4770	CA50		00A50		668	BNZ GENDSHEX NO; NOT SUPPORTED (YET?)	GP99181 00061000
0008D2	D703	AB24	AB24	01B24	01B24	669	XC WORKNBR,WORKNBR SET VALUE TO ZERO	GP99181 00061100
0008D8	47F0	C910		00910		670	B GENDCICM AND EXPAND D'0' OR E'0'	GP99181 00061200
0008DC	4990	AA44		01A44		672	GENDCI2 CH R9,=H'2' STANDARD HALF-WORD?	GP99170 00061400
0008E0	4740	C8FC		008FC		673	BL GENDCIMV NO	GP99170 00061500
0008E4	4720	CA50		00A50		674	BH GENDSHEX HUH?	GP99170 00061600
0008E8	4800	4000		00000		675	LH R0,0(,R4) GET DATA WITH SIGN EXTENSION	GP99170 00061700
0008EC	5000	AB24		01B24		676	ST R0,WORKNBR SET IT	GP99170 00061800
0008F0	47F0	C910		00910		677	B GENDCICM GO TO COMMON	GP99170 00061900
0008F4	4990	AA4A		01A4A		679	GENDCI4 CH R9,=H'4' STANDARD FULL-WORD?	GP99170 00062100
0008F8	4720	CA50		00A50		680	BH GENDSHEX HUH?	GP99170 00062200
0008FC	D703	AB24	AB24	01B24	01B24	681	GENDCIMV XC WORKNBR,WORKNBR MAKE LEADING ZEROES	GP99170 00062300
000902	41E0	AB28		01B28		682	LA R14,WORKNBR+L'WORKNBR	GP99170 00062400
000906	1BE9					683	SR R14,R9 START MOVE ADDRESS	GP99170 00062500
000908	18F9					684	LR R15,R9	GP99170 00062600
00090A	06F0					685	BCTR R15,0 MAKE HEX	GP99170 00062700
00090C	44F0	CBCC		00BCC		686	EX R15,EXMVCINT	GP99170 00062800
000910	4090	AB2C		01B2C		687	GENDCICM STH R9,OPLNGTH SAVE INSTRUCTION LENGTH	GP99170 00062900
000914	4590	CF9E		00F9E		688	BAL R9,GEN0600 PREPARE BASIC DC CARD	GP99170 00063000
000918	4890	AB2C		01B2C		689	LH R9,OPLNGTH RESTORE	GP99170 00063100
00091C	D203	AC53	AA00	01C53	01A00	690	MVC SRCOPER(4),=C'ALO('	GP99170 00063200
000922	95C1	702A		0002A		691	CLI DATAASMT,C'A' WAS IT ABSOLUTE ADCON ?	GP99170 00063300
000926	4780	C934		00934		692	BE GENDCICN	GP99170 00063400
00092A	D200	AC53	702A	01C53	0002A	693	MVC SRCOPER(1),DATAASMT MOVE TYPE	GP99170 00063500
000930	927D	AC56		01C56		694	MVI SRCOPER+3,C''' MAKE OTHER FRAME	GP99170 00063600
000934	D100	AC55	7029	01C55	00029	695	GENDCICN MVN SRCOPER+2(1),DATAILEN+L'DATAILEN-1 EXPLICIT LEN	GP99170 00063700
00093A	4100	0006		00006		696	LA R0,ALIGNCNT NUMBER OF TYPE ENTRIES	GP99181 00063800
00093E	41E0	C87A		0087A		697	LA R14,ALIGNTAB FIRST ONE	GP99181 00063900
000942	D500	AC53	E000	01C53	00000	698	GENDCITL CLC SRCOPER(1),0(R14) TYPE MATCH?	GP99181 00064000
000948	4770	C96C		0096C		699	BNE GENDCITU NO	GP99181 00064100
00094C	D500	AC55	E001	01C55	00001	700	CLC SRCOPER+2(1),1(R14) LENGTH MISMATCH?	GP99181 00064200
000952	4770	C974		00974		701	BNE GENDCITN YES; RETAIN LENGTH	GP99181 00064300

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
000956	4440	CBFC	00BFC		702	EX	R4,EXTMODD	SEE WHETHER ALIGNED	GP99181	00064400	
00095A	4770	C974	00974		703	BNZ	GENDCITN	NO; EXPLICIT LENGTH	GP99181	00064500	
00095E	D202	AC54	01C54	01C56	704	MVC	SRCOPER+1(3),SRCOPER+3	COLLAPSE	GP99181	00064600	
000964	41E0	AC55	01C55		705	LA	R14,SRCOPER+2	SET NEXT INSERTION	GP99181	00064700	
000968	47F0	C978	00978		706	B	GENDCITO	PROCEED	GP99181	00064800	
00096C	41E0	E003	00003		707	GENDCITU	LA R14,3(,R14)	NEXT TABLE ENTRY	GP99181	00064900	
000970	4600	C942	00942		708	BCT	R0,GENDCITL	TRY IT; ELSE SHOW LENGTH	GP99181	00065000	
000974	41E0	AC57	01C57		709	GENDCITN	LA R14,SRCOPER+4		GP99170	00065100	
000978	9180	AB24	01B24		710	GENDCITO	TM WORKNBR,X'80'	NEGATIVE?	GP99170	00065200	
00097C	4780	C99E	0099E		711	BZ	GENDCICP	NO	GP99170	00065300	
000980	95C1	702A	0002A		712	CLI	DATAASMT,C'A'	ADCON?	GP99170	00065400	
000984	4770	C990	00990		713	BNE	GENDCICO	NO	GP99170	00065500	
000988	92F0	E000	00000		714	MVI	0(R14),C'0'	FOR OLDER ASSEMBLERS	GP99170	00065600	
00098C	41E0	E001	00001		715	LA	R14,1(,R14)		GP99170	00065700	
000990	9260	E000	00000		716	GENDCICO	MVI 0(R14),C'-'	NEGATE	GP99170	00065800	
000994	41E0	E001	00001		717	LA	R14,1(,R14)		GP99170	00065900	
000998	D703	AB24	01B24	01A04	718	XC	WORKNBR,=X'FFFFFFFF'	FLIP	GP99170	00066000	
00099E	50E0	AAEC	01AEC		719	GENDCICP	ST R14,GENADDR	SET INSERTION POINT	GP99170	00066100	
0009A2	45F0	A7B6	017B6		720	BAL	R15,GENNBROO	MAKE AN INTEGER	GP99170	00066200	
0009A6	95C1	702A	0002A		721	CLI	DATAASMT,C'A'	ADCON?	GP99170	00066300	
0009AA	4770	C9B6	009B6		722	BNE	GENDCICQ	NO	GP99170	00066400	
0009AE	45F0	A5E0	015E0		723	BAL	R15,GENPRN2	AND CLOSING PARENTHESIS	GP99170	00066500	
0009B2	47F0	CF16	00F16		724	B	GEN0570	AND BUMP	GP99170	00066600	
0009B6	58E0	AAEC	01AEC		725	GENDCICQ	L R14,GENADDR		GP99170	00066700	
0009BA	927D	E000	00000		726	MVI	0(R14),C''''	MAKE TRAILING QUOTE	GP99170	00066800	
0009BE	47F0	CF16	00F16		727	B	GEN0570	AND BUMP	GP99170	00066900	
0009C2	4990	AA4C	01A4C		729	GENDCNTS	CH R9,=H'256'	NOT TOO LONG ?	GP09185	00067100	
0009C6	47D0	C9CE	009CE		730	BNH	*+8	OK	GP09185	00067200	
0009CA	4890	AA4C	01A4C		731	LH	R9,=H'256'	USE MAX	GP09185	00067300	
0009CE	18F9				732	LR	R15,R9	COPY LENGTH	GP09185	00067400	
0009D0	06F0				733	BCTR	R15,0	FOR EXECUTE	GP09185	00067500	
0009D2	44F0	CBF6	00BF6		734	EX	R15,EXTSTZER	ALL ZERO?	GP09185	00067600	
0009D6	4780	CA94	00A94		735	BZ	GENDCHX0	YES; DON'T TRUNCATE	GP09185	00067700	
0009DA	4990	AA4E	01A4E		736	CH	R9,=H'26'	MAX LENGTH-1 OF DC X'XXXXX'	GP09185	00067800	
0009DE	47D0	C9E6	009E6		737	BNH	*+8		GP99161	00067900	
0009E2	4190	001A	0001A		738	LA	R9,26	TRUNCATE TO MAX ON ONE CARD	GP99161	00068000	
0009E6	47F0	CA74	00A74		739	B	GENDCHEX	GO TO HEXADECIMAL GENERATION	GP99169	00068100	
					741	*	AT THIS POINT LOOK FOR:		GP99169	00068300	
					742	*	0-N PRINTABLES - IF N>2 DO AS N CHARACTER CHUNK		GP99169	00068400	
					743	*	IF 0-2 PRINTABLES, FIND FIRST UNPRINTABLE		GP99169	00068500	
					744	*	FIND NEXT PRINTABLE; IF FOUND, MUST BE AT LEAST 3, ELSE DO HEX			00068600	
					745	*	NOTE: R4 POINTS TO DATA, AND R3-R13 ARE IN USE		GP99169	00068700	
0009EA	4990	AA4C	01A4C		746	GENDCANY	CH R9,=H'256'	MAX LENGTH OF TRT	GP99170	00068800	
0009EE	47D0	C9F6	009F6		747	BNH	*+8		GP99170	00068900	
0009F2	4190	0100	00100		748	LA	R9,256	TRUNCATE TO MAX	GP99170	00069000	
0009F6	4119	4001	00001		749	LA	R1,1(R9,R4)	SET STOPPER	GP99170	00069100	
0009FA	18F9				750	LR	R15,R9	MAINTAIN RESIDUAL LENGTH	GP99170	00069200	
0009FC	06F0				751	BCTR	R15,0	SET RESIDUAL LENGTH	GP99170	00069300	
0009FE	44F0	AABC	01ABC		752	EX	R15,PRTTTRT	SCAN CONSECUTIVE PRINTABLES	GP99170	00069400	
000A02	4780	CC02	00C02		753	BZ	GENDCCHR	ALL	GP09185	00069500	
000A06	1B14				754	SR	R1,R4	NUMBER OF PRINTABLES	GP99170	00069600	
000A08	4910	AA50	01A50		755	CH	R1,=H'3'	AT LEAST THREE?	GP99170	00069700	
000A0C	47B0	CC00	00C00		756	BNL	GENDSCH1	YES; DO AS PRINTABLES W/ TRUNC	GP99170	00069800	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48	07/11/18
000A10	1BF1				757	SR	R15,R1 ARE ALL OF THEM PRINTABLE?	GP99170	00069900
000A12	4740	CC00	00C00		758	BM	GENDSCH1 YES; DO CHARACTER MODE	GP99170	00070000
000A16	41E1	4000	00000		759	LA	R14,0(R1,R4) SET START OF NON-CHAR TEST	GP99170	00070100
					761	*	RECURSIVE SEARCH FOR NON-PRINT/PRINTABLES. STOP WHEN >2 PRINTABLES		00070300
					762	*	R14 - FIRST NON-CHAR CHUNK (UP TO 2 LEADING CHARS)	GP99169	00070400
					763	*	R15 - RESIDUAL LENGTH - 1	GP99169	00070500
					764	*	R1 - FIRST CHAR CHUNK, IF ANY	GP99169	00070600
000A1A	4119	4000	00000		765	GENDCALP LA	R1,0(R9,R4) SET SCAN STOPPER	GP99170	00070700
000A1E	44F0	CBD2	00BD2		766	EX	R15,EXNPR14 HOW MANY NON-PRINTABLES?	GP99170	00070800
000A22	4780	CA50	00A50		767	BZ	GENDSHEX ALL	GP99170	00070900
000A26	1AFE				768	AR	R15,R14 ADD PRIOR START	GP99170	00071000
000A28	1BF1				769	SR	R15,R1 NEW RESIDUAL LENGTH	GP99170	00071100
000A2A	4740	CA50	00A50		770	BM	GENDSHEX ALL HEX	GP99170	00071200
000A2E	18E1				771	LR	R14,R1 SET NEXT SCAN START	GP99170	00071300
000A30	4119	4000	00000		772	LA	R1,0(R9,R4) SET SCAN STOPPER	GP99170	00071400
000A34	44F0	CBD8	00BD8		773	EX	R15,EXPRT14 SCAN CONSECUTIVE PRINTABLES	GP99170	00071500
000A38	1801				774	LR	R0,R1 COPY STOP	GP99170	00071600
000A3A	1B0E				775	SR	R0,R14 PRINTABLE LENGTH	GP99170	00071700
000A3C	4900	AA50	01A50		776	CH	R0,=H'3' AT LEAST THREE ?	GP99170	00071800
000A40	47B0	CA4C	00A4C		777	BNL	GENDSHEE YES; STOP PRIOR TO R14	GP99170	00071900
000A44	18E1				778	LR	R14,R1 NEW SCAN START	GP99170	00072000
000A46	1BF0				779	SR	R15,R0 NEW RESIDUAL LENGTH	GP99170	00072100
000A48	47B0	CA1A	00A1A		780	BNM	GENDCALP PRT AS HEX; LOOK FOR MORE	GP99170	00072200
000A4C	189E				782	GENDSHEE LR	R9,R14	GP99170	00072400
000A4E	1B94				783	SR	R9,R4 LENGTH TO PROCESS IN HEX	GP99170	00072500
000A50	4990	AA4C	01A4C		784	GENDSHEX CH	R9,=H'256' NOT TOO LONG ?	GP09185	00072600
000A54	47D0	CA5C	00A5C		785	BNH	*+8 OK	GP09185	00072700
000A58	4890	AA4C	01A4C		786	LH	R9,=H'256' USE MAX	GP09185	00072800
000A5C	18F9				787	LR	R15,R9 COPY LENGTH	GP09185	00072900
000A5E	06F0				788	BCTR	R15,0 FOR EXECUTE	GP09185	00073000
000A60	44F0	CBF6	00BF6		789	EX	R15,EXTSTZER ALL ZERO?	GP09185	00073100
000A64	4780	CA94	00A94		790	BZ	GENDCHX0 YES; USE SHORT FORM	GP09185	00073200
000A68	4990	AA48	01A48		791	CH	R9,=H'8' TOO LONG ?	GP99169	00073300
000A6C	47D0	CA74	00A74		792	BNH	GENDCHEX	GP99169	00073400
000A70	4190	0008	00008		793	LA	R9,8 SET TO MAX WANTED	GP99169	00073500
000A74	4990	AA52	01A52		794	GENDCHEX CH	R9,=H'9' AT LEAST TEN ?	GP09185	00073600
000A78	47D0	CAE6	00AE6		795	BNH	GENDCHEY NO; USE OLD CODE	GP09185	00073700
000A7C	4990	AA4C	01A4C		796	CH	R9,=H'256' NOT TOO LONG ?	GP09185	00073800
000A80	47D0	CA88	00A88		797	BNH	*+8 OK	GP09185	00073900
000A84	4890	AA4C	01A4C		798	LH	R9,=H'256' USE MAX	GP09185	00074000
000A88	18F9				799	LR	R15,R9 COPY LENGTH	GP09185	00074100
000A8A	06F0				800	BCTR	R15,0 FOR EXECUTE	GP09185	00074200
000A8C	44F0	CBF6	00BF6		801	EX	R15,EXTSTZER ALL ZERO?	GP09185	00074300
000A90	4770	CAE6	00AE6		802	BNZ	GENDCHEY NO; DON'T TRUNCATE	GP09185	00074400
000A94	4990	AA48	01A48		803	GENDCHX0 CH	R9,=H'8' NOT TOO SHORT?	GP09185	00074500
000A98	47D0	CAE6	00AE6		804	BNH	GENDCHEY DO THE OLD WAY	GP09185	00074600
					805	ITRACE	ID=DCXL00,RDATA1=R9 TRACK	GP09185	00074700
000A9C	BE9F	B0E0	000E0		806+	STCM	R9,15,TRDATA1		00460000
000AA0	45E0	B564	00564		807+	BAL	R14,TRACE000 ENTER TRACE ROUTINE		00640000
000AA4	C4C3E7D3F0F04040				808+	DC	CL8'DCXL00' TRACE ID		00670000
000AAC	4090	AB2C	01B2C		809	STH	R9,0PLENGTH SET LOGICAL LENGTH	GP09185	00074800
000AB0	4590	CF9E	00F9E		810	BAL	R9,GEN0600 GENERATE OBJECT AND 'DC'	GP09185	00074900
000AB4	D207	AC53	A9C8	01C53	019C8	811	MVC SRCOPER(8),=C'XLnnn' '0' ' ' MAKE OPERAND	GP09185	00075000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000ABA	4890	AB2C		01B2C	812		LH R9,OPLNGTH GET LOGICAL LENGTH BACK	GP09185 00075100
000ABE	4E90	B000		00000	813		CVD R9,COMMDWRD MAKE PACKED	GP09185 00075200
000AC2	D203	AB30	AA08	01B30	01A08	814	MVC DISPWORK(4),=X'F0202120' EDIT MASK	GP09185 00075300
000AC8	DE03	AB30	B006	01B30	00006	815	ED DISPWORK(4),COMMDWRD+6 MAKE PRINTABLE	GP09185 00075400
000ACE	D202	AC55	AB31	01C55	01B31	816	MVC SRCOPER+2(3),DISPWORK+1 COMPLETE LENGTH	GP09185 00075500
000AD4	95F0	AC55		01C55		817	CLI SRCOPER+2,C'0' TWO DIGIT LENGTH ?	GP09185 00075600
000AD8	4770	CF16		00F16		818	BNE GEN0570 NO; RETAIN	GP09185 00075700
000ADC	D205	AC55	AC56	01C55	01C56	819	MVC SRCOPER+2(06),SRCOPER+3 SWALLOW LEADING ZERO	GP10015 00075800
000AE2	47F0	CF16		00F16	820		B GEN0570	GP09185 00075900
					821	GENDCHEY	ITRACE ID=DCLN2, LENGTH OF HEX DATA	+00076000
							RDATA1=R9	00076100
000AE6	BE9F	B0E0		000E0	822+	GENDCHEY	STCM R9,15,TRDATA1	00460000
000AEA	45E0	B564		00564	823+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000AEE	C4C3D3C5D5F24040				824+		DC CL8'DCLN2' TRACE ID	00670000
000AF6	4090	AB2C		01B2C	825		STH R9,OPLNGTH SET LENGTH IN DC ENTRY	00076200
000AFA	4590	CF9E		00F9E	826		BAL R9,GEN0600 GENERATE OBJECT AND MNEMONIC	00076300
000AFE	D201	AC53	ABB6	01C53	01BB6	827	MVC SRCOPER(2),HEXDC SET OPERAND TO X'	00076400
000B04	4110	AC55		01C55	828		LA R1,SRCOPER+2 STARTING DATA POINT	00076500
000B08	48F0	AB2C		01B2C	829		LH R15,OPLNGTH DATA LENGTH	00076600
000B0C	06F0				830		BCTR R15,0 ADJUST FOR EXECUTE	GP99169 00076700
000B0E	44F0	CBE4		00BE4	831		EX R15,EXMVCLNG MOVE TEXT TO LONG WORK AREA	GP99169 00076800
000B12	41F0	F001		00001	832		LA R15,1(,R15)	GP99169 00076900
000B16	41E0	AB30		01B30	833		LA R14,DISPLONG POINT TO INPUT	GP99169 00077000
000B1A	4120	0007		00007	834	GEN0430	LA R2,7 MAX CHUNK SIZE	GP99169 00077100
000B1E	19F2				835		CR R15,R2 MORE THAN ONE CHUNK?	GP99169 00077200
000B20	47B0	CB26		00B26	836		BNL GEN0432 NO	GP99169 00077300
000B24	182F				837		LR R2,R15 GET LENGTH	GP99169 00077400
000B26	4C20	AA54		01A54	838	GEN0432	MH R2,=H'33' *2 IN HIGH NYBBLE AND *1 IN LOW	GP99169 00077500
000B2A	4420	CBEA		00BEA	839		EX R2,EXUNPLNG UNPACK TO OUTPUT LINE	GP99169 00077600
000B2E	8820	0004		00004	840		SRL R2,4 MAKE TR LENGTH	GP99169 00077700
000B32	4420	CBF0		00BF0	841		EX R2,EXTRLNG MAKE READABLE	GP99169 00077800
000B36	1A12				842		AR R1,R2 ADVANCE OUTPUT	GP99169 00077900
000B38	8820	0001		00001	843		SRL R2,1	GP99169 00078000
000B3C	1AE2				844		AR R14,R2 ADVANCE INPUT	GP99169 00078100
000B3E	1BF2				845		SR R15,R2 NEED ANOTHER?	GP99169 00078200
000B40	4720	CB1A		00B1A	846		BP GEN0430 DO ANOTHER	GP99169 00078300
000B44	927D	1000		00000	847		MVI 0(R1),C'''' INSERT ENDING APOSTROPHE	GP99169 00078400
000B48	47F0	CF16		00F16	848		B GEN0570 ADVANCE; PRINT/PUNCH	00078500
					850	*****		00078700
					851	**		** 00078800
					852	** FOR PACKED DECIMAL, PERFORM VALIDITY CHECK. MAKE SURE LENGTH		** 00078900
					853	** MATCHES, OTHERWISE DO AS HEX		** 00079000
					854	**		** 00079100
					855	*****		00079200
000B4C	4990	AA38		01A38	857	GENDCP	CH R9,=H'16' IS USER'S LENGTH VALID?	GP99183 00079400
000B50	4720	CA50		00A50	858		BH GENDSHEX NO; FORMAT HEX	GP99183 00079500
000B54	18F9				859		LR R15,R9	GP99183 00079600
000B56	06F0				860		BCTR R15,0 MAKE EXECUTE LENGTH	GP99183 00079700
000B58	44F0	CBDE		00BDE	861		EX R15,EXTRTPAK SEE WHETHER PACKED	GP99183 00079800
000B5C	4780	CA50		00A50	862		BZ GENDSHEX ALL DIGITS - INVALID	GP99183 00079900
000B60	1B14				863		SR R1,R4 GET LENGTH	GP99183 00080000
000B62	191F				864		CR R1,R15 MATCHES EXPECTED LENGTH?	GP99183 00080100
000B64	4770	CA50		00A50	865		BNE GENDSHEX	GP99183 00080200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000B68	BD21	AEB9	01EB9		866	CLM	R2,1,PACKTBL+X'OD' VALID DIGIT/SIGN TERMINATION?	GP99183 00080300
000B6C	4720	CA50	00A50		867	BH	GENDSHEX TOO BAD	GP99183 00080400
000B70	4090	AB2C	01B2C		868	STH	R9,0PLENGTH SAVE LENGTH OVER CALL	GP99183 00080500
000B74	4590	CF9E	00F9E		869	BAL	R9,GEN0600 PREPARE BASIC DC CARD	GP99183 00080600
000B78	48F0	AB2C	01B2C		870	LH	R15,0PLENGTH	GP99183 00080700
000B7C	06F0				871	BCTR	R15,0 REGAIN EXECUTE LENGTH	GP99183 00080800
000B7E	D202	AC53 AA8F	01C53 01A8F		872	MVC	SRCOPER(3),=C'P'-'	GP99183 00080900
000B84	18E4				873	LR	R14,R4 GET FROM ADDRESS	GP99183 00081000
000B86	4110	AC56	01C56		874	LA	R1,SRCOPER+3 POINT TO NEGATIVE INSERTION	GP99183 00081100
000B8A	BD21	AEB9	01EB9		875	CLM	R2,1,PACKTBL+X'OD' PLUS OR MINUS SIGN?	GP99183 00081200
000B8E	4780	CB94	00B94		876	BE	GENDCPO MINUS; RETAIN	GP99183 00081300
000B92	0610				877	BCTR	R1,0 NO MINUS SIGN	GP99183 00081400
000B94	49F0	AA56	01A56		878	CH	R15,=H'6' TWO CHUNKS?	GP99183 00081500
000B98	47D0	CBB2	00BB2		879	BNH	GENDCP1 NO; JUST ONE	GP99183 00081600
000B9C	F3C6	1000 E000	00000 00000		880	UNPK	0(13,R1),0(7,R14) UNPACK FIRST DOUBLE WORD	GP99183 00081700
000BA2	41E0	E006	00006		881	LA	R14,6(,R14) BUMP FROM	GP99183 00081800
000BA6	4110	100C	0000C		882	LA	R1,12(,R1) BUMP TOO	GP99183 00081900
000BAA	4BF0	AA56	01A56		883	SH	R15,=H'6' ADJUST EX LENGTH	GP99183 00082000
000BAE	47F0	CB94	00B94		884	B	GENDCPO	GP99183 00082100
000BB2	4CF0	AA54	01A54		885	MH	R15,=H'33' MAKE EXECUTE MASK	GP99183 00082200
000BB6	44F0	CBEA	00BEA		886	EX	R15,EXUNPLNG UNPACK	GP99183 00082300
000BBA	DD27	AC56 BA68	01C56 00A68		887	TRT	SRCOPER+3(40),BLKTRT GET NEXT BLANK	GP99183 00082400
000BC0	0610				888	BCTR	R1,0 SPACE TO LAST DIGIT	GP99183 00082500
000BC2	D601	1000 AA58	00000 01A58		889	OC	0(2,R1),=C'0'' MAKE CLOSER	GP99183 00082600
000BC8	47F0	CF16	00F16		890	B	GEN0570 PRINT THIS LINE	GP99183 00082700
000BCC	D200	E000 4000	00000 00000		891	EXMVCINT MVC	0(0,R14),0(R4) MOVE INTEGER DATA	GP99170 00082800
000BD2	DD00	E000 B3C7	00000 003C7		892	EXNPR14 TRT	0(0,R14),COMMNPRT SCAN NON-PRINTABLES	GP99170 00082900
000BD8	DD00	E000 B2C7	00000 002C7		893	EXPRT14 TRT	0(0,R14),COMMPRT SCAN PRINTABLES	GP99170 00083000
000BDE	DD00	4000 AEAC	00000 01EAC		894	EXTRTPAK TRT	0(0,R4),PACKTBL VERIFY PACKED FORMAT	GP99183 00083100
000BE4	D200	AB30 4000	01B30 00000		895	EXMVCLNG MVC	DISPLONG(0),0(R4) COPY USER'S TEXT	GP99169 00083200
000BEA	F300	1000 E000	00000 00000		896	EXUNPLNG UNPK	0(0,R1),0(0,R14) UNPACK TO OUTPUT FROM LONG	GP99169 00083300
000BF0	DC00	1000 B185	00000 00185		897	EXTRLNG TR	0(0,R1),COMMHXTR MAKE READABLE	GP99169 00083400
000BF6	D600	4000 4000	00000 00000		898	EXTSTZER OC	0(0,R4),0(R4) TEST STORAGE FOR HEX ZEROS	GP99181 00083500
000BFC	9100	E002	00002		899	EXTMODD TM	2(R14),*-* TEST FOR NON-ZERO BITS IN ADDRESS	GP99181 00083600
000C00	1891				901	GENDSCH1 LR	R9,R1 COPY LENGTH	GP99169 00083800
000C02	4990	AA5A	01A5A		902	GENDCCHR CH	R9,=H'133' SET LOGICAL MAX ON ONE PRINT LINE	GP09185 00083900
000C06	47D0	CC0E	00C0E		903	BNH	GENDCCHS WILL PASS	GP09185 00084000
000C0A	4190	0085	00085		904	LA	R9,133 ARBITRARY LOGICAL MAX	GP09185 00084100
000C0E	4990	AA52	01A52		905	GENDCCHS CH	R9,=H'9' AT LEAST TEN ?	GP09185 00084200
000C12	47D0	CC98	00C98		906	BNH	GENDCCHY NO; USE OLD CODE	GP09185 00084300
000C16	18F9				907	LR	R15,R9 DITTO	GP09185 00084400
000C18	41E9	4000	00000		908	LA	R14,0(R9,R4) LAST DATA BYTE + 1	GP09185 00084500
000C1C	06E0				909	GENDCCLP BCTR	R14,0 BACK UP	GP09185 00084600
000C1E	9540	E000	00000		910	CLI	0(R14),C' ' TRAILING BLANK?	GP09185 00084700
000C22	4770	CC2E	00C2E		911	BNE	GENDCCLB NO	GP09185 00084800
000C26	46F0	CC1C	00C1C		912	BCT	R15,GENDCCLP TRY AGAIN	GP09185 00084900
000C2A	41F0	0001	00001		913	LA	R15,1 AT LEAST ONE	GP09185 00085000
000C2E	49F0	AA5C	01A5C		914	GENDCCLB CH	R15,=H'49' SHORT ENOUGH FOR CLNNN'TEXT' ?	GP09185 00085100
000C32	4720	CC98	00C98		915	BH	GENDCCHY NO; USE LONG FORM	GP09185 00085200
000C36	19F9				916	CR	R15,R9 ANY TRAILING BLANKS DETECTED ?	GP09185 00085300
000C38	4780	CC98	00C98		917	BE	GENDCCHY NO; USE LONG FORM	GP09185 00085400
					918	ITRACE	ID=CHARDL,RDATA1=R9 TRACK	GP09185 00085500
000C3C	BE9F	B0E0	000E0		919+	STCM	R9,15,TRDATA1	00460000
000C40	45E0	B564	00564		920+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000C44	C3C8C1D9C4D34040				921+	DC	CL8'CHARDL' TRACE ID	00670000
000C4C	4090 AB2C		01B2C		922	STH	R9,OPLNGTH SET LOGICAL LENGTH	GP09185 00085600
000C50	4590 CF9E		00F9E		923	BAL	R9,GEN0600 GENERATE OBJECT AND 'DC'	GP09185 00085700
000C54	D205 AC53 AA5E	01C53	01A5E		924	MVC	SRCOPER(6),=C'CLNNN'' SET OPERAND TO CLNNN	GP09185 00085800
000C5A	44F0 CC92		00C92		925	EX	R15,CHDCLMVC MOVE CHARACTER DATA	GP09185 00085900
000C5E	411F AC59		01C59		926	LA	R1,SRCOPER+6(R15) ENDING POINT	GP09185 00086000
000C62	927D 1000		00000		927	MVI	0(R1),C'''' INSERT ENDING APOSTROPHE	GP09185 00086100
000C66	4890 AB2C		01B2C		928	LH	R9,OPLNGTH GET LOGICAL LENGTH BACK	GP09185 00086200
000C6A	4E90 B000		00000		929	CVD	R9,COMMDWRD MAKE PACKED	GP09185 00086300
000C6E	D203 AB30 AA08	01B30	01A08		930	MVC	DISPWORK(4),=X'F0202120' EDIT MASK	GP09185 00086400
000C74	DE03 AB30 B006	01B30	00006		931	ED	DISPWORK(4),COMMDWRD+6 MAKE PRINTABLE	GP09185 00086500
000C7A	D202 AC55 AB31	01C55	01B31		932	MVC	SRCOPER+2(3),DISPWORK+1 COMPLETE LENGTH	GP09185 00086600
000C80	95F0 AC55		01C55		933	CLI	SRCOPER+2,C'0' TWO DIGIT LENGTH ?	GP09185 00086700
000C84	4770 CF16		00F16		934	BNE	GEN0570 NO; RETAIN	GP09185 00086800
000C88	D235 AC55 AC56	01C55	01C56		935	MVC	SRCOPER+2(54),SRCOPER+3 SWALLOW LEADING ZERO	GP09185 00086900
000C8E	47F0 CF16		00F16		936	B	GEN0570	GP09185 00087000
000C92	D200 AC59 4000	01C59	00000		937	CHDCLMVC MVC	SRCOPER+6(0),0(R4) COPY CHARACTER DATA	GP09185 00087100
000C98	4990 AA42		01A42		939	GENDCCHY CH	R9,=H'52' SET PHYSICAL MAX ON ONE CARD	GP09185 00087300
000C9C	47D0 CCA4		00CA4		940	BNH	GENDCCHZ WILL PASS	GP09185 00087400
000CA0	4190 0030		00030		941	LA	R9,48 ELSE TRUNCATE (AND MAKE NEXT CHUNK CHAR)	00087500
					942	GENDCCHZ ITRACE	ID=CHARDC,RDATA1=R9	GP99169 00087600
000CA4	BE9F B0E0		000E0		943+	GENDCCHZ STCM	R9,15,TRDATA1	00460000
000CA8	45E0 B564		00564		944+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000CAC	C3C8C1D9C4C34040				945+	DC	CL8'CHARDC' TRACE ID	00670000
					946	*SHOULD LR	R15,R9 COPY LENGTH	GP99169 00087700
					947	*NOT BCTR	R15,0 MINUS 1	GP99169 00087800
					948	*NEED EX	R15,PRTTTRT SCAN FOR ALL PRINTABLE	GP99169 00087900
					949	*TO BZ	GEN0450 ALL PRINTABLE	GP99169 00088000
					950	*DO LR	R9,R1 COPY STOPPING POINT	GP99169 00088100
					951	*THIS SR	R9,R4 NUMBER OF BYTES SCANNED	GP99169 00088200
000CB4	18F9				952	LR	R15,R9 COPY LENGTH	00088300
000CB6	06F0				953	BCTR	R15,0 MINUS 1	00088400
000CB8					954	GEN0450 DS	OH	00088500
					955	ITRACE	ID=DCLN3, TO END OF DATA OR HEX DATA	+00088600
							RDATA1=R9,	+00088700
							RDATA2=R15	00088800
000CB8	BE9F B0E0		000E0		956+	STCM	R9,15,TRDATA1	00460000
000CBC	BEFF B0E8		000E8		957+	STCM	R15,15,TRDATA2	00610000
000CC0	45E0 B564		00564		958+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000CC4	C4C3D3C5D5F34040				959+	DC	CL8'DCLN3' TRACE ID	00670000
000CCC	4090 AB2C		01B2C		960	STH	R9,OPLNGTH SET LENGTH	00088900
000CD0	4590 CF9E		00F9E		961	BAL	R9,GEN0600 GENERATE OBJECT AND MNEMONIC	00089000
000CD4	D201 AC53 ABB8	01C53	01BB8		962	MVC	SRCOPER(2),CHARDC SET OPERAND TO C'	00089100
000CDA	44F0 AAC2		01AC2		963	EX	R15,CHDCMVC MOVE CHARACTER DATA	00089200
000CDE	411F AC56		01C56		964	LA	R1,SRCOPER+3(R15) ENDING POINT	00089300
000CE2	927D 1000		00000		965	MVI	0(R1),C'''' INSERT ENDING APOSTROPHE	00089400
000CE6	47F0 CF16		00F16		966	B	GEN0570	00089500
					968	*-----*		00089700
					969	* WHEN THERE ARE MULTIPLE CSECTS, THE ADDRESS OF THE CURRENT CSECT		* 00089800
					970	* MUST BE REMOVED FROM THE ADCON VALUE		* 00089900
					971	*-----*		* 00090000
000CEA	41F0 CD13		00D13		972	GEN0458 LA	R15,LENMASK-1 ICM MASKS BY LENGTH	GP05212 00090100
000CEE	5AF0 7024		00024		973	A	R15,DATALN GET MASK ADDRESS FOR LENGTH	GP05212 00090200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000CF2	43E0	F000	00000		974	IC	R14,0(,R15) LOAD MASK	GP05212 00090300
000CF6	1BFF				975	SR	R15,R15 CLEAR FOR ICM < 4 BYTES	GP05212 00090400
000CF8	44E0	CD0C	00D0C		976	EX	R14,EXLOAD GET VALUE	GP05212 00090500
					977	*TEST*	SL R15,COMMCSAD LESS CSECT START	GP05212 00090600
000CFC	5FF0	702C	0002C		978	SL	R15,DATABASE SUBTRACT BASE ENTRY ADDRESS	GP10069 00090700
000D00	50F0	7018	00018		979	ST	R15,DATALBD SAVE DISPLACEMENT	GP10071 00090800
000D04	44E0	CD10	00D10		980	EX	R14,EXSTOR RETURN CORRECTED VALUE	GP05212 00090900
000D08	47F0	CD18	00D18		981	B	GEN0460 SKIP EX	GP05212 00091000
000D0C	BFF0	4000	00000		982	EXLOAD	ICM R15,0,0(R4) LOAD VALUE TO BE FIXED	GP05212 00091100
000D10	BEF0	4000	00000		983	EXSTOR	STCM R15,0,0(R4) REPLACE VALUE	GP05212 00091200
000D14	0103070F				984	LENMASK	DC X'0103070F' ICM MASKS BY LENGTH 1-4	GP05212 00091300
					986	*-----*		00091500
					987	* PROCESS REGULAR ADCON		* 00091600
					988	*-----*		* 00091700
000D18					989	GEN0460	DS OH	00091800
					990		ITRACE ID=GENADCON GENERATING AN ADCON	00091900
000D18	45E0	B564	00564		991+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000D1C	C7C5D5C1C4C3D6D5				992+	DC	CL8'GENADCON' TRACE ID	00670000
000D24	D201	AB2C	7026	01B2C	00026	993	MVC OPLENGTH,DATALEN+2 SET LENGTH	00092000
000D2A	4590	CF9E	00F9E		994	BAL	R9,GEN0600 GENERATE OBJECT AND MNEMONIC	00092100
000D2E	D203	AC53	AA00	01C53	01A00	995	MVC SRCOPER(4),=C'ALO(' SET ADCON-LENGTH	GP99142 00092200
000D34	D100	AC55	7027	01C55	00027	996	MVN SRCOPER+2(1),DATALEN+3	GP99142 00092300
000D3A	9515	702B	0002B		997	CLI	DATATYPE,\$DATAARL RELOCATABLE ?	GP10069 00092400
000D3E	4770	CD50	00D50		998	BNE	GENACON NO	GP10069 00092500
000D42	D207	AC57	700C	01C57	0000C	999	MVC SRCOPER+4(8),DATANAME SHOW EXTERNAL NAME	GP10069 00092600
000D48	9540	700C	0000C		1000	CLI	DATANAME,C' ' ANY ?	GP10069 00092700
000D4C	4720	CD5E	00D5E		1001	BH	GENAEXT YES; USE IT	GP10069 00092800
000D50	5820	7014	00014		1002	GENACON	L R2,DATALBA LABEL BLOCK'S ADDRESS	GP99161 00092900
000D54	D207	AC57	200C	01C57	0000C	1003	MVC SRCOPER+4(8),LABLNAME-LABLDSC(R2)	GP99184 00093000
000D5A	45E0	A982	01982		1004	BAL	R14,REFLABEL ADD TO CROSS REFERENCE	GP99184 00093100
000D5E	41E0	C883	00883		1005	GENAEXT	LA R14,ALIGNDC4	GP99181 00093200
000D62	4440	CBFC	00BFC		1006	EX	R4,EXTMODD IS IT ALIGNED?	GP99181 00093300
000D66	4770	CD78	00D78		1007	BNZ	GEN0478 NO	GP99181 00093400
000D6A	95F4	AC55	01C55		1008	CLI	SRCOPER+2,C'4' EXPECTED LENGTH ?	GP99181 00093500
000D6E	4770	CD78	00D78		1009	BNE	GEN0478 NO; EXPLICIT LENGTH	GP99181 00093600
000D72	D20A	AC54	AC56	01C54	01C56	1010	MVC SRCOPER+1(2+8+1),SRCOPER+3 SLIDE ALL LEFT	GP99181 00093700
000D78	DD0B	AC55	BA68	01C55	00A68	1011	GEN0478 TRT SRCOPER+2(12),BLKTRT FIND NEXT BLANK	GP99181 00093800
000D7E	9504	7027	00027		1012	GEN0480	CLI DATALEN+3,4 IS IT A FOUR-BYTE AD-CON?	GP99142 00093900
000D82	4770	CDA0	00DA0		1013	BNE	GEN0485 NO	GP99142 00094000
000D86	9180	4000	00000		1014	TM	O(R4),X'80' HIGH BIT ON?	GP99142 00094100
000D8A	4780	CDA0	00DA0		1015	BZ	GEN0485	GP99142 00094200
000D8E	D20B	1000	AA0C	00000	01A0C	1016	MVC O(12,R1),=C'+X''80000000'' SET BIT	GP99142 00094300
000D94	4110	100C	0000C		1017	LA	R1,12(,R1) ADJUST OUTPUT ADDRESS	GP99142 00094400
000D98	5010	AAEC	01AEC		1018	ST	R1,GENADDR SET CURRENT ADDRESS	GP14207 00094500
000D9C	47F0	CDC0	00DC0		1019	B	GEN0490 **TEST**	GP14207 00094600
000DA0	5010	AAEC	01AEC		1020	GEN0485	ST R1,GENADDR SET CURRENT ADDRESS	GP99142 00094700
000DA4	BF0F	7018	00018		1021	ICM	R0,15,DATALBD DISPLACEMENT FROM LABEL	00094800
000DA8	4780	CDC0	00DC0		1022	BZ	GEN0490 NO DISPLACEMENT	00094900
000DAC	924E	1000	00000		1023	MVI	O(R1),C'+ ' INSERT PLUS SIGN	00095000
000DB0	4110	1001	00001		1024	LA	R1,1(,R1) NEXT	00095100
000DB4	5010	AAEC	01AEC		1025	ST	R1,GENADDR SAVE ADDRESS	00095200
000DB8	5000	AB24	01B24		1026	ST	R0,WORKNBR SET DISPLACEMENT	GP99161 00095300
000DBC	45F0	A7B6	017B6		1027	BAL	R15,GENNBR00 GENERATE DISPLACEMENT	GP99146 00095400
000DC0					1028	GEN0490	DS OH	00095500

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000DC0	45F0	A5E0		015E0	1029		BAL R15,GENPRN2	GENERATE CLOSING PARENTHESIS 00095600
000DC4	47F0	CF16		00F16	1030		B GEN0570	DONE 00095700
000DC8					1031	GEN0500	DS OH	00095800
					1032		ITRACE ID=GENVCON	00095900
000DC8	45E0	B564		00564	1033+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
000DCC	C7C5D5E5C3D6D540				1034+		DC CL8'GENVCON'	TRACE ID 00670000
000DD4	D201	AB2C	7026	01B2C	00026		MVC OPLENGTH,DATALEN+2	SET LENGTH 00096000
000DDA	4590	CF9E		00F9E	1036		BAL R9,GEN0600	GENERATE OBJECT AND MNEMONIC 00096100
000DDE	D203	AC53	AA18	01C53	01A18		MVC SRCOPER(4),=C'VLO('	SET VCON-LENGTH GP99142 00096200
000DE4	D100	AC55	7027	01C55	00027		MVN SRCOPER+2(1),DATALEN+3	GP99142 00096300
000DEA	D207	AC57	700C	01C57	0000C		MVC SRCOPER+4(8),DATANAME	COPY EXTERNAL SYMBOL NAME 00096400
000DF0	4110	700C		0000C	1040		LA R1,DATANAME	GP99184 00096500
000DF4	45E0	A96A		0196A	1041		BAL R14,FINDLABL	NO MATCH? GP99184 00096600
000DF8	41E0	C883		00883	1042		LA R14,ALIGNDC4	GP99181 00096700
000DFC	4440	CBFC		00BFC	1043		EX R4,EXTMODD	IS IT ALIGNED? GP99181 00096800
000E00	4770	CE12		00E12	1044		BNZ GEN0528	NO GP99181 00096900
000E04	95F4	AC55		01C55	1045		CLI SRCOPER+2,C'4'	EXPECTED LENGTH ? GP99181 00097000
000E08	4770	CE12		00E12	1046		BNE GEN0528	NO; EXPLICIT LENGTH GP99181 00097100
000E0C	D20A	AC54	AC56	01C54	01C56		MVC SRCOPER+1(2+8+1),SRCOPER+3	SLIDE ALL LEFT GP99181 00097200
000E12	DD0B	AC55	BA68	01C55	00A68		TRT SRCOPER+2(12),BLKTRT	FIND NEXT BLANK GP99181 00097300
000E18	925D	1000		00000	1049		MVI O(R1),C'))'	CLOSING PARENTHESIS 00097400
000E1C	BFFF	7024		00024	1050		ICM R15,15,DATALEN	LOAD LENGTH GP10046 00097500
000E20	47D0	CF16		00F16	1051		BNP GEN0570	HUH? GP10046 00097600
000E24	89F0	0001		00001	1052		SLL R15,1	DOUBLE GP10057 00097700
000E28	06F0				1053		BCTR R15,0	EXECUTE LENGTH GP10057 00097800
000E2A	44F0	CE32		00E32	1054		EX R15,EXCLRSRC	CLEAR VALUE IN OBJECT FIELD GP10057 00097900
000E2E	47F0	CF16		00F16	1055		B GEN0570	GP10057 00098000
000E32	D200	AC23	A9D0	01C23	019D0		1056 EXCLRSRC MVC SRCOBJ1(0),=16C'0'	CLEAR V-CON ADDRESS GP10066 00098100
000E38	D201	AB2C	7026	01B2C	00026		1058 GEN0530 MVC OPLENGTH,DATALEN+2	SET LENGTH 00098300
000E3E	4590	CF9E		00F9E	1059		BAL R9,GEN0600	GENERATE OBJECT AND MNEMONIC 00098400
000E42	D204	AC4D	AB98	01C4D	01B98		1060 MVC SRCMNEM,CXDOPCD	CHANGE OPCODE TO CXD 00098500
000E48	47F0	CF16		00F16	1061		B GEN0570	00098600
					1062	*-----* 00098700		
					1063	* GENERATE FILLER SPACE (ORIGINAL DC OR ORG OR OTHER SPACER * 00098800		
					1064	*-----* 00098900		
000E4C	4990	AA4C		01A4C	1065	GENDSLEN	CH R9,=H'256'	MAX GP10033 00099000
000E50	47D0	CE58		00E58	1066		BNH *+8	OK GP10033 00099100
000E54	4190	0100		00100	1067		LA R9,256	TRUNCATE GP10033 00099200
					1068		ITRACE ID=DSLEN,RDATA1=R9	TRACK GP10033 00099300
000E58	BE9F	B0E0		000E0	1069+		STCM R9,15,TRDATA1	00460000
000E5C	45E0	B564		00564	1070+		BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
000E60	C4E2D3C5D5404040				1071+		DC CL8'DSLEN'	TRACE ID 00670000
000E68	4090	AB2C		01B2C	1072		STH R9,OPLength	SET LOGICAL LENGTH GP10033 00099400
000E6C	4590	CF9E		00F9E	1073		BAL R9,GEN0600	GENERATE OBJECT AND 'DC' GP10033 00099500
000E70	92E2	AC4E		01C4E	1074		MVI SRCMNEM+1,C'S'	CHANGE DC TO DS GP10066 00099600
000E74	D207	AC53	A9C8	01C53	019C8		MVC SRCOPER(8),=C'XLnnn'0''	MAKE OPERAND GP10033 00099700
000E7A	D205	AC72	AA64	01C72	01A64		MVC SRCCMNT(6),=C'FILLER'	IDENTIFY GP10033 00099800
000E80	4890	AB2C		01B2C	1077		LH R9,OPLength	GET LOGICAL LENGTH BACK GP10033 00099900
000E84	41F0	0008		00008	1078		LA R15,8	MAX PACKED GP10066 00100000
000E88	199F				1079		CR R9,R15	LONGER THAN MAX ? GP10066 00100100
000E8A	47B0	CE90		00E90	1080		BNL *+6	YES GP10066 00100200
000E8E	18F9				1081		LR R15,R9	USE SHORTER LENGTH GP10066 00100300
000E90	89F0	0001		00001	1082		SLL R15,1	DOUBLE GP10066 00100400
000E94	06F0				1083		BCTR R15,0	EXECUTE LENGTH GP10066 00100500

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000E96	44F0	CE32		00E32	1084		EX R15,EXCLRSRC CLEAR VALUE IN OBJECT FIELD	GP10066 00100600
000E9A	4E90	B000		00000	1085		CVD R9,COMMDWRD MAKE PACKED	GP10033 00100700
000E9E	D203	AB30	AA08	01B30	01A08	1086	MVC DISPWORK(4),=X'F0202120' EDIT MASK	GP10033 00100800
000EA4	DE03	AB30	B006	01B30	00006	1087	ED DISPWORK(4),COMMDWRD+6 MAKE PRINTABLE	GP10033 00100900
000EAA	D202	AC55	AB31	01C55	01B31	1088	MVC SRCOPER+2(3),DISPWORK+1 COMPLETE LENGTH	GP10033 00101000
000EB0	95F0	AC55		01C55	1089		CLI SRCOPER+2,C'0' TWO DIGIT LENGTH ?	GP10033 00101100
000EB4	4770	CF16		00F16	1090		BNE GEN0570 NO; RETAIN	GP10033 00101200
000EB8	D205	AC55	AC56	01C55	01C56	1091	MVC SRCOPER+2(06),SRCOPER+3 SWALLOW LEADING ZERO	GP10033 00101300
000EBE	47F0	CF16		00F16	1092		B GEN0570	GP10033 00101400
000EC2					1093	GEN0540	DS OH	00101500
					1094		ITRACE ID=GENQ	00101600
000EC2	45E0	B564		00564	1095+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000EC6	C7C5D5D840404040				1096+		DC CL8'GENQ' TRACE ID	00670000
000ECE	D201	AB2C	7026	01B2C	00026	1097	MVC OPLENGTH,DATALEN+2 SET LENGTH	00101700
000ED4	4590	CF9E		00F9E	1098		BAL R9,GEN0600 GENERATE OBJECT AND MNEMONIC	00101800
000ED8	D203	AC53	AA1C	01C53	01A1C	1099	MVC SRCOPER(4),=C'QLO(' SET Q-LENGTH	GP99142 00101900
000EDE	D100	AC55	7027	01C55	00027	1100	MVN SRCOPER+2(1),DATALEN+3	GP99142 00102000
000EE4	D207	AC57	700C	01C57	0000C	1101	MVC SRCOPER+4(8),DATANAME COPY EXTERNAL SYMBOL NAME	00102100
000EEA	4110	700C		0000C	1102		LA R1,DATANAME	GP99184 00102200
000EEE	45E0	A96A		0196A	1103		BAL R14,FINDLABL NO MATCH?	GP99184 00102300
000EF2	41E0	C883		00883	1104		LA R14,ALIGNDC4	GP99181 00102400
000EF6	4440	CBFC		00BFC	1105		EX R4,EXTMODD IS IT ALIGNED?	GP99181 00102500
000EFA	4770	CF0C		00F0C	1106		BNZ GEN0568 NO	GP99181 00102600
000EFE	95F4	AC55		01C55	1107		CLI SRCOPER+2,C'4' EXPECTED LENGTH ?	GP99181 00102700
000F02	4770	CF0C		00F0C	1108		BNE GEN0568 NO; EXPLICIT LENGTH	GP99181 00102800
000F06	D20A	AC54	AC56	01C54	01C56	1109	MVC SRCOPER+1(2+8+1),SRCOPER+3 SLIDE ALL LEFT	GP99181 00102900
000F0C	DD0B	AC55	BA68	01C55	00A68	1110	GEN0568 TRT SRCOPER+2(12),BLKTRT FIND NEXT BLANK	GP99181 00103000
000F12	925D	1000		00000	1111		MVI 0(R1),C'))' CLOSING PARENTHESIS	00103100
000F16					1112	GEN0570	DS OH	00103200
000F16	4A30	AB2C		01B2C	1113		AH R3,OPLNGTH UPDATE DISPLACEMENT	00103300
000F1A	4A40	AB2C		01B2C	1114		AH R4,OPLNGTH NEXT OBJECT MODULE BYTE	00103400
000F1E					1115	GEN0580	DS OH	00103500
000F1E	D207	AC44	ABD9	01C44	01BD9	1116	MVC SRCLABL,LOCLABEL PLACE LABEL ON OUTPUT	GP99146 00103600
000F24	D207	ABD9	ABD8	01BD9	01BD8	1117	MVC LOCLABEL,LOCLABEL-1 AND CLEAR FOR NEXT USE	GP99146 00103700
000F2A	D277	B710	AC1C	00710	01C1C	1118	MVC PRTDATA(SRCL),SRC SET DATA FOR PRINTING	00103800
000F30	4590	A8D4		018D4	1119		BAL R9,PUNCH000 PUNCH	GP99134 00103900
000F34	4590	A91E		0191E	1120		BAL R9,PRTSTMT PRINT RLD DETECTED DATA	GP99134 00104000
000F38	5030	AAFC		01AFC	1121		ST R3,DISPI SET NEW DISPLACEMENT	GP99161 00104100
000F3C	5030	AB14		01B14	1122		ST R3,DISPD SET DATA DISPLACEMENT	GP99161 00104200
					1123		ITRACE ID=DCDONE, DC PROCESSING COMPLETE	+00104300
							DATAl=DISPD, .. DATA DISPLACEMENT NOW	+00104400
							DATAl2=DATAlEND .. END OF DATA AREA	00104500
000F40	41E0	AB14		01B14	1124+		LA R14,DISPD DATA ADDRESS	00360000
000F44	D207	B0E0	E000	000E0	00000	1125+	MVC TRDATA1,0(R14) MOVE DATA	00370000
000F4A	41E0	7020		00020	1126+		LA R14,DATAlEND DATA ADDRESS	00510000
000F4E	D207	B0E8	E000	000E8	00000	1127+	MVC TRDATA2,0(R14) MOVE DATA	00530000
000F54	45E0	B564		00564	1128+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000F58	C4C3C4D6D5C54040				1129+		DC CL8'DCDONE' TRACE ID	00670000
000F60	D503	AB14	7020	01B14	00020	1130	CLC DISPD,DATAlEND BEYOND END OF DATA AREA?	00104600
000F66	47D0	C1D6		001D6	1131		BNH GENLOOP NO	GP99155 00104700
					1132		ITRACE ID=NEXTDATA, .. CURRENT DATA BLOCK ADDRESS	+00104800
							RDATA1=R7, .. NEXT DATA BLOCK'S ADDRESS	+00104900
							DATAl2=DATAlNEXT	00105000
000F6A	BE7F	B0E0		000E0	1133+		STCM R7,15,TRDATA1	00460000
000F6E	41E0	7000		00000	1134+		LA R14,DATAlNEXT DATA ADDRESS	00510000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000F72	D207	B0E8	E000	000E8	00000	1135+	MVC TRDATA2,0(R14) MOVE DATA	00530000
000F78	45E0	B564		00564		1136+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000F7C	D5C5E7E3C4C1E3C1					1137+	DC CL8'NEXTDATA' TRACE ID	00670000
000F84	BF7F	7000		00000		1138	ICM R7,15,DATANEXT NEXT DATA BLOCK	00105100
000F88	4770	CF94		00F94		1139	BNZ GEN0590 SET NEXT DATA DISP	00105200
000F8C	92FF	AB14		01B14		1140	MVI DISPD,X'FF' SET END OF FILE	00105300
000F90	47F0	C1D6		001D6		1141	B GENLOOP GP99155	00105400
000F94						1142	GEN0590 DS OH	00105500
000F94	D203	AB14	701C	01B14	0001C	1143	MVC DISPD,DATABEGN SET BEGINNING OF NEXT DATA AREA	00105600
000F9A	47F0	C1D6		001D6		1144	B GENLOOP GP99155	00105700
						1145	* ----- * 00105800	
						1146	* GENERATE DISPLACEMENT, MNEMONIC, AND INSTRUCTION IN HEX * 00105900	
						1147	* ----- * 00106000	
000F9E						1148	GEN0600 DS OH	00106100
000F9E	D277	AC1C	AC1B	01C1C	01C1B	1149	MVC SRC(SRCL),SRC-1 CLEAR SOURCE STATEMENT	00106200
						1150	*OLD* UNPK SRCDISP(9),DISPI(5) UNPACK DISPLACEMENT	00106300
						1151	*OLD* TR SRCDISP,COMMHXTR TRANSLATE TO PRINTABLE GP99132	00106400
						1152	*OLD* MVI SRCDISP+8,C' ' RESTORE BLANK	00106500
000FA4	F363	AC1C	AAFD	01C1C	01AFD	1153	UNPK SRCDISP(L'SRCDISP+1),DISPI+4-L'SRCDISP/2(L'SRCDISP/2+1) GP13026	00106600
000FAA	DC05	AC1C	B185	01C1C	00185	1154	TR SRCDISP,COMMHXTR TRANSLATE TO PRINTABLE GP13026	00106700
000FB0	9240	AC22		01C22		1155	MVI SRCDISP+L'SRCDISP,C' ' RESTORE THE BLANK GP13026	00106800
000FB4	D204	AC4D	8000	01C4D	00000	1156	MVC SRCMNEM,OPMNEM SET MNEMONIC	00106900
000FBA	4810	AB2C		01B2C		1157	LH R1,OPLNGTH INSERT INSTRUCTION LENGTH	00107000
000FBE	4910	AA48		01A48		1158	CH R1,=H'8' NOT TOO LONG? GP99161	00107100
000FC2	47D0	CFCA		00FCA		1159	BNH *+8 GP99161	00107200
000FC6	4110	0008		00008		1160	LA R1,8 ELSE TRUNCATE GP99161	00107300
000FCA	41E1	1000		00000		1161	LA R14,0(R1,R1) SAVE TRUNCATED LENGTH GP10018	00107400
000FCE	0610					1162	BCTR R1,0 ADJUST FOR EXECUTE	00107500
000FD0	4410	A022		01022		1163	EX R1,OBJMVC1 COPY FOR UNPACKING	00107600
000FD4	F384	AC9C	AC94	01C9C	01C94	1164	UNPK OBJOUT(9),OBJIN(5) UNPACK FIRST WORD GP99141	00107700
000FDA	F384	ACA4	AC98	01CA4	01C98	1165	UNPK OBJOUT+8(9),OBJIN+4(5) UNPACK SECOND WORD GP99141	00107800
000FE0	DC0F	AC9C	B185	01C9C	00185	1166	TR OBJOUT,COMMHXTR TRANSLATE TO PRINTABLE GP99132	00107900
000FE6	9240	ACAC		01CAC		1167	MVI OBJOUT+16,C' ' BLANK GP99141	00108000
000FEA	4C10	AA6A		01A6A		1168	MH R1,=AL2(TRMSK2-TRMSK1) MAKE MASK GP99141	00108100
000FEE	4111	ACBB		01CBB		1169	LA R1,TRMSK1(R1) POINT TO MASK GP99141	00108200
000FF2	D212	AC23	1000	01C23	00000	1170	MVC SRCOBJ1(TRMSK2-TRMSK1),0(R1) MOVE MASK GP99141	00108300
000FF8	D502	AA92	AC4D	01A92	01C4D	1171	CLC =C'DC ',SRCMNEM CONSTANT? GP10018	00108400
000FFE	4770	A012		01012		1172	BNE GEN0650 NO GP10018	00108500
001002	9210	AC23		01C23		1173	MVI SRCOBJ1,X'10' PRESET FOR BLANK GP10018	00108600
001006	D211	AC24	AC23	01C24	01C23	1174	MVC SRCOBJ1+1(18),SRCOBJ1 MAKE ALL BLANK GP10018	00108700
00100C	06E0					1175	BCTR R14,0 ADJUST FOR EXECUTE GP10018	00108800
00100E	44E0	A028		01028		1176	EX R14,EXMVCMSK AND MOVE AS NEEDED GP10018	00108900
001012	DC12	AC23	AC9C	01C23	01C9C	1177	GEN0650 TR SRCOBJ1(TRMSK2-TRMSK1),OBJOUT FORMAT OUTPUT GP99141	00109000
001018	4110	AC53		01C53		1178	LA R1,SRCOPER 1ST OPERAND BYTE	00109100
00101C	5010	AAEC		01AEC		1179	ST R1,GENADDR SAVE CURRENT ADDRESS	00109200
001020	07F9					1180	BR R9	00109300
001022	D200	AC94	4000	01C94	00000	1181	OBJMVC1 MVC OBJIN(0),0(R4) COPY DATA TO BE DISPLAYED	00109400
001028	D200	AC23	AD53	01C23	01D53	1182	EXMVCMSK MVC SRCOBJ1(0),TRMSKDC MOVE MASK GP10018	00109500
						1183	* ----- * 00109600	
						1184	* COPY ASSEMBLER INPUT STATEMENTS * 00109700	
						1185	* ----- * 00109800	
00102E						1186	GEN0700 DS OH	00109900
00102E	D277	AC1C	AC1B	01C1C	01C1B	1187	MVC SRC(SRCL),SRC-1 CLEAR SOURCE STATEMENT GP99134	00110000
001034	D206	AC4D	AA95	01C4D	01A95	1188	MVC SRCMNEM(7),=C'SPACE 1' PRETTIFY GP99134	00110100
00103A	4590	A8D4		018D4		1189	BAL R9,PUNCH000 PUNCH END STATEMENT GP99134	00110200

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00103E	4590 A918	01918		1190	BAL R9,PRTUSER PRINT SOURCE STATEMENT	GP99134 00110300
001042	D20D AC4D AA6C	01C4D 01A6C		1191	MVC SRCMNM(14),=C'PRINT ON,NOGEN' PRETTIFY	GP99134 00110400
001048	4590 A8D4	018D4		1192	BAL R9,PUNCH000 PUNCH END STATEMENT	GP99134 00110500
00104C	4590 A918	01918		1193	BAL R9,PRTUSER PRINT SOURCE STATEMENT	GP99134 00110600
001050	9108 B163	00163		1194	TM COMMFLAG,\$ASMIN ANY ASSEMBLER INPUT?	00110700
001054	47E0 A0DA	010DA		1195	BNO GEN0730 NO	00110800
				1196	ITRACE ID=ASMIN COPYING ASSEMBLER INPUT	00110900
001058	45E0 B564	00564		1197+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00105C	C1E2D4C9D5404040			1198+	DC CL8'ASMIN' TRACE ID	00670000
				1199	OPEN (SYSIN,INPUT) OPEN SYSIN	00111000
001064				1200+	CNOP 0,4 ALIGN LIST TO FULLWORD	01740001
001064	4510 A06C	0106C		1201+	BAL 1,*+8 LOAD REG1 W/LIST ADDR.	01780000
001068	80			1202+	DC AL1(128) OPTION BYTE	01900000
001069	001E4C			1203+	DC AL3(SYSIN) DCB ADDRESS	01920000
00106C	0A13			1204+	SVC 19 ISSUE OPEN SVC	04000000
00106E				1205	GEN0710 DS OH	00111100
				1206	GET SYSIN READ A SYSIN STATEMENT	00111200
00106E	4110 AE4C	01E4C		1207+	LA 1,SYSIN LOAD PARAMETER REG 1	01900002
001072	58F0 1030	00030		1208+	L 15,48(0,1) LOAD GET ROUTINE ADDR	00600000
001076	05EF			1209+	BALR 14,15 LINK TO GET ROUTINE	00625000
001078	1821			1210	LR R2,R1 COPY START ADDRESS	GP99134 00111300
00107A	41E0 0001	00001		1211	LA R14,1 SET INCREMENT	GP99134 00111400
00107E	41F0 200B	0000B		1212	LA R15,16-5(,R2) NOT TOO FAR	GP99134 00111500
001082	D24F AC44 1000	01C44 00000		1213	MVC SRCLABL(80),0(R1) COPY TO SOURCE STATEMENT AREA	00111600
001088	D509 AA7A 2000	01A7A 00000		1214	CLC =C'ASM START ',0(R2) DISASM02'S START CARD?	GP99139 00111700
00108E	4780 A06E	0106E		1215	BE GEN0710 YES; IGNORE	GP99134 00111800
001092	D504 AA9C 2000	01A9C 00000		1216	GEN07LUP CLC =C' END ',0(R2) USER SUPPLIED END CARD?	GP99134 00111900
001098	4780 A06E	0106E		1217	BE GEN0710 YES; IGNORE	GP99134 00112000
00109C	D506 AAA1 2000	01AA1 00000		1218	CLC =C' YREGS ',0(R2) USER SUPPLIED REG MAP?	GP99134 00112100
0010A2	4780 A06E	0106E		1219	BE GEN0710 YES; IGNORE	GP99134 00112200
0010A6	D506 AAA8 2000	01AA8 00000		1220	CLC =C' PRINT ',0(R2) USER SUPPLIED PRINT OPTIONS ?	00112300
0010AC	4780 A06E	0106E		1221	BE GEN0710 YES; IGNORE	GP99134 00112400
0010B0	872E A092	01092		1222	BXLE R2,R14,GEN07LUP TRY NEXT COLUMN	GP99134 00112500
0010B4	4590 A8D4	018D4		1223	BAL R9,PUNCH000 COPY TO PUNCH FILE	GP99146 00112600
0010B8	4590 A918	01918		1224	BAL R9,PRTUSER PRINT SOURCE STATEMENT	GP99134 00112700
0010BC	47F0 A06E	0106E		1225	B GEN0710 LOOP	00112800
0010C0				1226	GEN0720 DS OH	00112900
				1227	ITRACE ID=ASMINEND END OF SYSIN REACHED	00113000
0010C0	45E0 B564	00564		1228+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0010C4	C1E2D4C9D5C5D5C4			1229+	DC CL8'ASMINEND' TRACE ID	00670000
				1230	CLOSE SYSIN CLOSE SYSIN	00113100
0010CC				1231+	CNOP 0,4 ALIGN LIST TO FULLWORD	02420002
0010CC	4510 A0D4	010D4		1232+	BAL 1,*+8 LOAD REG1 W/LIST ADDR	02460002
0010D0	80			1233+	DC AL1(128) OPTION BYTE	02580000
0010D1	001E4C			1234+	DC AL3(SYSIN) DCB ADDRESS	02600000
0010D4	0A14			1235+	SVC 20 ISSUE CLOSE SVC	01640000
0010D6	47F0 A0E6	010E6		1236	B GEN0800	00113200
0010DA				1237	GEN0730 DS OH	00113300
				1238	ITRACE ID=NOASMIN NO ASSEMBLER INPUT TO COPY	GP99134 00113400
0010DA	45E0 B564	00564		1239+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0010DE	D5D6C1E2D4C9D540			1240+	DC CL8'NOASMIN' TRACE ID	00670000
				1241	* ----- *	00113500
				1242	* GENERATE END STATEMENT *	00113600
				1243	* ----- *	00113700
0010E6				1244	GEN0800 DS OH	00113800

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0010E6	D277	AC1C	AC1B	01C1C	01C1B	1245	MVC SRC(SRCL),SRC-1	CLEAR SOURCE STATEMENT GP99134 00113900
0010EC	D206	AC4D	AAAF	01C4D	01AAF	1246	MVC SRCMNEM(7),=C'YREGS ,'	SET MACRO TO EXPAND MNEMONICS 00114000
0010F2	4590	A8D4		018D4		1247	BAL R9,PUNCH000	PUNCH END STATEMENT GP99134 00114100
0010F6	4590	A918		01918		1248	BAL R9,PTUSER	PRINT SOURCE STATEMENT GP99134 00114200
0010FA	D277	AC1C	AC1B	01C1C	01C1B	1249	MVC SRC(SRCL),SRC-1	CLEAR SOURCE STATEMENT 00114300
001100	D204	AC4D	ABAA	01C4D	01BAA	1250	MVC SRCMNEM,ENDOPCD	SET OP CODE 'END' 00114400
001106	D207	AC53	B14C	01C53	0014C	1251	MVC SRCOPER(L'COMMCSNM),COMMCSNM	00114500
00110C	4110	B14C		0014C		1252	LA R1,COMMCSNM	ADD END STATEMENT TO XREF GP99184 00114600
001110	45E0	A96A		0196A		1253	BAL R14,FINDLABL	GP99184 00114700
001114	4590	A8D4		018D4		1254	BAL R9,PUNCH000	PUNCH END STATEMENT GP99146 00114800
001118	4590	A918		01918		1255	BAL R9,PTUSER	PRINT SOURCE STATEMENT GP99134 00114900
00111C	47F0	A952		01952		1256	B EXIT0000	ALL DONE 00115000
						1257	*-----*	00115100
						1258	*	00115200
						1259	* GENERATE E FORMAT - NO OPERAND FIELD	00115300
						1260	*	00115400
						1261	*-----*	00115500
001120						1262	GENE0000 DS OH	GP99132 00115600
						1263	ITRACE ID=GENE	GENERATE SVC FORMAT INSTRUCTION 00115700
001120	45E0	B564		00564		1264+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
001124	C7C5D5C540404040					1265+	DC CL8'GENE'	TRACE ID 00670000
00112C	45F0	A5BC		015BC		1266	BAL R15,GENCOMMA	INSERT COMMA (FOR COMMENT) GP99132 00115800
001130	47F0	C574		00574		1267	B GEN0340	COMPLETE GP99132 00115900
						1268	*-----*	00116000
						1269	*	00116100
						1270	* GENERATE RR FORMAT 1 INSTRUCTIONS	00116200
						1271	*	00116300
						1272	*-----*	00116400
001134						1273	GENRR100 DS OH	00116500
						1274	ITRACE ID=GENRR1	GENERATE SVC FORMAT INSTRUCTION 00116600
001134	45E0	B564		00564		1275+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
001138	C7C5D5D9D9F14040					1276+	DC CL8'GENRR1'	TRACE ID 00670000
001140	F200	AB2B	4001	01B2B	00001	1277	PACK WORKREG(1),1(1,R4)	FLIP REG #1 INTO LOW NYBBLE 00116700
001146	45F0	A5F2		015F2		1278	BAL R15,GENREG00	GENERATE R1 GP99146 00116800
00114A	45F0	A5BC		015BC		1279	BAL R15,GENCOMMA	INSERT COMMA GP99146 00116900
00114E	D100	AB2B	4001	01B2B	00001	1280	MVN WORKREG,1(R4)	FLIP #1 AND #2 GP99132 00117000
001154	45F0	A5F2		015F2		1281	BAL R15,GENREG00	GENERATE R2 GP99146 00117100
001158	47F0	C574		00574		1282	B GEN0340	COMPLETE 00117200
						1284	*-----*	00117400
						1285	*	00117500
						1286	* GENERATE RR FORMAT 2 INSTRUCTIONS	00117600
						1287	*	00117700
						1288	*-----*	00117800
00115C						1289	GENRR200 DS OH	00117900
						1290	ITRACE ID=GENRR2	GENERATE SVC FORMAT INSTRUCTION 00118000
00115C	45E0	B564		00564		1291+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
001160	C7C5D5D9D9F24040					1292+	DC CL8'GENRR2'	TRACE ID 00670000
001168	D703	AB24	AB24	01B24	01B24	1293	XC WORKNBR,WORKNBR	CLEAR NUMERIC 00118100
00116E	D200	AB27	4001	01B27	00001	1294	MVC WORKNBR+3(1),1(R4)	COPY SVC NUMBER 00118200
001174	45F0	A7B6		017B6		1295	BAL R15,GENNBROO	GENERATE SVC NUMBER GP99146 00118300
001178	9140	8007		00007		1296	TM OPFLAGS,\$OP SVC	IS THIS AN SVC? 00118400
00117C	47E0	C574		00574		1297	BNO GEN0340	NOPE 00118500
001180	1BFF					1298	SR R15,R15	LENGTH WORK REGISTER GP99134 00118600

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001182	4300	4001	00001		1299	IC	R0,1(,R4) LOAD NUMBER TO BE FOUND	GP99134 00118700
001186	5810	AAC8	01AC8		1300	L	R1,ASVCDDESC SVC DESCRIPTIONS	00118800
				00000	1301	USING	SVCDSECT,R1 DEFINE BASE	00118900
00118A					1302	GENRR210 DS	OH	00119000
00118A	BFF1	1000	00000		1303	ICM	R15,1,SVCLLEN GET TEXT LENGTH - 1	GP99134 00119100
00118E	4740	C574	00574		1304	BM	GEN0340 END OF TABLE - SKIP COMMENT	GP99134 00119200
001192	BD01	1001	00001		1305	CLM	R0,1,SVCNBR SVC NUMBER LOCATED?	GP99134 00119300
001196	4780	A1A2	011A2		1306	BE	GENRR220 YES	00119400
00119A	411F	1003	00003		1307	LA	R1,SVCSIZE+1(R15,R1) NEXT SVC	GP99134 00119500
00119E	47F0	A18A	0118A		1308	B	GENRR210 LOOP	00119600
0011A2					1309	GENRR220 DS	OH	00119700
					1310	*WASTED* MVC	SRCCMNT(25),COMMBLKS INITIALIZE COMMENT	GP10034 00119800
0011A2	44F0	A1AA	011AA		1311	EX	R15,SVCCMVC MOVE SVC COMMENT	00119900
0011A6	47F0	C574	00574		1312	B	GEN0340 COMPLETE	00120000
0011AA	D200	AC72	1002	01C72	00002	1313	SVCCMVC MVC SRCCMNT(0),SVCCMNT SET COMMENT	GP10034 00120100
					1315	*-----*		00120300
					1316	*		* 00120400
					1317	* GENERATE RR BRANCH INSTRUCTIONS		* 00120500
					1318	*		* 00120600
					1319	*-----*		* 00120700
0011B0					1320	GENRR300 DS	OH	00120800
					1321	ITRACE	ID=GENRRBR GENERATE RR MASK TYPE INSTRUCTION	00120900
0011B0	45E0	B564	00564		1322+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0011B4	C7C5D5D9D9C2D940				1323+	DC	CL8'GENRRBR' TRACE ID	00670000
0011BC	1BEE				1324	SR	R14,R14 CLEAR REGISTER	00121000
0011BE	43E0	4001	00001		1325	IC	R14,1(,R4) INSERT MASK	00121100
0011C2	88E0	0004	00004		1326	SRL	R14,4 SHIFT TO LOW BITS	00121200
0011C6	D703	AB24	AB24	01B24	01B24	1327	XC WORKNBR,WORKNBR ZERO BYTE 1-3	00121300
0011CC	42E0	AB27	01B27		1328	STC	R14,WORKNBR+3 SET BYTE 4	00121400
0011D0	9101	B168	00168		1329	TM	COMMOFG,\$OFBCOP RAW BCR ?	GP10029 00121500
0011D4	4770	A214	01214		1330	BNZ	GENRR340 YES; EXPAND BCR ONLY	GP10029 00121600
0011D8	9108	AB2F	01B2F		1331	TM	SAVEFLAG,\$OPCCA ARITHMETIC MNEMONICS?	00121700
0011DC	4710	A1F0	011F0		1332	BO	GENRR310 YES	00121800
0011E0	9104	AB2F	01B2F		1333	TM	SAVEFLAG,\$OPCCC COMPARE MNEMONICS?	00121900
0011E4	4710	A1F8	011F8		1334	BO	GENRR320 YES	00122000
0011E8	5810	AA20	01A20		1335	L	R1,=A(GENRRCCCL) LOGICAL EXTENDED MNEMONICS	GP10075 00122100
0011EC	47F0	A1FC	011FC		1336	B	GENRR330	00122200
0011F0					1337	GENRR310 DS	OH	00122300
0011F0	5810	AA24	01A24		1338	L	R1,=A(GENRRCCA) ARITHMETIC EXTENDED MNEMONICS	GP10075 00122400
0011F4	47F0	A1FC	011FC		1339	B	GENRR330	00122500
0011F8					1340	GENRR320 DS	OH	00122600
0011F8	5810	AA28	01A28		1341	L	R1,=A(GENRRCCC) COMPARE EXTENDED MNEMONICS	GP10075 00122700
0011FC					1342	GENRR330 DS	OH	00122800
0011FC	95FF	1000	00000		1343	CLI	O(R1),X'FF' EXTENDED MNEMONIC NOT FOUND?	00122900
001200	4780	A214	01214		1344	BE	GENRR340 NO	00123000
001204	BDE1	1000	00000		1345	CLM	R14,1,0(R1) MASK FOUND?	00123100
001208	4780	A220	01220		1346	BE	GENRR350 YES	00123200
00120C	4110	1007	00007		1347	LA	R1,7(,R1) NEXT MASK/EXTENDED MNEMONIC	00123300
001210	47F0	A1FC	011FC		1348	B	GENRR330 LOOP	00123400
001214					1349	GENRR340 DS	OH	00123500
001214	45F0	A7B6	017B6		1350	BAL	R15,GENNBROO GENERATE MASK VALUE	GP99146 00123600
001218	45F0	A5BC	015BC		1351	BAL	R15,GENCOMMA INSERT COMMA	GP99146 00123700
00121C	47F0	A226	01226		1352	B	GENRR360 GENERATE OPERAND	00123800

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
001220				1353	GENRR350 DS OH	00123900
001220	D204 AC4D 1001 01C4D 00001			1354	MVC SRCMNEM,1(R1) SET EXTENDED MNEMONIC	00124000
001226				1355	GENRR360 DS OH	00124100
001226	D100 AB2B 4001 01B2B 00001			1356	MVN WORKREG,1(R4) COPY REGISTER GP99132	00124200
00122C	45F0 A5F2 015F2			1357	BAL R15,GENREG00 GENERATE REGISTER GP99146	00124300
001230	47F0 C574 00574			1358	B GEN0340 COMPLETE	00124400
				1359	*-----*	00124500
				1360	*	00124600
				1361	* GENERATE RR FORMAT 4 INSTRUCTIONS	00124700
				1362	*	00124800
				1363	*-----*	00124900
001234				1364	GENRR400 DS OH GP99132	00125000
				1365	ITRACE ID=GENRR4 GENERATE SVC FORMAT INSTRUCTION	00125100
001234	45E0 B564 00564			1366+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
001238	C7C5D5D9D9F44040			1367+	DC CL8'GENRR4' TRACE ID	00670000
001240	F200 AB2B 4001 01B2B 00001			1368	PACK WORKREG(1),1(1,R4) FLIP REG #1 INTO LOW NYBBLE	00125200
001246	45F0 A5F2 015F2			1369	BAL R15,GENREG00 GENERATE R1 GP99132	00125300
00124A	47F0 C574 00574			1370	B GEN0340 COMPLETE GP99132	00125400
				1371	*-----*	00125500
				1372	*	00125600
				1373	* GENERATE RR FORMAT 5 INSTRUCTIONS	00125700
				1374	*	00125800
				1375	*-----*	00125900
00124E				1376	GENRR500 DS OH GP99132	00126000
				1377	ITRACE ID=GENRR5 GENERATE SVC FORMAT INSTRUCTION	00126100
00124E	45E0 B564 00564			1378+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
001252	C7C5D5D9D9F54040			1379+	DC CL8'GENRR5' TRACE ID	00670000
00125A	D200 AB2B 4001 01B2B 00001			1380	MVC WORKREG,1(R4) COPY R1 AND R2 GP99132	00126200
001260	45F0 A5F2 015F2			1381	BAL R15,GENREG00 GENERATE R2 GP99132	00126300
001264	47F0 C574 00574			1382	B GEN0340 COMPLETE GP99132	00126400
				1383	*-----*	00126500
				1384	*	00126600
				1385	* GENERATE RRE FORMAT INSTRUCTIONS	00126700
				1386	*	00126800
				1387	*-----*	00126900
001268				1388	GENRRE00 DS OH GP99132	00127000
				1389	ITRACE ID=GENRRE GENERATE SVC FORMAT INSTRUCTION	00127100
001268	45E0 B564 00564			1390+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00126C	C7C5D5D9D9C54040			1391+	DC CL8'GENRRE' TRACE ID	00670000
001274	F200 AB2B 4003 01B2B 00003			1392	PACK WORKREG(1),3(1,R4) FLIP REG #3 INTO LOW NYBBLE	00127200
00127A	45F0 A5F2 015F2			1393	BAL R15,GENREG00 GENERATE R1 GP99132	00127300
00127E	45F0 A5BC 015BC			1394	BAL R15,GENCOMMA INSERT COMMA GP99132	00127400
001282	D100 AB2B 4003 01B2B 00003			1395	MVN WORKREG,3(R4) COPY R1 AND R2 GP99132	00127500
001288	45F0 A5F2 015F2			1396	BAL R15,GENREG00 GENERATE R2 GP99132	00127600
00128C	47F0 C574 00574			1397	B GEN0340 COMPLETE GP99132	00127700
				1398	*-----*	00127800
				1399	*	00127900
				1400	* GENERATE RRE FORMAT INSTRUCTIONS - OPCODE ONLY	00128000
				1401	*	00128100
				1402	*-----*	00128200
001290				1403	GENRREZ0 DS OH GP10018	00128300
				1404	ITRACE ID=GENRREZ GENERATE RRE - NO REGS GP10018	00128400
001290	45E0 B564 00564			1405+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
001294	C7C5D5D9D9C5E940			1406+	DC CL8'GENRREZ' TRACE ID	00670000
00129C	47F0 C574 00574			1407	B GEN0340 COMPLETE GP10018	00128500

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				1408	*-----*	00128600
				1409	*	00128700
				1410	* GENERATE RRE FORMAT INSTRUCTIONS - R1 ONLY	00128800
				1411	*	00128900
				1412	*-----*	00129000
0012A0				1413	GENRRE30 DS OH GP10018	00129100
				1414	ITRACE ID=GENRRE3 GENERATE SVC FORMAT INSTRUCTION	00129200
0012A0	45E0 B564	00564		1415+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0012A4	C7C5D5D9D9C5F340			1416+	DC CL8'GENRRE3' TRACE ID	00670000
0012AC	F200 AB2B 4003	01B2B 00003		1417	PACK WORKREG(1),3(1,R4) FLIP REG #3 INTO LOW NYBBLE	00129300
0012B2	45F0 A5F2	015F2		1418	BAL R15,GENREG00 GENERATE R1 GP10018	00129400
0012B6	47F0 C574	00574		1419	B GEN0340 COMPLETE GP99132	00129500
				1421	*-----*	00129700
				1422	*	00129800
				1423	* GENERATE RX FORMAT INSTRUCTIONS	00129900
				1424	*	00130000
				1425	*-----*	00130100
0012BA				1426	GENRX00 DS OH	00130200
				1427	ITRACE ID=GENRX GENERATE RX FORMAT INSTRUCTION	00130300
0012BA	45E0 B564	00564		1428+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0012BE	C7C5D5D9E7404040			1429+	DC CL8'GENRX' TRACE ID	00670000
0012C6	9101 B168	00168		1430	TM COMMOPFG,\$OFBCOP BC ONLY? GP10029	00130400
0012CA	4770 A2D6	012D6		1431	BNZ GENRX05 YES; IGNORE EXTENDED MNEMONIC GP10029	00130500
0012CE	9180 8007	00007		1432	TM OPFLAGS,\$OPEXT EXTENDED FORMATS?	00130600
0012D2	4710 A334	01334		1433	BO GENB000 YES	00130700
0012D6	F200 AB2B 4001	01B2B 00001		1434	GENRX05 PACK WORKREG(1),1(1,R4) FLIP REG #1 INTO LOW NYBBLE	00130800
0012DC	45F0 A5F2	015F2		1435	BAL R15,GENREG00 GENERATE REGISTER GP99146	00130900
0012E0	45F0 A5BC	015BC		1436	BAL R15,GENCOMMA INSERT COMMA GP99146	00131000
0012E4	D100 AB29 4001	01B29 00001		1437	MVN WORKX,1(R4) COPY INDEX REGISTER GP99132	00131100
0012EA	940F AB29	01B29		1438	NI WORKX,X'OF' RETAIN R3 ONLY GP99139	00131200
0012EE	92A0 AB28	01B28		1439	MVI WORKOPER,\$OPER1+\$OPERNDX	00131300
0012F2	4590 A644	01644		1440	BAL R9,GENOP000 GENERATE OPERAND GP99146	00131400
0012F6	47F0 C574	00574		1441	B GEN0340 COMPLETE	00131500
				1442	*-----*	00131600
				1443	*	00131700
				1444	* GENERATE RXA FORMAT INSTRUCTIONS	00131800
				1445	*	00131900
				1446	*-----*	00132000
0012FA				1447	GENRXA00 DS OH GP99132	00132100
				1448	ITRACE ID=GENRXA GENERATE RX FORMAT INSTRUCTION	00132200
0012FA	45E0 B564	00564		1449+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0012FE	C7C5D5D9E7C14040			1450+	DC CL8'GENRXA' TRACE ID	00670000
001306	D200 AB29 4001	01B29 00001		1451	MVC WORKX,1(R4) COPY INDEX REGISTER GP99132	00132300
00130C	940F AB29	01B29		1452	NI WORKX,X'OF' LEAVE ONLY INDEX REGISTER VALUE	00132400
001310	92A0 AB28	01B28		1453	MVI WORKOPER,\$OPER1+\$OPERNDX GP99132	00132500
001314	4590 A644	01644		1454	BAL R9,GENOP000 GENERATE OPERAND GP99132	00132600
001318	47F0 C574	00574		1455	B GEN0340 COMPLETE GP99132	00132700
				1457	*-----*	00132900
				1458	*	00133000
				1459	* GENERATE S FORMAT INSTRUCTIONS	00133100
				1460	*	00133200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
					1461	*	-----*				00133300
00131C					1462	GENS00	DS OH				00133400
					1463		ITRACE ID=GENS	GENERATE S FORMAT INSTRUCTION			00133500
00131C	45E0	B564		00564	1464+		BAL R14,TRACE000	ENTER TRACE ROUTINE			00640000
001320	C7C5D5E240404040				1465+		DC CL8'GENS'	TRACE ID			00670000
001328	9280	AB28		01B28	1466		MVI WORKOPER,\$OPER1	SET OPERAND 1			00133600
00132C	4590	A644		01644	1467		BAL R9,GENOP000	GENERATE OPERAND	GP99146		00133700
001330	47F0	C574		00574	1468		B GEN0340	COMPLETE			00133800
					1470	*	-----*				00134000
					1471	*					* 00134100
					1472	*	GENERATE BRANCH INSTRUCTIONS				* 00134200
					1473	*					* 00134300
					1474	*	-----*				* 00134400
001334					1475	GENB000	DS OH				00134500
					1476		ITRACE ID=GENBRNCH	GENERATE BRANCH INSTRUCTIONS			00134600
001334	45E0	B564		00564	1477+		BAL R14,TRACE000	ENTER TRACE ROUTINE			00640000
001338	C7C5D5C2D9D5C3C8				1478+		DC CL8'GENBRNCH'	TRACE ID			00670000
001340	1BEE				1479		SR R14,R14	CLEAR REGISTER			00134700
001342	43E0	4001		00001	1480		IC R14,1(,R4)	INSERT CONDITION CODE AND REGISTER			00134800
001346	88E0	0004		00004	1481		SRL R14,4	SHIFT MASK INTO LOW BITS			00134900
00134A	D703	AB24	AB24	01B24	01B24	1482	XC WORKNBR,WORKNBR	ZERO BYTE 1			00135000
001350	42E0	AB27		01B27	1483		STC R14,WORKNBR+3	SET BYTE 4			00135100
001354	9108	AB2F		01B2F	1484		TM SAVEFLAG,\$OPCCA	ARITHMETIC MNEMONICS?			00135200
001358	4710	A36C		0136C	1485		BO GENB010	YES			00135300
00135C	9104	AB2F		01B2F	1486		TM SAVEFLAG,\$OPCCC	COMPARE MNEMONICS?			00135400
001360	4710	A374		01374	1487		BO GENB020	YES			00135500
001364	5810	AA2C		01A2C	1488		L R1,=A(GENBCCL)	RR FORM3 EXTENDED MNEMONICS	GP10075		00135600
001368	47F0	A378		01378	1489		B GENB030				00135700
00136C					1490	GENB010	DS OH				00135800
00136C	5810	AA30		01A30	1491		L R1,=A(GENBCCA)	ARITHMETIC MNEMONICS	GP10075		00135900
001370	47F0	A378		01378	1492		B GENB030				00136000
001374					1493	GENB020	DS OH				00136100
001374	5810	AA34		01A34	1494		L R1,=A(GENBCCC)	COMPARE MNEMONICS	GP10075		00136200
001378					1495	GENB030	DS OH				00136300
001378	95FF	1000		00000	1496		CLI 0(R1),X'FF'	EXTENDED MNEMONIC NOT FOUND?			00136400
00137C	4780	A390		01390	1497		BE GENB040	NO			00136500
001380	BDE1	1000		00000	1498		CLM R14,1,0(R1)	MASK FOUND?			00136600
001384	4780	A3A2		013A2	1499		BE GENB050	YES			00136700
001388	4110	1007		00007	1500		LA R1,7(,R1)	NEXT MASK/EXTENDED MNEMONIC			00136800
00138C	47F0	A378		01378	1501		B GENB030	LOOP			00136900
001390					1502	GENB040	DS OH				00137000
001390	D204	AC4D	ABB0	01C4D	01BB0	1503	MVC SRCMNM,BCOPCD	SET OPCODE TO 'BC'			00137100
001396	45F0	A7B6		017B6	1504		BAL R15,GENNBRO0	GENERATE MASK	GP99146		00137200
00139A	45F0	A5BC		015BC	1505		BAL R15,GENCOMMA	GENRATE COMMA	GP99146		00137300
00139E	47F0	A3A8		013A8	1506		B GENB060				00137400
0013A2					1507	GENB050	DS OH				00137500
0013A2	D204	AC4D	1001	01C4D	00001	1508	MVC SRCMNM,1(R1)	SET EXTENDED MNEMONIC			00137600
0013A8					1509	GENB060	DS OH				00137700
0013A8	92A0	AB28		01B28	1510		MVI WORKOPER,\$OPER1+\$OPERNDX				00137800
0013AC	D200	AB29	4001	01B29	00001	1511	MVC WORKX,1(R4)	COPY INDEX REGISTER			00137900
0013B2	940F	AB29		01B29	1512		NI WORKX,X'OF'	LEAVE ONLY INDEX REGISTER VALUE			00138000
0013B6	4590	A644		01644	1513		BAL R9,GENOP000	GENERATE OPERAND	GP99146		00138100
0013BA	47F0	C574		00574	1514		B GEN0340	COMPLETE			00138200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					1516	*-----*	00138400
					1517	*	00138500
					1518	* GENERATE SI FORMAT INSTRUCTIONS	00138600
					1519	*	00138700
					1520	*-----*	00138800
0013BE					1521	GENSI00 DS OH	00138900
					1522	ITRACE ID=GENSI GENERATE SI FORMAT INSTRUCTION	00139000
0013BE	45E0	B564	00564		1523+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0013C2	C7C5D5E2C94040				1524+	DC CL8'GENSI' TRACE ID	00670000
0013CA	9280	AB28	01B28		1525	MVI WORKOPER,\$OPER1 OPERAND 1	00139100
0013CE	4590	A644	01644		1526	BAL R9,GENOP000 GENERATE OPERAND GP99146	00139200
0013D2	58F0	AAEC	01AEC		1527	L R15,GENADDR CURRENT OUTPUT ADDRESS	00139300
0013D6	D202	F000	ABBA 00000	01BBA	1528	MVC 0(3,R15),GENSIDLM INSERT COMMA AND X'	00139400
0013DC	D201	F003	AC25 00003	01C25	1529	MVC 3(2,R15),SRCOBJ1+2 COPY THE VALUE	00139500
0013E2	927D	F005	00005		1530	MVI 5(R15),C'''' INSERT CLOSING QUOTE	00139600
0013E6	47F0	C574	00574		1531	B GEN0340 COMPLETE	00139700
					1533	*-----*	00139900
					1534	*	00140000
					1535	* GENERATE RSI FORMAT INSTRUCTIONS	00140100
					1536	*	00140200
					1537	*-----*	00140300
0013EA					1538	GENRSI00 DS OH GP99132	00140400
					1539	ITRACE ID=GENRSI GENERATE SHIFT TYPE INSTRUCTIONS	00140500
0013EA	45E0	B564	00564		1540+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
0013EE	C7C5D5D9E2C94040				1541+	DC CL8'GENRSI' TRACE ID	00670000
0013F6	F200	AB2B 4001	01B2B 00001		1542	PACK WORKREG(1),1(1,R4) FLIP REG #1 INTO LOW NYBBLE	00140600
0013FC	45F0	A5F2	015F2		1543	BAL R15,GENREG00 GENERATE REGISTER GP99132	00140700
001400	45F0	A5BC	015BC		1544	BAL R15,GENCOMMA GENERATE COMMA GP99132	00140800
001404	D100	AB2B 4001	01B2B 00001		1545	MVN WORKREG,1(R4) GET R2 GP99132	00140900
00140A	45F0	A5F2	015F2		1546	BAL R15,GENREG00 GENERATE REGISTER GP99132	00141000
00140E	45F0	A5BC	015BC		1547	BAL R15,GENCOMMA GENERATE COMMA GP99132	00141100
001412	D703	AB24 AB24	01B24 01B24		1548	XC WORKNBR,WORKNBR CLEAR GP99132	00141200
001418	D201	AB26 4002	01B26 00002		1549	MVC WORKNBR+2(2),2(R4) GET IMMEDIATE OPERAND GP99132	00141300
00141E	45F0	A7B6	017B6		1550	BAL R15,GENNBROO GENERATE NUMERIC GP99132	00141400
001422	47F0	C574	00574		1551	B GEN0340 COMPLETE GP99132	00141500
					1552	*-----*	00141600
					1553	*	00141700
					1554	* GENERATE RS FORMAT INSTRUCTIONS (SHIFTS)	00141800
					1555	*	00141900
					1556	*-----*	00142000
001426					1557	GENRS100 DS OH	00142100
					1558	ITRACE ID=GENRS1 GENERATE SHIFT TYPE INSTRUCTIONS	00142200
001426	45E0	B564	00564		1559+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00142A	C7C5D5D9E2F14040				1560+	DC CL8'GENRS1' TRACE ID	00670000
001432	F200	AB2B 4001	01B2B 00001		1561	PACK WORKREG(1),1(1,R4) FLIP REG #1 INTO LOW NYBBLE	00142300
001438	45F0	A5F2	015F2		1562	BAL R15,GENREG00 GENERATE REGISTER GP99146	00142400
00143C	45F0	A5BC	015BC		1563	BAL R15,GENCOMMA GENERATE COMMA GP99146	00142500
001440	9280	AB28	01B28		1564	MVI WORKOPER,\$OPER1 OPERAND 1	00142600
001444	4590	A644	01644		1565	BAL R9,GENOP000 GENERATE OPERAND GP99146	00142700
001448	47F0	C574	00574		1566	B GEN0340 COMPLETE	00142800
					1568	*-----*	00143000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				1569 *		* 00143100
				1570 *	GENERATE RS FORMAT INSTRUCTIONS (BXH, BXLE, ..)	* 00143200
				1571 *		* 00143300
				1572 *-----*		* 00143400
00144C				1573 GENRS200 DS OH		00143500
				1574 ITRACE ID=GENRS2	GENERATE BXH, BXLE, ..	00143600
00144C 45E0 B564	00564			1575+ BAL R14,TRACE000	ENTER TRACE ROUTINE	00640000
001450 C7C5D5D9E2F24040				1576+ DC CL8'GENRS2'	TRACE ID	00670000
001458 F200 AB2B 4001 01B2B 00001				1577 PACK WORKREG(1),1(1,R4)	FLIP REG #1 INTO LOW NYBBLE	00143700
00145E 45F0 A5F2	015F2			1578 BAL R15,GENREG00	GENERATE REGISTER GP99146	00143800
001462 45F0 A5BC	015BC			1579 BAL R15,GENCOMMA	GENERATE COMMA GP99146	00143900
001466 D200 AB2B 4001 01B2B 00001				1580 MVC WORKREG,1(R4)	SET R3	00144000
00146C 45F0 A5F2	015F2			1581 BAL R15,GENREG00	GENERATE REGISTER GP99146	00144100
001470 45F0 A5BC	015BC			1582 BAL R15,GENCOMMA	GENERATE COMMA GP99146	00144200
001474 9280 AB28	01B28			1583 MVI WORKOPER,\$OPER1	OPERAND 1	00144300
001478 4590 A644	01644			1584 BAL R9,GENOP000	GENERATE OPERAND GP99146	00144400
00147C 47F0 C574	00574			1585 B GEN0340	DONE	00144500
				1587 *-----*		* 00144700
				1588 *		* 00144800
				1589 *	GENERATE RS FORMAT INSTRUCTIONS (CLM, ICM, ..)	* 00144900
				1590 *		* 00145000
				1591 *-----*		* 00145100
001480				1592 GENRS300 DS OH		00145200
				1593 ITRACE ID=GENRS3	GENERATE CLM, ICM..	00145300
001480 45E0 B564	00564			1594+ BAL R14,TRACE000	ENTER TRACE ROUTINE	00640000
001484 C7C5D5D9E2F34040				1595+ DC CL8'GENRS3'	TRACE ID	00670000
00148C F200 AB2B 4001 01B2B 00001				1596 PACK WORKREG(1),1(1,R4)	FLIP REG #1 INTO LOW NYBBLE	00145400
001492 45F0 A5F2	015F2			1597 BAL R15,GENREG00	GENERATE REGISTER GP99146	00145500
001496 45F0 A5BC	015BC			1598 BAL R15,GENCOMMA	GENERATE COMMA GP99146	00145600
00149A D703 AB24 AB24 01B24 01B24				1599 XC WORKNBR,WORKNBR	SET WORK NUMERIC	00145700
0014A0 D200 AB27 4001 01B27 00001				1600 MVC WORKNBR+3(1),1(R4)	COPY MASK	00145800
0014A6 940F AB27	01B27			1601 NI WORKNBR+3,X'0F'	LEAVE ONLY MASK	00145900
0014AA 45F0 A7B6	017B6			1602 BAL R15,GENNBROO	GENERATE MASK GP99146	00146000
0014AE 45F0 A5BC	015BC			1603 BAL R15,GENCOMMA	GENERATE COMMA GP99146	00146100
0014B2 9280 AB28	01B28			1604 MVI WORKOPER,\$OPER1	SET FOR OPERAND 1	00146200
0014B6 4590 A644	01644			1605 BAL R9,GENOP000	GENERATE LABEL GP99146	00146300
0014BA 47F0 C574	00574			1606 B GEN0340	DONE	00146400
				1608 *-----*		* 00146600
				1609 *		* 00146700
				1610 *	GENERATE SS CHARACTER INSTRUCTIONS	* 00146800
				1611 *		* 00146900
				1612 *-----*		* 00147000
0014BE				1613 GENSS100 DS OH		00147100
				1614 ITRACE ID=GENSS1	GENERATE SS CHARACTER INSTRUCTIONS	00147200
0014BE 45E0 B564	00564			1615+ BAL R14,TRACE000	ENTER TRACE ROUTINE	00640000
0014C2 C7C5D5E2E2F14040				1616+ DC CL8'GENSS1'	TRACE ID	00670000
0014CA D200 AB29 4001 01B29 00001				1617 MVC WORKX,1(R4)	SET LENGTH	00147300
				1618 *NO*NO* NI WORKX,X'0F'	LEAVE ONLY INDEX REGISTER GP05169	00147400
0014D0 9290 AB28	01B28			1619 MVI WORKOPER,\$OPER1+\$OPERL		00147500
0014D4 4590 A644	01644			1620 BAL R9,GENOP000	GENERATE LABEL 1 GP99146	00147600
0014D8 45F0 A5BC	015BC			1621 BAL R15,GENCOMMA	GENERATE COMMA GP99146	00147700

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0014DC	9240 AB28	01B28		1622	MVI WORKOPER,\$OPER2	OPERAND 2, NO LENGTH 00147800
0014E0	4590 A644	01644		1623	BAL R9,GENOP000	GENERATE LABEL 2 GP99146 00147900
0014E4	47F0 C574	00574		1624	B GEN0340	COMPLETE 00148000
				1626	*-----*	00148200
				1627	*	* 00148300
				1628	* GENERATE SS PACKED DECIMAL INSTRUCTIONS	* 00148400
				1629	*	* 00148500
				1630	*-----*	00148600
0014E8				1631	GENSS200 DS OH	00148700
				1632	ITRACE ID=GENSS2	GENERATE SS CHARACTER INSTRUCTIONS 00148800
0014E8	45E0 B564	00564		1633+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
0014EC	C7C5D5E2E2F24040			1634+	DC CL8'GENSS2'	TRACE ID 00670000
0014F4	F200 AB29	4001 01B29	00001	1635	PACK WORKX(1),1(1,R4)	FLIP REG #3 INTO LOW NYBBLE 00148900
0014FA	940F AB29	01B29		1636	NI WORKX,X'OF'	LEAVE ONLY L2 GP99139 00149000
0014FE	9290 AB28	01B28		1637	MVI WORKOPER,\$OPER1+\$OPERL	00149100
001502	4590 A644	01644		1638	BAL R9,GENOP000	GENERATE OPERAND 1 GP99146 00149200
001506	45F0 A5BC	015BC		1639	BAL R15,GENCOMMA	GENERATE COMMA GP99146 00149300
00150A	D200 AB29	4001 01B29	00001	1640	MVC WORKX,1(R4)	COPY LENGTHS 00149400
001510	940F AB29	01B29		1641	NI WORKX,X'OF'	LEAVE ONLY L2 00149500
001514	9250 AB28	01B28		1642	MVI WORKOPER,\$OPER2+\$OPERL	00149600
001518	4590 A644	01644		1643	BAL R9,GENOP000	GENERATE OPERAND 2 GP99146 00149700
00151C	47F0 C574	00574		1644	B GEN0340	COMPLETE 00149800
				1646	*-----*	00150000
				1647	*	* 00150100
				1648	* GENERATE SS (MVCP, MVCS, MVCK)	* 00150200
				1649	*	* 00150300
				1650	*-----*	00150400
001520				1651	GENSS300 DS OH	00150500
				1652	ITRACE ID=GENSS3	GENERATE SS CHARACTER INSTRUCTIONS 00150600
001520	45E0 B564	00564		1653+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
001524	C7C5D5E2E2F34040			1654+	DC CL8'GENSS3'	TRACE ID 00670000
00152C	F200 AB29	4001 01B29	00001	1655	PACK WORKX(1),1(1,R4)	FLIP REG #3 INTO LOW NYBBLE 00150700
001532	940F AB29	01B29		1656	NI WORKX,X'OF'	RETAIN R3 ONLY GP99139 00150800
001536	92A0 AB28	01B28		1657	MVI WORKOPER,\$OPER1+\$OPERNDX	00150900
00153A	4590 A644	01644		1658	BAL R9,GENOP000	GENERATE OPERAND GP99146 00151000
00153E	45F0 A5BC	015BC		1659	BAL R15,GENCOMMA	GENERATE COMMA GP99146 00151100
001542	9240 AB28	01B28		1660	MVI WORKOPER,\$OPER2	OPERAND 2 00151200
001546	4590 A644	01644		1661	BAL R9,GENOP000	GENERATE OPERAND GP99146 00151300
00154A	45F0 A5BC	015BC		1662	BAL R15,GENCOMMA	GENERATE COMMA GP99146 00151400
00154E	D200 AB2B	4001 01B2B	00001	1663	MVC WORKREG,1(R4)	COPY R1 AND R3 00151500
001554	45F0 A5F2	015F2		1664	BAL R15,GENREG00	GENERATE R3 GP99146 00151600
001558	47F0 C574	00574		1665	B GEN0340	COMPLETE 00151700
				1666	*-----*	00151800
				1667	*	* 00151900
				1668	* GENERATE SS (SRP)	* 00152000
				1669	*	* 00152100
				1670	*-----*	00152200
00155C				1671	GENSS400 DS OH	00152300
				1672	ITRACE ID=GENSS4	GENERATE SS CHARACTER INSTRUCTIONS 00152400
00155C	45E0 B564	00564		1673+	BAL R14,TRACE000	ENTER TRACE ROUTINE 00640000
001560	C7C5D5E2E2F44040			1674+	DC CL8'GENSS4'	TRACE ID 00670000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001568	F200	AB29	4001	01B29	00001	1675	PACK WORKX(1),1(1,R4) FLIP REG #3 INTO LOW NYBBLE	00152500
00156E	940F	AB29		01B29		1676	NI WORKX,X'OF' RETAIN R3 ONLY	GP99139 00152600
001572	9290	AB28		01B28		1677	MVI WORKOPER,\$OPER1+\$OPERL	00152700
001576	4590	A644		01644		1678	BAL R9,GENOP000 GENERATE OPERAND	GP99146 00152800
00157A	45F0	A5BC		015BC		1679	BAL R15,GENCOMMA GENERATE COMMA	GP99146 00152900
00157E	9240	AB28		01B28		1680	MVI WORKOPER,\$OPER2 OPERAND 2	00153000
001582	4590	A644		01644		1681	BAL R9,GENOP000 GENERATE OPERAND	GP99146 00153100
001586	45F0	A5BC		015BC		1682	BAL R15,GENCOMMA GENERATE COMMA	GP99146 00153200
00158A	D200	AB2B	4001	01B2B	00001	1683	MVC WORKREG,1(R4) COPY R1 AND R3	00153300
001590	45F0	A5F2		015F2		1684	BAL R15,GENREG00 GENERATE R3	GP99146 00153400
001594	47F0	C574		00574		1685	B GEN0340 COMPLETE	00153500
						1686	*-----*	00153600
						1687	*	00153700
						1688	* GENERATE SSE FORMAT INSTRUCTIONS *	00153800
						1689	*	00153900
						1690	*-----*	00154000
001598						1691	GENSSE00 DS OH	GP99132 00154100
						1692	ITRACE ID=GENSSE GENERATE SS CHARACTER INSTRUCTIONS	00154200
001598	45E0	B564		00564		1693+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00159C	C7C5D5E2E2C54040					1694+	DC CL8'GENSSE' TRACE ID	00670000
0015A4	9280	AB28		01B28		1695	MVI WORKOPER,\$OPER1 NO LENGTH FIELDS	GP99132 00154300
0015A8	4590	A644		01644		1696	BAL R9,GENOP000 GENERATE LABEL 1	GP99132 00154400
0015AC	45F0	A5BC		015BC		1697	BAL R15,GENCOMMA GENERATE COMMA	GP99132 00154500
0015B0	9240	AB28		01B28		1698	MVI WORKOPER,\$OPER2 OPERAND 2, NO LENGTH	GP99132 00154600
0015B4	4590	A644		01644		1699	BAL R9,GENOP000 GENERATE LABEL 2	GP99132 00154700
0015B8	47F0	C574		00574		1700	B GEN0340 COMPLETE	GP99132 00154800
						1701	*-----*	00154900
						1702	*	00155000
						1703	* GENERATE COMMAS *	00155100
						1704	*	00155200
						1705	* R15 IS THE RETURN ADDRESS *	00155300
						1706	*	00155400
						1707	*-----*	00155500
0015BC						1708	GENCOMMA DS OH	00155600
0015BC	58E0	AAEC		01AEC		1709	L R14,GENADDR CURRENT ADDRESS	00155700
0015C0	926B	E000		00000		1710	MVI 0(R14),C',' INSERT COMMA	00155800
0015C4	41E0	E001		00001		1711	LA R14,1(,R14) NEXT	00155900
0015C8	50E0	AAEC		01AEC		1712	ST R14,GENADDR SAVE ADDRESS	00156000
0015CC	07FF					1713	BR R15 DONE	00156100
						1714	*-----*	00156200
						1715	*	00156300
						1716	* GENERATE OPEN PARENTHESIS *	00156400
						1717	*	00156500
						1718	* R15 IS THE RETURN ADDRESS *	00156600
						1719	*	00156700
						1720	*-----*	00156800
0015CE						1721	GENPRN1 DS OH	00156900
0015CE	58E0	AAEC		01AEC		1722	L R14,GENADDR CURRENT ADDRESS	00157000
0015D2	924D	E000		00000		1723	MVI 0(R14),C'(' INSERT OPEN PARENTHESIS	00157100
0015D6	41E0	E001		00001		1724	LA R14,1(,R14) NEXT	00157200
0015DA	50E0	AAEC		01AEC		1725	ST R14,GENADDR SAVE ADDRESS	00157300
0015DE	07FF					1726	BR R15 DONE	00157400
						1727	*-----*	00157500
						1728	*	00157600
						1729	* GENERATE CLOSE PARENTHESIS *	00157700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					1730 *		* 00157800
					1731 * R15 IS THE RETURN ADDRESS		* 00157900
					1732 *		* 00158000
					1733 *-----*		* 00158100
0015E0					1734 GENPRN2 DS OH		00158200
0015E0 58E0 AAEC		01AEC			1735 L R14,GENADDR	CURRENT ADDRESS	00158300
0015E4 925D E000		00000			1736 MVI 0(R14),C')'	INSERT CLOSE PARENTHESIS	00158400
0015E8 41E0 E001		00001			1737 LA R14,1(,R14)	NEXT	00158500
0015EC 50E0 AAEC		01AEC			1738 ST R14,GENADDR	SAVE ADDRESS	00158600
0015F0 07FF					1739 BR R15	DONE	00158700
					1740 *-----*		* 00158800
					1741 *		* 00158900
					1742 * GENERATE REGISTERS		* 00159000
					1743 *		* 00159100
					1744 * WORKREG IS THE VALUE OF THE REGISTER TO GENERATE @ GENREG00		* 00159200
					1745 * ELSE R1 HAS REGISTER NUMBER FOR ENTRY AT GENREG01		* 00159300
					1746 * R15 IS THE RETURN ADDRESS		* 00159400
					1747 *		* 00159500
					1748 *-----*		* 00159600
0015F2 4110 000F		0000F			1749 GENREG00 LA R1,X'OF'	MAKE MASK FOR REGISTER NUMBER	GP99139 00159700
0015F6 5410 AB28		01B28			1750 N R1,WORKREG-3	INSERT REGISTER VALUE	GP99139 00159800
0015FA 8910 0001		00001			1751 GENREG01 SLL R1,1	MULTIPLY BY 2	00159900
0015FE 58E0 AAEC		01AEC			1752 L R14,GENADDR	CURRENT ADDRESS IN OPER AREA	GP10055 00160000
001602 92D9 E000		00000			1753 MVI 0(R14),C'R'	SET REGISTER PREFIX	00160100
001606 4100 B2A5		002A5			1754 LA R0,COMMNR	GET ONE/TWO DIGIT REGS	GP10055 00160200
00160A 9102 B168		00168			1755 TM COMMPFG,\$OFPLSR	USER WANTS PL/S STYLE ?	GP10055 00160300
00160E 4780 A61A		0161A			1756 BZ GENREG03	NO; LEAVE MNEMONIC	GP10055 00160400
001612 927C E000		00000			1757 MVI 0(R14),C'@'	SET REGISTER PREFIX	GP10055 00160500
001616 4100 AACC		01ACC			1758 LA R0,REGNAME	GET ALL TWO DIGIT REGS	GP10055 00160600
00161A 1A10					1759 GENREG03 AR R1,R0	GET REGISTER NUMBER	GP10055 00160700
00161C 9104 B168		00168			1760 TM COMMPFG,\$OFABSR	USER WANTS ABSOLUTE REGISTER?	GP10029 00160800
001620 4770 A628		01628			1761 BNZ GENREG05	NO; LEAVE MNEMONIC	GP10055 00160900
001624 41E0 E001		00001			1762 LA R14,1(,R14)	SPACE OVER R/@	GP10055 00161000
001628 D201 E000 1000		00000 00000			1763 GENREG05 MVC 0(2,R14),0(R1)	COPY REGISTER VALUE	00161100
00162E 41E0 E001		00001			1764 LA R14,1(,R14)	MINIMUM LENGTH	GP10055 00161200
001632 9540 E000		00000			1765 CLI 0(R14),C' '	ONE DIGIT ?	00161300
001636 4780 A63E		0163E			1766 BE GENREG10	YES	00161400
00163A 41E0 E001		00001			1767 LA R14,1(,R14)	2 DIGIT REGISTER NUMBER	00161500
00163E 50E0 AAEC		01AEC			1768 GENREG10 ST R14,GENADDR	SAVE CURRENT ADDRESS	00161600
001642 07FF					1769 BR R15	DONE	00161700
					1770 *-----*		* 00161800
					1771 *		* 00161900
					1772 * GENERATE DATA OPERANDS WITH OR WITHOUT INDEX		* 00162000
					1773 *		* 00162100
					1774 * WORKOPER FLAGS CONTROL GENERATED SOURCE		* 00162200
					1775 *		* 00162300
					1776 * R9 IS THE RETURN ADDRESS		* 00162400
					1777 *		* 00162500
					1778 *-----*		* 00162600
001644					1779 GENOP000 DS OH		00162700
					1780 DROP R5		00162800
			00000		1781 USING LABLDSC,T,R2	DEFINE BASE	00162900
001644 5530 AB20		01B20			1782 CL R3,DISPR	LABEL REFERENCE?	GP99146 00163000
001648 4770 A6F0		016F0			1783 BNE GENOP070	NO	00163100
00164C 9140 AB28		01B28			1784 TM WORKOPER,\$OPER2	OPERAND 2?	00163200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001650	4710	A666	01666		1785	BO	GENOP010	YES 00163300
001654	D203	AB24 6014	01B24	00014	1786	MVC	WORKNBR,REFDISP1	COPY DISPLACEMENT 00163400
00165A	BF2F	600C	0000C		1787	ICM	R2,15,REFOPER1	LABEL REFERENCE? 00163500
00165E	4780	A6F8	016F8		1788	BZ	GENOP080	LABEL NOT REFERENCED 00163600
001662	47F0	A674	01674		1789	B	GENOP020	00163700
001666					1790	GENOP010 DS	OH	00163800
001666	D203	AB24 6018	01B24	00018	1791	MVC	WORKNBR,REFDISP2	COPY DISPLACEMENT 00163900
00166C	BF2F	6010	00010		1792	ICM	R2,15,REFOPER2	LABEL REFERENCE? 00164000
001670	4780	A70E	0170E		1793	BZ	GENOP090	LABEL NOT REFERENCED 00164100
001674					1794	GENOP020 DS	OH	00164200
001674	58E0	AAEC	01AEC		1795	L	R14,GENADDR	CURRENT ADDRESS IN SRCOPER 00164300
001678	D207	E000 200C	00000	0000C	1796	MVC	O(L' LABLNAME,R14),LABLNAME	00164400
00167E					1797	GENOP030 DS	OH	00164500
00167E	9540	E000	00000		1798	CLI	O(R14),C' '	BLANK? 00164600
001682	4780	A68E	0168E		1799	BE	GENOP040	YES 00164700
001686	41E0	E001	00001		1800	LA	R14,1(,R14)	NEXT 00164800
00168A	47F0	A67E	0167E		1801	B	GENOP030	LOOP 00164900
00168E					1802	GENOP040 DS	OH	00165000
00168E	50E0	AAEC	01AEC		1803	ST	R14,GENADDR	SAVE ADDRESS 00165100
001692	D603	AB24 AB24	01B24	01B24	1804	OC	WORKNBR,WORKNBR	DISPLACEMENT ZERO? 00165200
001698	4780	A6AC	016AC		1805	BZ	GENOP050	YES, DIRECT REFERENCE 00165300
00169C	924E	E000	00000		1806	MVI	O(R14),C'+'	INSERT PLUS 00165400
0016A0	41E0	E001	00001		1807	LA	R14,1(,R14)	NEXT 00165500
0016A4	50E0	AAEC	01AEC		1808	ST	R14,GENADDR	SAVE ADDRESS 00165600
0016A8	45F0	A7B6	017B6		1809	BAL	R15,GENNBROO	GENERATE DISPLACEMENT GP99146 00165700
0016AC					1810	GENOP050 DS	OH	00165800
0016AC	9110	AB28	01B28		1811	TM	WORKOPER,\$OPERL	LENGTH WITH OPERAND? 00165900
0016B0	4710	A6D4	016D4		1812	BO	GENOP060	YES 00166000
0016B4	9120	AB28	01B28		1813	TM	WORKOPER,\$OPERNDX	INDEX WITH OPERAND? 00166100
0016B8	07E9				1814	BNOR	R9	NO, DONE 00166200
0016BA	9500	AB29	01B29		1815	CLI	WORKX,0	INDEX ZERO? 00166300
0016BE	0789				1816	BER	R9	YES 00166400
0016C0	45F0	A5CE	015CE		1817	BAL	R15,GENPRN1	OPEN PARENTHESIS GP99146 00166500
0016C4	D200	AB2B AB29	01B2B	01B29	1818	MVC	WORKREG,WORKX	SET REGISTER 00166600
0016CA	45F0	A5F2	015F2		1819	BAL	R15,GENREG00	GEN REGISTER GP99146 00166700
0016CE	45F0	A5E0	015E0		1820	BAL	R15,GENPRN2	CLOSE PARENTHESIS GP99146 00166800
0016D2	07F9				1821	BR	R9	DONE 00166900
0016D4					1822	GENOP060 DS	OH	00167000
0016D4	45F0	A5CE	015CE		1823	BAL	R15,GENPRN1	OPEN PARENTHESIS GP99146 00167100
0016D8	1B11				1824	SR	R1,R1	CLEAR REGISTER 00167200
0016DA	4310	AB29	01B29		1825	IC	R1,WORKX	INSERT LENGTH 00167300
0016DE	4110	1001	00001		1826	LA	R1,1(,R1)	PLUS 1 00167400
0016E2	5010	AB24	01B24		1827	ST	R1,WORKNBR	SET LENGTH GP99161 00167500
0016E6	45F0	A7B6	017B6		1828	BAL	R15,GENNBROO	GEN LENGTH GP99146 00167600
0016EA	45F0	A5E0	015E0		1829	BAL	R15,GENPRN2	CLOSE PARENTHESIS GP99146 00167700
0016EE	07F9				1830	BR	R9	DONE 00167800
0016F0					1831	GENOP070 DS	OH	00167900
0016F0	9140	AB28	01B28		1832	TM	WORKOPER,\$OPER2	OPERAND 2? 00168000
0016F4	4710	A70E	0170E		1833	BO	GENOP090	YES 00168100
0016F8					1834	GENOP080 DS	OH	00168200
0016F8	D703	AB24 AB24	01B24	01B24	1835	XC	WORKNBR,WORKNBR	CLEAR WORK NUMERIC 00168300
0016FE	D201	AB26 4002	01B26	00002	1836	MVC	WORKNBR+2(2),2(R4)	COPY DISPLACEMENT 00168400
001704	1B11				1837	SR	R1,R1	CLEAR REGISTER 00168500
001706	4310	4002	00002		1838	IC	R1,2(,R4)	INSERT BASE 1 00168600
00170A	47F0	A720	01720		1839	B	GENOP100	00168700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00170E					1840	GENOP090	DS OH	00168800
00170E	D703	AB24	AB24	01B24	01B24	1841	XC WORKNBR,WORKNBR	CLEAR WORK NUMERIC 00168900
001714	D201	AB26	4004	01B26	00004	1842	MVC WORKNBR+2(2),4(R4)	COPY DISPLACEMENT 00169000
00171A	1B11					1843	SR R1,R1	CLEAR REGISTER 00169100
00171C	4310	4004		00004		1844	IC R1,4(,R4)	INSERT BASE 2 00169200
001720					1845	GENOP100	DS OH	00169300
001720	940F	AB26		01B26		1846	NI WORKNBR+2,X'0F'	LEAVE ONLY DISPLACEMENT 00169400
001724	8810	0004		00004		1847	SRL R1,4	SHIFT TO LOW BITS 00169500
001728	4210	AB2A		01B2A		1848	STC R1,WORKBASE	SAVE BASE 00169600
00172C	45F0	A7B6		017B6		1849	BAL R15,GENNBROO	GENERATE DISPLACEMENT GP99146 00169700
001730	9110	AB28		01B28		1850	TM WORKOPER,\$OPERL	LENGTH WITH OPERAND? 00169800
001734	4710	A752		01752		1851	BO GENOP120	YES 00169900
001738	9120	AB28		01B28		1852	TM WORKOPER,\$OPERNDX	INDEX WITH OPERAND? 00170000
00173C	47E0	A74C		0174C		1853	BNO GENOP110	NO 00170100
001740	D601	AB29	AB29	01B29	01B29	1854	OC WORKX(2),WORKX	BASE AND INDEX ZERO? 00170200
001746	0789					1855	BZR R9	YES, DONE 00170300
001748	47F0	A752		01752		1856	B GENOP120	00170400
00174C						1857	GENOP110 DS OH	00170500
00174C	9500	AB2A		01B2A		1858	CLI WORKBASE,0	BASE ZERO? 00170600
001750	0789					1859	BER R9	YES, DONE 00170700
001752						1860	GENOP120 DS OH	00170800
001752	45F0	A5CE		015CE		1861	BAL R15,GENPRN1	OPEN PARENTHESIS GP99146 00170900
001756	9120	AB28		01B28		1862	TM WORKOPER,\$OPERNDX	INDEX? 00171000
00175A	47E0	A77C		0177C		1863	BNO GENOP140	NO 00171100
00175E	9500	AB29		01B29		1864	CLI WORKX,0	INDEX ZERO? 00171200
001762	4780	A778		01778		1865	BE GENOP130	YES 00171300
001766	D200	AB2B	AB29	01B2B	01B29	1866	MVC WORKREG,WORKX	SET REGISTER 00171400
00176C	45F0	A5F2		015F2		1867	BAL R15,GENREG00	GEN INDEX GP99146 00171500
001770	9500	AB2A		01B2A		1868	CLI WORKBASE,0	BASE ZERO? 00171600
001774	4780	A7B0		017B0		1869	BE GENOP160	YES 00171700
001778						1870	GENOP130 DS OH	00171800
001778	45F0	A5BC		015BC		1871	BAL R15,GENCOMMA	GEN COMMA GP99146 00171900
00177C						1872	GENOP140 DS OH	00172000
00177C	9110	AB28		01B28		1873	TM WORKOPER,\$OPERL	LENGTH PRESENT? 00172100
001780	47E0	A79E		0179E		1874	BNO GENOP150	NO 00172200
001784	1B11					1875	SR R1,R1	CLEAR REGISTER 00172300
001786	4310	AB29		01B29		1876	IC R1,WORKX	INSERT LENGTH 00172400
00178A	4110	1001		00001		1877	LA R1,1(,R1)	PLUS 1 00172500
00178E	5010	AB24		01B24		1878	ST R1,WORKNBR	SET LENGTH 00172600
001792	45F0	A7B6		017B6		1879	BAL R15,GENNBROO	GENERATE LENGTH GP99146 00172700
001796	45F0	A5BC		015BC		1880	BAL R15,GENCOMMA	GEN COMMA GP99146 00172800
00179A	47F0	A7A6		017A6		1881	B GENOP152	GP10034 00172900
00179E						1882	GENOP150 DS OH	00173000
00179E	9500	AB2A		01B2A		1883	CLI WORKBASE,0	BASE ZERO? 00173100
0017A2	4780	A7B0		017B0		1884	BE GENOP160	YES 00173200
0017A6	D200	AB2B	AB2A	01B2B	01B2A	1885	GENOP152 MVC WORKREG,WORKBASE	SET REGISTER 00173300
0017AC	45F0	A5F2		015F2		1886	BAL R15,GENREG00	GENERATE BASE REGISTER GP99146 00173400
0017B0						1887	GENOP160 DS OH	00173500
0017B0	45F0	A5E0		015E0		1888	BAL R15,GENPRN2	CLOSING PARENTHESIS GP99146 00173600
0017B4	07F9					1889	BR R9	DONE 00173700
					1890	*	-----*	00173800
					1891	*		* 00173900
					1892	*	GENERATE LENGTHS/DISPLACEMENTS	* 00174000
					1893	*		* 00174100
					1894	*	WORKNBR WILL BE SET TO THE LENGTH OR DISPLACEMENT VALUE	* 00174200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					1895 *		* 00174300
					1896 * R15 IS THE RETURN ADDRESS		* 00174400
					1897 *		* 00174500
					1898 *-----*		* 00174600
0017B6					1899 GENNBROO DS OH		00174700
0017B6	50F0	AAFO	01AF0		1900 ST R15,GENNBRSV SAVE R15	GP99161	00174800
0017BA	5810	AB24	01B24		1901 L R1,WORKNBR DISPLACEMENT VALUE		00174900
0017BE	4E10	B000	00000		1902 CVD R1,COMMDWRD CONVERT TO DECIMAL		00175000
0017C2	D20B	AB30	AB80	01B30 01B80	1903 MVC DISPCWORK,DISPEDWD INITIALIZE WITH EDIT WORD		00175100
0017C8	4110	AB3B	01B3B		1904 LA R1,DISPCWORK+L'DISPCWORK-1 POINT TO LAST BYTE	GP99170	00175200
0017CC	18F1				1905 LR R15,R1 AND RETAIN IT FOR LENGTH	GP99170	00175300
0017CE	DF0B	AB30	B002	01B30 00002	1906 EDMK DISPCWORK,COMMDWRD+2 EDIT DISPLACEMENT	GP99170	00175400
0017D4	58E0	AAEC	01AEC		1907 L R14,GENADDR CURRENT OUTPUT ADDRESS		00175500
0017D8	1BF1				1908 SR R15,R1 GET TEXT LENGTH-1	GP99170	00175600
0017DA	44F0	A7EC	017EC		1909 EX R15,EXNBRMVC MOVE NUMBER	GP99170	00175700
0017DE	41EF	E001	00001		1910 LA R14,1(R15,R14) SET NEXT ADDRESS	GP99170	00175800
0017E2	50E0	AAEC	01AEC		1911 ST R14,GENADDR SAVE ADDRESS		00175900
0017E6	58F0	AAFO	01AF0		1912 L R15,GENNBRSV RESTORE R15	GP99161	00176000
0017EA	07FF				1913 BR R15 DONE		00176100
0017EC	D200	E000	1000	00000 00000	1914 EXNBRMVC MVC 0(0,R14),0(R1) MOVE NUMBER	GP99170	00176200
					1915 *-----*		* 00176300
					1916 *		* 00176400
					1917 * ERROR MESSAGES		* 00176500
					1918 *		* 00176600
					1919 *-----*		* 00176700
0017F2	D652	B710	AD66	00710 01D66	1921 ERR0010 OC PRTDATA(EMSG01L),EMSG01 COMPLETE MESSAGE	GP10075	00176900
0017F8	F384	B728	701C	00728 0001C	1922 UNPK PRTDATA+EMSG01A-EMSG01(9),DATABEGN(5)	GP10075	00177000
0017FE	DC07	B728	B185	00728 00185	1923 TR PRTDATA+EMSG01A-EMSG01(8),COMMHXTR TRANSLATE	GP10075	00177100
001804	9240	B730		00730	1924 MVI PRTDATA+EMSG01A-EMSG01+8,C' ' CLEAR GARBAGE	GP10075	00177200
001808	F384	B734	7020	00734 00020	1925 UNPK PRTDATA+EMSG01B-EMSG01(9),DATAEND(5)	GP10075	00177300
00180E	DC07	B734	B185	00734 00185	1926 TR PRTDATA+EMSG01B-EMSG01(8),COMMHXTR TRANSLATE	GP10075	00177400
001814	9240	B73C		0073C	1927 MVI PRTDATA+EMSG01B-EMSG01+8,C' ' CLEAR GARBAGE	GP10075	00177500
001818	5030	B000		00000	1928 ST R3,COMMDWRD SET CURRENT DISPLACEMENT	GP10075	00177600
00181C	F384	B75B	AB14	0075B 01B14	1929 UNPK PRTDATA+EMSG01D-EMSG01(9),DISPD(5)	GP10075	00177700
001822	DC07	B75B	B185	0075B 00185	1930 TR PRTDATA+EMSG01D-EMSG01(8),COMMHXTR TRANSLATE	GP10075	00177800
001828	9240	B763		00763	1931 MVI PRTDATA+EMSG01D-EMSG01+8,C' ' CLEAR GARBAGE	GP10075	00177900
00182C	9640	B163		00163	1932 OI COMMFLAG,\$ERROR		00178000
001830	4590	A936		01936	1933 BAL R9,PRT0000 PRINT MESSAGE	GP99146	00178100
001834	47F0	A952		01952	1934 B EXIT0000 AND EXIT		00178200
001838					1935 ERR0020 DS OH		00178300
001838	D222	B710	ADB9	00710 01DB9	1936 MVC PRTDATA(EMSG02L),EMSG02		00178400
00183E	927C	B734		00734	1937 MVI PRTDATA+EMSG02L+1,C'@'	GP10018	00178500
001842	F384	AC9C	AAFC	01C9C 01AFC	1938 UNPK OBJOUT(9),DISPI(5) DISPLACEMENT	GP10018	00178600
001848	DC0F	AC9C	B185	01C9C 00185	1939 TR OBJOUT,COMMHXTR	GP10018	00178700
00184E	D205	B736	AC9E	00736 01C9E	1940 MVC PRTDATA+EMSG02L+3(6),OBJOUT+2	GP10018	00178800
001854	927A	B73D		0073D	1941 MVI PRTDATA+EMSG02L+10,C':'	GP10018	00178900
001858	F384	AC9C	4000	01C9C 00000	1942 UNPK OBJOUT(9),0(5,R4) INSTRUCTION	GP10018	00179000
00185E	DC0F	AC9C	B185	01C9C 00185	1943 TR OBJOUT,COMMHXTR	GP10018	00179100
001864	D207	B73F	AC9C	0073F 01C9C	1944 MVC PRTDATA+EMSG02L+12(8),OBJOUT	GP10018	00179200
00186A	9640	B163		00163	1945 OI COMMFLAG,\$ERROR		00179300
00186E	4590	A936		01936	1946 BAL R9,PRT0000 PRINT MESSAGE	GP99146	00179400
					1947 ABEND 0009,DUMP,,USER ABEND	GP99141	00179500
001872					1948+ DS OH		00400002
001872	4110	0009		00009	1949+ LA 1,0009	LOAD PARAMETER REG 1	01900002

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001876	4100	0080	00080		1950+	LA	0,128(0,0)	PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
00187A	8900	0018	00018		1951+	SLL	0,24(0)	SHIFT TO HIGH ORDER 01850002
00187E	1610				1952+	OR	1,0	OR IN WITH COMPCODE 01900002
001880	0A0D				1953+	SVC	13	LINK TO ABEND ROUTINE 02050002
001882					1955	ERR0030	DS OH	00179700
001882	D229	B710	ADDC	00710	01DDC	1956	MVC	PRTDATA(EMSG03L),EMSG03 00179800
001888	927C	B73B		0073B		1957	MVI	PRTDATA+EMSG03L+1,C'@' GP10048 00179900
00188C	F384	AC9C	AAFC	01C9C	01AFC	1958	UNPK	OBJOUT(9),DISPI(5) DISPLACEMENT GP10048 00180000
001892	DC0F	AC9C	B185	01C9C	00185	1959	TR	OBJOUT,COMMHXTR GP10048 00180100
001898	D205	B73D	AC9E	0073D	01C9E	1960	MVC	PRTDATA+EMSG03L+3(6),OBJOUT+2 GP10048 00180200
00189E	9640	B163		00163		1961	OI	COMMFLAG,\$ERROR 00180300
0018A2	4590	A936		01936		1962	BAL	R9,PRT0000 PRINT MESSAGE GP99146 00180400
0018A6	47F0	A952		01952		1963	B	EXIT0000 AND EXIT 00180500
0018AA					1964	ERR0040	DS OH	00180600
0018AA	D245	B710	AE06	00710	01E06	1965	MVC	PRTDATA(EMSG04L),EMSG04 00180700
0018B0	9640	B163		00163		1966	OI	COMMFLAG,\$ERROR 00180800
0018B4	4590	A936		01936		1967	BAL	R9,PRT0000 PRINT MESSAGE GP99146 00180900
0018B8	45E0	B5B0		005B0		1968	BAL	R14,TRACEPRT PRINT TRACE GP99146 00181000
0018BC	4110	0005		00005		1969	LA	R1,ABEND005 SET ABEND CODE (NOT ADDRESS) GP99146 00181100
0018C0					1970		ABEND	(1),DUMP,,USER GP99146 00181200
0018C0	8910	0014		00014		1971+	DS OH	00400002
0018C4	8810	0014		00014		1972+	SLL	1,20(0) SHIFT OFF > 12 BITS 01200002
0018C8	4100	0080		00080		1973+	SRL	1,20(0) SHIFT TO USER POSITION 01360002
0018CC	8900	0018		00018		1974+	LA	0,128(0,0) PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
0018D0	1610					1975+	SLL	0,24(0) SHIFT TO HIGH ORDER 01850002
0018D2	0A0D					1976+	OR	1,0 OR IN WITH COMPCODE 01900002
						1977+	SVC	13 LINK TO ABEND ROUTINE 02050002
					1979	*****		00181400
					1980	**		00181500
					1981	** PUNCH OUTPUT		00181600
					1982	**		00181700
					1983	** INCREMENT SEQUENCE NUMBER EVEN WHEN NOT PUNCHING (FOR PRTSTMT)		00181800
					1984	**		00181900
					1985	*****		00182000
0018D4	F374	AC8C	ABC5	01C8C	01BC5	1986	PUNCH000 UNPK	SRCSEQ,CARDSEQ MAKE PRINTABLE GP99134 00182100
0018DA	96F0	AC93		01C93		1987	OI	SRCSEQ+L'SRCSEQ-1,C'0' MAKE SURE GP99134 00182200
0018DE	9540	AC44		01C44		1988	CLI	SRCLABL,C' ' ANY LABEL PRESENT? GP99184 00182300
0018E2	47D0	A902		01902		1989	BNH	PUNCH020 NO GP99184 00182400
					1990		PUSH	USING GP99184 00182500
0018E6	4120	B118		00118		1991	LA	R2,COMMLABL GET TO START OF CHAIN GP99184 00182600
				00000		1992	USING	LABLDSCT,R2 GP99184 00182700
0018EA	BF2F	2000		00000		1993	PUNCH010 ICM	R2,15,LABLNEXT GP99184 00182800
0018EE	4780	A902		01902		1994	BZ	PUNCH020 NOT FOUND GP99184 00182900
0018F2	D507	200C	AC44	0000C	01C44	1995	CLC	LABLNAME,SRCLABL DESIRED NAME? GP99184 00183000
0018F8	4770	A8EA		018EA		1996	BNE	PUNCH010 NO; TRY ANOTHER GP99184 00183100
0018FC	F844	201C	ABC5	0001C	01BC5	1997	ZAP	LABLSTMT,CARDSEQ SAVE LABEL DEFINITION GP99184 00183200
					1998		POP	USING GP99184 00183300
001902	FA41	ABC5	ABCA	01BC5	01BCA	1999	PUNCH020 AP	CARDSEQ,CARDINC COUNT CARDS GP99134 00183400
001908	9110	B164		00164		2000	TM	COMMDD,\$PUNCHDD IS DISPUNCH DD PRESENT? GP99184 00183500
00190C	07E9					2001	BNOR	R9 NO 00183600
00190E	4110	AC44		01C44		2002	LA	R1,SRCLABL POINT TO CARD IMAGE GP10048 00183700
001912	45E0	B794		00794		2003	BAL	R14,PUNCHCRD PUNCH SOURCE STATEMENT GP10048 00183800
001916	07F9					2004	BR	R9 RETURN 00183900

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					2006	*****	00184100
					2007	**	** 00184200
					2008	** PRINT OUTPUT	** 00184300
					2009	**	** 00184400
					2010	** PRTSTMT ADDS THE STATEMENT NUMBER TO THE OUTPUT LINE	** 00184500
					2011	** PRT0000 PRINT THE CURRENT PRINT LINE AS IS	** 00184600
					2012	**	** 00184700
					2013	*****	00184800
001918	D277	B710	AC1C	00710	01C1C	2014 PRTUSER MVC PRTDATA(SRCL),SRC SET PRINT DATA	00184900
					2015	*RTSTMT MVC PRTDATA+SRCSTMT-SRC(L'SRCSTMT),SRCSEQ+1 GP99134	00185000
00191E	D207	B780	AC8C	00780	01C8C	2016 PRTSTMT MVC PRTDATA+SRCSEQ-SRC(L'SRCSEQ),SRCSEQ GP99134	00185100
001924	F275	B000	AC8C	00000	01C8C	2017 PACK COMMDWRD,SRCSEQ(((L'SRCSTMT+1)/2)*2) MAKE PACKED GP13026	00185200
00192A	D205	B731	ACB5	00731	01CB5	2018 MVC PRTDATA+SRCSTMT-SRC-1(L'SRCSTMT+1),SEQMASK GP13026	00185300
001930	DE05	B731	B005	00731	00005	2019 ED PRTDATA+SRCSTMT-SRC-1(L'SRCSTMT+1),COMMDWRD+8-((L'SRCSTMT+1)/2) 026	00185400
001936	41F0	B6EC		006EC		2021 PRT0000 LA R15,PRINTREC SET TO PRINT AND CLEAR RECORD GP99152	00185600
00193A	9140	B163		00163		2022 TM COMMFLAG,\$ERROR ERROR MESSAGE? GP99132	00185700
00193E	4770	A94E		0194E		2023 BNZ PRT0010 YES; PRINT IT GP99132	00185800
001942	9140	B166		00166		2024 TM PRINTFG2,\$PFASM PRINT ASSEMBLY OUTPUT? GP99132	00185900
001946	4770	A94E		0194E		2025 BNZ PRT0010 YES GP99132	00186000
00194A	41F0	B702		00702		2026 LA R15,PRINTCLR SET TO CLEAR PRINT LINE GP99152	00186100
00194E	05EF					2027 PRT0010 BALR R14,R15 PRINT & CLEAR, OR JUST CLEAR GP99152	00186200
001950	07F9					2028 BR R9 RETURN	00186300
001952						2029 EXIT0000 DS OH	00186400
					2030	ITRACE ID=EXIT	00186500
001952	45E0	B564		00564		2031+ BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
001956	C5E7C9E340404040					2032+ DC CL8'EXIT' TRACE ID	00670000
00195E	58D0	D004		00004		2033 L R13,4(,R13) RESTORE REGISTER 13	00186600
001962	98EC	D00C		0000C		2034 LM R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	00186700
001966	1BFF					2035 SR R15,R15 GIVE GOOD RETURN CODE	00186800
001968	07FE					2036 BR R14 RETURN TO CALLER	00186900
					2038	*-----*	00187100
					2039	*	* 00187200
					2040	* FIND LABLDST ENTRY BY NAME (@ IN R1)	* 00187300
					2041	*	* 00187400
					2042	*-----*	00187500
00196A	4120	B118		00118		2043 PUSH USING GP99184	00187600
					2044	FINDLABL LA R2,COMMLABL GET TO START OF CHAIN GP99184	00187700
				00000	2045	USING LABLDST,R2 GP99184	00187800
00196E	D507	200C	1000	0000C	00000	2046 FINDLABM CLC LABLNAME,0(R1) PASSED NAME? GP99184	00187900
001974	4780	A982		01982		2047 BE REFLABEL YES; ADD ENTRY GP99184	00188000
001978	BF2F	2000		00000		2048 ICM R2,15,LABLNEXT GP99184	00188100
00197C	4770	A96E		0196E		2049 BNZ FINDLABM CHECK IT GP99184	00188200
001980	07FE				2050	BR R14 RETURN TO CALLER GP99184	00188300
					2052	*-----*	00188500
					2053	*	* 00188600
					2054	* BUILD CROSS-REFERENCE FOR LABEL BLOCK (@ IN R2)	* 00188700
					2055	*	* 00188800
					2056	*-----*	00188900
001982	9120	B166		00166		2057 REFLABEL TM PRINTFG2,\$PFXR USER WANT CROSS-REFERENCE? GP99184	00189000
001986	078E					2058 BZR R14 NO; JUST RETURN GP99184	00189100
001988	90E1	B848		00848		2059 STM R14,R1,PRINTRSV SAVE VITAL REGISTERS GP99184	00189200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
00198C	41F0	2018	00018		2060	LA	R15,LABLXREF GET LABEL CROSS-REFERENCE CHAIN	GP99184	00189300		
					2061	DROP	R2	GP99184	00189400		
001990	182F				2062	REFLABEM	LR R2,R15 SAVE INSERTION ADDRESS	GP99184	00189500		
001992	BFFF	2000	00000		2063	ICM	R15,15,0(R2) GET FIRST/NEXT ENTRY	GP99184	00189600		
001996	4780	A9A8	019A8		2064	BZ	REFLABEN NONE; INSERT A NEW ONE	GP99184	00189700		
00199A	F944	ABC5	F004	01BC5	00004	CP	CARDSEQ,4(L'CARDSEQ,R15)	GP99184	00189800		
0019A0	4720	A990	01990		2066	BH	REFLABEM NOT YET	GP99184	00189900		
0019A4	4780	A9C0	019C0		2067	BE	REFLABEZ DUPLICATE	GP99184	00190000		
0019A8	4100	0009	00009		2068	REFLABEN	LA R0,4+L'CARDSEQ MAKE LAZY CHAIN - ONE ENTRY PER	GP99184	00190100		
0019AC	45E0	B684	00684		2069	BAL	R14,GETMAIN GET ONE	GP99184	00190200		
0019B0	D203	1000	2000	00000	00000	MVC	0(4,R1),0(R2) CHAIN OLD FORWARD POINTER	GP99184	00190300		
0019B6	D204	1004	ABC5	00004	01BC5	MVC	4(L'CARDSEQ,R1),CARDSEQ	GP99184	00190400		
0019BC	5010	2000	00000		2072	ST	R1,0(,R2) COMPLETE CHAIN	GP99184	00190500		
0019C0	98E1	B848	00848		2073	REFLABEZ	LM R14,R1,PRINTRSV RESTORE VITAL REGISTERS	GP99184	00190600		
0019C4	07FE				2074	BR	R14 RETURN TO CALLER	GP99184	00190700		
					2075	POP	USING	GP99184	00190800		
0019C8					2077	LTORG		GP99183	00191000		
0019C8	E7D39595957DF07D				2078		=C'XLNNN''0'''				
0019D0	F0F0F0F0F0F0F0F0				2079		=16C'0'				
0019E0	00002120				2080		=A(FMTTABLE)				
0019E4	C2C1E2C540404040				2081		=CL12'BASE'				
0019F0	C4C5C3D9C5D4C5D5				2082		=CL12'DECREMENT'				
0019FC	00000FFF				2083		=X'00000FFF'				
001A00	C1D3F04D				2084		=C'ALO('				
001A04	FFFFFFFF				2085		=X'FFFFFFFF'				
001A08	F0202120				2086		=X'F0202120'				
001A0C	4EE77DF8F0F0F0F0				2087		=C'+X''80000000'''				
001A18	E5D3F04D				2088		=C'VLO('				
001A1C	D8D3F04D				2089		=C'QLO('				
001A20	0000202C				2090		=A(GENRRCCCL)				
001A24	00001FAC				2091		=A(GENRRCCA)				
001A28	00001FF3				2092		=A(GENRRCCC)				
001A2C	000020E5				2093		=A(GENBCCCL)				
001A30	00002065				2094		=A(GENBCCA)				
001A34	000020AC				2095		=A(GENBCCC)				
001A38	0010				2096		=H'16'				
001A3A	F0F5				2097		=C'05'				
001A3C	F0C4				2098		=C'0D'				
001A3E	F0F6				2099		=C'06'				
001A40	F4F5				2100		=C'45'				
001A42	0034				2101		=H'52'				
001A44	0002				2102		=H'2'				
001A46	E24D				2103		=C'S('				
001A48	0008				2104		=H'8'				
001A4A	0004				2105		=H'4'				
001A4C	0100				2106		=H'256'				
001A4E	001A				2107		=H'26'				
001A50	0003				2108		=H'3'				
001A52	0009				2109		=H'9'				
001A54	0021				2110		=H'33'				
001A56	0006				2111		=H'6'				
001A58	F07D				2112		=C'0'''				
001A5A	0085				2113		=H'133'				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
001A5C	0031			2114	=H'49'	
001A5E	C3D39595957D			2115	=C'CLNNN'''	
001A64	C6C9D3D3C5D9			2116	=C'FILLER'	
001A6A	0013			2117	=AL2(TRMSK2-TRMSK1)	
001A6C	D7D9C9D5E340D6D5			2118	=C'PRINT ON,NOGEN'	
001A7A	C1E2D440E2E3C1D9			2119	=C'ASM START '	
001A84	C5E7E3D9D5			2120	=C'EXTRN'	
001A89	C5D8E4			2121	=C'EQU'	
001A8C	D3F24D			2122	=C'L2('	
001A8F	D77D60			2123	=C'P''-'	
001A92	C4C340			2124	=C'DC '	
001A95	E2D7C1C3C540F1			2125	=C'SPACE 1'	
001A9C	40C5D5C440			2126	=C' END '	
001AA1	40E8D9C5C7E240			2127	=C' YREGS '	
001AA8	40D7D9C9D5E340			2128	=C' PRINT '	
001AAF	E8D9C5C7E2406B			2129	=C'YREGS ,'	
				2130	*-----*	00191100
				2131	*	* 00191200
				2132	* EXECUTED INSTRUCTIONS	* 00191300
				2133	*	* 00191400
				2134	*-----*	* 00191500
001AB6	DD00 4000 B3C7 00000 003C7			2135	NPRTTRT TRT O(0,R4),COMMPRT SCAN NON-PRINTABLE	00191600
001ABC	DD00 4000 B2C7 00000 002C7			2136	PRTTRT TRT O(0,R4),COMMPRT SCAN PRINTABLE	00191700
001AC2	D200 AC55 4000 01C55 00000			2137	CHDCMVC MVC SRCOPER+2(0),O(R4) COPY CHARACTER DATA	00191800
				2138	*-----*	* 00191900
				2139	*	* 00192000
				2140	* WORK AREAS	* 00192100
				2141	*	* 00192200
				2142	*-----*	* 00192300
001AC8	00002178			2143	ASVCDESC DC A(SVCDESC) SVC DESCRIPTIONS	00192400
001ACC	F0F0F0F1F0F2F0F3			2145	REGNAME DC C'00',C'010203040506070809101112131415' @ REGS GP10055	00192600
001AEC	00000000			2147	GENADDR DC A(0) CURRENT ADDRESS IN SRCOPER AREA	00192800
001AF0	00000000			2148	GENNBR SV DC A(0) R15 SAVE AREA FOR 'GENNBR'	00192900
001AF4				2150	DISPCNTL DS OC	00193100
001AF4	C9D5E2E3D9404040			2151	DC CL8'INSTR' EYECATCHER	00193200
001AFC	00000000			2152	DISPI DC XL4'000000' INSTRUCTION DISPLACEMENT	00193300
001B00	D3C1C2C5D3404040			2153	DC CL8'LABEL' EYECATCHER	00193400
001B08	00000000			2154	DISPL DC XL4'000000' LABEL DISPLACEMENT	00193500
001B0C	C4C1E3C140404040			2155	DC CL8'DATA ' EYECATCHER	00193600
001B14	00000000			2156	DISPD DC XL4'000000' DATA DISPLACEMENT	00193700
001B18	D9C5C64040404040			2157	DC CL8'REF ' EYECATCHER	00193800
001B20	00000000			2158	DISPR DC XL4'000000' REFERENCE DISPLACEMENT	00193900
001B24	00000000			2160	WORKNBR DC A(0) LENGTHS/DISPLACEMENTS WORK AREA	00194100
001B28	00			2161	WORKOPER DC X'00' OPERAND TO GENERATE	00194200
		00080		2162	\$OPER1 EQU X'80' .. OPERAND 1	00194300
		00040		2163	\$OPER2 EQU X'40' .. OPERAND 2	00194400
		00020		2164	\$OPERNDX EQU X'20' .. INDEXED OPERAND	00194500
		00010		2165	\$OPERL EQU X'10' .. OPERAND WITH LENGTH	00194600
001B29	00			2166	WORKX DC X'00' INDEX REGISTER OR LENGTH	00194700
001B2A	00			2167	WORKBASE DC X'00' BASE REGISTER	00194800

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001B2B	00			2168	WORKREG DC X'00'		00194900
001B2C	0001			2170	OPLNGTH DC H'1' LENGTH OF CURRENT INSTRUCTION	GP99137	00195100
				2172	* ----- * 00195300		
				2173	* FLAG/SWITCH BYTES * 00195400		
				2174	* ----- * 00195500		
001B2E	00			2175	PRTFLAG DC X'00' HEADING FLAGS		00195600
		00080		2176	\$SUBH EQU X'80' .. SUBHEADING PRINTED		00195700
001B2F	00			2177	SAVEFLAG DC X'00' 'FLAG' BYTE FOR EXTENDED MNEMONICS		00195800
001B30				2179	DISPWORK DC OCL12' ' GP99169		00196000
001B30	4040404040404040			2180	DISPLONG DC CL80' ' LOTS OF ROOM FOR WORKING GP99169		00196100
001B80	4020202020202020			2181	DISPEDWD DC X'4020202020202020202020202120'		00196200
001B8C	C3E2C5C3E340			2182	CSCTOPCD DC CL6'CSECT'		00196300
001B92	C5D5E3D9E840			2183	ENTROPCD DC CL6'ENTRY'		00196400
001B98	C3E7C4404040			2184	CXDOPCD DC CL6'CXD'		00196500
001B9E	C4D9D6D74040			2185	DROPOPCD DC CL6'DROP'		00196600
001BA4	E4E2C9D5C740			2186	USNGOPCD DC CL6'USING'		00196700
001BAA	C5D5C4404040			2187	ENDOPCD DC CL6'END'		00196800
001BB0	C2C340404040			2188	BCOPCD DC CL6'BC'		00196900
001BB6	E77D			2189	HEXDC DC C'X''		00197000
001BB8	C37D			2190	CHARDC DC C'C''		00197100
001BBA	6BE77D			2191	GENSIDLM DC C',X'' DELIMITER AND X'		00197200
001BBD	F0F0F0F0F0F0F0F0			2192	CHARZERO DC CL8'00000000' CONSTANT		00197300
001BC5	012345678C			2193	CARDSEQ DC P'12345678' CARD COUNTER	GP99134	00197400
001BCA	100C			2194	CARDINC DC P'100' INCREMENT	GP99134	00197500
001BCC	D7D3C9E2E3404040			2195	DCPLIST DC CL12'PLIST'	GP10018	00197600
001BD8	40			2196	DC C' ' 1/2	GP99146	00197700
001BD9	4040404040404040			2197	LOCLABEL DC CL8' ' 2/2 LABEL ON NEXT INSTRUCTION OR DC	GP99146	00197800
001BE1				2198	SUBHEAD DS OC		00197900
001BE1	4040D3D6C34040D6			2199	DC C' LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT		00198081
001BE9	C2D1C5C3E340C3D6				MENT' GP14253		00198181
				2200	*OLD* DC CL08' DISP ',CL2' ' CHG14201		00198281
				2201	*OLD* DC CL19'OBJECT CODE',CL4' ' CHG14201		00198381
				2202	*OLD* DC CL05' STMT' GP14206		00198481
				2203	*OLD* DC CL01' ' GP13026		00198581
				2204	*OLD* DC CL07' LABEL ',CL3' ' CHG14201		00198681
				2205	*OLD* DC CL05'OPCODE' CHG14201		00198781
				2206	*OLD* DC CL01' ' 00198881		
				2207	*OLD* DC CL25'OPERANDS' 00198981		
				2208	*OLD* DC CL06' ' GP10034		00199081
				2209	*OLD* DC CL07'COMMENT' 00199181		
		0003A		2210	SUBHEADL EQU *-SUBHEAD 00199200		
001C1B	40			2211	DC C' ' 1/N FAST BLANKING 00199300		
001C1C				2212	SRC DS OC 00199400		
001C1C	4040404040404040			2213	SRCDISP DC CL06' ',CL1' ' DISPLACEMENT GP14253		00199581
001C23	40404040			2214	SRCOBJ1 DC CL04' ' OBJECT CODE BYTES 1 AND 2		00199600
001C27	40			2215	DC CL01' ' 00199700		
001C28	40404040			2216	SRCOBJ2 DC CL04' ' OBJECT CODE BYTES 3 AND 4		00199800
001C2C	40			2217	DC CL01' ' 00199900		
001C2D	40404040			2218	SRCOBJ3 DC CL04' ' OBJECT CODE BYTES 5 AND 6		00200000
001C31	40			2219	DC CL01' ' GP99141		00200100
001C32	40404040			2220	SRCOBJ4 DC CL04' ' (DATA) OBJECT CODE BYTES 7 AND 8 GP99141		00200200

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
001C36	4040404040404040			2221	DC	CL08' '	GP14253 00200382
001C3E	4040404040			2222	SRCSTMT	DC CL05' '	CHG14201 00200400
001C43	40			2223	DC	CL01' '	CHG14201 00200500
001C44	4040404040404040			2225	SRCLABL	DC CL08' ' 01 - 08	00200700
001C4C	40			2226	DC	CL01' ' 09 - 09	00200800
001C4D	4040404040			2227	SRCMNEM	DC CL05' ' 10 - 14	GP10034 00200900
001C52	40			2228	DC	CL01' ' 15 - 15	00201000
001C53	4040404040404040			2229	SRCOPER	DC CL35' ' 16 - 50	00201100
001C76		01C72		2230	ORG	SRCLABL+46	00201200
001C72	4040404040404040			2231	SRCCMNT	DC CL25' ' 46 - 71	00201300
001C8B	40			2232	DC	CL01' ' 72 - 72	00201400
001C8C	4040404040404040			2233	SRCSEQ	DC CL08' ' 73 - 80	00201500
		00078		2234	SRCL	EQU *-SRC	00201600
001C94	4040404040404040			2235	OBJIN	DC CL8' ' INPUT STAGING AREA	00201700
001C9C	4040404040404040			2236	OBJOUT	DC CL16' ',C' ' OBJECT CODE	GP99141 00201800
001CAD	010306080B0D1012			2237	OBJLEN	DC AL1(1,3,6,8,11,13,16,18)	GP99141 00201900
001CB5	402020202120			2238	SEQMASK	DC X'40',(L'SRCSTMT-2)X'20',X'2120' SEQ EDIT MASK	GP13026 00202000
001CBB	0001101010101010			2239	TRMSK1	DC AL1(00,01,16,16,16,16,16,16,16,16,16,16,16,16,16,16)	00202100
001CCE	0001020310101010			2240	TRMSK2	DC AL1(00,01,02,03,16,16,16,16,16,16,16,16,16,16,16,16)	00202200
001CE1	0001020310040510			2241		DC AL1(00,01,02,03,16,04,05,16,16,16,16,16,16,16,16,16)	00202300
001CF4	0001020310040506			2242		DC AL1(00,01,02,03,16,04,05,06,07,16,16,16,16,16,16,16)	00202400
001D07	0001020310040506			2243		DC AL1(00,01,02,03,16,04,05,06,07,16,08,09,16,16,16,16,16,16)	00202500
001D1A	0001020310040506			2244		DC AL1(00,01,02,03,16,04,05,06,07,16,08,09,10,11,16,16,16,16)	00202600
001D2D	0001020310040506			2245		DC AL1(00,01,02,03,16,04,05,06,07,16,08,09,10,11,16,12,13,16,16)	00202700
001D40	0001020310040506			2246		DC AL1(00,01,02,03,16,04,05,06,07,16,08,09,10,11,16,12,13,14,15)	00202800
001D53	0001020304050607			2247	TRMSKDC	DC 16AL1(*-TRMSKDC),3AL1(16) DATA FOR DC	GP10018 00202900
001D66	C4C9E2C1E2D4F0F9			2249	MSG01	DC C'DISASM0901E DATA/FILLER '	GP10075 00203100
001D7E	4040404040404040			2250	MSG01A	DC CL8' ',C' TO '	GP10075 00203200
001D8A	4040404040404040			2251	MSG01B	DC CL8' '	GP10075 00203300
001D92	40C3D6D5C6D3C9C3			2252		DC C' CONFLICTS WITH INSTRUCTION AT '	GP10075 00203400
001DB1	4040404040404040			2253	MSG01D	DC CL8' '	00203500
		00053		2254	MSG01L	EQU *-MSG01	00203600
001DB9	C4C9E2C1E2D4F0F9			2255	MSG02	DC C'DISASM0902E INVALID OPCODE DETECTED'	00203700
		00023		2256	MSG02L	EQU *-MSG02	00203800
001DDC	C4C9E2C1E2D4F0F9			2257	MSG03	DC C'DISASM0903E DC WITH LENGTH = ZERO DETECTED'	00203900
		0002A		2258	MSG03L	EQU *-MSG03	00204000
001E06	C4C9E2C1E2D4F0F9			2259	MSG04	DC C'DISASM0904E ATTEMPT TO GENERATE INSTRUCTION ON AN ODD +	00204100
001E0E	F0F4C540C1E3E3C5					ADDRESS BOUNDARY'	00204200
		00046		2260	MSG04L	EQU *-MSG04	00204300
				2261	*	-----*	00204400
				2262	*		* 00204500
				2263	*	DATA CONTROL BLOCKS	* 00204600
				2264	*		* 00204700
				2265	*	-----*	00204800
				2266		PRINT NOGEN	GP99134 00204900
				2267	SYSIN	DCB DDNAME=SYSIN, ASSEMBLER INPUT FILE	+00205000
						DSORG=PS, .. SEQUENTIAL	+00205100
						EODAD=GEN0720, .. END OF DATA	+00205200
						LRECL=80, .. LRECL IS 80	+00205300
						MACRF=GL .. GET LOCATE MODE	00205400
001EAC	FFFFFFFFFFFFFFFF			2322	PACKTBL	DC 256X'FF' MAKE ALL INVALID	GP99183 00205600

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
001FAC		01EAC	2323	ORG	PACKTBL+X'00'	GP99183 00205700
001EAC	0000000000000000		2324	DC	10X'00' 00-09	GP99183 00205800
001EB6		01EBC	2325	ORG	PACKTBL+X'10'	GP99183 00205900
001EBC	0000000000000000		2326	DC	10X'00' 10-19	GP99183 00206000
001EC6		01ECC	2327	ORG	PACKTBL+X'20'	GP99183 00206100
001ECC	0000000000000000		2328	DC	10X'00' 20-29	GP99183 00206200
001ED6		01EDC	2329	ORG	PACKTBL+X'30'	GP99183 00206300
001EDC	0000000000000000		2330	DC	10X'00' 30-39	GP99183 00206400
001EE6		01EEC	2331	ORG	PACKTBL+X'40'	GP99183 00206500
001EEC	0000000000000000		2332	DC	10X'00' 40-49	GP99183 00206600
001EF6		01EFC	2333	ORG	PACKTBL+X'50'	GP99183 00206700
001EFC	0000000000000000		2334	DC	10X'00' 50-59	GP99183 00206800
001F06		01F0C	2335	ORG	PACKTBL+X'60'	GP99183 00206900
001F0C	0000000000000000		2336	DC	10X'00' 60-69	GP99183 00207000
001F16		01F1C	2337	ORG	PACKTBL+X'70'	GP99183 00207100
001F1C	0000000000000000		2338	DC	10X'00' 70-79	GP99183 00207200
001F26		01F2C	2339	ORG	PACKTBL+X'80'	GP99183 00207300
001F2C	0000000000000000		2340	DC	10X'00' 80-89	GP99183 00207400
001F36		01F3C	2341	ORG	PACKTBL+X'90'	GP99183 00207500
001F3C	0000000000000000		2342	DC	10X'00' 90-99	GP99183 00207600
001F46		01EB8	2343	ORG	PACKTBL+X'0C'	GP99183 00207700
001EB8	0408		2344	DC	X'0408' 0+ -	GP99183 00207800
001EBA		01EBB	2345	ORG	PACKTBL+X'0F'	GP99183 00207900
001EBB	04		2346	DC	X'04' 0+	GP99183 00208000
001EBC		01EC8	2347	ORG	PACKTBL+X'1C'	GP99183 00208100
001EC8	0408		2348	DC	X'0408' 1+ -	GP99183 00208200
001ECA		01ECB	2349	ORG	PACKTBL+X'1F'	GP99183 00208300
001ECB	04		2350	DC	X'04' 1+	GP99183 00208400
001ECC		01ED8	2351	ORG	PACKTBL+X'2C'	GP99183 00208500
001ED8	0408		2352	DC	X'0408' 2+ -	GP99183 00208600
001EDA		01EDB	2353	ORG	PACKTBL+X'2F'	GP99183 00208700
001EDB	04		2354	DC	X'04' 2+	GP99183 00208800
001EDC		01EE8	2355	ORG	PACKTBL+X'3C'	GP99183 00208900
001EE8	0408		2356	DC	X'0408' 3+ -	GP99183 00209000
001EEA		01EEB	2357	ORG	PACKTBL+X'3F'	GP99183 00209100
001EEB	04		2358	DC	X'04' 3+	GP99183 00209200
001EEC		01EF8	2359	ORG	PACKTBL+X'4C'	GP99183 00209300
001EF8	0408		2360	DC	X'0408' 4+ -	GP99183 00209400
001EFA		01EFB	2361	ORG	PACKTBL+X'4F'	GP99183 00209500
001EFB	04		2362	DC	X'04' 4+	GP99183 00209600
001EFC		01F08	2363	ORG	PACKTBL+X'5C'	GP99183 00209700
001F08	0408		2364	DC	X'0408' 5+ -	GP99183 00209800
001F0A		01F0B	2365	ORG	PACKTBL+X'5F'	GP99183 00209900
001F0B	04		2366	DC	X'04' 5+	GP99183 00210000
001F0C		01F18	2367	ORG	PACKTBL+X'6C'	GP99183 00210100
001F18	0408		2368	DC	X'0408' 6+ -	GP99183 00210200
001F1A		01F1B	2369	ORG	PACKTBL+X'6F'	GP99183 00210300
001F1B	04		2370	DC	X'04' 6+	GP99183 00210400
001F1C		01F28	2371	ORG	PACKTBL+X'7C'	GP99183 00210500
001F28	0408		2372	DC	X'0408' 7+ -	GP99183 00210600
001F2A		01F2B	2373	ORG	PACKTBL+X'7F'	GP99183 00210700
001F2B	04		2374	DC	X'04' 7+	GP99183 00210800
001F2C		01F38	2375	ORG	PACKTBL+X'8C'	GP99183 00210900
001F38	0408		2376	DC	X'0408' 8+ -	GP99183 00211000
001F3A		01F3B	2377	ORG	PACKTBL+X'8F'	GP99183 00211100

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
001F3B	04			2378	DC X'04' 8+	GP99183 00211200
001F3C		01F48		2379	ORG PACKTBL+X'9C'	GP99183 00211300
001F48	0408			2380	DC X'0408' 9+ -	GP99183 00211400
001F4A		01F4B		2381	ORG PACKTBL+X'9F'	GP99183 00211500
001F4B	04			2382	DC X'04' 9+	GP99183 00211600
001F4C		01F4C		2383	ORG ,	GP99183 00211700
				2385	*-----*	00211900
				2386	* EXTENDED BRANCH CODE MNEMONICS FOR BC AND BCR	* 00212000
				2387	*-----*	00212100
001FAC				2388	GENRRCCA DS OC COMPARE MNEMONICS	00212200
001FAC	00D5D6D7D94040			2389	DC X'00',CL6'NOPR ' NO-OP	00212300
001FB3	01C2D6D9404040			2390	DC X'01',CL6'BOR ' BRANCH OVERFLOW	00212400
001FBA	02C2D7D9404040			2391	DC X'02',CL6'BPR ' BRANCH PLUS	00212500
001FC1	04C2D4D9404040			2392	DC X'04',CL6'BMR ' BRANCH MINUS	00212600
001FC8	07C2D5E9D94040			2393	DC X'07',CL6'BNZR ' BRANCH NOT ZERO	00212700
001FCF	08C2E9D9404040			2394	DC X'08',CL6'BZR ' BRANCH IF ZERO	00212800
001FD6	0BC2D5D4D94040			2395	DC X'0B',CL6'BNMR ' BRANCH NOT MINUS	00212900
001FDD	0DC2D5D7D94040			2396	DC X'0D',CL6'BNPR ' BRANCH NOT PLUS	00213000
001FE4	0EC2D5D6D94040			2397	DC X'0E',CL6'BNOR ' BRANCH NOT OVERFLOW	00213100
001FEB	0FC2D940404040			2398	DC X'0F',CL6'BR ' UNCONDITIONAL BRANCH	00213200
001FF2	FF			2399	DC X'FF'	00213300
001FF3				2400	GENRRCCC DS OC ARITHMETIC MNEMONICS	00213400
001FF3	00D5D6D7D94040			2401	DC X'00',CL6'NOPR ' NO-OP	00213500
001FFA	02C2C8D9404040			2402	DC X'02',CL6'BHR ' BRANCH HIGH	00213600
002001	04C2D3D9404040			2403	DC X'04',CL6'BLR ' BRANCH LOW	00213700
002008	07C2D5C5D94040			2404	DC X'07',CL6'BNER ' BRANCH NOT EQUAL	00213800
00200F	08C2C5D9404040			2405	DC X'08',CL6'BER ' BRANCH EQUAL	00213900
002016	0BC2D5D3D94040			2406	DC X'0B',CL6'BNLR ' BRANCH NOT LOW	00214000
00201D	0DC2D5C8D94040			2407	DC X'0D',CL6'BNHR ' BRANCH NOT HIGH	00214100
002024	0FC2D940404040			2408	DC X'0F',CL6'BR ' UNCONDITIONAL BRANCH	00214200
00202B	FF			2409	DC X'FF'	00214300
00202C				2410	GENRRCCL DS OC LOGICAL MNEMONICS	00214400
00202C	00D5D6D7D94040			2411	DC X'00',CL6'NOPR ' NO-OP	00214500
002033	01C2D6D9404040			2412	DC X'01',CL6'BOR ' BRANCH ONES	00214600
00203A	04C2D4D9404040			2413	DC X'04',CL6'BMR ' BRANCH MIXED	00214700
002041	07C2D5E9D94040			2414	DC X'07',CL6'BNZR ' BRANCH NOT ZEROS	00214800
002048	08C2E9D9404040			2415	DC X'08',CL6'BZR ' BRANCH IF ZEROS	00214900
00204F	0BC2D5D4D94040			2416	DC X'0B',CL6'BNMR ' BRANCH NOT MIXED	00215000
002056	0EC2D5D6D94040			2417	DC X'0E',CL6'BNOR ' BRANCH NOT ONES	00215100
00205D	0FC2D940404040			2418	DC X'0F',CL6'BR ' UNCONDITIONAL BRANCH	00215200
002064	FF			2419	DC X'FF'	00215300
002065				2420	GENBCCA DS OC COMPARE MNEMONICS	00215400
002065	00D5D6D7404040			2421	DC X'00',CL6'NOP ' NO-OP	00215500
00206C	01C2D640404040			2422	DC X'01',CL6'BO ' BRANCH OVERFLOW	00215600
002073	02C2D740404040			2423	DC X'02',CL6'BP ' BRANCH PLUS	00215700
00207A	04C2D440404040			2424	DC X'04',CL6'BM ' BRANCH MINUS	00215800
002081	07C2D5E9404040			2425	DC X'07',CL6'BNZ ' BRANCH NOT ZERO	00215900
002088	08C2E940404040			2426	DC X'08',CL6'BZ ' BRANCH IF ZERO	00216000
00208F	0BC2D5D4404040			2427	DC X'0B',CL6'BNM ' BRANCH NOT MINUS	00216100
002096	0DC2D5D7404040			2428	DC X'0D',CL6'BNP ' BRANCH NOT PLUS	00216200
00209D	0EC2D5D6404040			2429	DC X'0E',CL6'BNO ' BRANCH NOT OVERFLOW	00216300
0020A4	0FC24040404040			2430	DC X'0F',CL6'B ' UNCONDITIONAL BRANCH	00216400
0020AB	FF			2431	DC X'FF'	00216500

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0020AC				2432	GENBCCC DS OC ARITHMETIC MNEMONICS	00216600
0020AC	00D5D6D7404040			2433	DC X'00',CL6'NOP ' NO-OP	00216700
0020B3	02C2C840404040			2434	DC X'02',CL6'BH ' BRANCH HIGH	00216800
0020BA	04C2D340404040			2435	DC X'04',CL6'BL ' BRANCH LOW	00216900
0020C1	07C2D5C5404040			2436	DC X'07',CL6'BNE ' BRANCH NOT EQUAL	00217000
0020C8	08C2C540404040			2437	DC X'08',CL6'BE ' BRANCH EQUAL	00217100
0020CF	0BC2D5D3404040			2438	DC X'0B',CL6'BNL ' BRANCH NOT LOW	00217200
0020D6	0DC2D5C8404040			2439	DC X'0D',CL6'BNH ' BRANCH NOT HIGH	00217300
0020DD	0FC24040404040			2440	DC X'0F',CL6'B ' UNCONDITIONAL BRANCH	00217400
0020E4	FF			2441	DC X'FF'	00217500
0020E5				2442	GENBCCL DS OC LOGICAL MNEMONICS	00217600
0020E5	00D5D6D7404040			2443	DC X'00',CL6'NOP ' NO-OP	00217700
0020EC	01C2D640404040			2444	DC X'01',CL6'BO ' BRANCH ONES	00217800
0020F3	04C2D440404040			2445	DC X'04',CL6'BM ' BRANCH MIXED	00217900
0020FA	07C2D5E9404040			2446	DC X'07',CL6'BNZ ' BRANCH NOT ZEROS	00218000
002101	08C2E940404040			2447	DC X'08',CL6'BZ ' BRANCH IF ZEROS	00218100
002108	0BC2D5D4404040			2448	DC X'0B',CL6'BNM ' BRANCH NOT MIXED	00218200
00210F	0EC2D5D6404040			2449	DC X'0E',CL6'BNO ' BRANCH NOT ONES	00218300
002116	0FC24040404040			2450	DC X'0F',CL6'B ' UNCONDITIONAL BRANCH	00218400
00211D	FF			2451	DC X'FF'	00218500
				2453	*-----*	00218700
				2454	* INSTRUCTION FORMATTING ROUTINE ADRESSES *	00218800
				2455	*-----*	00218900
00211E	0000					
002120	00001120			2456	FMTTABLE DC A(GENE0000) E FORMAT - NO OPERANDS (UPT)	00219000
002124	00001134			2457	DC A(GENRR100) RR FORMAT 1	00219100
002128	0000115C			2458	DC A(GENRR200) RR FORMAT 2 (SVC)	00219200
00212C	000011B0			2459	DC A(GENRR300) RR FORMAT 3 (MASK TYPE)	00219300
002130	00001234			2460	DC A(GENRR400) RR FORMAT 4 (R1 ONLY) GP99132	00219400
002134	0000124E			2461	DC A(GENRR500) RR FORMAT 5 (R2 ONLY) GP99132	00219500
002138	00001268			2462	DC A(GENRRE00) RRE FORMAT (R1,R2 IN FOURTH BYTE)	00219600
00213C	000012BA			2463	DC A(GENRX00) RX FORMAT	00219700
002140	000012FA			2464	DC A(GENRXA00) RX FORMAT - NO R1 GP99132	00219800
002144	0000131C			2465	DC A(GENS00) S FORMAT	00219900
002148	000013BE			2466	DC A(GENSI00) SI FORMAT	00220000
00214C	000013EA			2467	DC A(GENRSI00) RI/RSI FORMAT (R,R,IMM) AHI	00220100
002150	00001426			2468	DC A(GENRS100) RS FORMAT 1	00220200
002154	0000144C			2469	DC A(GENRS200) RS FORMAT 2 (BXLE, BXH, ...)	00220300
002158	00001480			2470	DC A(GENRS300) RS FORMAT 3 (MASK TYPE-TM, CLM..)	00220400
00215C	000014BE			2471	DC A(GENSS100) SS FORMAT 1 (CHARACTER-CHARACTER)	00220500
002160	000014E8			2472	DC A(GENSS200) SS FORMAT 2 (PACKED DECIMAL)	00220600
002164	00001520			2473	DC A(GENSS300) SS FORMAT 3 (MVCS, MVCP)	00220700
002168	0000155C			2474	DC A(GENSS400) SS FORMAT 4 (SRP)	00220800
00216C	00001598			2475	DC A(GENSSE00) SSE FORMAT GP99132	00220900
002170	00001290			2476	DC A(GENRREZ0) SSE FORMAT (NO REGISTERS) GP10018	00221000
002174	000012A0			2477	DC A(GENRRE30) SSE FORMAT (R1 ONLY) GP10018	00221100
				2479	*-----*	00221300
				2480	* SVC DESCRIPTIONS *	00221400
				2481	* SVC DESCRIPTIONS *	00221500
				2482	* SVC DESCRIPTIONS *	00221600
				2483	*-----*	00221700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
002178					2484	SVCDESC	DS OC	00221800
					2485		SVCDEF 00, 'EXCP/XDAP'	00221900
					2487		SVCDEF 01, 'WAIT/WAITR/PRTOV'	00222000
					2489		SVCDEF 02, 'POST'	00222100
					2491		SVCDEF 03, 'EXIT'	00222200
					2493		SVCDEF 04, 'GETMAIN'	00222300
					2495		SVCDEF 05, 'FREEMAIN'	00222400
					2497		SVCDEF 06, 'LINK/LINKX'	00222500
					2499		SVCDEF 07, 'XCTL/XCTLX'	00222600
					2501		SVCDEF 08, 'LOAD'	00222700
					2503		SVCDEF 09, 'DELETE'	00222800
					2505		SVCDEF 0A, 'GETMAIN/FREEMAIN'	00222900
					2507		SVCDEF 0B, 'TIME'	00223000
					2509		SVCDEF 0C, 'SYNCH/SYNCHX'	00223100
					2511		SVCDEF 0D, 'ABEND'	00223200
					2513		SVCDEF 0E, 'SPIE'	00223300
					2515		SVCDEF 0F, 'ERREXCP'	00223400
					2517		SVCDEF 10, 'PURGE'	00223500
					2519		SVCDEF 11, 'RESTORE'	00223600
					2521		SVCDEF 12, 'BLDL/FIND (TYPE D)'	00223700
					2523		SVCDEF 13, 'OPEN'	00223800
					2525		SVCDEF 14, 'CLOSE'	00223900
					2527		SVCDEF 15, 'STOW'	00224000
					2529		SVCDEF 16, 'OPEN (TYPE=J)'	00224100
					2531		SVCDEF 17, 'CLOSE (TYPE=T)'	00224200
					2533		SVCDEF 18, 'DEVTYPE'	00224300
					2535		SVCDEF 19, 'TRKBAL'	00224400
					2537		SVCDEF 1A, 'CATALOG/INDEX/LOCATE'	00224500
					2539		SVCDEF 1B, 'OBTAIN'	00224600
					2541		SVCDEF 1D, 'SCRATCH'	00224700
					2543		SVCDEF 1E, 'RENAME'	00224800
					2545		SVCDEF 1F, 'FEOV'	00224900
					2547		SVCDEF 20, 'ALLOC'	00225000
					2549		SVCDEF 21, 'IOHALT'	00225100
					2551		SVCDEF 22, 'MGCR/QEDIT'	00225200
					2553		SVCDEF 23, 'WTO/WTOR'	00225300
					2555		SVCDEF 24, 'WTL'	00225400
					2557		SVCDEF 25, 'SEGLD/SEGWT'	00225500
					2559		SVCDEF 27, 'LABEL'	00225600
					2561		SVCDEF 28, 'EXTRACT'	00225700
					2563		SVCDEF 29, 'IDENTIFY'	00225800
					2565		SVCDEF 2A, 'ATTACH/ATTACHX'	00225900
					2567		SVCDEF 2B, 'CIRB'	00226000
					2569		SVCDEF 2C, 'CHAP'	00226100
					2571		SVCDEF 2D, 'OVLYBRCH'	00226200
					2573		SVCDEF 2E, 'TIMER'	00226300
					2575		SVCDEF 2F, 'STIMER'	00226400
					2577		SVCDEF 30, 'DEQ'	00226500
					2579		SVCDEF 33, 'SNAP/SNAPX/SDUMP/SDUMPX'	00226600
					2581		SVCDEF 34, 'RESTART'	00226700
					2583		SVCDEF 35, 'RELEX'	00226800
					2585		SVCDEF 36, 'DISABLE'	00226900
					2587		SVCDEF 37, 'EOV'	00227000
					2589		SVCDEF 38, 'ENQ/RESERVE'	00227100
					2591		SVCDEF 39, 'FREEDBUF'	00227200

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					2593	SVCDEF 3A, 'RELBUF/REQBUF'	00227300
					2595	SVCDEF 3B, 'OLTEP'	00227400
					2597	SVCDEF 3C, 'STAE/STAI-ESTAE/ESTAI'	00227500
					2599	SVCDEF 3D, 'IKJECS6A'	00227600
					2601	SVCDEF 3E, 'DETACH'	00227700
					2603	SVCDEF 3F, 'CHKPT'	00227800
					2605	SVCDEF 40, 'RDJFCB'	00227900
					2607	SVCDEF 42, 'BTAMTEST'	00228000
					2609	SVCDEF 44, 'SYNADAF/SYNADRLS'	GPR14201 00228100
					2611	SVCDEF 45, 'BSP'	00228200
					2613	SVCDEF 46, 'GSERV'	00228300
					2615	SVCDEF 47, 'ASGNBFR/BUFINQ/RLSEBFR'	00228400
					2617	SVCDEF 49, 'SPAR'	00228500
					2619	SVCDEF 4A, 'DAR'	00228600
					2621	SVCDEF 4B, 'DQUEUE'	00228700
					2623	SVCDEF 4C, 'IFBSTAT'	00228800
					2625	SVCDEF 4E, 'LSPACE'	00228900
					2627	SVCDEF 4F, 'STATUS'	00229000
					2629	SVCDEF 51, 'SETPRT'	00229100
					2631	SVCDEF 53, 'SMFWTM'	00229200
					2633	SVCDEF 54, 'GRAPHICS'	00229300
					2635	SVCDEF 55, 'DDRSWAP'	00229400
					2637	SVCDEF 56, 'ATLAS'	00229500
					2639	SVCDEF 57, 'DOM'	00229600
					2641	SVCDEF 5B, 'VOLSTAT'	00229700
					2643	SVCDEF 5C, 'TCPEXCP'	00229800
					2645	SVCDEF 5D, 'TGET/TPUT'	00229900
					2647	SVCDEF 5E, 'TGET/TPUT/CONTROL'	GP14206 00230000
					2649	SVCDEF 5F, 'SYSEVENT'	00230100
					2651	SVCDEF 60, 'STAX'	00230200
					2653	SVCDEF 61, 'IKJECS9G'	00230300
					2655	SVCDEF 62, 'PROTECT'	00230400
					2657	SVCDEF 63, 'DYNALLOC'	00230500
					2659	SVCDEF 64, 'IKJEFFIB'	00230600
					2661	SVCDEF 65, 'QTIP'	00230700
					2663	SVCDEF 66, 'AQCTL'	00230800
					2665	SVCDEF 67, 'XLATE'	00230900
					2667	SVCDEF 68, 'TOPCTL'	00231000
					2669	SVCDEF 69, 'IMGLIB'	00231100
					2671	SVCDEF 6B, 'MODESET'	00231200
					2673	SVCDEF 6D, 'TYPE-3 ESR'	GPR14201 00231300
					2675	SVCDEF 70, 'PGRlse'	00231400
					2677	SVCDEF 71, 'PGFIX/PGFREE/PGLOAD/PGOUT'	00231500
					2679	SVCDEF 72, 'EXCPVR'	00231600
					2681	SVCDEF 74, 'TYPE-1 ESR'	GPR14201 00231700
					2683	SVCDEF 75, 'DEBCHK'	00231800
					2685	SVCDEF 77, 'TESTAUTH'	00231900
					2687	SVCDEF 78, 'GETMAIN/FREEMAIN'	00232000
					2689	SVCDEF 79, 'VSAM'	00232100
					2691	SVCDEF 7A, 'TYPE-2 ESR'	GPR14201 00232200
					2693	SVCDEF 7B, 'PURGEDQ'	00232300
					2695	SVCDEF 7C, 'TPIO'	00232400
					2697	SVCDEF 7D, 'EVENTS'	00232500
					2699	SVCDEF 7E, 'MSS(ICB2SVC)'	00232600
					2701	SVCDEF 82, 'RACHECK'	00232700

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					2703	SVCDEF 83,'RACINIT'	00232800
					2705	SVCDEF 84,'RACLIST'	00232900
					2707	SVCDEF 85,'RACDEF'	00233000
					2709	SVCDEF 89,'TYPE-6 ESR'	GPR14201 00233100
					2711	SVCDEF 8A,'PGSER'	00233200
					2713	SVCDEF 8B,'CVAFDIR'	00233300
0025E5	FF				2715	DC X'FF'	00233400
					2717	COPY DISASMDA	00233600
					2718	AIF ('&DAPRT' EQ 'ON').DA010	00010000
					2719	PRINT OFF	00020000
					2930	PRINT ON	02130000
					2931	.DA020 ANOP	02140000
					2932	*-----*	00233700
					2933	*	* 00233800
					2934	* COMMON DATA MAP	* 00233900
					2935	*	* 00234000
					2936	*-----*	* 00234100
					2937	DISASM00 DISASMCM TYPE=DSECT	00234200
					2938+	PRINT OFF	00280000
					3569+	PRINT ON	06440000
					3599	*-----*	* 00234300
					3600	*	* 00234400
					3601	* SVC DSECT	* 00234500
					3602	*	* 00234600
					3603	*-----*	* 00234700
000000					3604	SVCDSECT DSECT	00234800
000000					3605	SVCLLEN DS X LENGTH OF DESCRIPTION - 1 GP99134	00234900
000001					3606	SVCNBR DS X SVC NUMBER	00235000
			00002		3607	SVCSIZE EQU *-SVCDSECT FIXED OVERHEAD GP99134	00235100
000002					3608	SVCCMNT DS OC DESCRIPTION	00235200
000000					3609	END DISASM09	00235300

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	08	001069	
0001	0001	08	0010D1	
0001	0001	0C	0019E0	
0001	0001	0C	001A20	
0001	0001	0C	001A24	
0001	0001	0C	001A28	
0001	0001	0C	001A2C	
0001	0001	0C	001A30	
0001	0001	0C	001A34	
0001	0001	0C	001AC8	
0001	0001	08	001E6D	
0001	0001	0C	002120	
0001	0001	0C	002124	
0001	0001	0C	002128	
0001	0001	0C	00212C	
0001	0001	0C	002130	
0001	0001	0C	002134	
0001	0001	0C	002138	
0001	0001	0C	00213C	
0001	0001	0C	002140	
0001	0001	0C	002144	
0001	0001	0C	002148	
0001	0001	0C	00214C	
0001	0001	0C	002150	
0001	0001	0C	002154	
0001	0001	0C	002158	
0001	0001	0C	00215C	
0001	0001	0C	002160	
0001	0001	0C	002164	
0001	0001	0C	002168	
0001	0001	0C	00216C	
0001	0001	0C	002170	
0001	0001	0C	002174	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$ASMIN	00001	00000008	03055	01194	
\$DATAACN	00001	00000014	02767	00524	
\$DATAARL	00001	00000015	02768	00526 00997	
\$DATACXD	00001	00000037	02770	00530	
\$DATADS	00001	00000002	02765	00568	
\$DATAQ	00001	00000038	02771	00532	
\$DATAVCN	00001	00000016	02769	00528	
\$ERROR	00001	00000040	03052	01932 01945 01961 01966 02022	
\$ESDLR	00001	00000003	02801	00078	
\$ESDPC	00001	00000004	02802	00080	
\$ESDWX	00001	0000000A	02806	00103	
\$ESFXTRN	00001	00000080	02814	00098 00100	
\$OFABSR	00001	00000004	03088	01760	
\$OFBCOP	00001	00000001	03090	01329 01430	
\$OFPLSR	00001	00000002	03089	01755	
\$OPCCA	00001	00000008	03561	00431 01331 01484	
\$OPCCC	00001	00000004	03562	00431 01333 01486	
\$OPCCL	00001	00000002	03563	00431	
\$OPERL	00001	00000010	02165	01619 01637 01642 01677 01811 01850 01873	
\$OPERNDX	00001	00000020	02164	01439 01453 01510 01657 01813 01852 01862	
\$OPER1	00001	00000080	02162	01439 01453 01466 01510 01525 01564 01583 01604 01619 01637 01657 01677 01695	
\$OPER2	00001	00000040	02163	01622 01642 01660 01680 01698 01784 01832	
\$OPEXT	00001	00000080	03557	01432	
\$OPMASK	00001	00000001	03564	00440 03220	
\$OPNCMNT	00001	00000020	03559	00435	
\$OPSVC	00001	00000040	03558	01296	
\$PFASM	00001	00000040	03075	00053 02024	
\$PFTRC	00001	00000001	03072	03307 03309	
\$PFXRF	00001	00000020	03076	02057	
\$PRTHEAD	00001	000000C8	03429	00060	
\$PRTPRT	00001	000000D7	03431	03417 03438	
\$PRTSUBH	00001	000000E2	03430	03313	
\$PUNCHDD	00001	00000010	03061	02000	
\$SUBH	00001	00000080	02176	00059	
\$USNGND	00001	00000080	02912	00234 00280 00329	
ABEND005	00001	00000005	03579	01969	
ALIGNCNT	00001	00000006	00650	00696	
ALIGNDCS	00001	00000886	00648	00611	
ALIGNDC4	00001	00000883	00647	01005 01042 01104	
ALIGNTAB	00001	0000087A	00644	00650 00697	
AOP	00004	000000AC	02978	00522 03201	
APR	00004	000000B8	02980	03420	
APU	00004	000000BC	02981	03441	
ASVCDESC	00004	00001AC8	02143	01300	
BASEBEGN	00004	0000000C	02740	00291 00363	
BASEDISP	00004	00000014	02742	00367 00386	
BASEDSCT	00001	00000000	02737	00253 00286 00360 02745	
BASEEND	00004	00000010	02741	00256	
BASENEXT	00004	00000000	02738	00254 00287 00361	
BASEREG	00001	00000018	02743	00259 00289 00395	
BCOPCD	00006	00001BB0	02188	01503	
BLKTRT	00001	00000A68	03478	00197 00346 00377 00384 00624 00887 01011 01048 01110 03479 03481 03483 03485 03487 03489	
				03491 03493 03495 03497 03499 03501 03503	
CARDINC	00002	00001BCA	02194	00052 01999	
CARDSEQ	00005	00001BC5	02193	00052 01986 01997 01999 02065 02065 02068 02071 02071	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
CHARDC	00002	00001BB8	02190	00962														
CHARZERO	00008	00001BBD	02192	00067														
CHDCLMVC	00006	00000C92	00937	00925														
CHDCMVC	00006	00001AC2	02137	00963														
COMMBASE	00004	00000108	03012	00252	00285	00359												
COMMCLR	00004	000000F8	03007	03027	03031													
COMMCSAD	00004	0000011C	03017	00082														
COMMCSEO	00004	00000128	03020	00084														
COMMCSLN	00004	0000012C	03021	00219														
COMMCSNM	00008	0000014C	03030	00063	00065	00086	00169	00183	00194	00194	00195	00381	00382	01251	01251	01252		
COMMDATA	00004	0000010C	03013	00138														
COMMDD	00001	00000164	03057	02000														
COMMDDWRD	00008	00000000	02945	00229	00229	00246	00247	00266	00267	00299	00813	00815	00929	00931	01085	01087	01902	01906
				01928	02017	02019	03332	03333										
COMMESD	00004	000000F8	03008	00074														
COMMFILL	00001	00000161	03048	03377														
COMMFLAG	00001	00000163	03050	01194	01932	01945	01961	01966	02022									
COMMHXCH	00016	00000275	03097	03098														
COMMHXTR	00016	00000185	03098	00190	00897	01154	01166	01923	01926	01930	01939	01943	01959	03324	03327	03330	03334	
COMMLABL	00004	00000118	03016	00122	01991	02044												
COMMNBR	00002	000002A5	03101	01754														
COMMNPRT	00001	000003C7	03153	00892	02135	03154	03156	03158	03160	03162	03164	03166	03168	03170	03172	03174	03176	03178
COMMOPFG	00001	00000168	03083	01329	01430	01755	01760											
COMMPOOL	00001	00000162	03049	03369	03384													
COMMPRT	00001	000002C7	03124	00893	02136	03125	03127	03129	03131	03133	03135	03137	03139	03141	03143	03145	03147	
COMMREF	00004	00000114	03015	00130														
COMMSUBH	00133	0000016D	03092	00055	03310													
COMMSUBL	00002	00000154	03042	00057	00058	03311	03311	03312										
COMMTXT	00004	00000130	03022	00121														
COMMUSNG	00004	00000100	03010	00230	00274	00325												
CSCTOPCD	00006	00001B8C	02182	00066														
CXDOPCD	00006	00001B98	02184	01060														
DATAASMT	00001	0000002A	02762	00570	00578	00589	00591	00593	00595	00597	00599	00601	00691	00693	00712	00721		
DATABASE	00004	0000002C	02772	00978														
DATABEGN	00004	0000001C	02758	00141	00516	01143	01922											
DATADSCT	00001	00000000	02752	00139	02773													
DATAEND	00004	00000020	02759	00518	00534	01126	01130	01925										
DATAILEN	00002	00000028	02761	00573	00695	00695												
DATALBA	00004	00000014	02756	01002														
DATALBD	00004	00000018	02757	00979	01021													
DATALEN	00004	00000024	02760	00973	00993	00996	01012	01035	01038	01050	01058	01097	01100					
DATANAME	00008	0000000C	02755	00999	01000	01039	01040	01101	01102									
DATANEXT	00004	00000000	02753	01134	01138													
DATATYPE	00001	0000002B	02763	00524	00526	00528	00530	00532	00568	00997								
DCPLIST	00012	00001BCC	02195	00465														
DISASM00	00001	00000000	02939	00044	02952	03191	03268	03305	03366	03402								
DISASM09	00001	00000000	00034	00035	00043	03609												
DISPD	00004	00001B14	02156	00141	00144	00154	00221	00547	00565	01122	01124	01130	01140	01143	01929			
DISPEDWD	00012	00001B80	02181	01903														
DISPI	00004	00001AFC	02152	00119	00152	00224	00504	01121	01153	01938	01958							
DISPL	00004	00001B08	02154	00120	00123	00127	00162	00175	00177	00211	00213	00537						
DISPLONG	00080	00001B30	02180	00833	00895													
DISPR	00004	00001B20	02158	00133	00136	00474	00485	00489	00491	00500	00617	00635	00637	00639	01782			
DISPWORK	00012	00001B30	02179	00814	00815	00816	00930	00931	00932	01086	01087	01088	01903	01904	01904	01906		
DROPOPCD	00006	00001B9E	02185	00302														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
DSCTDSCT	00001	00000000	02780	02786															
EMSG01	00024	00001D66	02249	01921	01922	01923	01924	01925	01926	01927	01929	01930	01931	02254					
EMSG01A	00008	00001D7E	02250	01922	01923	01924													
EMSG01B	00008	00001D8A	02251	01925	01926	01927													
EMSG01D	00008	00001DB1	02253	01929	01930	01931													
EMSG01L	00001	00000053	02254	01921															
EMSG02	00035	00001DB9	02255	01936	02256														
EMSG02L	00001	00000023	02256	01936	01937	01940	01941	01944											
EMSG03	00042	00001DDC	02257	01956	02258														
EMSG03L	00001	0000002A	02258	01956	01957	01960													
EMSG04	00070	00001E06	02259	01965	02260														
EMSG04L	00001	00000046	02260	01965															
ENDOPCD	00006	00001BAA	02187	01250															
ENTROPCD	00006	00001B92	02183	00089															
ERR0010	00006	000017F2	01921	00223															
ERR0020	00002	00001838	01935	00408	00411	00416													
ERR0030	00002	00001882	01955	00566															
ERR0040	00002	000018AA	01964	00225															
ESDADDR	00003	00000017	02809	00082	00084														
ESDDATA	00001	00000000	02793	00076	02816														
ESDFLAG	00001	0000001E	02813	00098	00100														
ESDNAME	00008	0000000E	02797	00086	00090	00090	00092	00106	00106	02812									
ESDNEXT	00004	00000000	02794	00111															
ESDTYPE	00001	00000016	02798	00078	00080	00103													
EXCLRSRC	00006	00000E32	01056	01054	01084														
EXGETOPC	00006	00000554	03232	03225															
EXIT0000	00002	00001952	02029	01256	01934	01963													
EXLOAD	00004	00000D0C	00982	00976															
EXMVCINT	00006	00000BCC	00891	00686															
EXMVCLNG	00006	00000BE4	00895	00831															
EXMVCMSK	00006	00001028	01182	01176															
EXNBRMVC	00006	000017EC	01914	01909															
EXNPR14	00006	00000BD2	00892	00766															
EXPRT14	00006	00000BD8	00893	00773															
EXSTOR	00004	00000D10	00983	00980															
EXTMODD	00004	00000BFC	00899	00612	00702	01006	01043	01105											
EXTRLNG	00006	00000BF0	00897	00841															
EXTRTPAK	00006	00000BDE	00894	00861															
EXTSTZER	00006	00000BF6	00898	00585	00667	00734	00789	00801											
EXUNPLNG	00006	00000BEA	00896	00839	00886														
FINDLABL	00004	0000196A	02044	00064	00093	00196	00345	00376	00383	01041	01103	01253							
FINDLABM	00006	0000196E	02046	02049															
FMTTABLE	00004	00002120	02456	02080															
GENACON	00004	00000D50	01002	00998															
GENADDR	00004	00001AEC	02147	00203	00310	00347	00378	00385	00390	00616	00621	00625	00630	00719	00725	01018	01020	01025	
				01179	01527	01709	01712	01722	01725	01735	01738	01752	01768	01795	01803	01808	01907	01911	
GENAEXT	00004	00000D5E	01005	01001															
GENBCCA	00001	00002065	02420	02094															
GENBCCC	00001	000020AC	02432	02095															
GENBCCL	00001	000020E5	02442	02093															
GENB000	00002	00001334	01475	01433															
GENB010	00002	0000136C	01490	01485															
GENB020	00002	00001374	01493	01487															
GENB030	00002	00001378	01495	01489	01492	01501													
GENB040	00002	00001390	01502	01497															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
GENB050	00002	000013A2	01507	01499															
GENB060	00002	000013A8	01509	01506															
GENCOMMA	00002	000015BC	01708	00348	00394	01266	01279	01351	01394	01436	01505	01544	01547	01563	01579	01582	01598	01603	
				01621	01639	01659	01662	01679	01682	01697	01871	01880							
GENDCALP	00004	00000A1A	00765	00780															
GENDCANY	00004	000009EA	00746	00571	00574	00586													
GENDCCHR	00004	00000C02	00902	00587	00753														
GENDCCHS	00004	00000C0E	00905	00903															
GENDCCHY	00004	00000C98	00939	00906	00915	00917													
GENDCCHZ	00004	00000CA4	00943	00940															
GENDCCLB	00004	00000C2E	00914	00911															
GENDCCLP	00002	00000C1C	00909	00912															
GENDCD	00004	000008BE	00663	00596	00598														
GENDCHEX	00004	00000A74	00794	00739	00792														
GENDCHEY	00004	00000AE6	00822	00795	00802	00804													
GENDCHX0	00004	00000A94	00803	00735	00790														
GENDCICM	00004	00000910	00687	00670	00677														
GENDCICN	00006	00000934	00695	00692															
GENDCICO	00004	00000990	00716	00713															
GENDCICP	00004	0000099E	00719	00711															
GENDCICQ	00004	000009B6	00725	00722															
GENDCIMV	00006	000008FC	00681	00673															
GENDCITL	00006	00000942	00698	00708															
GENDCITN	00004	00000974	00709	00701	00703														
GENDCITO	00004	00000978	00710	00706															
GENDCITU	00004	0000096C	00707	00699															
GENDCI2	00004	000008DC	00672	00594															
GENDCI4	00004	000008F4	00679	00590	00592														
GENDCNTC	00004	00000796	00589	00579															
GENDCNTS	00004	000009C2	00729	00602															
GENDCP	00004	00000B4C	00857	00600															
GENDCP0	00004	00000B94	00878	00876	00884														
GENDCP1	00004	00000BB2	00885	00879															
GENDCS2A	00004	00000802	00616	00613															
GENDCS2M	00004	0000084A	00633	00627															
GENDCS2N	00006	0000088C	00651	00618	00620														
GENDCS2P	00004	000008B6	00660	00655															
GENDSCH1	00002	00000C00	00901	00756	00758														
GENDSHEE	00002	00000A4C	00782	00777															
GENDSHEX	00004	00000A50	00784	00605	00664	00668	00674	00680	00767	00770	00858	00862	00865	00867					
GENDSLEN	00004	00000E4C	01065	00569															
GENE0000	00002	00001120	01262	02456															
GENLOOP	00002	000001D6	00150	00142	00510	01131	01141	01144											
GENNBRSV	00004	00001AF0	02148	01900	01912														
GENNBRO0	00002	000017B6	01899	00204	00392	00632	00653	00720	01027	01295	01350	01504	01550	01602	01809	01828	01849	01879	
GENOP000	00002	00001644	01779	01440	01454	01467	01513	01526	01565	01584	01605	01620	01623	01638	01643	01658	01661	01678	
				01681	01696	01699													
GENOP010	00002	00001666	01790	01785															
GENOP020	00002	00001674	01794	01789															
GENOP030	00002	0000167E	01797	01801															
GENOP040	00002	0000168E	01802	01799															
GENOP050	00002	000016AC	01810	01805															
GENOP060	00002	000016D4	01822	01812															
GENOP070	00002	000016F0	01831	01783															
GENOP080	00002	000016F8	01834	01788															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
GENOP090	00002	0000170E	01840	01793 01833	
GENOP100	00002	00001720	01845	01839	
GENOP110	00002	0000174C	01857	01853	
GENOP120	00002	00001752	01860	01851 01856	
GENOP130	00002	00001778	01870	01865	
GENOP140	00002	0000177C	01872	01863	
GENOP150	00002	0000179E	01882	01874	
GENOP152	00006	000017A6	01885	01881	
GENOP160	00002	000017B0	01887	01869 01884	
GENPRN1	00002	000015CE	01721	00656 01817 01823 01861	
GENPRN2	00002	000015E0	01734	00633 00659 00660 00723 01029 01820 01829 01888	
GENREG00	00004	000015F2	01749	00350 00396 00658 01278 01281 01357 01369 01381 01393 01396 01418 01435 01543 01546 01562	
				01578 01581 01597 01664 01684 01819 01867 01886	
GENREG01	00004	000015FA	01751	00312	
GENREG03	00002	0000161A	01759	01756	
GENREG05	00006	00001628	01763	01761	
GENREG10	00004	0000163E	01768	01766	
GENRRCCA	00001	00001FAC	02388	02091	
GENRRCCC	00001	00001FF3	02400	02092	
GENRRCCL	00001	0000202C	02410	02090	
GENRREZ0	00002	00001290	01403	02476	
GENRRE00	00002	00001268	01388	02462	
GENRRE30	00002	000012A0	01413	02477	
GENRR100	00002	00001134	01273	02457	
GENRR200	00002	0000115C	01289	02458	
GENRR210	00002	0000118A	01302	01308	
GENRR220	00002	000011A2	01309	01306	
GENRR300	00002	000011B0	01320	02459	
GENRR310	00002	000011F0	01337	01332	
GENRR320	00002	000011F8	01340	01334	
GENRR330	00002	000011FC	01342	01336 01339 01348	
GENRR340	00002	00001214	01349	01330 01344	
GENRR350	00002	00001220	01353	01346	
GENRR360	00002	00001226	01355	01352	
GENRR400	00002	00001234	01364	02460	
GENRR500	00002	0000124E	01376	02461	
GENRSI00	00002	000013EA	01538	02467	
GENRS100	00002	00001426	01557	02468	
GENRS200	00002	0000144C	01573	02469	
GENRS300	00002	00001480	01592	02470	
GENRXA00	00002	000012FA	01447	02464	
GENRX00	00002	000012BA	01426	02463	
GENRX05	00006	000012D6	01434	01431	
GENSIDLM	00003	00001BBA	02191	01528	
GENSI00	00002	000013BE	01521	02466	
GENSSE00	00002	00001598	01691	02475	
GENSS100	00002	000014BE	01613	02471	
GENSS200	00002	000014E8	01631	02472	
GENSS300	00002	00001520	01651	02473	
GENSS400	00002	0000155C	01671	02474	
GENS00	00002	0000131C	01462	02465	
GEN0015	00002	000000B8	00062	00054	
GEN0020	00004	000000E8	00078	00112	
GEN0030	00006	000000F8	00082	00079	
GEN0035	00004	00000142	00098	00081 00083 00085 00087	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
GEN0040	00002	0000017A	00110	00096 00099	
GEN0050	00002	00000182	00117	00075	
GEN0070	00002	000001AA	00129	00126 00128	
GEN0080	00002	000001BC	00135	00132	
GEN0090	00002	000001C0	00137	00134	
GEN0100	00002	000001D2	00143	00140	
GEN0130	00002	000002BE	00218	00163 00178	
GEN0140	00004	000002E4	00232	00235 00237 00241 00248	
GEN0160	00004	00000324	00252	00233	
GEN0170	00004	00000328	00254	00257 00261 00268	
GEN0180	00004	000003A4	00299	00255	
GEN0182	00004	000003C4	00307	00316	
GEN0186	00004	000003DC	00314	00307	
GEN0190	00004	000003FA	00325	00300	
GEN0200	00004	000003FE	00327	00332 00336 00354	
GEN0220	00004	00000418	00335	00330	
GEN0230	00006	00000420	00337	00333	
GEN0230L	00006	0000043C	00343	00341	
GEN0270	00004	00000474	00359	00328	
GEN0280	00004	00000478	00361	00364 00400	
GEN0282	00006	000004BC	00377	00371 00374	
GEN0290	00006	000004CC	00381	00368	
GEN0310	00002	00000500	00393	00380 00387	
GEN0330	00002	00000520	00405	00362	
GEN0340	00002	00000574	00430	01267 01282 01297 01304 01312 01358 01370 01382 01397 01407 01419 01441 01455 01468 01514 01531 01551 01566 01585 01606 01624 01644 01665 01685 01700	
GEN0350	00002	00000582	00434	00432	
GEN0354	00004	000005B6	00447	00444	
GEN0355	00006	000005CE	00453	00446	
GEN0356	00006	000005E8	00459	00454	
GEN0358	00006	00000606	00466	00448 00452 00456 00458 00460 00462 00464	
GEN0360	00002	0000060C	00467	00436 00438 00450	
GEN0363	00004	0000063E	00479	00477	
GEN0366	00004	0000064A	00483	00475 00480	
GEN0370	00002	00000682	00496	00488	
GEN0380	00002	00000692	00501	00486 00495	
GEN0390	00002	000006B6	00514	00222	
GEN0400	00004	0000071C	00543	00538 00540	
GEN0430	00004	00000B1A	00834	00846	
GEN0432	00004	00000B26	00838	00836	
GEN0458	00004	00000CEA	00972	00527	
GEN0460	00002	00000D18	00989	00525 00981	
GEN0478	00006	00000D78	01011	01007 01009	
GEN0485	00004	00000DA0	01020	01013 01015	
GEN0490	00002	00000DC0	01028	01019 01022	
GEN0500	00002	00000DC8	01031	00529	
GEN0528	00006	00000E12	01048	01044 01046	
GEN0530	00006	00000E38	01058	00531	
GEN0540	00002	00000EC2	01093	00533	
GEN0568	00006	00000F0C	01110	01106 01108	
GEN0570	00002	00000F16	01112	00636 00643 00661 00724 00727 00818 00820 00848 00890 00934 00936 00966 01030 01051 01055 01061 01090 01092	
GEN0590	00002	00000F94	01142	01139	
GEN0600	00002	00000F9E	01148	00423 00607 00688 00810 00826 00869 00923 00961 00994 01036 01059 01073 01098	
GEN0650	00006	00001012	01177	01172	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
GEN07LUP	00006	00001092	01216	01222	
GEN0700	00002	0000102E	01186	00220	
GEN0710	00002	0000106E	01205	01215 01217 01219 01221 01225	
GEN0720	00002	000010C0	01226	02289	
GEN0730	00002	000010DA	01237	01195	
GEN0800	00002	000010E6	01244	01236	
GETMAIN	00004	00000684	03367	02069	
GETOPENT	00004	000004C8	03192	00410	
GETOPEXT	00004	00000546	03228	03221	
GETOPLN	00001	0000055A	03233	03199	
GETOPNOT	00004	0000054E	03230	03204 03214 03219 03227	
GETOPTMK	00004	00000526	03220	03205	
GETOPWRK	00006	0000055E	03234	03224 03224 03226 03232	
HEXDC	00002	00001BB6	02189	00827	
HEXTRT	00001	00000868	03460	03461 03463 03465 03467 03469	
INTTRT	00001	00000968	03471	03472 03474 03476	
LABELBMP	00004	000002AC	00210	00167 00170 00181 00184	
LABEEOF	00004	000002BA	00213	00174	
LABELOOP	00004	000001F6	00162	00212	
LABELSET	00006	0000020A	00169	00164	
LABLDISP	00004	00000014	02827	00127 00175 00177 00189 00198 00201 00211	
LABLDSCT	00001	00000000	02823	00124 00622 01003 01781 01992 02045 02839	
LABLNAME	00008	0000000C	02826	00169 00171 00183 00192 00622 00622 01003 01796 01796 01995 02046	
LABLNEXT	00004	00000000	02824	00125 00173 00210 01993 02048	
LABLSTMT	00005	0000001C	02829	01997	
LABLXREF	00004	00000018	02828	02060	
LENMASK	00004	00000D14	00984	00972	
LOCLABEL	00008	00001BD9	02197	00171 00370 00372 00375 00471 00472 00472 01116 01117 01117	
MAINRSV	00004	00000858	03458	03367 03373 03375 03379 03382 03388	
MAKEEQPV	00002	00000238	00180	00176	
MAKEEQU	00006	0000023E	00183	00166	
MAKEEQUO	00006	0000029C	00205	00199	
MODENT	00004	00000064	00039	00035	
MODHEAD	00023	00000005	00037	00036	
MODSAVE	00004	0000001C	00038	00045	
NBLTRT	00001	00000B68	03505	03506 03508	
OBJIN	00008	00001C94	02235	01164 01165 01181	
OBJMVC1	00006	00001022	01181	01163	
OBJOUT	00016	00001C9C	02236	01164 01165 01166 01167 01177 01938 01939 01940 01942 01943 01944 01958 01959 01960	
OPCMNT	00012	00000008	03567	00439 00442 00466 00466 00466	
OPDSECT	00001	00000000	03527	00414 03202 03565	
OPFLAGS	00001	00000007	03556	00431 00433 00435 00440 01296 01432 03220	
OPFLAG1	00001	00000001	03529	03209	
OPFLAG2	00001	00000002	03530	03211	
OPFLAG3	00001	00000003	03531	03213	
OPFORM	00001	00000006	03532	00425	
OPLNGTH	00002	00001B2C	02170	00413 00502 00503 00606 00608 00687 00689 00809 00812 00825 00829 00868 00870 00922 00928	
				00960 00993 01035 01058 01072 01077 01097 01113 01114 01157	
OPMASK	00006	00000008	03566	00442 03226	
OPMNEM	00006	00000000	03528	00419 01156 03529 03530 03531	
PACKTBL	00001	00001EAC	02322	00866 00875 00894 02323 02325 02327 02329 02331 02333 02335 02337 02339 02341 02343 02345	
				02347 02349 02351 02353 02355 02357 02359 02361 02363 02365 02367 02369 02371 02373 02375	
				02377 02379 02381	
PRINTCLR	00004	00000702	03423	02026	
PRINTDAT	00004	000006F0	03418	00061 03314	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
PRINTFG1	00001	00000165	03065	03307	03309														
PRINTFG2	00001	00000166	03073	00053	02024	02057													
PRINTMVR	00006	000006E6	03415	03412															
PRINTREC	00004	000006EC	03417	02021	03336	03414													
PRINTREX	00004	000006FE	03422	03406															
PRINTRSV	00004	00000848	03457	02059	02073	03403	03413	03418	03422	03439	03443								
PRTBLOK	00001	0000070E	03427	03419															
PRTCC	00001	0000070F	03434	03423															
PRTCMD	00001	0000070E	03428	00060	03313	03417	03438												
PRTDATA	00132	00000710	03435	00068	00091	00107	00205	00318	00351	00397	00473	01118	01921	01922	01923	01924	01925	01926	
				01927	01929	01930	01931	01936	01937	01940	01941	01944	01956	01957	01960	01965	02014	02016	
				02018	02019	03321	03322	03323	03324	03325	03326	03327	03328	03329	03330	03331	03333	03334	
				03335	03407	03415	03424	03424											
PRTFLAG	00001	00001B2E	02175	00059															
PRTSTMT	00006	0000191E	02016	00070	00095	00109	00207	00320	00353	00399	00484	01120							
PRTTRT	00006	00001ABC	02136	00752															
PRTUSER	00006	00001918	02014	01190	01193	01224	01248	01255											
PRT0000	00004	00001936	02021	01933	01946	01962	01967												
PRT0010	00002	0000194E	02027	02023	02025														
PUNBLOK	00001	000007B2	03446	03440															
PUNCHCRD	00006	00000794	03437	02003															
PUNCH000	00006	000018D4	01986	00069	00094	00108	00206	00319	00352	00398	00483	01119	01189	01192	01223	01247	01254		
PUNCH010	00004	000018EA	01993	01996															
PUNCH020	00006	00001902	01999	01989	01994														
PUNDATA	00080	000007B4	03452	03437															
REFDISPI	00004	0000001C	02853	00133	00489	00637													
REFDISP1	00004	00000014	02851	00626	01786														
REFDISP2	00004	00000018	02852	01791															
REFDSCT	00001	00000000	02846	00131	02856														
REFLABEL	00004	00001982	02057	00478	00481	00623	01004	02047											
REFLABEM	00002	00001990	02062	02066															
REFLABEN	00004	000019A8	02068	02064															
REFLABEZ	00004	000019C0	02073	02067															
REFNEXT	00004	00000000	02847	00487	00634														
REFOPER1	00004	0000000C	02849	00476	00619	01787													
REFOPER2	00004	00000010	02850	00479	01792														
REGNAME	00002	00001ACC	02145	01758															
RLDDATA	00001	00000000	02863	02881															
R0	00001	00000000	03582	00198	00238	00238	00239	00243	00244	00245	00246	00247	00258	00258	00259	00263	00264	00265	
				00266	00267	00278	00289	00386	00391	00413	00415	00415	00572	00572	00573	00575	00577	00626	
				00631	00675	00676	00696	00708	00774	00775	00776	00779	01021	01026	01299	01305	01754	01758	
				01759	02068	03192	03198	03198	03199	03222	03270	03289	03306	03345	03369	03374	03378	03384	
				03407	03408	03410	03413												
R1	00001	00000001	03583	00056	00057	00063	00092	00195	00200	00202	00202	00203	00242	00243	00245	00262	00263	00265	
				00311	00339	00342	00343	00344	00347	00375	00378	00382	00385	00388	00389	00389	00390	00409	
				00621	00625	00628	00629	00629	00630	00749	00754	00755	00757	00759	00765	00769	00771	00772	
				00774	00778	00828	00842	00847	00863	00864	00874	00877	00880	00882	00882	00888	00889	00896	
				00897	00901	00926	00927	00964	00965	01016	01017	01017	01018	01020	01023	01024	01024	01025	
				01040	01049	01102	01111	01157	01158	01160	01161	01161	01162	01163	01168	01169	01169	01170	
				01178	01179	01210	01213	01252	01300	01301	01307	01307	01335	01338	01341	01343	01345	01347	
				01347	01354	01488	01491	01494	01496	01498	01500	01500	01508	01749	01750	01751	01759	01763	
				01824	01824	01825	01826	01826	01827	01837	01837	01838	01843	01843	01844	01847	01848	01875	
				01875	01876	01877	01877	01878	01901	01902	01904	01905	01908	01914	01969	02002	02046	02059	
				02070	02071	02072	02073	03194	03208	03228	03230	03232	03269	03271	03275	03275	03276	03278	
				03280	03367	03373	03374	03375	03379	03403	03405	03415	03418	03419	03422	03437	03439	03440	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
				03443															
R10	00001	0000000A	03592	00041	00042	00042	00043												
R11	00001	0000000B	03593	00044	03191	03268	03305	03366	03402										
R12	00001	0000000C	03594	00039	00040	00042	00043	02034	03282										
R13	00001	0000000D	03595	00039	00046	00047	00048	02033	02033	02034									
R14	00001	0000000E	03596	00039	00045	00046	00047	00048	00050	00061	00064	00093	00152	00153	00154	00155	00156	00196	
				00240	00260	00284	00288	00293	00313	00345	00376	00383	00410	00419	00420	00421	00469	00478	
				00481	00491	00492	00493	00498	00508	00516	00517	00518	00519	00520	00545	00546	00547	00548	
				00549	00611	00623	00639	00640	00641	00682	00683	00697	00698	00700	00705	00707	00707	00709	
				00714	00715	00715	00716	00717	00717	00719	00725	00726	00759	00768	00771	00775	00778	00782	
				00807	00823	00833	00844	00873	00880	00881	00881	00891	00892	00893	00896	00899	00908	00909	
				00910	00920	00944	00958	00974	00976	00980	00991	01004	01005	01033	01041	01042	01070	01095	
				01103	01104	01124	01125	01126	01127	01128	01134	01135	01136	01161	01175	01176	01197	01211	
				01222	01228	01239	01253	01264	01275	01291	01322	01324	01324	01325	01326	01328	01345	01366	
				01378	01390	01405	01415	01428	01449	01464	01477	01479	01479	01480	01481	01483	01498	01523	
				01540	01559	01575	01594	01615	01633	01653	01673	01693	01709	01710	01711	01711	01712	01722	
				01723	01724	01724	01725	01735	01736	01737	01737	01738	01752	01753	01757	01762	01762	01763	
				01764	01764	01765	01767	01767	01768	01795	01796	01798	01800	01800	01803	01806	01807	01807	
				01808	01907	01910	01910	01911	01914	01968	02003	02027	02031	02034	02036	02050	02058	02059	
				02069	02073	02074	03195	03196	03197	03199	03206	03206	03208	03210	03212	03213	03215	03215	
				03216	03217	03228	03229	03231	03283	03290	03314	03336	03346	03367	03378	03379	03380	03382	
				03388	03389	03403	03413	03418	03421	03422	03425	03439	03442	03443	03444				
R15	00001	0000000F	03597	00035	00040	00172	00180	00204	00312	00348	00350	00392	00394	00396	00412	00424	00424	00425	
				00426	00427	00428	00428	00429	00439	00442	00451	00457	00465	00466	00534	00539	00541	00542	
				00543	00583	00584	00585	00610	00614	00616	00622	00624	00632	00633	00653	00656	00658	00659	
				00660	00665	00666	00667	00684	00685	00686	00720	00723	00732	00733					

SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18					
R8	00001	00000008	03590	00166	00181	00208	00230	00231	00232	00252	00253	00254	00273	00304	00305	00306	00306	00311	
				00314	00314	00315	00325	00326	00327	00359	00360	00361	00406	00406	00407	00412	00414	00522	
R9	00001	00000009	03591	00069	00070	00094	00095	00108	00109	00206	00207	00299	00305	00307	00307	00319	00320	00352	
				00353	00398	00399	00423	00483	00484	00537	00539	00541	00564	00565	00567	00567	00575	00577	
				00580	00582	00583	00604	00606	00607	00608	00663	00665	00672	00679	00683	00684	00687	00688	
				00689	00729	00731	00732	00736	00738	00746	00748	00749	00750	00765	00772	00782	00783	00784	
				00786	00787	00791	00793	00794	00796	00798	00799	00803	00806	00809	00810	00812	00813	00822	
				00825	00826	00857	00859	00868	00869	00901	00902	00904	00905	00907	00908	00916	00919	00922	
				00923	00928	00929	00939	00941	00943	00952	00956	00960	00961	00994	01036	01059	01065	01067	
				01069	01072	01073	01077	01079	01081	01085	01098	01119	01120	01180	01189	01190	01192	01193	
				01223	01224	01247	01248	01254	01255	01440	01454	01467	01513	01526	01565	01584	01605	01620	
				01623	01638	01643	01658	01661	01678	01681	01696	01699	01814	01816	01821	01830	01855	01859	
				01889	01933	01946	01962	01967	02001	02004	02028								
SAVEFLAG	00001	00001B2F	02177	00433	01331	01333	01484	01486											
SEQMASK	00001	00001CB5	02238	02018															
SRC	00001	00001C1C	02212	00068	00088	00088	00091	00101	00101	00107	00185	00185	00205	00301	00301	00318	00337	00337	
				00351	00365	00365	00397	00473	01118	01149	01149	01187	01187	01245	01245	01249	01249	02014	
				02016	02018	02019	02234												
SRCCMNT	00025	00001C72	02231	00437	00466	01076	01313												
SRCDISP	00006	00001C1C	02213	00067	00189	00189	00189	00189	00190	00191	00191	01153	01153	01153	01153	01154	01155	01155	
SRCL	00001	00000078	02234	00068	00088	00091	00101	00107	00185	00205	00301	00318	00337	00351	00365	00397	00473	01118	
				01149	01187	01245	01249	02014											
SRCLABL	00008	00001C44	02225	00065	00192	00471	01116	01213	01988	01995	02002	02230							
SRCMNEM	00005	00001C4D	02227	00066	00089	00102	00105	00193	00302	00338	00366	01060	01074	01156	01171	01188	01191	01246	
				01250	01354	01503	01508												
SRCOBJ1	00004	00001C23	02214	00443	00445	00447	00449	00453	00455	00459	00461	00463	01056	01170	01173	01174	01174	01177	
				01182	01529														
SRCOPER	00035	00001C53	02229	00090	00106	00194	00197	00303	00317	00343	00344	00346	00369	00372	00377	00381	00384	00609	
				00610	00614	00615	00690	00693	00694	00695	00698	00700	00704	00704	00705	00709	00811	00816	
				00817	00819	00819	00827	00828	00872	00874	00887	00924	00926	00932	00933	00935	00935	00937	
				00962	00964	00995	00996	00999	01003	01008	01010	01010	01011	01037	01038	01039	01045	01047	
				01047	01048	01075	01088	01089	01091	01091	01099	01100	01101	01107	01109	01109	01110	01178	
				01251	02137														
SRCSEQ	00008	00001C8C	02233	01986	01987	01987	02016	02016	02016	02017									
SRCSTMT	00005	00001C3E	02222	02017	02018	02018	02019	02019	02019	02238									
SUBHEAD	00001	00001BE1	02198	00055	02210														
SUBHEADL	00001	0000003A	02210	00055	00056														
SVCCMNT	00001	00000002	03608	01313															
SVCCMVC	00006	000011AA	01313	01311															
SVCDESC	00001	00002178	02484	02143															
SVCDSECT	00001	00000000	03604	01301	03607														
SVCLEN	00001	00000000	03605	01303															
SVCNBR	00001	00000001	03606	01305															
SVCSIZE	00001	00000002	03607	01307															
SYMDATA	00001	00000000	02888	02893															
SYSIN	00004	00001E4C	02271	01203	01207	01234													
TESTBAS	00004	00000386	00285	00277															
TESTBASL	00004	0000038A	00287	00290	00292														
TESTUSE	00004	00000360	00274	00240	00260														
TESTUSEL	00004	00000364	00276	00279	00281	00283													
TPODA1A	00008	00000017	03350	03323	03323	03324	03324	03325	03325										
TPODA1B	00008	00000020	03351	03326	03326	03327	03327	03328	03328										
TPODA2A	00008	0000002A	03352	03329	03329	03330	03330	03331	03331										
TPODA2B	00008	00000033	03353	03333	03333	03334	03334	03335	03335										

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
TPOMOD	00008	00000003	03348	03321	03321														
TPOTID	00008	0000000D	03349	03322	03322														
TRACEPEN	00004	00000662	03345	03308	03317	03340													
TRACEPIN	00004	00000646	03338	03316	03320														
TRACEPPR	00004	000005E2	03319	03342	03344														
TRACEPRT	00004	000005B0	03306	01968															
TRACESHD	00027	00000668	03354	03310	03310	03311													
TRACE000	00002	00000564	03267	00050	00156	00421	00469	00493	00498	00508	00520	00549	00641	00807	00823	00920	00944	00958	
				00991	01033	01070	01095	01128	01136	01197	01228	01239	01264	01275	01291	01322	01366	01378	
				01390	01405	01415	01428	01449	01464	01477	01523	01540	01559	01575	01594	01615	01633	01653	
				01673	01693	02031													
TRACE010	00002	00000580	03279	03277															
TRACE020	00002	000005A8	03288	03272															
TRCESAVE	00004	00000808	03456	03192	03228	03230	03270	03289	03306	03345									
TRCURR	00004	000000D4	02993	03271	03280	03315	03339												
TRDATA1	00008	000000E0	02996	00153	00418	00492	00506	00517	00546	00640	00806	00822	00919	00943	00956	01069	01125	01133	
				03284	03286	03286													
TRDATA2	00008	000000E8	02997	00155	00420	00507	00519	00548	00957	01127	01135	03285	03287	03287					
TREDATA1	00008	00000010	03518	03284	03323	03326													
TREDATA2	00008	00000018	03519	03285	03329	03332													
TREID	00008	00000008	03517	03283	03322														
TREMOD	00008	00000000	03516	03282	03319	03321													
TRENTYR	00001	00000000	03515	03269	03318	03337	03337	03520											
TRENTYRL	00001	00000020	03520	03275	03337	03338													
TRLAST	00004	000000CC	02991	03276	03341														
TRMSKDC	00001	00001D53	02247	01182	02247														
TRMSK1	00001	00001CBB	02239	01169	01170	01177	02117												
TRMSK2	00001	00001CCE	02240	01170	01177	02117													
TR1ST	00004	000000C4	02989	03278	03343														
USNGBASE	00001	00000030	02910	00239	00278	00349													
USNGBEGN	00004	00000028	02908	00282	00335														
USNGDSCT	00001	00000000	02900	00231	00275	00326	02914												
USNGDSNM	00008	0000000C	02903	00342															
USNGEND	00004	0000002C	02909	00236															
USNGFLAG	00001	00000031	02911	00234	00280	00329													
USNGLBNM	00008	00000014	02904	00339	00340														
USNGNEXT	00004	00000000	02901	00232	00276	00327													
USNGOPCD	00006	00001BA4	02186	00338	00366														
VERPSECT	00001	00000000	02921	02927															
WORKBASE	00001	00001B2A	02167	01848	01858	01868	01883	01885											
WORKNBR	00004	00001B24	02160	00201	00391	00543	00545	00564	00631	00651	00652	00669	00669	00676	00681	00681	00682	00682	
				00710	00718	01026	01293	01293	01294	01327	01327	01328	01482	01482	01483	01548	01548	01549	
				01599	01599	01600	01601	01786	01791	01804	01804	01827	01835	01835	01836	01841	01841	01842	
				01846	01878	01901													
WORKOPER	00001	00001B28	02161	01439	01453	01466	01510	01525	01564	01583	01604	01619	01622	01637	01642	01657	01660	01677	
				01680	01695	01698	01784	01811	01813	01832	01850	01852	01862	01873					
WORKREG	00001	00001B2B	02168	00349	00395	00657	01277	01280	01356	01368	01380	01392	01395	01417	01434	01542	01545	01561	
				01577	01580	01596	01663	01683	01750	01818	01866	01885							
WORKX	00001	00001B29	02166	01437	01438	01451	01452	01511	01512	01617	01635	01636	01640	01641	01655	01656	01675	01676	
				01815	01818	01825	01854	01854	01864	01866	01876								

SOURCE	SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
	=C'XLNNN''0'''					
		00008	000019C8	02078	00811 01075	
	=16C'0'	00001	000019D0	02079	01056	
	=A(FMTTABLE)					
		00004	000019E0	02080	00427	
	=CL12'BASE'					
		00012	000019E4	02081	00451	
	=CL12'DECREMENT'					
		00012	000019F0	02082	00457	
	=X'00000FFF'					
		00004	000019FC	02083	00652	
	=C'AL0('	00004	00001A00	02084	00690 00995	
	=X'FFFFFFFF'					
		00004	00001A04	02085	00718	
	=X'F0202120'					
		00004	00001A08	02086	00814 00930 01086	
	=C'+X''80000000'''					
		00012	00001A0C	02087	01016	
	=C'VLO('	00004	00001A18	02088	01037	
	=C'QLO('	00004	00001A1C	02089	01099	
	=A(GENRRCCCL)					
		00004	00001A20	02090	01335	
	=A(GENRRCCA)					
		00004	00001A24	02091	01338	
	=A(GENRRCCC)					
		00004	00001A28	02092	01341	
	=A(GENBCCL)					
		00004	00001A2C	02093	01488	
	=A(GENBCCA)					
		00004	00001A30	02094	01491	
	=A(GENBCCC)					
		00004	00001A34	02095	01494	
	=H'16'	00002	00001A38	02096	00315 00857	
	=C'05'	00002	00001A3A	02097	00443	
	=C'0D'	00002	00001A3C	02098	00445	
	=C'06'	00002	00001A3E	02099	00453	
	=C'45'	00002	00001A40	02100	00459	
	=H'52'	00002	00001A42	02101	00580 00939	
	=H'2'	00002	00001A44	02102	00604 00672	
	=C'S('	00002	00001A46	02103	00609	
	=H'8'	00002	00001A48	02104	00663 00791 00803 01158	
	=H'4'	00002	00001A4A	02105	00679	
	=H'256'	00002	00001A4C	02106	00729 00731 00746 00784 00786 00796 00798 01065	
	=H'26'	00002	00001A4E	02107	00736	
	=H'3'	00002	00001A50	02108	00755 00776	
	=H'9'	00002	00001A52	02109	00794 00905	
	=H'33'	00002	00001A54	02110	00838 00885	
	=H'6'	00002	00001A56	02111	00878 00883	
	=C'0'''	00002	00001A58	02112	00889	
	=H'133'	00002	00001A5A	02113	00902	
	=H'49'	00002	00001A5C	02114	00914	
	=C'CLNNN'''					
		00006	00001A5E	02115	00924	
	=C'FILLER'					
		00006	00001A64	02116	01076	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
=AL2(TRMSK2-TRMSK1)					
	00002	00001A6A	02117	01168	
=C'PRINT ON,NOGEN'					
	00014	00001A6C	02118	01191	
=C'ASM START '					
	00010	00001A7A	02119	01214	
=C'EXTRN'					
	00005	00001A84	02120	00102	
=C'EQU'	00003	00001A89	02121	00193	
=C'L2('	00003	00001A8C	02122	00615	
=C'P' '-'	00003	00001A8F	02123	00872	
=C'DC '	00003	00001A92	02124	01171	
=C'SPACE 1'					
	00007	00001A95	02125	01188	
=C' END '					
	00005	00001A9C	02126	01216	
=C' YREGS '					
	00007	00001AA1	02127	01218	
=C' PRINT '					
	00007	00001AA8	02128	01220	
=C'YREGS ,'					
	00007	00001AAF	02129	01246	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	2353
TOTAL RECORDS READ FROM SYSTEM LIBRARY	5248
TOTAL RECORDS PUNCHED	210
TOTAL RECORDS PRINTED	3448

SYMBOL

TYPE

ID

ADDR

LENGTH

LDID

ASM 0201 00.48 07/11/18

DISASM13

SD

0001

000000

000C5C

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	COPY DISASMGB	00020000
				3 *	-----	* 00010000
				4 *		* 00020000
				5 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				6 *		* 00040000
				7 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				8 *		* 00060000
				9 *	-----	* 00070000
				10	GBLA &TRNBRG,&MAXL,&MINL	00080000
				11	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				12	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				13	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				14 *	-----	* 00030000
				15 *		* 00040000
				16 *	MODULE NAME: DISASM13	* 00050000
				17 *		* 00060000
				18 *	FUNCTION:	* 00070000
				19 *	OBJECT DECK READER. THIS MODULE REPLACES THE LOAD MODULE	* 00080000
				20 *	PROCESSING DONE BY DISASM03 WITH OBJECT DECK PROCESSING.	* 00090000
				21 *	DISMOD DD INPUT MAY BE A SEQUENTIAL DATA SET, OR PDS MEMBER	* 00100000
				22 *	OBJECT TEXT. THE PROGRAM PROCESSES ESD, TXT, AND RLD CARDS,	* 00110000
				23 *	AND OPTIONALLY HANDLES SYM TEXT. CALLS DISASM04/05/55.	* 00120000
				24 *		* 00130000
				25 *	IF THE MODULE IS SUCCESSFULLY READ AND THE REQUESTED CSECT	* 00140000
				26 *	LOCATED, COMMTXT WILL BE SET TO THE CSECT'S STORAGE ADDRESS,	* 00150000
				27 *	COMMCSAD WILL BE THE CSECT'S ADDRESS WITHIN THE LOAD MODULE,	* 00160000
				28 *	COMMCSAD WILL BE THE CSECT'S ADDRESS WITHIN THE LOAD MODULE,	* 00170000
				29 *	BE THE CSECT'S ENDING ADDRESS WITHIN THE LOAD MODULE, AND	* 00180000
				30 *	COMMCSLN WILL THE THE CSECT'S LENGTH.	* 00190000
				31 *		* 00200000
				32 *	-----	* 00210000
				33 *		* 00220000
				34 *	DISASM13 IS CALLED FROM DISASM03, WITH THE JFCB ADDRESS FOR	* 00230000
				35 *	DISMOD IN R0, AND THE FMT 1 DSCB (SANS DSN) IN R1.	* 00240000
				36 *		* 00250000
				37 *	-----	* 00260000
				38	PRINT NOGEN GP10056	00270000
				39	DISASM13 MODHEAD BASE=(R12,R8) HOUSEKEEPING	00280000
000080	1820			55	LR R2,R0 COPY THE JFCB	00290000
		00B20		56	USING INFMJFCB,R2	00300000
		00BD0		57	USING IECSDSL1,R1	00310000
000082	BE27	CB19	00B19	58	STCM R2,7,EXITLIST+1 COMPLETE EXIT LIST	00320000
000086	9648	2034	00B54	59	OI JFCBTSDM,JFCNWRIT+JFCVSL NO REWRITE; MODIFIED	00330000
00008A	9601	C644	00644	60	OI MODFLAG,\$SEQ SET FOR SEQUENTIAL INPUT	00340000
00008E	9520	B002	00002	61	CLI COMMDWRD+2,X'20' DASD ?	00350000
000092	4770	C0B0	000B0	62	BNE READSEQ NO; MUST BE SEQUENTIAL OBJECT DECK	00360000
000096	9102	1052	00C22	63	TM DS1DSORG,DS1DSGPO PARTITIONED ?	00370000
00009A	4780	C0B0	000B0	64	BZ READSEQ NO; MUST BE SEQUENTIAL	00380000
00009E	D257	CA68	00A68 00AC0	65	MVC DISMOD(DISMODL),DISMODPO OVERLAY	00390000
0000A4	9101	2056	00B76	66	TM JFCBIND1,JFCPDS MEMBER NAME SPECIFIED ?	00400000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0000A8	4770	C0B0	000B0		67	BNZ	READSEQ YES	00410000
0000AC	94FE	C644	00644		68	NI	MODFLAG,255-\$SEQ RESET SEQUENTIAL INPUT	00420000
					69	DROP	R1,R2	00430000
					70	READSEQ	OPEN (DISMOD,INPUT),TYPE=J OPEN DISMOD	00440000
0000BA	9110	CA98	00A98		76	TM	DCBOFLGS+DISMOD-IHADCB,DCBOFOPN OPEN ?	00450000
0000BE	4780	C4D0	004D0		77	BZ	BADFILE OOPS	00460000
0000C2	9101	C644	00644		78	TM	MODFLAG,\$SEQ TEST FOR SEQUENTIAL INPUT	00470000
0000C6	4770	C172	00172		79	BNZ	SKIPMEM SKIP MEMBER STUFF	00480000
0000CA	D207	C5F4	B144 005F4	00144	80	MVC	DIRMEM,COMMOMD SET MEMBER NAME = MODULE NAME	00490000
0000D0					81	MOD0010	DS OH	00500000
					82		BLDL DISMOD,BLDLIST	00510000
0000DE	12FF				87	LTR	R15,R15	00520000
0000E0	4770	C45A	0045A		88	BNZ	ERR0010 NO	00530000
0000E4	D207	C66E	C5F4 0066E	005F4	89	MVC	MSG01MEM,DIRMEM SET MEMBER NAME	00540000
0000EA	9180	C601	00601		90	TM	DIRINDS,\$ALIAS IS THIS AN ALIAS?	00550000
0000EE	4710	C0FC	000FC		91	BO	MOD0020 YES	00560000
0000F2	D202	C686	C649 00686	00649	92	MVC	MSG01ALS,NO NOT AN ALIAS	00570000
0000F8	47F0	C102	00102		93	B	MOD0030	00580000
0000FC					94	MOD0020	DS OH	00590000
0000FC	D202	C686	C64C 00686	0064C	95	MVC	MSG01ALS,YES MEMBER IS AN ALIAS	00600000
000102					96	MOD0030	DS OH	00610000
000102	F363	C6A7	C602 006A7	00602	97	UNPK	MSG01TXT(7),DIRTTTR(4)	00620000
000108	DC05	C6A7	B185 006A7	00185	98	TR	MSG01TXT,COMMHXTR TRANSLATE TO PRINTABLE	00630000
00010E	9240	C6AD	006AD		99	MVI	MSG01TXT+6,C' ' RESTORE BLANK	00640000
000112	D24A	B710	C662 00710	00662	100	MVC	PRTDATA(MSG01L),MSG01 SET MESSAGE	00650000
000118	45A0	C522	00522		101	BAL	R10,PRT0000 PRINT MESSAGE	00660000
00011C					102	MOD0230	DS OH	00670000
					103	FIND	DISMOD,DIRMTTRZ,C POINT TO 1ST BLOCK	00680000
000134	12FF				110	LTR	R15,R15 POINT SUCCESSFUL?	00690000
000136	4780	C172	00172		111	BZ	SKIPMEM YES	00700000
00013A	42F0	C647	00647		112	STC	R15,POINTR15 SAVE RETURN CODE	00710000
00013E	4200	C648	00648		113	STC	R0,POINTR0 SAVE REASON CODE	00720000
000142	4110	C8D7	008D7		114	LA	R1,PNTMSGs MESSAGE TABLE ADDRESS	00730000
000146					115	MOD0240	DS OH	00740000
000146	95FF	1000	00000		116	CLI	O(R1),X'FF' END OF TABLE?	00750000
00014A	4780	C4F4	004F4		117	BE	ERR0070 YES	00760000
00014E	D501	C647	1000 00647	00000	118	CLC	PNTCODE,0(R1) MESSAGE FOUND?	00770000
000154	4780	C160	00160		119	BE	MOD0250 YES	00780000
000158	4110	1039	00039		120	LA	R1,PNTMSG(,R1) NEXT MESSAGE	00790000
00015C	47F0	C146	00146		121	B	MOD0240 LOOP	00800000
000160					122	MOD0250	DS OH	00810000
000160	D236	B710	1002 00710	00002	123	MVC	PRTDATA(PNTMSG(2),2(R1)	00820000
000166	96C0	B163	00163		124	OI	COMMFLAG,\$ERROR+\$ABORT	00830000
00016A	45A0	C522	00522		125	BAL	R10,PRT0000 PRINT MESSAGE	00840000
00016E	47F0	C2AA	002AA		126	B	EXIT0000 AND EXIT	00850000
					128	*-----*		00870000
					129	* COMMON READ/PROCESS CODE FOR SEQUENTIAL AND PARTITIONED INPUT *		00880000
					130	*-----*		00890000
000172					131	SKIPMEM	DS OH	00900000
000172	9140	C644	00644		132	READLOOP	TM MODFLAG,\$MODEOF EOF FLAG ON?	00910000
000176	4710	C29C	0029C		133	BO	CALLSYMT YES; CALL SYMT PROCESSOR	00920000
00017A	45A0	C3AC	003AC		134	BAL	R10,READ0000 READ A RECORD	00930000
					135	ITRACE	ID=OBJTYPE, +00940000	
							DATA1=SRCCARD, .. CAPTURE 8 BYTES OF DATA *00950000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
							DATA2=SRCCARD+8 .. CAPTURE 8 BYTES OF DATA	00960000
00019E	9502	C59F	0059F		142		CLI SRCCARD,X'02' IS IT AN OBJECT CARD ?	00970000
0001A2	4770	C1D8	001D8		143		BNE CARDCOPY NO; JUST COPY	00980000
0001A6	D502	C556	C5A0	00556	005A0		CLC =C'TXT',SRCTYPE TEXT CARD?	00990000
0001AC	4780	C2CE	002CE		145		BE PROTEXT YES; PROCESS	01000000
0001B0	D502	C559	C5A0	00559	005A0		CLC =C'RLD',SRCTYPE RLD CARD?	01010000
0001B6	4780	C234	00234		147		BE PRORLD YES; PROCESS	01020000
0001BA	D502	C55C	C5A0	0055C	005A0		CLC =C'ESD',SRCTYPE ESD CARD?	01030000
0001C0	4780	C1E4	001E4		149		BE PROCESD YES; PROCESS	01040000
0001C4	D502	C55F	C5A0	0055F	005A0		CLC =C'SYM',SRCTYPE SYM CARD?	01050000
0001CA	4780	C32E	0032E		151		BE PROCSYM YES; PROCESS	01060000
0001CE	D502	C562	C5A0	00562	005A0		CLC =C'END',SRCTYPE END CARD?	01070000
0001D4	4780	C256	00256		153		BE PROSEND YES; PROCESS	01080000
0001D8	45A0	C506	00506		154	CARDCOPY	BAL R10,PUN0000 PUNCH IT	01090000
0001DC	45A0	C516	00516		155		BAL R10,PRTUSER PRINT IT AND CLEAR LINE	01100000
0001E0	47F0	C172	00172		156		B READLOOP GET ANOTHER	01110000
					158	*-----*		01130000
					159	* PROCESS AN ESD CARD		* 01140000
					160	* IN ORDER TO CALL DISASM04, WE NEED CHANGE ESDTYPE 1 TO 3		* 01150000
					161	*-----*		* 01160000
0001E4	BF13	C5AD	005AD		162	PROCESD	ICM R1,3,SRCTEID GET ESD ID	01170000
0001E8	1B22				163	SR	R2,R2 GP10066	01180000
0001EA	BF23	C5A9	005A9		164	ICM	R2,3,SRCTLEN GET TEXT LENGTH	01190000
0001EE	58A0	B0F4	000F4		165	L	R10,COMMIO LOAD I/O BUFFER ADDRESS	01200000
0001F2	41F0	C5A7	005A7		166	LA	R15,SRCTEXT-8	01210000
0001F6	50F0	B0F4	000F4		167	ST	R15,COMMIO TEMP REPLACE	01220000
0001FA	BE13	C5AB	005AB		168	STCM	R1,3,SRCTEXT-4	01230000
0001FE	BE23	C5AD	005AD		169	STCM	R2,3,SRCTEXT-2 FAKE LOAD CESD RECORD	01240000
000202	8A20	0004	00004		170	SRA	R2,4 CONVERT LENGTH TO COUNT GP10066	01250000
000206	47D0	C22C	0022C		171	BNP	PROCESDX IGNORE BAD CARD GP10066	01260000
00020A	4130	C5AF	005AF		172	LA	R3,SRCTEXT POINT TO FIRST FIELD GP10066	01270000
00020E	9501	3008	00008		173	PROCESDL	CLI 8(R3),X'01' ENTRY ? GP10066	01280000
000212	4770	C21A	0021A		174	BNE	*+8 NO; LEAVE IT GP10066	01290000
000216	9203	3008	00008		175	MVI	8(R3),X'03' USE LOAD MODULE ENTRY CODE GP10066	01300000
00021A	9201	300C	0000C		176	MVI	12(R3),X'01' FAKE SEGMENT NUMBER GP10066	01310000
00021E	4130	3010	00010		177	LA	R3,16(,R3) NEXT ENTRY GP10066	01320000
000222	4620	C20E	0020E		178	BCT	R2,PROCESDL CLEAN IT GP10066	01330000
000226	58F0	B040	00040		179	L	R15,A04 GET CESD PROCESSOR	01340000
00022A	05EF				180	BALR	R14,R15 CALL IT	01350000
00022C	50A0	B0F4	000F4		181	PROCESDX	ST R10,COMMIO FIX BUFFER ADDRESS	01360000
000230	47F0	C172	00172		182	B	READLOOP GET NEXT CARD	01370000
					184	*-----*		01390000
					185	* PROCESS AN RLD CARD		* 01400000
					186	*-----*		* 01410000
000234	BF23	C5A9	005A9		187	PRORLD	ICM R2,3,SRCTLEN GET TEXT LENGTH	01420000
000238	5830	B0F4	000F4		188	L	R3,COMMIO LOAD I/O BUFFER ADDRESS	01430000
00023C	41F0	C59F	0059F		189	LA	R15,SRCTEXT-16	01440000
000240	50F0	B0F4	000F4		190	ST	R15,COMMIO TEMP REPLACE	01450000
000244	BE23	C5A5	005A5		191	STCM	R2,3,SRCTEXT-10 SET LENGTH GP10072	01460000
000248	58F0	B04C	0004C		192	L	R15,A05 GET RLD PROCESSOR	01470000
00024C	05EF				193	BALR	R14,R15 CALL IT	01480000
00024E	5030	B0F4	000F4		194	ST	R3,COMMIO FIX BUFFER ADDRESS	01490000
000252	47F0	C172	00172		195	B	READLOOP GET NEXT CARD	01500000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000256	9640	C644	00644		197	PROSEND	OI MODFLAG,\$MODEOF SET EOF FLAG	01520000
					198		ITRACE ID=END,DATA1=SRCTEID,DATA2=SRCTADD	01530000
00027A	9120	B163	00163		205	TM	COMMFLAG,\$CSECT CSECT LOCATED?	01540000
00027E	47E0	C4E2	004E2		206	BNO	ERR0060 NO	01550000
000282	D501	B140	C5AD 00140	005AD	207	CLC	COMMESID,SRCTEID MATCHING ESD ID ?	01560000
000288	4770	C29C	0029C		208	BNE	CALLSYMT NO	01570000
00028C	D502	C5A4	C5A3 005A4	005A3	209	CLC	SRCTADD,SRCTADD-1 ENTRY = BLANKS ?	01580000
000292	4780	C29C	0029C		210	BE	CALLSYMT YES; LEAVE 0	01590000
000296	D202	B121	C5A4 00121	005A4	211	MVC	COMMCSEP+L'COMMCSEP-L'SRCTADD(L'SRCTADD),SRCTADD GP10066	01600000
00029C	BF0F	B134	00134		213	CALLSYMT	ICM R0,15,COMMSYMP DID WE FIND ANY SYMBOL TABLE ENTRIES?	01620000
0002A0	4780	C2AA	002AA		214	BZ	EXIT0000 NO; JUST EXIT	01630000
0002A4	58F0	B058	00058		215	L	R15,A55 GET ADDRESS OF SYMT PROCESSOR	01640000
0002A8	05EF				216	BALR	R14,R15 CALL IT	01650000
0002AA					218	EXIT0000	DS OH	01670000
					219		ITRACE ID=EXIT	01680000
					222		CLOSE DISMOD CLOSE DISMOD	01690000
0002C2	58D0	D004	00004		228	L	R13,4(,R13) RESTORE REGISTER 13	01700000
0002C6	98EC	D00C	0000C		229	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	01710000
0002CA	1BFF				230	SR	R15,R15 GIVE GOOD RETURN CODE	01720000
0002CC	07FE				231	BR	R14 RETURN TO CALLER	01730000
					233	*-----*		01750000
					234	* PROCESS A TEXT RECORD		01760000
					235	*-----*		01770000
0002CE	1B44				236	PROTEXT	SR R4,R4	01780000
0002D0	1B55				237		SR R5,R5	01790000
0002D2	BF43	C5AD	005AD		238	ICM	R4,3,SRCTEID CESD ENTRY NUMBER ADDRESS	01800000
0002D6	BF53	C5A9	005A9		239	ICM	R5,3,SRCTLEN CSECT INFO LENGTH	01810000
					240	ITRACE	ID=CSECTNBR, +01820000	
							RDATA1=R4, .. CSECT ENTRY NUMBER +01830000	
							RDATA2=R5 .. ENTRIES LENGTH	01840000
0002EE	BD43	B140	00140		245	CLM	R4,3,COMMESID CORRECT ESD ID?	01850000
0002F2	4770	C172	00172		246	BNE	READLOOP NO; IGNORE	01860000
0002F6	1B22				247	SR	R2,R2 CLEAR REGISTER	01870000
0002F8	BF27	C5A4	005A4		248	ICM	R2,7,SRCTADD ASSIGNED ADDRESS	01880000
					249	ITRACE	ID=READTEXT	01890000
000308	1255				252	LTR	R5,R5 TEXT LENGTH ZERO?	01900000
00030A	47D0	C172	00172		253	BNP	READLOOP YES	01910000
00030E	5A20	B130	00130		254	A	R2,COMMTXT PLUS TEXT'S BASE ADDRESS	01920000
					255	ITRACE	ID=MOVETEXT	01930000
00031E	0650				258	BCTR	R5,0 EXEC LENGTH	01940000
000320	4450	C328	00328		259	EX	R5,EXMVCTXT COPY TEXT (WHEW!)	01950000
000324	47F0	C172	00172		260	B	READLOOP DONE	01960000
000328	D200	2000	C5AF 00000	005AF	261	EXMVCTXT	MVC 0(0,R2),SRCTEXT	01970000
00032E	1B55				263	PROCSYM	SR R5,R5	01990000
000330	4130	C5AF	005AF		264	LA	R3,SRCTEXT POINT TO TEXT	02000000
000334	BF6F	C568	00568		265	ICM	R6,15,SYMPOINT GET TAIL OF QUEUE	02010000
000338	4770	C340	00340		266	BNZ	SYMT0050 USE IT	02020000
00033C	4160	B134	00134		267	LA	R6,COMMSYMP ELSE GET POINTER TO ROOT	02030000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000340	1B22				268	SYMT0050	SR R2,R2	02040000
000342	BF23	C5A9	005A9		269		ICM R2,3,SRCTLEN GET CARD'S TEXT LENGTH	02050000
000346	47D0	C394	00394		270		BNP SYMT0990 TOO BAD	02060000
					271		ITRACE ID=SYMTX,DATA1=(R2),DATA2=SRCTEXT	02070000
000366	4920	C554	00554		277		CH R2,=H'56' LARGER THAN DESIGN LIMIT?	02080000
00036A	4720	C394	00394		278		BH SYMT0990 YES; HUH?	02090000
00036E	4100	0040	00040		279		LA R0,SYMDATAL GET BLOCK SIZE	02100000
000372	45E0	B684	00684		280		BAL R14,GETMAIN GET STORAGE	02110000
000376	5010	6000	00000		281		ST R1,0(R6) CHAIN IT TO OLD BLOCK	02120000
				00000	282		USING SYMDATA,R1 DECLARE IT	02130000
00037A	4020	1004	00004		283		STH R2,SYMRLEN STASH LENGTH	02140000
00037E	0620				284		BCTR R2,0	02150000
000380	4420	C38E	0038E		285		EX R2,EXMVCSYM MOVE SYMBOL TABLE TEXT	02160000
000384	1861				286		LR R6,R1 SWAP OVER	02170000
000386	5060	C568	00568		287		ST R6,SYMPOINT SAVE POINTER TO TAIL OF QUEUE	02180000
00038A	47F0	C172	00172		288		B READLOOP GET ANOTHER BLOCK	02190000
00038E	D200	1006	C5AF	00006	289	EXMVCSYM	MVC SYMTEXT(0),SRCTEXT MOVE SYM TEXT	02200000
					290		DROP R1	02210000
000394	9120	C644	00644		292	SYMT0990	TM MODFLAG,\$SYMERR PRIOR MESSAGE?	02230000
000398	4770	C172	00172		293		BNZ READLOOP YES; JUST LOOP AGAIN	02240000
00039C	9620	C644	00644		294		OI MODFLAG,\$SYMERR SET MESSAGE ISSUED	02250000
0003A0	4110	C7C8	007C8		295		LA R1,EMSG20 POINT TO MESSAGE	02260000
0003A4	45E0	B6BE	006BE		296		BAL R14,PRINTMSG PRINT IT	02270000
0003A8	47F0	C172	00172		297		B READLOOP CONTINUE	02280000
0003AC	9857	C56C	0056C		299	READ0000	LM R5,R7,BUFFING GET BUFFER POINTERS	02300000
0003B0	8756	C430	00430		300		BXLE R5,R6,READ0100 ANOTHER CARD IN BUFFER ?	02310000
0003B4	5850	B0F4	000F4		301		L R5,COMMIO I/O BUFFER'S ADDRESS	02320000
0003B8	D703	C3C4	C3C4	003C4	302		XC MODDECB,MODDECB CLEAR ECB	02330000
					303		READ MODDECB, READ LOAD MODULE	+02340000
							SF, .. SEQUENTIALLY FORWARD	+02350000
							DISMOD, .. FROM LODLIB DATA SET	+02360000
							(R5), .. I/O AREA'S ADDRESS	+02370000
							\$IOSIZE .. LENGTH FROM DCB	02380000
					317		CHECK MODDECB WAIT FOR READ	02390000
0003F4	5050	C56C	0056C		322		ST R5,BUFFING INDICATE DATA AVAILABLE	02400000
0003F8	5870	C3D4	003D4		323		L R7,DECIOBPT-DECB+MODDECB Get IOB	02410000
				00010	324		USING IOBSTDRD,R7 GIVE ASSEMBLER IOB BASE	02420000
0003FC	1F22				325		SLR R2,R2 CLEAR RESIDUAL AMOUNT WORK REGISTER	02430000
0003FE	BF23	700E	0001E		326		ICM R2,B'0011',IOBCSW+5 LOAD RESIDUAL COUNT	02440000
					327		DROP R7 DON'T NEED IOB ADDRESS BASE ANYMORE	02450000
000402	5870	C550	00550		328		L R7,=A(\$IOSIZE) LOAD MAXIMUM BLOCK SIZE	02460000
000406	1B72				329		SR R7,R2 LESS LENGTH UNREAD	02470000
000408	1A75				330		AR R7,R5 END ADDRESS	02480000
00040A	0670				331		BCTR R7,0 LAST BYTE	02490000
00040C	5070	C574	00574		332		ST R7,BUFFING+8 UPDATE	02500000
					333		ITRACE ID=READ13,DATA1=BUFFING,DATA2=BUFFING+8	02510000
000430	D24F	C59F	5000	0059F	340	READ0100	MVC SRCCARD,0(R5) MOVE ONE CARD IMAGE	02520000
000436	9057	C56C	0056C		341		STM R5,R7,BUFFING UPDATE	02530000
00043A	07FA				342		BR R10 RETURN	02540000
00043C					343	EOD00000	DS OH	02550000
					344		ITRACE ID=EOD	02560000
000448	96C0	B163	00163		347		OI COMMFLAG,\$ERROR+\$ABORT SET FLAGS	02570000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00044C	D232	B710	C795	00710	00795	348	MVC PRTDATA(EMSG3L),EMSG3	SET MESSAGE 02580000
000452	45A0	C522		00522		349	BAL R10,PRT0000	PRINT MESSAGE 02590000
000456	47F0	C2AA		002AA		350	B EXIT0000	EXIT 02600000
00045A						352	ERR0010 DS OH	02620000
00045A	9200	C646		00646		353	MVI BLDLR0,0	INITIALIZE REASON CODE 02630000
00045E	42F0	C645		00645		354	STC R15,BLDLR15	SAVE R15 02640000
000462	9508	C645		00645		355	CLI BLDLR15,8	R15 = 8? 02650000
000466	4770	C46E		0046E		356	BNE ERR0020	NO 02660000
00046A	4200	C646		00646		357	STC R0,BDLR0	SAVE R0 02670000
00046E						358	ERR0020 DS OH	02680000
00046E	4110	C7F2		007F2		359	LA R1,BLDLMSG	FIRST BLDL MESSAGE 02690000
000472						360	ERR0030 DS OH	02700000
000472	95FF	1000		00000		361	CLI 0(R1),X'FF'	END OF TABLE? 02710000
000476	4780	C49E		0049E		362	BE ERR0050	YES 02720000
00047A	D501	C645	1000	00645	00000	363	CLC BLDLCODE,0(R1)	PROPER MESSAGE FOUND? 02730000
000480	4780	C48C		0048C		364	BE ERR0040	YES 02740000
000484	4110	1039		00039		365	LA R1,BDLMSG(,R1)	NEXT MESSAGE 02750000
000488	47F0	C48C		0048C		366	B ERR0040	LOOP 02760000
00048C						367	ERR0040 DS OH	02770000
00048C	D236	B710	1002	00710	00002	368	MVC PRTDATA(BDLMSG-2),2(R1)	02780000
000492	45A0	C522		00522		369	BAL R10,PRT0000	PRINT MESSAGE 02790000
000496	9680	B163		00163		370	OI COMMFLAG,\$ABORT	SET ABORT FLAG 02800000
00049A	47F0	C2AA		002AA		371	B EXIT0000	AND EXIT 02810000
00049E						372	ERR0050 DS OH	02820000
						373	ITRACE ID=INVBLC, DATA1=BLDLCODE	INVALID BLDLCODE +02830000
							..	02840000
0004B4	45E0	B5B0		005B0		378	BAL R14,TRACEPRT	PRINT TRACE 02850000
0004B8	4110	0002		00002		379	LA R1,ABEND002	SET ABEND CODE (NOT ADDRESS) 02860000
						380	ABEND (1),DUMP,,USER	02870000
0004D0	D21F	B710	C720	00710	00720	389	BADFILE MVC PRTDATA(EMSG00L),EMSG00	02890000
0004D6	96C0	B163		00163		390	OI COMMFLAG,\$ERROR+\$ABORT	02900000
0004DA	45A0	C522		00522		391	BAL R10,PRT0000	PRINT MESSAGE 02910000
0004DE	47F0	C2AA		002AA		392	B EXIT0000	AND EXIT 02920000
0004E2						393	ERR0060 DS OH	02930000
0004E2	D224	B710	C740	00710	00740	394	MVC PRTDATA(EMSG01L),EMSG01	02940000
0004E8	96C0	B163		00163		395	OI COMMFLAG,\$ERROR+\$ABORT	02950000
0004EC	45A0	C522		00522		396	BAL R10,PRT0000	PRINT MESSAGE 02960000
0004F0	47F0	C2AA		002AA		397	B EXIT0000	AND EXIT 02970000
0004F4						398	ERR0070 DS OH	02980000
0004F4	D22F	B710	C765	00710	00765	399	MVC PRTDATA(EMSG02L),EMSG02	02990000
0004FA	96C0	B163		00163		400	OI COMMFLAG,\$ERROR+\$ABORT	03000000
0004FE	45A0	C522		00522		401	BAL R10,PRT0000	PRINT MESSAGE 03010000
000502	47F0	C2AA		002AA		402	B EXIT0000	AND EXIT 03020000
						404	*****	03040000
						405	**	** 03050000
						406	** PUNCH OUTPUT	** 03060000
						407	**	** 03070000
						408	*****	03080000
000506	9110	B164		00164		409	PUN0000 TM COMMDD,\$PUNCHDD	IS DISPUNCH DD PRESENT? 03090000
00050A	07EA					410	BNOR R10	NO 03100000
00050C	4110	C59F		0059F		411	LA R1,SRCCARD	POINT TO CARD IMAGE 03110000
000510	45E0	B794		00794		412	BAL R14,PUNCHCRD	PUNCH SOURCE STATEMENT 03120000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000514	07FA				413	BR	R10 RETURN	03130000
					415	*****		03150000
					416	**		** 03160000
					417	**	PRINT OUTPUT	** 03170000
					418	**		** 03180000
					419	**	PRTUSER COPIES FROM INPUT BUFFER	** 03190000
					420	**	PRT0000 PRINT THE CURRENT PRINT LINE AS IS	** 03200000
					421	**		** 03210000
					422	*****		03220000
000516	D275	B710	C579	00710	00579	423	PRTUSER MVC PRTDATA(SRCL),SRC SET PRINT DATA	03230000
00051C	D283	C579	C578	00579	00578	424	MVC SRC,SRC-1 PRINT BUFFER	03240000
000522	9180	C644		00644		426	PRT0000 TM MODFLAG,\$SUBH HAS SUB-HEADING BEEN PRINTED?	03260000
000526	4710	C544		00544		427	BO PRT0010 YES	03270000
00052A	D212	B16D	C64F	0016D	0064F	428	MVC COMMSUBH(SUBHD1L),SUBHD1	03280000
000530	4110	0013		00013		429	LA R1,SUBHD1L SUBHEADING LENGTH	03290000
000534	4010	B154		00154		430	STH R1,COMMSUBL SET LENGTH	03300000
000538	9680	C644		00644		431	OI MODFLAG,\$SUBH SET FLAG	03310000
00053C	92E2	B70E		0070E		432	MVI PRTCMD,\$PRTSUBH SET COMMAND	03320000
000540	45E0	B6F0		006F0		433	BAL R14,PRINTDAT LINK TO PRINT MODULE	03330000
000544	45E0	B6EC		006EC		434	PRT0010 BAL R14,PRINTREC	03340000
000548	07FA				435	BR	R10 RETURN	03350000
000550					437		LTORG	03370000
000550	00007FF8				438		=A(\$IOSIZE)	
000554	0038				439		=H'56'	
000556	E3E7E3				440		=C'TXT'	
000559	D9D3C4				441		=C'RLD'	
00055C	C5E2C4				442		=C'ESD'	
00055F	E2E8D4				443		=C'SYM'	
000562	C5D5C4				444		=C'END'	
					445	*-----*		03380000
					446	*		* 03390000
					447	*	WORK AREAS	* 03400000
					448	*		* 03410000
					449	*-----*		03420000
000565	000000							
000568	00000000				450	SYMPOINT DC	A(0) LAST ENTRY IN SYM CHAIN	03430000
00056C	0000005000000050				451	BUFFING DC	A(80,80,0) DEBLOCK ADDRESSES	03440000
					452	*-----*		03450000
000578	40				453	DC	C' ' 1/N FAST BLANKING	03460000
000579					454	SRC DS	OCL132	03470000
000579	4040404040404040				455	SRCDISP DC	CL08' ' DISPLACEMENT	03480000
000581	4040				456	DC	CL02' ' 03490000	
000583	40404040				457	SRCOBJ1 DC	CL04' ' OBJECT CODE BYTES 1 AND 2	03500000
000587	40				458	DC	CL01' ' 03510000	
000588	40404040				459	SRCOBJ2 DC	CL04' ' OBJECT CODE BYTES 3 AND 4	03520000
00058C	40				460	DC	CL01' ' 03530000	
00058D	40404040				461	SRCOBJ3 DC	CL04' ' OBJECT CODE BYTES 5 AND 6	03540000
000591	40				462	DC	CL01' ' 03550000	
000592	40404040				463	SRCOBJ4 DC	CL04' ' (DATA) OBJECT CODE BYTES 7 AND 8	03560000
000596	4040				464	DC	CL02' ' 03570000	
000598	4040404040				465	SRCSTMT DC	CL05' ' STATEMENT NUMBER	03580000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00059D	4040			466	DC	CL02' '	03590000
00059F				467	SRCCARD	DC OCL80' ' 01 - 80	CARD IMAGE 03600000
00059F	40			468	SRCID	DC CL01' ' 01 - 01	X'02' FOR OBJECT TEXT 03610000
0005A0	404040			469	SRCTYPE	DC CL03' ' 02 - 04	ESD/TXT/RLD/END 03620000
0005A3	40			470	DC	CL01' ' 05 - 05	03630000
0005A4	404040			471	SRCTADD	DC CL03' ' 06 - 08	TEXT ADDRESS 03640000
0005A7	4040			472	DC	CL02' ' 09 - 10	03650000
0005A9	4040			473	SRCTLEN	DC CL02' ' 11 - 12	TEXT LENGTH 03660000
0005AB	4040			474	DC	CL02' ' 13 - 14	03670000
0005AD	4040			475	SRCTEID	DC CL02' ' 15 - 16	TEXT ESDID 03680000
0005AF	4040404040404040			476	SRCTEXT	DC CL56' ' 17 - 72	MNEMONIC 03690000
0005E7	4040404040404040			477	SRCSEQ	DC CL08' ' 73 - 80	STATEMENT SEQUENCE NUMBER 03700000
		00076		478	SRCL	EQU *-SRC	03710000
0005EF	00						
0005F0	0001			480	BLDLIST	DC H'1'	ONE MEMBER × 03730000
0005F2	004A			481	DC	H'74'	LENGTH PER MEMBER × 03740000
0005F4				482	DIRDATA	DS CL74	× 03750000
00063E		005F4		483	ORG	DIRDATA	× 03760000
0005F4	4040404040404040			484	DIRMEM	DC CL8' '	MEMBER NAME × 03770000
0005FC	00000000			485	DIRMTTRZ	DC XL4'00000000'	MEMBER'S RELATIVE ADDRESS × 03780000
000600	00			486	DC	XL1'00'	× 03790000
000601	00			487	DIRINDS	DC X'00'	INDICATORS × 03800000
		00080		488	\$ALIAS	EQU X'80'	.. MEMBER IS AN ALIAS × 03810000
000602	000000			489	DIRTTTR	DC XL3'000000'	TEXT'S RELATIVE ADDRESS × 03820000
000605		00644		490	ORG	DIRDATA+80	× 03830000
				491	*	-----	* 03840000
000644	00			493	MODFLAG	DC X'00'	PROGRAM FLAGS/SWITCHES 03860000
		00080		494	\$SUBH	EQU X'80'	.. SUBHEADING PRINTED 03870000
		00040		495	\$MODEOF	EQU X'40'	.. END OF CONTROL DATA 03880000
		00020		496	\$SYMERR	EQU X'20'	.. ERROR IN SYMBOL TABLE ENTRY 03890000
		00001		497	\$SEQ	EQU X'01'	SEQUENTIAL INPUT 03900000
000645				498	BLDLCODE	DS OXL2	BLDL RETURN CODE/REASON CODE 03910000
000645	00			499	BLDLR15	DC X'00'	.. R15 03920000
000646	00			500	BLDLR0	DC X'00'	.. R0 03930000
000647				501	PNTCODE	DS OXL2	POINT RETURN CODE/REASON CODE 03940000
000647	00			502	POINTR15	DC X'00'	.. R15 03950000
000648	00			503	POINTR0	DC X'00'	.. R0 03960000
000649	D5D640			504	NO	DC CL3'NO'	03970000
00064C	E8C5E2			505	YES	DC CL3'YES'	03980000
00064F	40D4D6C4E4D3C540			506	SUBHD1	DC C' MODULE ATTRIBUTES '	03990000
		00013		507	SUBHD1L	EQU *-SUBHD1	04000000
000662				508	MSG01	DS OC	04010000
000662	D4C5D4C2C5D940D5			509	DC	CL12'MEMBER NAME: '	04020000
00066E	4040404040404040			510	MSG01MEM	DC CL08' '	04030000
000676	4040404040404040			511	DC	CL10' '	04040000
000680	C1D3C9C1E27A			512	DC	CL06'ALIAS: '	04050000
000686	404040			513	MSG01ALS	DC CL03' '	04060000
000689	4040404040404040			514	DC	CL21' '	04070000
00069E	E3C5E7E340E3E3D9			515	DC	CL09'TEXT TTR: '	04080000
0006A7	404040404040			516	MSG01TXT	DC CL06' '	04090000
		0004B		517	MSG01L	EQU *-MSG01	04100000
0006AD				518	MSG02	DS OC	04110000
0006AD	D5D6E3C5D3C9E2E3			519	DC	CL17'NOTELIST ENTRIES: '	04120000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0006BE	40404040			520	MSG02NTE	DC CL04' '	04130000
0006C2	4040404040404040			521		DC CL09' '	04140000
0006CB	D3D6C1C440D4D6C4			522		DC CL17'LOAD MODULE SIZE:'	04150000
0006DC	404040404040			523	MSG02SZ	DC CL06' '	04160000
0006E2	40404040404040			524		DC CL07' '	04170000
0006E9	C5D5E3D9E840D7D6			525		DC CL12'ENTRY POINT:'	04180000
0006F5	404040404040			526	MSG02EPA	DC CL06' '	04190000
0006FB	4040404040404040			527		DC CL12' '	04200000
000707	D9C5C1D340D4C5D4			528		DC CL17'REAL MEMBER NAME:'	04210000
000718	4040404040404040			529	MSG02MEM	DC CL8' '	04220000
		00073		530	MSG02L	EQU *-MSG02	04230000
000720	C4C9E2C1E2D4F1F3			531	EMSG00	DC C'DISASM1300E DISMOD DD NOT USABLE'	04240000
		00020		532	EMSG00L	EQU *-EMSG00	04250000
000740	C4C9E2C1E2D4F1F3			533	EMSG01	DC C'DISASM1301E SPECIFIED CSECT NOT FOUND'	04260000
		00025		534	EMSG01L	EQU *-EMSG01	04270000
000765	C4C9E2C1E2D4F1F3			535	EMSG02	DC C'DISASM1302E UNKNOWN RETURN CODE FROM POINT MACRO'	04280000
		00030		536	EMSG02L	EQU *-EMSG02	04290000
000795	C4C9E2C1E2D4F1F3			537	EMSG3	DC C'DISASM1303E END OF FILE ON DISMOD PRIOR TO END CARD'	04300000
		00033		538	EMSG3L	EQU *-EMSG3	04310000
0007C8	29			539	EMSG20	DC AL1(L'EMSG20T)	04320000
0007C9	C4C9E2C1E2D4F1F3			540	EMSG20T	DC C'DISASM1320E SYM RECORD HAS UNKNOWN FORMAT'	04330000
0007F2				541	BLDLMSG	DS OC	04340000
0007F2	0400C4C9E2C1E2D4			542		DC X'0400',CL55'DISASM1304E MODULE DOES NOT EXIST IN DISMOD+	04350000
0007FA	F1F3F0F4C540D4D6					LIBRARY'	04360000
		00039		543	BLDLMSG	EQU *-BLDLMSG	04370000
00082B	0800C4C9E2C1E2D4			544		DC X'0800',CL55'DISASM1305E PERMANENT I/O ERROR'	04380000
000864	0804C4C9E2C1E2D4			545		DC X'0804',CL55'DISASM1306E INSUFFICIENT VIRTUAL STORAGE'	04390000
00089D	0808C4C9E2C1E2D4			546		DC X'0808',CL55'DISASM1307E DEB NOT IN KEY 0-7'	04400000
0008D6	FF			547		DC X'FF'	04410000
0008D7				548	PNTMSG	DS OC	04420000
0008D7	0400C4C9E2C1E2D4			549		DC X'0400',CL55'DISASM1308E DEVICE DOES NOT SUPPORT BLOCK I+	04430000
0008DF	F1F3F0F8C540C4C5					DENTIFIER'	04440000
		00039		550	PNTMSG	EQU *-PNTMSG	04450000
000910	0801C4C9E2C1E2D4			551		DC X'0801',CL55'DISASM1309E INCORRECT PARAMETER'	04460000
000949	0802C4C9E2C1E2D4			552		DC X'0802',CL55'DISASM1310E INCORRECT DEB OR DEBCHK ERROR'	04470000
000982	0803C4C9E2C1E2D4			553		DC X'0803',CL55'DISASM1311E ENVIRONMENTAL ERROR'	04480000
0009BB	080BC4C9E2C1E2D4			554		DC X'080B',CL55'DISASM1312E UNSUCCESSFUL CALL TO ESTAE'	04490000
0009F4	080CC4C9E2C1E2D4			555		DC X'080C',CL55'DISASM1313E UNSUCCESSFUL GETMAIN'	04500000
000A2D	0C00C4C9E2C1E2D4			556		DC X'0C00',CL55'DISASM1314E INPUT/OUTPUT ERROR'	04510000
000A66	FF			557		DC X'FF'	04520000
				558	*-----*		04530000
				559	*		* 04540000
				560	*	OBJECT MODULE LIBRARY DCB	* 04550000
				561	*		* 04560000
				562	*-----*		* 04570000
				563	DISMOD	DCB DDNAME=DISMOD, OBJECT MODULE LIBRARY DCB	+04580000
						DSORG=PS, .. SEQUENTIAL DATA SET	+04590000
						RECFM=U, .. UNDEFINED RECORD FORMAT	+04600000
						EODAD=EOD00000, .. END OF DATA	+04610000
						EXLST=EXITLIST, .. JFCB ADDRESS POINTER	*04620000
						MACRF=R .. READ ONLY	04630000
		00058		614	DISMODL	EQU *-DISMOD	04640000
				615	DISMODPO	DCB DDNAME=DISMOD, OBJECT MODULE LIBRARY DCB	+04650000
						DSORG=PO, .. PARTITIONED DATA SET	+04660000
						RECFM=U, .. UNDEFINED RECORD FORMAT	+04670000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					EODAD=EOD000000, .. END OF DATA	+04680000
					EXLST=EXITLIST, .. JFCB ADDRESS POINTER	*04690000
					MACRF=R .. READ ONLY	04700000
000B18	87000000			666 EXITLIST DC	A(X'87000000')	04710000
000B20				668 MYJFCB DS OD		04730000
				669 IEFJFCBN , MY JFCB		04740000
				700+ PRINT OFF		00803200
000BD0				1290 MYDSCB DS OD		04760000
				1291 IECSDSL1 1 MY FMT 1 DSCB		04770000
				1374 *-----*		04790000
				1375 *		* 04800000
				1376 * COMMON DATA MAP		* 04810000
				1377 *		* 04820000
				1378 *-----*		* 04830000
				1379 DISASM00 DISASMCM TYPE=DSECT		04840000
				1380+ PRINT OFF		00280000
				2011+ PRINT ON		06440000
				2041 COPY DISASMDA		04850000
				2042 AIF ('&DAPRT' EQ 'ON').DA010		00010000
				2043 PRINT OFF		00020000
				2254 PRINT ON		02130000
				2255 .DA020 ANOP		02140000
				2256 DCBD DEVD=DA		04860000
				2257+*,*** IHB068 NO VALID DSORG SPECIFIED-EXCP ASSUMED		
				2608 IEZIOB ,		04870000
				3232 IHADECB ,		04880000
000000				3622 END DISASM13		04890000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
\$ABORT	00001	00000080	01493	00124 00347 00370 00390 00395 00400															
\$ALIAS	00001	00000080	00488	00090															
\$CSECT	00001	00000020	01495	00205															
\$ERROR	00001	00000040	01494	00124 00347 00390 00395 00400															
\$IOSIZE	00001	00007FF8	01445	00309 00438															
\$MODEOF	00001	00000040	00495	00132 00197															
\$OPMASK	00001	00000001	02006	01662															
\$PFTRC	00001	00000001	01514	01749 01751															
\$PRTPRT	00001	000000D7	01873	01859 01880															
\$PRTSUBH	00001	000000E2	01872	00432 01755															
\$PUNCHDD	00001	00000010	01503	00409															
\$SEQ	00001	00000001	00497	00060 00068 00078															
\$SUBH	00001	00000080	00494	00426 00431															
\$SYMERR	00001	00000020	00496	00292 00294															
ABEND002	00001	00000002	02018	00379															
AOP	00004	000000AC	01420	01643															
APR	00004	000000B8	01422	01862															
APU	00004	000000BC	01423	01883															
A04	00004	00000040	01402	00179															
A05	00004	0000004C	01404	00192															
A55	00004	00000058	01406	00215															
BADFILE	00006	000004D0	00389	00077															
BASEDSCT	00001	00000000	02061	02069															
BIT0	00001	00000080	03250	03274 03283 03322 03337 03346 03361 03371 03389 03402 03421 03430 03495 03513 03538 03539															
BIT1	00001	00000040	03251	03275 03284 03323 03338 03347 03362 03372 03390 03403 03422 03431 03496 03517 03538 03541															
BIT2	00001	00000020	03252	03276 03285 03327 03339 03348 03363 03373 03391 03405 03423 03432 03497 03521 03543 03584															
BIT3	00001	00000010	03253	03277 03286 03328 03340 03349 03364 03374 03392 03407 03424 03432 03437 03498 03522 03544															
BIT4	00001	00000008	03254	03278 03287 03329 03341 03350 03365 03375 03394 03409 03425 03441 03499 03523 03551 03589															
BIT5	00001	00000004	03255	03279 03288 03330 03342 03351 03366 03376 03395 03411 03426 03442 03500 03524 03553 03592															
BIT6	00001	00000002	03256	03280 03289 03331 03343 03352 03367 03377 03396 03414 03427 03444 03501 03525 03561 03566															
BIT7	00001	00000001	03257	03281 03290 03332 03344 03353 03368 03379 03398 03416 03428 03445 03502 03526 03569 03594															
BLDLCODE	00002	00000645	00498	00363 00374															
BLDLIST	00002	000005F0	00480	00084															
BLDLMSG	00001	00000039	00543	00365 00368															
BLDLMSG	00001	000007F2	00541	00359 00543															
BLDLR0	00001	00000646	00500	00353 00357															
BLDLR15	00001	00000645	00499	00354 00355															
BLKTRT	00001	00000A68	01920	01921 01923 01925 01927 01929 01931 01933 01935 01937 01939 01941 01943 01945															
BUFFING	00004	0000056C	00451	00299 00322 00332 00334 00336 00341															
CALLSYMT	00004	0000029C	00213	00133 00208 00210															
CARDCOPY	00004	000001D8	00154	00143															
COMMCLR	00004	000000F8	01449	01469 01473															
COMMSEP	00004	00000120	01460	00211 00211															
COMMDD	00001	00000164	01499	00409															
COMMWD	00008	00000000	01387	00061 01774 01775															
COMMESID	00002	00000140	01468	00207 00245															
COMMFILL	00001	00000161	01490	01819															
COMMFLAG	00001	00000163	01492	00124 00205 00347 00370 00390 00395 00400															
COMMHXCH	00016	00000275	01539	01540															
COMMHXTR	00016	00000185	01540	00098 01766 01769 01772 01776															
COMMIO	00004	000000F4	01444	00165 00167 00181 00188 00190 00194 00301															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
COMMMOD	00008	00000144	01471	00080														
COMMNPR	00001	000003C7	01595	01596	01598	01600	01602	01604	01606	01608	01610	01612	01614	01616	01618	01620		
COMMP00L	00001	00000162	01491	01811	01826													
COMMPRT	00001	000002C7	01566	01567	01569	01571	01573	01575	01577	01579	01581	01583	01585	01587	01589			
COMMSUBH	00133	0000016D	01534	00428	01752													
COMMSUBL	00002	00000154	01484	00430	01753	01754												
COMMSYMP	00004	00000134	01465	00213	00267													
COMMTXT	00004	00000130	01464	00254														
DATADSCT	00001	00000000	02076	02097														
DCBBIT0	00001	00000080	02279	02365	02373	02385	02408	02435	02437	02438	02440	02463	02466	02486	02490	02505	02542	02597
DCBBIT1	00001	00000040	02280	02366	02374	02387	02409	02410	02419	02435	02437	02439	02440	02468	02486	02488	02490	02508
				02509	02510	02545	02546	02597										
DCBBIT2	00001	00000020	02281	02367	02375	02388	02389	02390	02409	02410	02414	02420	02435	02436	02441	02470	02491	02492
				02513	02514	02515	02549	02550	02598									
DCBBIT3	00001	00000010	02282	02368	02388	02390	02391	02409	02422	02442	02473	02491	02494	02517	02518	02519	02553	02554
				02598														
DCBBIT4	00001	00000008	02283	02376	02423	02443	02474	02496	02501	02502	02522	02523	02557	02558	02560	02561	02599	
DCBBIT5	00001	00000004	02284	02377	02424	02446	02447	02476	02496	02498	02499	02502	02526	02528	02529	02530	02564	02565
				02566	02567	02599												
DCBBIT6	00001	00000002	02285	02369	02425	02426	02429	02446	02448	02477	02533	02534	02535	02536	02570	02571	02572	02573
				02600														
DCBBIT7	00001	00000001	02286	02370	02425	02427	02429	02450	02481	02538	02539	02576	02577	02579	02580			
DCBFDAD	00008	00000005	02306	02309														
DCBOFLGS	00001	00000030	02462	00076														
DCBOFOPN	00001	00000010	02473	00076														
DECB	00001	00000000	03233	00323	03318	03385	03463	03491										
DECIOBPT	00004	00000010	03298	00323														
DECNEXT	00004	00000014	03299	03305														
DIRDATA	00074	000005F4	00482	00483	00490													
DIRINDS	00001	00000601	00487	00090														
DIRMEM	00008	000005F4	00484	00080	00089													
DIRMTTRZ	00004	000005FC	00485	00105														
DIRTTTR	00003	00000602	00489	00097														
DISASM00	00001	00000000	01381	00050	01394	01633	01710	01747	01808	01844								
DISASM13	00001	00000000	00040	00041	00049	03622												
DISMOD	00004	00000A68	00567	00065	00074	00076	00083	00104	00226	00310	00614							
DISMODL	00001	00000058	00614	00065														
DISMODPO	00004	00000AC0	00619	00065														
DSCTDSCT	00001	00000000	02104	02110														
DS1DSGPO	00001	00000002	01318	00063														
DS1DSORG	00002	00000C22	01307	00063														
DS1IND01	00001	00000001	01358	01359														
DS1IND02	00001	00000002	01354	01357														
EMSG00	00032	00000720	00531	00389	00532													
EMSG00L	00001	00000020	00532	00389														
EMSG01	00037	00000740	00533	00394	00534													
EMSG01L	00001	00000025	00534	00394														
EMSG02	00048	00000765	00535	00399	00536													
EMSG02L	00001	00000030	00536	00399														
EMSG20	00001	000007C8	00539	00295														
EMSG20T	00041	000007C9	00540	00539														
EMSG3	00051	00000795	00537	00348	00538													
EMSG3L	00001	00000033	00538	00348														
EOD00000	00002	0000043C	00343	00585	00637													
ERR0010	00002	0000045A	00352	00088														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
ERR0020	00002	0000046E	00358	00356	
ERR0040	00002	0000048C	00367	00364 00366	
ERR0050	00002	0000049E	00372	00362	
ERR0060	00002	000004E2	00393	00206	
ERR0070	00002	000004F4	00398	00117	
ESDDATA	00001	00000000	02117	02140	
ESDNAME	00008	0000000E	02121	02136	
EXGETOPC	00006	00000554	01674	01667	
EXITLIST	00004	00000B18	00666	00058 00587 00639	
EXIT0000	00002	000002AA	00218	00126 00214 00350 00371 00392 00397 00402	
EXMVCSYM	00006	0000038E	00289	00285	
EXMVCTXT	00006	00000328	00261	00259	
GETMAIN	00004	00000684	01809	00280	
GETOPEXT	00004	00000546	01670	01663	
GETOPLEN	00001	0000055A	01675	01641	
GETOPNOT	00004	0000054E	01672	01646 01656 01661 01669	
GETOPTMK	00004	00000526	01662	01647	
GETOPWRK	00006	0000055E	01676	01666 01666 01668 01674	
HEXTRT	00001	00000868	01902	01903 01905 01907 01909 01911	
IECSDSL1	00001	00000BD0	01292	00057 01293	
IHADCB	00001	00000000	02262	00076 02347 02394 02459 02588 02605	
INFMJFCB	00001	00000B20	00703	00056	
INTTRT	00001	00000968	01913	01914 01916 01918	
IOBCSW	00007	00000019	02847	00326	
IOBEXTEN	00008	00000030	02969	02992 03061 03194 03219	
IOBINCAM	00002	0000002C	02918	02939 02956	
IOBPREFX	00008	00000000	02630	02665 02708 02744	
IOBSEEK	00008	00000030	02977	03015 03087 03099 03173	
IOBSTDRD	00008	00000010	02765	00324	
JFCBIND1	00001	00000B76	00842	00066	
JFCBTSDM	00001	00000B54	00712	00059	
JFCNWRIT	00001	00000008	00721	00059	
JFCPDS	00001	00000001	00848	00066	
JFCRESRV	00004	00000B8C	01152	01177	
JFCVSL	00001	00000040	00714	00059	
LABLDSC	00001	00000000	02147	02163	
MAINRSV	00004	00000858	01900	01809 01815 01817 01821 01824 01830	
MODDECB	00004	000003C4	00306	00302 00302 00318 00323	
MODENT	00004	00000064	00045	00041	
MODFLAG	00001	00000644	00493	00060 00068 00078 00132 00197 00292 00294 00426 00431	
MODHEAD	00023	00000005	00043	00042	
MODSAVE	00004	0000001C	00044	00051	
MOD0020	00002	000000FC	00094	00091	
MOD0030	00002	00000102	00096	00093	
MOD0240	00002	00000146	00115	00121	
MOD0250	00002	00000160	00122	00119	
MSG01	00001	00000662	00508	00100 00517	
MSG01ALS	00003	00000686	00513	00092 00095	
MSG01L	00001	0000004B	00517	00100	
MSG01MEM	00008	0000066E	00510	00089	
MSG01TXT	00006	000006A7	00516	00097 00098 00099	
MSG02	00001	000006AD	00518	00530	
NBLTRT	00001	00000B68	01947	01948 01950	
NO	00003	00000649	00504	00092	
OPDSECT	00001	00000000	01969	01644 02007	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
OPFLAGS	00001	00000007	01998	01662																
OPFLAG1	00001	00000001	01971	01651																
OPFLAG2	00001	00000002	01972	01653																
OPFLAG3	00001	00000003	01973	01655																
OPMASK	00006	00000008	02008	01668																
OPMNEM	00006	00000000	01970	01971	01972	01973														
PNTCODE	00002	00000647	00501	00118																
PNTMSG1	00001	00000039	00550	00120	00123															
PNTMSG5	00001	000008D7	00548	00114	00550															
POINTR0	00001	00000648	00503	00113																
POINTR15	00001	00000647	00502	00112																
PRINTDAT	00004	000006F0	01860	00433	01756															
PRINTFG1	00001	00000165	01507	01749	01751															
PRINTMSG	00004	000006BE	01845	00296																
PRINTMVR	00006	000006E6	01857	01854																
PRINTREC	00004	000006EC	01859	00434	01778	01856														
PRINTREX	00004	000006FE	01864	01848																
PRINTRSV	00004	00000848	01899	01845	01855	01860	01864	01881	01885											
PROCESD	00004	000001E4	00162	00149																
PROCESDL	00004	0000020E	00173	00178																
PROCESDX	00004	0000022C	00181	00171																
PROCSYM	00002	0000032E	00263	00151																
PRORLD	00004	00000234	00187	00147																
PROSEND	00004	00000256	00197	00153																
PROTEXT	00002	000002CE	00236	00145																
PRTBLOK	00001	0000070E	01869	01861																
PRTCC	00001	0000070F	01876	01865																
PRTCMD	00001	0000070E	01870	00432	01755	01859	01880													
PRTDATA	00132	00000710	01877	00100	00123	00348	00368	00389	00394	00399	00423	01763	01764	01765	01766	01767	01768	01769		
				01770	01771	01772	01773	01775	01776	01777	01849	01857	01866	01866						
PRTUSER	00006	00000516	00423	00155																
PRT0000	00004	00000522	00426	00101	00125	00349	00369	00391	00396	00401										
PRT0010	00004	00000544	00434	00427																
PUNBLOK	00001	000007B2	01888	01882																
PUNCHCRD	00006	00000794	01879	00412																
PUNDATA	00080	000007B4	01894	01879																
PUN0000	00004	00000506	00409	00154																
READLOOP	00004	00000172	00132	00156	00182	00195	00246	00253	00260	00288	00293	00297								
READSEQ	00004	000000B0	00072	00062	00064	00067														
READ0000	00004	000003AC	00299	00134																
READ0100	00006	00000430	00340	00300																
REFDSCT	00001	00000000	02170	02180																
RLDDATA	00001	00000000	02187	02205																
R0	00001	00000000	02024	00055	00113	00213	00279	00357	01634	01640	01640	01641	01664	01712	01731	01748	01787	01811		
				01816	01820	01826	01849	01850	01852	01855										
R1	00001	00000001	02025	00057	00069	00114	00116	00118	00120	00120	00123	00162	00168	00281	00282	00286	00290	00295		
				00359	00361	00363	00365	00365	00368	00379	00411	00429	00430	01636	01650	01670	01672	01674		
				01711	01713	01717	01717	01718	01720	01722	01809	01815	01816	01817	01821	01845	01847	01857		
				01860	01861	01864	01879	01881	01882	01885										
R10	00001	0000000A	02034	00101	00125	00134	00154	00155	00165	00181	00342	00349	00369	00391	00396	00401	00410	00413		
				00435																
R11	00001	0000000B	02035	00050	01633	01710	01747	01808	01844											
R12	00001	0000000C	02036	00045	00046	00048	00049	00229	01724											
R13	00001	0000000D	02037	00045	00052	00053	00054	00228	00228	00229										
R14	00001	0000000E	02038	00045	00051	00052	00053	00054	00136	00137	00138	00139	00140	00180	00193	00199	00200	00201		

DA13	CROSS-REFERENCE																PAGE	17
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18
				00202	00203	00216	00220	00229	00231	00243	00250	00256	00273	00274	00275	00280	00296	00334
				00335	00336	00337	00338	00345	00374	00375	00376	00378	00412	00433	00434	01637	01638	01639
				01641	01648	01648	01650	01652	01654	01655	01657	01657	01658	01659	01670	01671	01673	01725
				01732	01756	01778	01788	01809	01820	01821	01822	01824	01830	01831	01845	01855	01860	01863
				01864	01867	01881	01884	01885	01886									
R15	00001	0000000F	02039	00041	00046	00087	00087	00110	00110	00112	00166	00167	00179	00180	00189	00190	00192	00193
				00215	00216	00230	00230	00354	01634	01635	01635	01636	01638	01642	01643	01644	01645	01645
				01659	01660	01660	01672	01712	01731	01748	01787	01818	01818	01819	01824	01830	01846	01846
				01847	01850	01852	01853	01854	01862	01863	01883	01884						
R2	00001	00000002	02026	00055	00056	00058	00069	00163	00163	00164	00169	00170	00178	00187	00191	00247	00247	00248
				00254	00261	00268	00268	00269	00272	00277	00283	00284	00285	00325	00325	00326	00329	01649
				01649	01651	01652	01653	01654										
R3	00001	00000003	02027	00172	00173	00175	00176	00177	00177	00188	00194	00264						
R4	00001	00000004	02028	00236	00236	00238	00241	00245	01664	01665	01667							
R5	00001	00000005	02029	00237	00237	00239	00242	00252	00252	00258	00259	00263	00263	00299	00300	00301	00313	00322
				00330	00340	00341	01757	01760	01780	01780	01781	01783	01785					
R6	00001	00000006	02030	00265	00267	00281	00286	00287	00300									
R7	00001	00000007	02031	00299	00323	00324	00327	00328	00329	00330	00331	00332	00341					
R8	00001	00000008	02032	00047	00048	00048	00049											
SKIPMEM	00002	00000172	00131	00079	00111													
SRC	00132	00000579	00454	00423	00424	00424	00478											
SRCCARD	00080	0000059F	00467	00136	00138	00142	00340	00411										
SRCL	00001	00000076	00478	00423														
SRCTADD	00003	000005A4	00471	00201	00209	00209	00211	00211	00211	00248								
SRCTEID	00002	000005AD	00475	00162	00199	00207	00238											
SRCTEXT	00056	000005AF	00476	00166	00168	00169	00172	00189	00191	00261	00264	00273	00289					
SRCTLEN	00002	000005A9	00473	00164	00187	00239	00269											
SRCTYPE	00003	000005A0	00469	00144	00146	00148	00150	00152										
SUBHD1	00019	0000064F	00506	00428	00507													
SUBHD1L	00001	00000013	00507	00428	00429													
SYMDATA	00001	00000000	02212	00282	02217													
SYMDATAL	00001	00000040	02217	00279														
SYMPOINT	00004	00000568	00450	00265	00287													
SYMRLN	00002	00000004	02214	00283														
SYMTEXT	00056	00000006	02215	00289														
SYMT0050	00002	00000340	00268	00266														
SYMT0990	00004	00000394	00292	00270	00278													
TPODA1A	00008	00000017	01792	01765	01765	01766	01766	01767	01767									
TPODA1B	00008	00000020	01793	01768	01768	01769	01769	01770	01770									
TPODA2A	00008	0000002A	01794	01771	01771	01772	01772	01773	01773									
TPODA2B	00008	00000033	01795	01775	01775	01776	01776	01777	01777									
TPOMOD	00008	00000003	01790	01763	01763													
TPOTID	00008	0000000D	01791	01764	01764													
TRACEPEN	00004	00000662	01787	01750	01759	01782												
TRACEPIN	00004	00000646	01780	01758	01762													
TRACEPPR	00004	000005E2	01761	01784	01786													
TRACEPRT	00004	000005B0	01748	00378														
TRACESHD	00027	00000668	01796	01752	01752	01753												
TRACE000	00002	00000564	01709	00140	00203	00220	00243	00250	00256	00275	00338	00345	00376					
TRACE010	00002	00000580	01721	01719														
TRACE020	00002	000005A8	01730	01714														
TRCESAVE	00004	00000808	01898	01634	01670	01672	01712	01731	01748	01787								
TRCURR	00004	000000D4	01435	01713	01722	01757	01781											
TRDATA1	00008	000000E0	01438	00137	00200	00241	00272	00335	00375	01726	01728	01728						
TRDATA2	00008	000000E8	01439	00139	00202	00242	00274	00337	01727	01729	01729							

SYMBOL	LEN	VALUE	DEFN	REFERENCES
TREDA1	00008	00000010	01960	01726 01765 01768
TREDA2	00008	00000018	01961	01727 01771 01774
TREID	00008	00000008	01959	01725 01764
TREMOD	00008	00000000	01958	01724 01761 01763
TRETRY	00001	00000000	01957	01711 01760 01779 01962
TRETRYL	00001	00000020	01962	01717 01779 01780
TRLAST	00004	000000CC	01433	01718 01783
TRIST	00004	000000C4	01431	01720 01785
USNGDSCT	00001	00000000	02224	02238
VERPSECT	00001	00000000	02245	02251
YES	00003	0000064C	00505	00095

SYMBOL

LEN

VALUE

DEFN

REFERENCES

ASM 0201 00.48 07/11/18

=A(\$IOSIZE)				
	00004	00000550	00438	00328
=H'56'	00002	00000554	00439	00277
=C'TXT'	00003	00000556	00440	00144
=C'RLD'	00003	00000559	00441	00146
=C'ESD'	00003	0000055C	00442	00148
=C'SYM'	00003	0000055F	00443	00150
=C'END'	00003	00000562	00444	00152

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 489

TOTAL RECORDS READ FROM SYSTEM LIBRARY 12444

TOTAL RECORDS PUNCHED 55

TOTAL RECORDS PRINTED 874

SYMBOL

TYPE

ID

ADDR

LENGTH

LDID

ASM 0201 00.48 07/11/18

DISASM19SD000100000000001C4

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	COPY DISASMGB	00020000
				3 *	-----	* 00010000
				4 *		* 00020000
				5 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				6 *		* 00040000
				7 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				8 *		* 00060000
				9 *	-----	* 00070000
				10	GBLA &TRNBRG,&MAXL,&MINL	00080000
				11	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				12	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				13	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				14 *	-----	* 00030000
				15 *		* 00040000
				16 *	MODULE NAME: DISASM19	* 00050000
				17 *		* 00060000
				18 *	FUNCTION:	* 00070000
				19 *	BUILD AND PRINT LABEL CROSS-REFERENCE FOR GENERATED SOURCE	* 00080000
				20 *		* 00090000
				21 *	-----	* 00100000
				22	DISASM19 MODHEAD BASE=(R12,R10) ENTRY HOUSEKEEPING	00110000
000000				23+	DISASM19 START 0	00070000
000000	47F0 F064	00064		24+	B MODENT-DISASM19(,R15) BRANCH AROUND	00100000
000004	17			25+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4F1F9			26+	MODHEAD DC C'DISASM19 07/11/18 00.48'	00120000
00001C	0000000000000000			27+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		28+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			29+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
00006A	41A0 0800	00800		30+	LA R10,2048	00240000
00006E	41AA C800	00800		31+	LA R10,2048(R10,R12)	00290000
		00000		32+	USING DISASM19,R12,R10	00330000
		00000		33+	USING DISASM00,R11	00360000
000072	41E0 C01C	0001C		34+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
000076	50E0 D008	00008		35+	ST R14,8(,R13) CHAIN DOWN	00380000
00007A	50D0 E004	00004		36+	ST R13,4(,R14) CHAIN UP	00390000
00007E	18DE			37+	LR R13,R14 NEW SAVE AREA	00400000
				38	ITRACE ID=ENTRY	00120000
000080	45E0 B564	00564		39+	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000084	C5D5E3D9E8404040			40+	DC CL8'ENTRY' TRACE ID	00670000
00008C	9120 B166	00166		41	TM PRINTFG2,\$PFXRF PROCESS CROSS-REFERECE?	00130000
000090	4780 C180	00180		42	BZ EXIT000 NO	00140000
000094	D224 B16D C19F	0016D 0019F		43	MVC COMMSUBH(SUBHEADL),SUBHEAD	00150000
00009A	4110 0025	00025		44	LA R1,SUBHEADL SUBHEADING LENGTH	00160000
00009E	4010 B154	00154		45	STH R1,COMMSUBL SET LENGTH	00170000
0000A2	92FF B154	00154		46	MVI COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	00180000
0000A6	92C8 B70E	0070E		47	MVI PRTCMD,\$PRTHEAD SET COMMAND	00190000
0000AA	45E0 B6F0	006F0		48	BAL R14,PRINTDAT PRINT SUBHEADER	00200000
0000AE				49	GEN0015 DS OH	00210000
				50	*****	00220000
				51	**	** 00230000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					52	** LABEL CHAIN IS IN SEQUENCE BY DISPLACEMENT.	** 00240000
					53	** WE NEED TO SORT (CRUDELY) BY LABEL	** 00250000
					54	**	** 00260000
					55	*****	00270000
0000AE	1B33				56	SORTLOOP SR R3,R3 SET NO-SWAP SWITCH	00280000
0000B0	4150	B118	00118		57	LA R5,COMMLABL GET START OF CHAIN POINTER	00290000
0000B4	1245				58	ITEMLOOP LTR R4,R5	00300000
0000B6	4780	C0EC	000EC		59	BZ SORTDONE	00310000
0000BA	BF5F	4000	00000		60	ICM R5,15,LABLNEXT-LABLDSC(T,R4) ANOTHER?	00320000
0000BE	4780	C0EC	000EC		61	BZ SORTDONE NOT ON THIS PASS	00330000
			00000		62	USING LABLDSC(T,R5) DECLARE IT	00340000
0000C2	BF6F	5000	00000		63	ICM R6,15,LABLNEXT-LABLDSC(T,R5) FOLLOWER?	00350000
0000C6	4780	C0EC	000EC		64	BZ SORTDONE NOT ON THIS PASS	00360000
0000CA	D507	500C	600C	0000C	65	CLC LABLNAME,LABLNAME-LABLDSC(T,R6)	00370000
0000D0	47D0	C0B4	000B4		66	BNH ITEMLOOP	00380000
0000D4	5800	6000	00000		67	L R0,LABLNEXT-LABLDSC(T,R6)	00390000
0000D8	5000	5000	00000		68	ST R0,LABLNEXT-LABLDSC(T,R5)	00400000
0000DC	5060	4000	00000		69	ST R6,LABLNEXT-LABLDSC(T,R4)	00410000
0000E0	5050	6000	00000		70	ST R5,LABLNEXT-LABLDSC(T,R6)	00420000
0000E4	1834				71	LR R3,R4 SET SWAP SWITCH	00430000
0000E6	1856				72	LR R5,R6 USE LOWER VALUE	00440000
0000E8	47F0	C0B4	000B4		73	B ITEMLOOP LAZY	00450000
0000EC	1233				74	SORTDONE LTR R3,R3 DID WE SWAP ?	00460000
0000EE	4770	COAE	000AE		75	BNZ SORTLOOP YES; NEED TO RUN CHAIN AGAIN	00470000
					76	*****	00480000
					77	**	** 00490000
					78	** RUN THROUGH THE LABEL CHAIN, FORMAT THE COMMON DATA, AND THEN	** 00500000
					79	** FOLLOW THE CROSS-REFERENCE CHAIN TO PRINT ONE OR MORE LINES.	** 00510000
					80	**	** 00520000
					81	*****	00530000
0000F2	4150	B118	00118		82	LA R5,COMMLABL POINT TO LABEL CHAIN	00540000
			00000		83	USING LABLDSC(T,R5) DECLARE IT	00550000
0000F6	BF5F	5000	00000		84	MAINLOOP ICM R5,15,LABLNEXT GET NEXT ENTRY	00560000
0000FA	4780	C180	00180		85	BZ EXIT000 OR OUT	00570000
0000FE	D207	B710	500C	00710	86	MVC OUTNAME,LABLNAME	00580000
000104	F384	B71A	5014	0071A	87	UNPK OUTDISP(9),LABLDISP(5)	00590000
00010A	DC07	B71A	B185	0071A	88	TR OUTDISP,COMMHXTR	00600000
000110	9240	B722		00722	89	MVI OUTDISP+8,C' '	00610000
000114	D604	501C	501C	0001C	90	OC LABLSTMT,LABLSTMT DEFINED?	00620000
00011A	4770	C128		00128	91	BNZ DEFLABEL YES	00630000
00011E	D204	B724	C198	00724	92	MVC OUTSTMT,=CL7 '*UNDEF*'	00640000
000124	47F0	C134		00134	93	B NEWLINE	00650000
000128	F374	B000	501C	00000	94	DEFLABEL UNPK COMMDWRD,LABLSTMT	00660000
00012E	D204	B724	B001	00724	95	MVC OUTSTMT,COMMDWRD+1	00670000
000134	4140	5018		00018	96	NEWLINE LA R4,LABLXREF POINT TO XREF CHAIN	00680000
000138	4170	B72B		0072B	97	NEWCONT LA R7,OUTFIELD POINT TO OUTPUT AREA	GP05095 00690000
00013C	4160	0011		00011	98	LA R6,NUMFIELD GET NUMBER OF ENTRIES TO DO	00700000
000140	BF4F	4000		00000	99	REFLOOP ICM R4,15,0(R4) REFERENCE ENTRY?	00710000
000144	4780	C16E		0016E	100	BZ REFDONE NO MORE	00720000
000148	D504	501C	4004	0001C	101	CLC LABLSTMT,4(R4) SAME AS DEFINITION?	00730000
00014E	4780	C162		00162	102	BE REFSKIP YES; ONLY DO ONE	00740000
000152	F374	B000	4004	00000	103	UNPK COMMDWRD,4(5,R4) GET REFERENCE	00750000
000158	D204	7000	B001	00000	104	MVC OUTFIELD-OUTFIELD(L'OUTSTMT,R7),COMMDWRD+1	00760000
00015E	4170	7006		00006	105	LA R7,L'OUTFIELD(,R7)	00770000
000162	4660	C140		00140	106	REFSKIP BCT R6,REFLOOP	00780000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000166	45E0	B6EC	006EC		107	BAL	R14,PRINTREC PRINT THIS LINE	00790000
00016A	47F0	C138	00138		108	B	NEWCONT START ANOTHER LINE	GP05095 00800000
00016E	D583	B710	B70F	00710	0070F	110	REFDONE CLC PRTDATA,PRTDATA-1 ALREADY PRINTED?	00820000
000174	4780	C0F6	000F6		111	BE	MAINLOOP YES; DO NEXT LABEL	00830000
000178	45E0	B6EC	006EC		112	BAL	R14,PRINTREC ELSE PRINT IT	00840000
00017C	47F0	C0F6	000F6		113	B	MAINLOOP AND GET ANOTHER LABEL	00850000
					115	EXIT000	ITRACE ID=EXIT	00870000
000180	45E0	B564	00564		116+	EXIT000	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
000184	C5E7C9E340404040				117+	DC	CL8'EXIT' TRACE ID	00670000
00018C	58D0	D004	00004		118	L	R13,4(,R13) RESTORE REGISTER 13	00880000
000190	98EC	D00C	0000C		119	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	00890000
000194	1BFF				120	SR	R15,R15 GIVE GOOD RETURN CODE	00900000
000196	07FE				121	BR	R14 RETURN TO CALLER	00910000
000198					123		LTORG	00930000
000198	5CE4D5C4C5C65C				124		=CL7 '*UNDEF*'	
					126	*	-----*	00950000
					127	*	DATA	* 00960000
					128	*	-----*	* 00970000
00019F	40D3C1C2C5D34040				129	SUBHEAD	DC CL08' LABEL '	00980000
0001A7	4040				130		DC CL02' '	00990000
0001A9	4040C4C9E2D74040				131		DC CL08' DISP '	01000000
0001B1	4040				132		DC CL02' '	01010000
0001B3	40E2E3D4E3				133		DC CL05' STMT '	01020000
0001B8	4040				134		DC CL02' '	01030000
0001BA	D9C5C6C5D9C5D5C3				135		DC C'REFERENCES'	01040000
				00025	136	SUBHEADL	EQU *-SUBHEAD	01050000
					138		COPY DISASMDA	01070000
					139		AIF ('&DAPRT' EQ 'ON').DA010	00010000
					140		PRINT OFF	00020000
					351		PRINT ON	02130000
					352	.DA020	ANOP	02140000
					354	*	-----*	01090000
					355	*		* 01100000
					356	*	COMMON DATA MAP	* 01110000
					357	*		* 01120000
					358	*	-----*	* 01130000
					359	DISASM00	DISASMCM TYPE=DSECT	01140000
					360+		PRINT OFF	00280000
					991+		PRINT ON	06440000
					992+	*	-----*	* 06460000
					993+	*		* 06470000
					994+	*	ABEND REASON CODES	* 06480000
					995+	*		* 06490000
					996+	*	-----*	* 06500000
				00001	997+	ABEND001	EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00002	998+ABEND002	EQU 2	UNKNOWN RETURN CODE FROM BLDL 06520000
			00003	999+ABEND003	EQU 3	UNKNOWN RLD ITEM TYPE 06530000
			00004	1000+ABEND004	EQU 4	RLD DATA REMAINING WENT NEGATIVE 06540000
			00005	1001+ABEND005	EQU 5	ATTEMPT TO GEN AN INSTR ON ODD ADDR 06550000
			00000	1004+R0	EQU 0	00070000
			00001	1005+R1	EQU 1	00080000
			00002	1006+R2	EQU 2	00090000
			00003	1007+R3	EQU 3	00100000
			00004	1008+R4	EQU 4	00110000
			00005	1009+R5	EQU 5	00120000
			00006	1010+R6	EQU 6	00130000
			00007	1011+R7	EQU 7	00140000
			00008	1012+R8	EQU 8	00150000
			00009	1013+R9	EQU 9	00160000
			0000A	1014+R10	EQU 10	00170000
			0000B	1015+R11	EQU 11	00180000
			0000C	1016+R12	EQU 12	00190000
			0000D	1017+R13	EQU 13	00200000
			0000E	1018+R14	EQU 14	00210000
			0000F	1019+R15	EQU 15	00220000
000C68			1022	DISASM00	DSECT ,	01160000
000C68		00710	1023		ORG PRTDATA	01170000
000710	4040404040404040		1024	OUTNAME	DC CL8' ',CL2' '	01180000
00071A	4040404040404040		1025	OUTDISP	DC CL8' ',CL2' '	01190000
000724	4040404040404040		1026	OUTSTMT	DC CL5' ',CL2' '	01200000
00072B	4040404040404040		1027	OUTFIELD	DC ((132+1-(OUTFIELD-PRTDATA))/6)CL(L'OUTSTMT+1)' '	01210000
		00011	1028	NUMFIELD	EQU (*-OUTFIELD)/L'OUTFIELD	01220000
000000			1029		END DISASM19	01230000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18												
\$OPMASK	00001	00000001	00986	00642													
\$PFTRC	00001	00000001	00494	00729	00731												
\$PFXRF	00001	00000020	00498	00041													
\$PRTHEAD	00001	000000C8	00851	00047													
\$PRTPRT	00001	000000D7	00853	00839	00860												
\$PRTSUBH	00001	000000E2	00852	00735													
AOP	00004	000000AC	00400	00623													
APR	00004	000000B8	00402	00842													
APU	00004	000000BC	00403	00863													
BASEDSCT	00001	00000000	00158	00166													
BLKTRT	00001	00000A68	00900	00901	00903	00905	00907	00909	00911	00913	00915	00917	00919	00921	00923	00925	
COMMCLR	00004	000000F8	00429	00449	00453												
COMMMDWRD	00008	00000000	00367	00094	00095	00103	00104	00754	00755								
COMMFILL	00001	00000161	00470	00799													
COMMHXCH	00016	00000275	00519	00520													
COMMHXTR	00016	00000185	00520	00088	00746	00749	00752	00756									
COMMLABL	00004	00000118	00438	00057	00082												
COMMNPRT	00001	000003C7	00575	00576	00578	00580	00582	00584	00586	00588	00590	00592	00594	00596	00598	00600	
COMMPDOL	00001	00000162	00471	00791	00806												
COMMPRT	00001	000002C7	00546	00547	00549	00551	00553	00555	00557	00559	00561	00563	00565	00567	00569		
COMMSUBH	00133	0000016D	00514	00043	00732												
COMMSUBL	00002	00000154	00464	00045	00046	00733	00733	00734									
DATADSCT	00001	00000000	00173	00194													
DEFLABEL	00006	00000128	00094	00091													
DISASM00	00001	00000000	00361	00033	00374	00613	00690	00727	00788	00824	01022						
DISASM19	00001	00000000	00023	00024	00032	01029											
DSCTDSCT	00001	00000000	00201	00207													
ESDDATA	00001	00000000	00214	00237													
ESDNAME	00008	0000000E	00218	00233													
EXGETOPC	00006	00000554	00654	00647													
EXIT000	00004	00000180	00116	00042	00085												
GETOPEXT	00004	00000546	00650	00643													
GETOPLN	00001	0000055A	00655	00621													
GETOPNDT	00004	0000054E	00652	00626	00636	00641	00649										
GETOPTMK	00004	00000526	00642	00627													
GETOPWRK	00006	0000055E	00656	00646	00646	00648	00654										
HEXTRT	00001	00000868	00882	00883	00885	00887	00889	00891									
INTTRT	00001	00000968	00893	00894	00896	00898											
ITEMLOOP	00002	000000B4	00058	00066	00073												
LABLDISP	00004	00000014	00248	00087													
LABLDSCT	00001	00000000	00244	00060	00062	00063	00065	00067	00068	00069	00070	00083	00260				
LABLNAME	00008	0000000C	00247	00065	00065	00086											
LABLNEXT	00004	00000000	00245	00060	00063	00067	00068	00069	00070	00084							
LABLSTMT	00005	0000001C	00250	00090	00090	00094	00101										
LABLXREF	00004	00000018	00249	00096													
MAINLOOP	00004	000000F6	00084	00111	00113												
MAINRSV	00004	00000858	00880	00789	00795	00797	00801	00804	00810								
MODENT	00004	00000064	00028	00024													
MODHEAD	00023	00000005	00026	00025													
MODSAVE	00004	0000001C	00027	00034													
NBLTRT	00001	00000B68	00927	00928	00930												
NEWCONT	00004	00000138	00097	00108													
NEWLINE	00004	00000134	00096	00093													
NUMFIELD	00001	00000011	01028	00098													
OPDSECT	00001	00000000	00949	00624	00987												

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
OPFLAGS	00001	00000007	00978	00642															
OPFLAG1	00001	00000001	00951	00631															
OPFLAG2	00001	00000002	00952	00633															
OPFLAG3	00001	00000003	00953	00635															
OPMASK	00006	00000008	00988	00648															
OPMNEM	00006	00000000	00950	00951	00952	00953													
OUTDISP	00008	0000071A	01025	00087	00088	00089													
OUTFIELD	00006	0000072B	01027	00097	00104	00104	00105	01027	01028	01028									
OUTNAME	00008	00000710	01024	00086															
OUTSTMT	00005	00000724	01026	00092	00095	00104	01027												
PRINTDAT	00004	000006F0	00840	00048	00736														
PRINTFG1	00001	00000165	00487	00729	00731														
PRINTFG2	00001	00000166	00495	00041															
PRINTMVR	00006	000006E6	00837	00834															
PRINTREC	00004	000006EC	00839	00107	00112	00758	00836												
PRINTREX	00004	000006FE	00844	00828															
PRINTRSV	00004	00000848	00879	00825	00835	00840	00844	00861	00865										
PRTBLOK	00001	0000070E	00849	00841															
PRTCC	00001	0000070F	00856	00845															
PRTCMD	00001	0000070E	00850	00047	00735	00839	00860												
PRTDATA	00132	00000710	00857	00110	00110	00743	00744	00745	00746	00747	00748	00749	00750	00751	00752	00753	00755	00756	
				00757	00829	00837	00846	00846	01023	01027									
PUNBLOK	00001	000007B2	00868	00862															
PUNDATA	00080	000007B4	00874	00859															
REFDONE	00006	0000016E	00110	00100															
REFDSCT	00001	00000000	00267	00277															
REFLOOP	00004	00000140	00099	00106															
REFSKIP	00004	00000162	00106	00102															
RLDDATA	00001	00000000	00284	00302															
R0	00001	00000000	01004	00067	00068	00614	00620	00620	00621	00644	00692	00711	00728	00767	00791	00796	00800	00806	
				00829	00830	00832	00835												
R1	00001	00000001	01005	00044	00045	00616	00630	00650	00652	00654	00691	00693	00697	00697	00698	00700	00702	00789	
				00795	00796	00797	00801	00825	00827	00837	00840	00841	00844	00859	00861	00862	00865		
R10	00001	0000000A	01014	00030	00031	00031	00032												
R11	00001	0000000B	01015	00033	00613	00690	00727	00788	00824										
R12	00001	0000000C	01016	00028	00029	00031	00032	00119	00704										
R13	00001	0000000D	01017	00028	00035	00036	00037	00118	00118	00119									
R14	00001	0000000E	01018	00028	00034	00035	00036	00037	00039	00048	00107	00112	00116	00119	00121	00617	00618	00619	
				00621	00628	00628	00630	00632	00634	00635	00637	00637	00638	00639	00650	00651	00653	00705	
				00712	00736	00758	00768	00789	00800	00801	00802	00804	00810	00811	00825	00835	00840	00843	
				00844	00847	00861	00864	00865	00866										
R15	00001	0000000F	01019	00024	00029	00120	00120	00614	00615	00615	00616	00618	00622	00623	00624	00625	00625	00639	
				00640	00640	00652	00692	00711	00728	00767	00798	00798	00799	00804	00810	00826	00826	00827	
				00830	00832	00833	00834	00842	00843	00863	00864								
R2	00001	00000002	01006	00629	00629	00631	00632	00633	00634										
R3	00001	00000003	01007	00056	00056	00071	00074	00074											
R4	00001	00000004	01008	00058	00060	00069	00071	00096	00099	00099	00101	00103	00644	00645	00647				
R5	00001	00000005	01009	00057	00058	00060	00062	00063	00068	00070	00072	00082	00083	00084	00737	00740	00760	00760	
				00761	00763	00765													
R6	00001	00000006	01010	00063	00065	00067	00069	00070	00072	00098	00106								
R7	00001	00000007	01011	00097	00104	00105	00105												
SORTDONE	00002	000000EC	00074	00059	00061	00064													
SORTLOOP	00002	000000AE	00056	00075															
SUBHEAD	00008	0000019F	00129	00043	00136														
SUBHEADL	00001	00000025	00136	00043	00044														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18				
SYMDATA	00001	00000000	00309	00314					
TPODA1A	00008	00000017	00772	00745	00745	00746	00746	00747	00747
TPODA1B	00008	00000020	00773	00748	00748	00749	00749	00750	00750
TPODA2A	00008	0000002A	00774	00751	00751	00752	00752	00753	00753
TPODA2B	00008	00000033	00775	00755	00755	00756	00756	00757	00757
TPOMOD	00008	00000003	00770	00743	00743				
TPOTID	00008	0000000D	00771	00744	00744				
TRACEPEN	00004	00000662	00767	00730	00739	00762			
TRACEPIN	00004	00000646	00760	00738	00742				
TRACEPPR	00004	000005E2	00741	00764	00766				
TRACESHD	00027	00000668	00776	00732	00732	00733			
TRACE000	00002	00000564	00689	00039	00116				
TRACE010	00002	00000580	00701	00699					
TRACE020	00002	000005A8	00710	00694					
TRCESAVE	00004	00000808	00878	00614	00650	00652	00692	00711	00728 00767
TRCURR	00004	000000D4	00415	00693	00702	00737	00761		
TRDATA1	00008	000000E0	00418	00706	00708	00708			
TRDATA2	00008	000000E8	00419	00707	00709	00709			
TREDATA1	00008	00000010	00940	00706	00745	00748			
TREDATA2	00008	00000018	00941	00707	00751	00754			
TREID	00008	00000008	00939	00705	00744				
TREMOD	00008	00000000	00938	00704	00741	00743			
TRENTYR	00001	00000000	00937	00691	00740	00759	00759	00942	
TRENTYRL	00001	00000020	00942	00697	00759	00760			
TRLAST	00004	000000CC	00413	00698	00763				
TR1ST	00004	000000C4	00411	00700	00765				
USNGDSCT	00001	00000000	00321	00335					
VERPSECT	00001	00000000	00342	00348					

ASM 0201 00.48 07/11/18

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00007 00000198 00124 00092
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ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	123
TOTAL RECORDS READ FROM SYSTEM LIBRARY	2722
TOTAL RECORDS PUNCHED	11
TOTAL RECORDS PRINTED	365

SYMBOL

TYPE

ID

ADDR

LENGTH

LDID

ASM 0201 00.48 07/11/18

DISASM55

SD

0001

000000

00089A

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	MACRO	00020000
				3	&NM INHEX &OUT,&IN,&MAKE=COMMDWRD	00030000
				4	LCLC &L	00040000
				5	&L SETC 'L''	00050000
				6	&NM UNPK &OUT.(&L&OUT+1),&IN.(&L&IN+1)	00060000
				7	TR &OUT,COMMHXTR	00070000
				8	MVI &OUT+&L&OUT,C' '	00080000
				9	MEND	00090000
				11	COPY DISASMGB	00110000
				12	* ----- *	00010000
				13	*	00020000
				14	* GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				15	*	00040000
				16	* DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				17	*	00060000
				18	* ----- *	00070000
				19	GBLA &TRNBRG,&MAXL,&MINL	00080000
				20	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				21	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				22	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
				24	* ----- *	00130000
				25	*	00140000
				26	* MODULE NAME: DISASM55	00150000
				27	*	00160000
				28	* FUNCTION:	00170000
				29	* BUILD LABEL AND DATA INFORMATION FROM LOAD MODULE'S SYMBOL TABLE	00180000
				30	*	00190000
				31	* ----- *	00200000
				32	*	00210000
				33	* THIS MODULE LOOPS THROUGH THE SYMBOL TABLE ENTRIES READ AND SAVED	00220000
				34	* BY DISASM03. DATA ARE IGNORED UNLESS:	00230000
				35	*	00240000
				36	* 1) CSECT ENTRY THAT MATCHES REQUESTED CSECT, THEN:	00250000
				37	* A) LABEL ENTRIES ARE BUILT AND CHAINED OFF COMMLABL	00260000
				38	* B) DATA ENTRIES ARE BUILT AND CHAINED OFF COMMDATA. OVERLAP-	00270000
				39	* PING ENTRIES ARE POSSIBLE (DISASM08 WILL HANDLE THESE).	00280000
				40	*	00290000
				41	* 2) DSECT/COMMON ENTRIES CAUSE A DSCT ENTRY TO BE BUILT.	00300000
				42	* A) LABEL ENTRIES ARE BUILT AND CHAINED OFF DSCTLABL	00310000
				43	*	00320000
				44	* OTHER ENTRIES ARE IGNORED.	00330000
				45	*	00340000
				46	* ----- *	00350000
				48	DISASM55 MODHEAD BASE=R12 ENTRY HOUSEKEEPING	00370000
000000				49+	DISASM55 START 0	00070000
000000	47F0 F064	00064		50+	B MODENT-DISASM55(,R15) BRANCH AROUND	00100000
000004	17			51+	DC AL1(L'MODHEAD)	00110000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000005	C4C9E2C1E2D4F5F5				52+	MODHEAD	DC C'DISASM55 07/11/18 00.48'	00120000
00001C	0000000000000000				53+	MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C		0000C		54+	MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF				55+		LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
				00000	56+		USING DISASM55,R12	00330000
				00000	57+		USING DISASM00,R11	00360000
00006A	41E0 C01C		0001C		58+		LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008		00008		59+		ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0 E004		00004		60+		ST R13,4(,R14) CHAIN UP	00390000
000076	18DE				61+		LR R13,R14 NEW SAVE AREA	00400000
					62		ITRACE ID=ENTRY	00380000
000078	45E0 B564		00564		63+		BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00007C	C5D5E3D9E8404040				64+		DC CL8'ENTRY' TRACE ID	00670000
000084	D731 C78C C78C		0078C	0078C	65		XC WORKAREA(WORKLEN),WORKAREA	00390000
00008A	9110 B165		00165		66		TM PRINTFG1,\$PFSYM PRINT SYMBOL TABLE OUTPUT?	00400000
00008E	4780 C0B0		000B0		67		BZ SKIPSUB NO	00410000
000092	D248 B16D C7BE		0016D	007BE	68		MVC COMMSUBH(SUBHEADL),SUBHEAD	00420000
000098	4110 0049		00049		69		LA R1,SUBHEADL SUBHEADING LENGTH	00430000
00009C	4010 B154		00154		70		STH R1,COMMSUBL SET LENGTH	00440000
0000A0	92FF B154		00154		71		MVI COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	00450000
0000A4	9680 C7BD		007BD		72		OI LOCFLAG,\$SUBH SET FLAG	00460000
0000A8	92C8 B70E		0070E		73		MVI PRTCMD,\$PRTHEAD SET COMMAND	00470000
0000AC	45E0 B6F0		006F0		74		BAL R14,PRINTDAT PRINT SUBHEADER	00480000
0000B0	BFAF B134		00134		75	SKIPSUB	ICM R10,15,COMMSYMP GET SYMBOL CHAIN POINTER	00490000
0000B4	4780 C68A		0068A		76		BZ EXIT000 CALLER'S ERROR	00500000
				00000	78		USING SYMDATA,R10 DECLARE ENTRY	00520000
0000B8	1B66				79		SR R6,R6 GET SIZE LOADED	00530000
0000BA	4960 C880		00880		80	CARDLOOP	CH R6,=AL2(L'WORK) TIME TO GET ANOTHER CARD?	00540000
0000BE	47B0 C0E8		000E8		81		BNL DOCURR NO	00550000
0000C2	9140 C7BD		007BD		82		TM LOCFLAG,\$EOD END OF DATA?	00560000
0000C6	4770 C0E8		000E8		83		BNZ DOCURR YES; CHECK FOR END OF PROCESSING	00570000
0000CA	41E6 C6D0		006D0		84	CARDGET	LA R14,WORK(R6) GET DESTINATION FOR APPENDED DATA	00580000
0000CE	48F0 A004		00004		85		LH R15,SYMRLEN GET LENGTH	00590000
0000D2	06F0				86		BCTR R15,0 SET FOR EXECUTE	00600000
0000D4	44F0 C6B6		006B6		87		EX R15,EXMVCTXT MOVE SYMBOL TEXT	00610000
0000D8	416F 6001		00001		88		LA R6,1(R15,R6) SET NEW SIZE	00620000
0000DC	BFAF A000		00000		89		ICM R10,15,SYMNEXT GET NEXT ENTRY	00630000
0000E0	4770 C0E8		000E8		90		BNZ DOCURR HAVE ONE; PROCESS CURRENT	00640000
0000E4	9640 C7BD		007BD		91		OI LOCFLAG,\$EOD SHOW NO MORE ON CHAIN	00650000
0000E8	1266				92	DOCURR	LTR R6,R6 ANY MORE TO DO?	00660000
0000EA	47D0 C68A		0068A		93		BNP EXIT000 ALL DONE	00670000
					95		TM PRINTFG2,\$PFBUG DEBUG MODE?	00690000
0000F2	4780 C122		00122		96		BZ SKIPBUG	00700000
					97		PUSH USING	00710000
0000F6	41E0 B710		00710		98		LA R14,PRTDATA *****POINT TO OUTPUT	00720000
0000FA	41F0 C6D0		006D0		99		LA R15,WORK *****POINT TO INPUT	00730000
0000FE	4100 0006		00006		100		LA R0,6 *****UNPACK 6 WORDS	00740000
				00000	101		USING OUTHEXD,R14	00750000
				00000	102		USING INPHEXD,R15	00760000
					103	HEXLINE	INHEX OUTHEX,INPHEX	00770000
000102	F384 E000 F000		00000	00000	104+	HEXLINE	UNPK OUTHEX(L'OUTHEX+1),INPHEX(L'INPHEX+1)	00060000
000108	DC07 E000 B185		00000	00185	105+		TR OUTHEX,COMMHXTR	00070000
00010E	9240 E008		00008		106+		MVI OUTHEX+L'OUTHEX,C' '	00080000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000112	41E0	E009	00009		107	LA	R14,9(,R14)	00780000
000116	41F0	F004	00004		108	LA	R15,4(,R15)	00790000
00011A	4600	C102	00102		109	BCT	R0,HEXLINE	00800000
00011E	45E0	B6EC	006EC		110	BAL	R14,PRINTREC	00810000
					111	POP	USING	00820000
000122	4140	C6D0	006D0		113	SKIPBUG	LA R4,WORK START LOADING WORK BUFFER	00840000
				00000	114	USING	RSYMDATA,R4 DECLARE FIXED PORTION	00850000
000126	4150	4004	00004		115	LA	R5,4(,R4) SET FOR FIXED OVERHEAD	00860000
				00000	116	USING	MSYMDATA,R5 DECLARE MOVEABLE DATA	00870000
00012A	D718	C7A4	C7A4	007A4	007A4	117	XC CURRZERO,CURRZERO CLEAR	GP99169 00880000
000130	9201	C7BB		007BB		118	MVI CURRDUPE+L'CURRDUPE-1,1 DEFAULT OCCURRENCE COUNT	00890000
000134	D202	C7A9	4001	007A9	00001	119	MVC CURROFF+1(L'RSYMOFF),RSYMOFF SAVE DISPLACEMENT	00900000
00013A	D207	B712	C790	00712	00790	120	MVC OUTSECT,#DSECT SET CURRENT SECTION	00910000
					121	INHEX	OUTORG,RSYMORG FORMAT ORGANIZATION IN HEX	00920000
000140	F321	B72D	4000	0072D	00000	122+	UNPK OUTORG(L'OUTORG+1),RSYMORG(L'RSYMORG+1)	00060000
000146	DC01	B72D	B185	0072D	00185	123+	TR OUTORG,COMMHXTR	00070000
00014C	9240	B72F		0072F		124+	MVI OUTORG+L'OUTORG,C' '	00080000
					125	INHEX	OUTOFF,RSYMOFF FORMAT OFFSET IN HEX	00930000
000150	F363	B71B	4001	0071B	00001	126+	UNPK OUTOFF(L'OUTOFF+1),RSYMOFF(L'RSYMOFF+1)	00060000
000156	DC05	B71B	B185	0071B	00185	127+	TR OUTOFF,COMMHXTR	00070000
00015C	9240	B721		00721		128+	MVI OUTOFF+L'OUTOFF,C' '	00080000
000160	9108	4000		00000		129	TM RSYMORG,\$RSNAME IS THERE A NAME FIELD?	00940000
000164	4770	C18A		0018A		130	BNZ NONAME NO	00950000
000168	43F0	4000		00000		131	IC R15,RSYMORG GET LENGTH BITS	00960000
00016C	54F0	C870		00870		132	N R15,=X'00000007' ISOLATE THEM	00970000
000170	D207	C79C	B225	0079C	00225	133	MVC CURRLBL,COMMBLKS CLEAR UNUSED BYTES	00980000
000176	44F0	C6BC		006BC		134	EX R15,EXMVCNAM MOVE NAME	00990000
00017A	D207	B723	C79C	00723	0079C	135	MVC OUTLBL,CURRLBL ALSO PRINT LABEL	01000000
000180	D203	C7A4	C7A8	007A4	007A8	136	MVC CURRDISP,CURROFF SAVE OFFSET FOR LABEL	GP99161 01010000
000186	415F	5001		00001		137	LA R5,1(R15,R5) POINT PAST NAME	01020000
00018A	9180	4000		00000		138	NONAME TM RSYMORG,\$RSDC DC DEFINITION ?	01030000
00018E	4770	C362		00362		139	BNZ DODCDATA YES	01040000
					140	*-----*		01050000
					141	*		* 01060000
					142	NON-DATA TYPE		* 01070000
					143	*		* 01080000
					144	*-----*		* 01090000
000192	43F0	4000		00000		145	IC R15,RSYMORG	01100000
000196	54F0	C874		00874		146	N R15,=X'00000070' ISOLATE NON-DATA TYPE	01110000
00019A	88F0	0004		00004		147	SRL R15,4 UNITIZE	01120000
00019E	4CF0	C882		00882		148	MH R15,=AL2(ORGTAB-ORGTABDC)	01130000
0001A2	41EF	C1E0		001E0		149	LA R14,ORGTAB(R15) POINT TO TABLE ENTRY	01140000
0001A6	D207	B730	E000	00730	00000	150	MVC OUTOPR,0(R14) SHOW TYPE	01150000
0001AC	48F0	E008		00008		151	LH R15,8(,R14) GET PROCESSING OFFSET	01160000
0001B0	47FF	C000		00000		152	B DISASM55(R15) INVOKE PROCESSING CODE	01170000
0001B4	41F0	B6EC		006EC		154	NEXTCARD LA R15,PRINTREC SET TO PRINT IT	01190000
0001B8	9110	B165		00165		155	TM PRINTFG1,\$PFSYM PRINT SYMBOL DATA ?	01200000
0001BC	4770	C1C4		001C4		156	BNZ NEXTCARD YES	01210000
0001C0	41F0	B702		00702		157	LA R15,PRINTCLR ELSE JUST CLEAR THE PRINT LINE	01220000
0001C4	05EF					158	NEXTCARD BALR R14,R15 PRINT OR CLEAR IT	01230000
0001C6	D26F	C6D0	5000	006D0	00000	159	MVC WORK(2*L'WORK),0(R5) MOVE NEXT	01240000
0001CC	4166	C6D0		006D0		160	LA R6,WORK(R6)	01250000
0001D0	1F65					161	SLR R6,R5 UPDATE REMAINING LENGTH	01260000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
0001D2	47F0	C0BA	000BA		162	B	CARDLOOP	01270000	
0001D6	C4C3404040404040				164	ORGTABDC	DC CL8'DC',AL2(DODCDATA-DISASM55)	-1 01290000	
0001E0	C4E2404040404040				165	ORGTAB	DC CL8'DS',AL2(DODSDATA-DISASM55)	0 01300000	
0001EA	C3E2C5C3E3404040				166		DC CL8'CSECT',AL2(DODCSECT-DISASM55)	1 01310000	
0001F4	C4E2C5C3E3404040				167		DC CL8'DSECT',AL2(DODDSECT-DISASM55)	2 01320000	
0001FE	C3D6D4D4D6D54040				168		DC CL8'COMMON',AL2(DODDSCOM-DISASM55)	3 01330000	
000208	C9D5E2E340404040				169		DC CL8'INST',AL2(DOOPCODE-DISASM55)	4 01340000	
000212	C3C3E64040404040				170		DC CL8'CCW',AL2(DOCCWDAT-DISASM55)	5 01350000	
00021C	C5D8E461D6D9C740				171		DC CL8'EQU/ORG',AL2(TESTLABL-DISASM55)	6 01360000	
000226	6FE3E8D7C540F76F				172		DC CL8'?TYPE 7?',AL2(NEXTCARD-DISASM55)	7 01370000	
					174	*-----*		* 01390000	
					175	*		* 01400000	
					176	* CSECT DEFINITION		* 01410000	
					177	*		* 01420000	
					178	*-----*		* 01430000	
000230	94CF	C7BD	007BD		179	DODCSECT	NI LOCFLAG,255-\$LFCSECT-\$LFDSECT RESET ALL SECT FLAGS	01440000	
000234	D207	B712	C79C	00712	0079C	180	MVC	OUTSECT,CURRLBL UPDATE CURRENT LINE'S SECTION	01450000
00023A	D703	C78C	C78C	0078C	0078C	181	XC	@DSECT,@DSECT NO DSECT BLOCK ACTIVE	01460000
000240	D703	C798	C798	00798	00798	182	XC	@LABELS,@LABELS NO LABELS, EITHER	01470000
000246	D507	C79C	B14C	0079C	0014C	183	CLC	CURRLBL,COMMCSNM DESIRED SECTION ?	01480000
00024C	4770	C1B4	001B4		184		BNE	NEXTCARD NO; FLUSH UNTIL NEXT CSECT/DSECT/COMMON	01490000
000250	D207	C790	C79C	00790	0079C	185	MVC	#DSECT,CURRLBL SET CSECT NAME	01500000
000256	9620	C7BD	007BD		186		OI	LOCFLAG,\$LFCSECT SET CSECT	01510000
00025A	4100	B118	00118		187		LA	R0,COMMLABL POINT TO LABEL ANCHOR	01520000
00025E	5000	C798	00798		188		ST	R0,@LABELS SAVE IT	01530000
000262	47F0	C1B4	001B4		189		B	NEXTCARD GO FOR MORE	01540000
					191	*-----*		* 01560000	
					192	*		* 01570000	
					193	* DSECT/COMMON DEFINITION		* 01580000	
					194	*		* 01590000	
					195	*-----*		* 01600000	
					196		PUSH	USING	01610000
000266					197	DODDSCOM	DS	OH	01620000
000266	94CF	C7BD	007BD		198	DODDSECT	NI	LOCFLAG,255-\$LFCSECT-\$LFDSECT RESET ALL SECT FLAGS	01630000
00026A	D207	B712	C79C	00712	0079C	199	MVC	OUTSECT,CURRLBL UPDATE CURRENT LINE'S SECTION	01640000
000270	D207	C790	C79C	00790	0079C	200	MVC	#DSECT,CURRLBL SET DSECT NAME	01650000
000276	4130	B100	00100		202		LA	R3,COMMUSNG POINT TO USING CHAIN	01670000
				00000	203		USNG	USNGDSCT,R3 DECLARE MAPPING	01680000
00027A	BF3F	3000	00000		204	DODDFIND	ICM	R3,15,USNGNEXT ANOTHER?	01690000
00027E	4780	C1B4	001B4		205		BZ	NEXTCARD NO; SKIP ALL ENTRIES FOR THIS DSECT	01700000
000282	D507	C79C	300C	0079C	0000C	206	CLC	CURRLBL,USNGDSNM MATCHING NAME?	01710000
000288	4770	C27A	0027A		207		BNE	DODDFIND NO; TRY NEXT	01720000
00028C	9610	C7BD	007BD		208		OI	LOCFLAG,\$LFDSECT SET DSECT	01730000
000290	4130	B104	00104		210	MAKESECT	LA	R3,COMMDSCT	01750000
				00000	211		USNG	DSCTDSCT,R3 DECLARE IT	01760000
000294	1823				212	MSECFIND	LR	R2,R3 SET LINK ORIGIN	01770000
000296	BF3F	3000	00000		213		ICM	R3,15,DSCTNEXT FOUND ?	01780000
00029A	4780	C2B8	002B8		214		BZ	MSECMAKE NO; MAKE ONE	01790000
00029E	D507	300C	C790	0000C	00790	215	CLC	DSCTNAME,#DSECT REQUESTED ENTRY?	01800000
0002A4	4770	C294	00294		216		BNE	MSECFIND NO; CONTINUE SEARCH	01810000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002A8	5030	C78C	0078C		217	ST	R3,@DSECT SET POINTER	01820000
0002AC	4100	3014	00014		218	LA	R0,DSCTLBA SET HEAD OF CHAIN	01830000
0002B0	5000	C798	00798		219	ST	R0,@LABELS AND SAVE IT	01840000
0002B4	47F0	C1B4	001B4		220	B	NEXTCARD GET ANOTHER CARD	01850000
0002B8	4100	0018	00018		221	MSECMAKE LA	R0,DSCTL	01860000
0002BC	45E0	B684	00684		222	BAL	R14,GETMAIN GET ANOTHER BLOCK	01870000
0002C0	5010	2000	00000		223	ST	R1,DSCTNEXT-DSCTDSCT(,R2) CHAIN AT END	01880000
					224	DROP	R3	01890000
			00000		225	USING	DSCTDSCT,R1	01900000
0002C4	D207	100C	C790	0000C	00790	226	MVC DSCTNAME,#DSECT SET NAME	01910000
0002CA	5010	C78C	0078C		227	ST	R1,@DSECT SET POINTER	01920000
0002CE	4100	1014	00014		228	LA	R0,DSCTLBA SET HEAD OF CHAIN	01930000
0002D2	5000	C798	00798		229	ST	R0,@LABELS AND SAVE IT	01940000
0002D6	47F0	C1B4	001B4		230	B	NEXTCARD GET ANOTHER CARD	01950000
					231	POP	USING	01960000
					233	*-----*		01980000
					234	*-----*		01990000
					235	* CCW DEFINITION		02000000
					236	*-----*		02010000
					237	*-----*		02020000
0002DA	9130	C7BD	007BD		238	DOCCWDAT TM	LOCFLAG,\$LFCSECT+\$LFDSECT WANTED ?	02030000
0002DE	4780	C1B4	001B4		239	BZ	NEXTCARD NO; SKIP UNTIL CSECT OR DSECT	02040000
0002E2	92F8	C7BC	007BC		240	MVI	CURRTYPE,C'8' SET CODE FOR CCW GP99169	02050000
0002E6	4110	0008	00008		241	LA	R1,8 SET CCW LENGTH	02060000
0002EA	47F0	C33A	0033A		242	B	DODSCCW GO TO COMMON DS PROCESSING	02070000
					244	*-----*		02090000
					245	*-----*		02100000
					246	* INSTRUCTION OP-CODE PROCESSING		02110000
					247	*-----*		02120000
					248	*-----*		02130000
0002EE	9130	C7BD	007BD		249	DOOPCODE TM	LOCFLAG,\$LFCSECT+\$LFDSECT WANTED ?	02140000
0002F2	4780	C1B4	001B4		250	BZ	NEXTCARD NO; SKIP UNTIL CSECT OR DSECT	02150000
0002F6	5810	C7A8	007A8		251	L	R1,CURROFF GET CURRENT OFFSET	02160000
0002FA	5E10	B130	00130		252	AL	R1,COMMTXT PLUS LOADED BASE	02170000
0002FE	45E0	B4C8	004C8		253	BAL	R14,GETOPENT GET TARGET INSTRUCTION	02180000
000302	47F0	C1B4	001B4		254	B	NEXTCARD NOT A VALID OPCODE ????	02190000
000306	D205	B732	F000	00732	00000	255	MVC OUTOPR+2(6),0(R15) COPY INSTRUCTION MNEMONIC	02200000
00030C	9240	B731	00731		256	MVI	OUTOPR+1,C' ' SEPARATE	02210000
000310	5000	C7B4	007B4		257	ST	R0,CURRLEN SET LENGTH	02220000
000314	5000	C7B0	007B0		258	ST	R0,CURRSIZE SET TOTAL LENGTH	02230000
000318	4E00	B000	00000		259	CVD	R0,COMMDWRD MAKE PACKED	02240000
00031C	D204	B740	C884	00740	00884	260	MVC OUTLEN,=X'2020202120'	02250000
000322	DE05	B73F	B005	0073F	00005	261	ED OUTLEN-1(L'OUTLEN+1),COMMDWRD+5 SHOW LENGTH	02260000
000328	92F2	C7BC	007BC		262	MVI	CURRTYPE,C'2' INDICATE INSTRUCTION (LENGTH?) GP99169	02270000
00032C	47F0	C5AE	005AE		263	B	TESTLABL GO TO ADD THE LABEL	02280000
					265	*-----*		02300000
					266	*-----*		02310000
					267	* DS VARIABLE		02320000
					268	*-----*		02330000
					269	*-----*		02340000
000330	1B11				270	DODSDATA SR	R1,R1	02350000
000332	4310	5000	00000		271	IC	R1,0(,R5) GET LENGTH	02360000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000336	4150	5001	00001		272	LA	R5,1(,R5) NEW SPACING	02370000
00033A	9130	C7BD	007BD		273	DODSCCW TM	LOCFLAG,\$LFCSECT+\$LFDSECT WANTED ?	02380000
00033E	4780	C1B4	001B4		274	BZ	NEXTCARD NO; SKIP UNTIL CSECT OR DSECT	02390000
000342	5010	C7B4	007B4		275	ST	R1,CURRLEN SET LENGTH	02400000
000346	5010	C7B0	007B0		276	ST	R1,CURRSIZE SET TOTAL LENGTH	02410000
00034A	4E10	B000	00000		277	CVD	R1,COMMDWRD MAKE PACKED	02420000
00034E	D204	B740	C884 00740	00884	278	MVC	OUTLEN,=X'2020202120'	02430000
000354	DE05	B73F	B005 0073F	00005	279	ED	OUTLEN-1(L'OUTLEN+1),COMMDWRD+5 SHOW LENGTH	02440000
00035A	92E7	C7BC	007BC		280	MVI	CURRTYPE,C'X' INDICATE UNKNOWN FORMAT	GP99169 02450000
00035E	47F0	C474	00474		281	B	TESTDATA	02460000
					283	*-----*		02480000
					284	*		* 02490000
					285	* DC VARIABLE		* 02500000
					286	*		* 02510000
					287	*-----*		* 02520000
					288	DODCDATA INHEX	OUTTYP,MSYMTYPE	02530000
000362	F321	B73A	5000 0073A	00000	289+	DODCDATA UNPK	OUTTYP(L'OUTTYP+1),MSYMTYPE(L'MSYMTYPE+1)	00060000
000368	DC01	B73A	B185 0073A	00185	290+	TR	OUTTYP,COMMHXTR	00070000
00036E	9240	B73C	0073C		291+	MVI	OUTTYP+L'OUTTYP,C' '	00080000
000372	D207	B730	C1D6 00730	001D6	292	MVC	OUTOPR,ORGTABDC	02540000
000378	1B11				293	SR	R1,R1 CLEAR FOR TYPING	02550000
00037A	4310	5000	00000		294	IC	R1,MSYMTYPE	02560000
00037E	8810	0002	00002		295	SRL	R1,2 CONVERT TO 1-BYTE OFFSETS	02570000
000382	43F1	C456	00456		296	IC	R15,TYPTAB(R1) GET TYPE	02580000
000386	42F0	B73D	0073D		297	STC	R15,OUTTYP SHOW IT OFF	02590000
00038A	42F0	C7BC	007BC		298	STC	R15,CURRTYPE SAVE FOR DATA BLOCK	GP99169 02600000
00038E	4311	C465	00465		299	IC	R1,LENTAB(R1) GET MATCHING LENGTH LENGTH	02610000
000392	1211				300	LTR	R1,R1 ONE OR TWO (0, 1)	02620000
000394	4780	C3A4	003A4		301	BZ	DODCLEN1 0 - LENGTH = 1	02630000
000398	BF13	5001	00001		302	ICM	R1,3,MSYMLen GET ITEM LENGTH	02640000
00039C	4150	5001	00001		303	LA	R5,1(,R5) SKIP ONE EXTRA	02650000
0003A0	47F0	C3A8	003A8		304	B	DODCLEN1 FORMAT IT	02660000
0003A4	4310	5001	00001		305	DODCLEN1 IC	R1,MSYMLen GET LENGTH	02670000
0003A8	4150	5002	00002		306	DODCLEN1 LA	R5,2(,R5) SKIP TYPE AND LENGTH	02680000
0003AC	4110	1001	00001		307	LA	R1,1(,R1) CORRECT FOR BIAS	02690000
0003B0	5010	C7B4	007B4		308	ST	R1,CURRLEN SET LENGTH	02700000
0003B4	5010	C7B0	007B0		309	ST	R1,CURRSIZE SET TOTAL LENGTH	02710000
0003B8	4E10	B000	00000		310	CVD	R1,COMMDWRD MAKE PACKED	02720000
0003BC	D204	B740	C884 00740	00884	311	MVC	OUTLEN,=X'2020202120'	02730000
0003C2	DE05	B73F	B005 0073F	00005	312	ED	OUTLEN-1(L'OUTLEN+1),COMMDWRD+5 SHOW LENGTH	02740000
0003C8	9140	4000	00000		313	TM	RSYMORG,\$RSMUL MULT. FACTOR?	02750000
0003CC	4780	C40C	0040C		314	BZ	DODCNOMF NO	02760000
0003D0	1B11				315	SR	R1,R1	02770000
0003D2	BF17	5000	00000		316	ICM	R1,7,MSYMMUL LOAD IT	02780000
0003D6	4E10	B000	00000		317	CVD	R1,COMMDWRD PACK	02790000
0003DA	5010	C7B8	007B8		318	ST	R1,CURRDUPE SAVE FOR DATA BLOCK	GP99169 02800000
0003DE	1B00				319	SR	R0,R0 CLEAR FOR M	02810000
0003E0	5C00	C7B4	007B4		320	M	R0,CURRLEN TIMES ITEM LENGTH	02820000
0003E4	5010	C7B0	007B0		321	ST	R1,CURRSIZE SAVE TOTAL SIZE REQUIRED	02830000
0003E8	D208	B747	C889 00747	00889	322	MVC	OUTMUL,=X'2020202020202120'	02840000
0003EE	DE09	B746	B003 00746	00003	323	ED	OUTMUL-1(L'OUTMUL+1),COMMDWRD+3	02850000
0003F4	4150	5003	00003		324	LA	R5,L'MSYMMUL(,R5) SKIP OVER	02860000
0003F8	D503	C878	C7B8 00878	007B8	325	CLC	=F'1',CURRDUPE IS MULT. FACTOR = 1 ?	GP99183 02870000
0003FE	4770	C40C	0040C		326	BNE	DODCNOMF	GP99183 02880000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					327	* I FOUND THAT P'123,456' GENERATES 3 SYM ENTRIES. ONE WITH LENGH OF	02890000
					328	* FOUR AND A MULT.FACT OF 1 (AND ANY LABEL), REST PLAIN PL2 ENTRIES.	02900000
000402	D502	5001	C7A9	00001	007A9	329 CLC 1(3,R5),CURROFF+1 NEXT ENTRY SAME DISPLACEMENT? GP99183	02910000
000408	4780	C5AE		005AE		330 BE TESTLABL YES; ONLY DO LABEL FROM THIS ONE GP99183	02920000
00040C	9110	4000		00000		331 DODCNOMF TM RSYMORG,\$RSSCL SCALE FACTOR?	02930000
000410	4780	C42E		0042E		332 BZ DODCNOSC NO	02940000
000414	1B11					333 SR R1,R1	02950000
000416	BF13	5000		00000		334 ICM R1,3,MSYMSCL LOAD IT	02960000
00041A	4E10	B000		00000		335 CVD R1,COMMDWRD PACK	02970000
00041E	D204	B752	C884	00752	00884	336 MVC OUTSCL,=X'2020202120'	02980000
000424	DE09	B751	B005	00751	00005	337 ED OUTSCL-1(L'OUTMUL+1),COMMDWRD+5	02990000
00042A	4150	5002		00002		338 LA R5,L'MSYMSCL(,R5) SKIP OVER	03000000
					339	*****	03010000
					340	* TEMP PATCH - I'M GETTING A (FALSE?) DATA RECORD IN THE MIDDLE OF	03020000
					341	* OF CODE. UNTI I FIGURE IT OUT, DISCARD IT GP10047	03030000
00042E	9588	4000		00000		342 DODCNOSC CLI RSYMORG,X'88' PART 1 MATCHES? GP10047	03040000
000432	4770	C440		00440		343 BNE DODCN02 NO; TRY ALTERNATE GP10049	03050000
000436	D502	C892	4002	00892	00002	344 CLC =X'040000',RSYMOFF+1 PART 2 MATCHES? GP10047	03060000
00043C	4780	C1B4		001B4		345 BE NEXTCARD YES; IGNORE THIS GP10047	03070000
000440	95C8	4000		00000		346 DODCN02 CLI RSYMORG,X'C8' PART 1 MATCHES? GP10049	03080000
000444	4770	C474		00474		347 BNE TESTDATA NO; CHECK FOR DATA GP10049	03090000
000448	D504	C895	4002	00895	00002	348 CLC =X'1401000000',RSYMOFF+1 PART 2 MATCHES? GP10049	03100000
00044E	4780	C1B4		001B4		349 BE NEXTCARD YES; IGNORE THIS GP10049	03110000
000452	47F0	C474		00474		350 B TESTDATA SEE WHETHER WE NEED A DATA BLOCK	03120000
					351	* NOTE THAT THE DOCUMENTATION IS INCORRECT. DECIOMAL DATA (P, Z) ALL	03130000
					352	* HAVE A 1-BYTE LENGTH, NOT 2-BYTE AS STATED GP99188	03140000
					353	* ALSO: GQ	03150000
000456	C3C8C26FC6C8C5C4				354	TYPTAB DC C'CHB?FHEDAYSVPZL' DC TYPE	03160000
000465	0101010000000000				355	LENTAB DC AL1(1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0) LEN-1 OF LENGTH FLD	03170000
					357	*-----*	03190000
					358	* *	03200000
					359	* BUILD A DATA ENTRY ON THE COMMDATA CHAIN. *	03210000
					360	* *	03220000
					361	* IGNORE EXACT DUPLICATES, OTHERWISE ADD IN SEQUENCE BY START *	03230000
					362	* ADDRESS AND END ADDRESS *	03240000
					363	* *	03250000
					364	* RESOLVE CONFLICTS BY SPLITTING EXCESS INTO ADDITIONAL DATA *	03260000
					365	* BLOCKS AND DISCARDING DUPLICATES (THIS PREVENTS CONFLICT WITH *	03270000
					366	* PRIOR RLD AND ESD GENERATED DATA BLOCKS *	03280000
					367	* *	03290000
					368	*-----*	03300000
					369	PUSH USING	03310000
000474	9120	C7BD		007BD		371 TESTDATA TM LOCFLAG,\$LFCSECT ARE WE IN A CSECT?	03330000
000478	4780	C51E		0051E		372 BZ DONEDATA ELSE GO TO THE LABEL	03340000
00047C	BF1F	C7B0		007B0		373 MAKEDATA ICM R1,15,CURRSIZE LOAD AND TEST DATA LENGTH	03350000
000480	47D0	C51E		0051E		374 BNP DONEDATA SKIP IF ZERO OR WORSE	03360000
000484	D503	C7B8	C878	007B8	00878	375 CLC CURRDUPE,=F'1' MULTIPLE OCCURRENCE? GP99180	03370000
00048A	47D0	C4A8		004A8		376 BNH MDATONE NO GP99180	03380000
00048E	95E2	C7BC		007BC		377 CLI CURRTYPE,C'S' S-CONSTANT? GP99180	03390000
000492	4770	C4A8		004A8		378 BNE MDATONE NO GP99180	03400000
000496	D503	C87C	C7B4	0087C	007B4	379 CLC =F'2',CURRLEN EXPECTED LENGTH? GP99180	03410000
00049C	4770	C4A8		004A8		380 BNE MDATONE GP99180	03420000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
0004A0	5810	C7B4	007B4		381	L	R1,CURRLLEN USE ITEM LENGTH AND LOOP	GP99180 03430000	
0004A4	5010	C7B0	007B0		382	ST	R1,CURRSIZE	GP99180 03440000	
0004A8	5A10	C7A8	007A8		383	MDATONE	A R1,CURROFF DISPLACEMENT TO NEW DATA	GP99180 03450000	
0004AC	0610				384	BCTR	R1,0 MINUS 1	03460000	
0004AE	5010	C7AC	007AC		385	ST	R1,CURREND ENDING DISPLACEMENT	03470000	
0004B2	4180	B10C	0010C		386	MDATSCON	LA R8,COMMDATA 'LAST' FORWARD POINTER	GP99180 03480000	
			00000		387	USING	DATADSCT,R8 DEFINE BASE	03490000	
0004B6	1828				388	MDATLOOP	LR R2,R8 PRESERVE INSERTION ADDRESS	03500000	
0004B8	BF8F	8000	00000		389	ICM	R8,15,DATANEXT NEXT DATA BLOCK'S ADDRESS	03510000	
0004BC	4780	C51A	0051A		390	BZ	MDATMAKE NO MATCH; ADD AT END	03520000	
0004C0	D503	C7AC	801C	007AC	0001C	391	CLC	CURREND,DATABEGN IN DATA BLOCK?	03530000
0004C6	4740	C51A	0051A		392	BL	MDATMAKE NO; ADD ONE PRIOR TO THIS	03540000	
0004CA	4780	C4D8	004D8		393	BE	MDAT162 PERHAPS; TEST THE OTHER WAY	03550000	
0004CE	D503	C7A8	8020	007A8	00020	394	MDAT161	CLC CURROFF,DATAEND OVERLAP?	03560000
0004D4	4720	C4B6	004B6		395	BH	MDATLOOP NO; TRY ANOTHER	03570000	
0004D8	D503	C7A8	801C	007A8	0001C	396	MDAT162	CLC CURROFF,DATABEGN NEED TO SPLIT BEFORE DATA?	03580000
0004DE	47B0	C4F8	004F8		397	BNL	MDATNBEF NO; CONTINUE CHECKING	03590000	
0004E2	45E0	C554	00554		398	BAL	R14,CHAINDAT GET AND CHAIN A BLOCK	03600000	
0004E6	98E0	C7A8	007A8		399	LM	R14,R0,CURROFF GET CURRENT DISPLACEMENT, ETC.	03610000	
0004EA	58F0	801C	0001C		400	L	R15,DATABEGN GET NEW END	03620000	
0004EE	180F				401	LR	R0,R15	03630000	
0004F0	1B0E				402	SR	R0,R14 NEW SIZE	03640000	
0004F2	06F0				403	BCTR	R15,0 MAKE CORRECT END	03650000	
0004F4	90E0	101C	0001C		404	STM	R14,R0,DATABEGN-DATADSCT(R1) UPDATE PREFIX	03660000	
0004F8	D503	C7AC	8020	007AC	00020	405	MDATNBEF	CLC CURREND,DATAEND NEED TO ADD AT END?	03670000
0004FE	47D0	C51E	0051E		406	BNH	DONEDATA NO; WE'RE DONE HERE	03680000	
000502	98E0	C7A8	007A8		407	LM	R14,R0,CURROFF GET CURRENT START,ETC.	03690000	
000506	58E0	8020	00020		408	L	R14,DATAEND	03700000	
00050A	180F				409	LR	R0,R15 GET NEW END	03710000	
00050C	1B0E				410	SR	R0,R14 SET NEW SIZE	03720000	
00050E	41E0	E001	00001		411	LA	R14,1(,R14) OLD END + 1 IS NEW START	03730000	
000512	90E0	C7A8	007A8		412	STM	R14,R0,CURROFF SET IT BACK	03740000	
000516	47F0	C4B6	004B6		413	B	MDATLOOP NOW SEE WHERE THE REST FITS IN	03750000	
00051A	45E0	C554	00554		415	MDATMAKE	BAL R14,CHAINDAT INSERT NEW DATA BLOCK IN SEQUENCE	03770000	
00051E	5810	C7B8	007B8		416	DONEDATA	L R1,CURRDUPE MORE THAN ONE OCCURRENCE?	GP99180 03780000	
000522	0610				417	BCTR	R1,0 ACCOUNT FOR ONE JUST DONE	GP99180 03790000	
000524	1211				418	LTR	R1,R1	GP99180 03800000	
000526	47D0	C5AE	005AE		419	BNP	TESTLABL NO MORE	GP99180 03810000	
00052A	95E2	C7BC	007BC		420	CLI	CURRTYPE,C'S' S-CONSTANT ?	GP99180 03820000	
00052E	4770	C5AE	005AE		421	BNE	TESTLABL NO; DO LABEL	GP99180 03830000	
000532	D503	C87C	C7B4	0087C	007B4	422	CLC	=F'2',CURRLLEN EXPECTED LENGTH?	GP99180 03840000
000538	4770	C5AE	005AE		423	BNE	TESTLABL	GP99180 03850000	
00053C	98EF	C7A8	007A8		424	LM	R14,R15,CURROFF GET START AND END	GP99180 03860000	
000540	5800	C7B4	007B4		425	L	R0,CURRLLEN GET ITEM LENGTH	GP99180 03870000	
000544	1AE0				426	AR	R14,R0	GP99180 03880000	
000546	1AF0				427	AR	R15,R0	GP99180 03890000	
000548	90EF	C7A8	007A8		428	STM	R14,R15,CURROFF UPDATE	GP99180 03900000	
00054C	5010	C7B8	007B8		429	ST	R1,CURRDUPE ALL AFFECTED	GP99180 03910000	
000550	47F0	C4B2	004B2		430	B	MDATSCON DO ANOTHER	GP99180 03920000	
					431	POP	USING	03930000	
					432	*-----*		03940000	
					433	* CURRENT DATA ARE TO BE ADDED NOW *		03950000	
					434	*-----*		03960000	
					435	PUSH USING		03970000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000554	90E2	C778	00778		436	CHAINDAT	STM R14,R2,CHNSAVE	03980000
000558	4100	0030	00030		437		LA R0,DATAL GET NEW DATA BLOCK	03990000
00055C	45E0	B684	00684		438	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW DATA BLOCK	04000000
					439	ITRACE	ID=NEWDATA, TRACE NEW BLOCKS	+04010000
							RDATA1=R1,	*04020000
							DATA2=CURROFF	04030000
000560	BE1F	B0E0	000E0		440+	STCM	R1,15,TRDATA1	00460000
000564	41E0	C7A8	007A8		441+	LA	R14,CURROFF DATA ADDRESS	00510000
000568	D207	B0E8	E000	000E8	00000	MVC	TRDATA2,0(R14) MOVE DATA	00530000
00056E	45E0	B564	00564		443+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000572	D5C5E6C4C1E3C140				444+	DC	CL8'NEWDATA' TRACE ID	00670000
				00000	445	USING	DATADSCT,R2 CALLER'S BASE ADDRESS	04040000
00057A	5800	2000	00000		446	L	R0,DATANEXT SAVE OLD FORWARD CHAIN	04050000
00057E	5010	2000	00000		447	ST	R1,DATANEXT CHAIN NEW TO PREVIOUS BLOCK	04060000
					448	DROP	R2	04070000
				00000	449	USING	DATADSCT,R1 CHEAT AND USE NEW BASE	04080000
000582	5000	1000	00000		450	ST	R0,DATANEXT COMPLETE POINTERS	04090000
000586	D207	1004	C860	00004	00860	MVC	DATAEYE,=CL8'DATA' SET EYECATCHER	04100000
00058C	D20B	101C	C7A8	0001C	007A8	MVC	DATABEGN(3*L'DATABEGN),CURROFF MOVE START/END/SIZE	04110000
000592	D207	100C	B225	0000C	00225	MVC	DATANAME,COMMBLKS INITIALIZE NAME	04120000
000598	9201	102B	0002B		454	MVI	DATATYPE,\$DATAUSR FAKE USER SUPPLIED	04130000
00059C	D200	102A	C7BC	0002A	007BC	MVC	DATAASMT,CURRTYPE SAVE DC TYPE	GP99169 04140000
0005A2	D201	1028	C7B6	00028	007B6	MVC	DATAILEN,CURRLEN+L'CURRLEN-L'DATAILEN	GP99169 04150000
					457	*DEFER* MVC	DATADUPE,CURRDUPE+L'CURRDUPE-L'DATADUPE	GP99169 04160000
0005A8	98E0	C778	00778		458	LM	R14,R0,CHNSAVE	04170000
0005AC	07FE				459	BR	R14 RETURN TO CALLER	04180000
					460	POP	USING	04190000
					462	*-----*		* 04210000
					463	*		* 04220000
					464	* BUILD AND CHAIN A LABEL BLOCK.		* 04230000
					465	* DURING CSECT PROCESSING, LABELS ARE CHAINED OFF COMMLABL		* 04240000
					466	* DURING DSECT AND COMMON PROCESSING CHAIN OFF THE MATCHING		* 04250000
					467	* DSCT BLOCK'S LABL FIELD (SET AT DODDSECT).		* 04260000
					468	*		* 04270000
					469	*-----*		* 04280000
					470	PUSH USING		04290000
0005AE	9540	C79C	0079C		472	TESTLABL	CLI CURRLBL,C' ' IS THERE A LABEL?	04310000
0005B2	4780	C1B4	001B4		473	BE	NEXTCARD NO; GO FOR MORE	04320000
0005B6	9130	C7BD	007BD		474	TM	LOCFLAG,\$LFCSECT+\$LFDSECT WANTED ?	04330000
0005BA	4780	C1B4	001B4		475	BZ	NEXTCARD NO; SKIP UNTIL CSECT OR DSECT	04340000
					477	MAKELBL	ITRACE ID=ADDLABEL, CSECT REFERENCE	+04360000
							DATA1=CURRDISP, .. DISPLACEMENT REFERENCED	*04370000
							DATA2=CURRLBL .. LABEL	04380000
0005BE	41E0	C7A4	007A4		478+MAKELBL	LA	R14,CURRDISP DATA ADDRESS	00360000
0005C2	D207	B0E0	E000	000E0	00000	MVC	TRDATA1,0(R14) MOVE DATA	00370000
0005C8	41E0	C79C	0079C		480+	LA	R14,CURRLBL DATA ADDRESS	00510000
0005CC	D207	B0E8	E000	000E8	00000	MVC	TRDATA2,0(R14) MOVE DATA	00530000
0005D2	45E0	B564	00564		482+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
0005D6	C1C4C4D3C1C2C5D3				483+	DC	CL8'ADDLABEL' TRACE ID	00670000
0005DE	1B22				484	SR	R2,R2 SET FLAG FOR FIRST TIME	04390000
0005E0	5890	C798	00798		485	L	R9,@LABELS FORWARD POINTER'S ADDRESS	04400000
				00000	486	USING	LABLDSCT,R9 DEFINE BASE	04410000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0005E4	1839				487	MLABLOOP	LR R3,R9 REMEMBER END OF CHAIN	04420000
0005E6	BF9F	9000	00000		488	ICM	R9,15,LABLNEXT GET AND TEST LINK	04430000
0005EA	4780	C60E	0060E		489	BZ	MLABMAKE INSERT ON END OF CHAIN	04440000
0005EE	D507	900C	C79C	0000C	0079C	490	CLC LABLNAME,CURRLBL DUPLICATE NAME?	04450000
0005F4	4780	C1B4	001B4		491	BE	NEXTCARD YES; SKIP IT	04460000
0005F8	1222				492	LTR	R2,R2 FIRST TIME?	04470000
0005FA	4770	C5E4	005E4		493	BNZ	MLABLOOP NO	04480000
0005FE	D503	9014	C7A4	00014	007A4	494	CLC LABLDISP,CURRDISP TEST DISPLACEMENT	GP99161 04490000
000604	47D0	C5E4	005E4		495	BNH	MLABLOOP	04500000
000608	1823				496	LR	R2,R3 REMEMBER INSERTION POINT	04510000
00060A	47F0	C5E4	005E4		497	B	MLABLOOP LOOK AGAIN	04520000
00060E	1292				498	MLABMAKE	LTR R9,R2 FOUND INSERTION POINT ?	04530000
000610	4770	C616	00616		499	BNZ	MLABADD	04540000
000614	1893				500	LR	R9,R3 ELSE ADD AT END	04550000
000616	4100	0024	00024		501	MLABADD	LA R0,LABLL	04560000
00061A	45E0	B684	00684		502	BAL	R14,GETMAIN ACQUIRE STORAGE FOR NEW LABL BLOCK	04570000
					503	ITRACE	ID=NEWLABL, NEW CSECT LABEL	+04580000
							RDATA1=R1, .. BLOCK'S ADRESS	+04590000
							DATA2=CURRDISP .. LABEL'S DISPLACEMENT	GP99161 04600000
00061E	BE1F	B0E0	000E0		504+	STCM	R1,15,TRDATA1	00460000
000622	41E0	C7A4	007A4		505+	LA	R14,CURRDISP DATA ADDRESS	00510000
000626	D207	B0E8	E000	000E8	00000	506+	MVC TRDATA2,0(R14) MOVE DATA	00530000
00062C	45E0	B564	00564		507+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000630	D5C5E6D3C1C2D340				508+	DC	CL8'NEWLABL' TRACE ID	00670000
000638	5800	9000	00000		509	L	R0,LABLNEXT GET OLD FORWARD LINK	04610000
00063C	5000	1000	00000		510	ST	R0,LABLNEXT-LABLDSC(,R1) NEXT BLOCK'S ADDRESS	04620000
000640	5010	9000	00000		511	ST	R1,LABLNEXT SET PREVIOUS BLOCK'S FWD POINTER	04630000
					512	DROP	R9	04640000
				00000	513	USING	LABLDSC(,R1) NEW BASE	04650000
000644	92E2	1022	00022		514	MVI	LABLSRCE,C'S' SHOW SUPPLIED BY SYMT SCAN	04660000
000648	D207	1004	C868	00004	00868	515	MVC LABLEYE,=CL8'LABL' SET BLOCK ID	04670000
00064E	D207	100C	C79C	0000C	0079C	516	MVC LABLNAME,CURRLBL SET LABEL'S NAME	04680000
000654	D203	1014	C7A4	00014	007A4	517	MVC LABLDISP,CURRDISP SET DISPLACEMENT	04690000
00065A	D200	1023	C7BC	00023	007BC	518	MVC LABLASMT,CURRTYPE ASM TYPE	GP99169 04700000
000660	D200	1021	B730	00021	00730	519	MVC LABLTYPE,OUTOPR MOVE POSSIBLE TYPE	04710000
000666	95C3	1021	00021		520	CLI	LABLTYPE,C'C' CCW?	04720000
00066A	4770	C672	00672		521	BNE	*+8 NO	04730000
00066E	92C4	1021	00021		522	MVI	LABLTYPE,C'D' SET CCW AS DATA	04740000
000672	95C4	1021	00021		523	CLI	LABLTYPE,C'D' DATA?	04750000
000676	4780	C1B4	001B4		524	BE	NEXTCARD YES; PROCESS	04760000
00067A	95C9	1021	00021		525	CLI	LABLTYPE,C'I' INSTRUCTION?	04770000
00067E	4780	C1B4	001B4		526	BE	NEXTCARD YES; PROCESS	04780000
000682	92E4	1021	00021		527	MVI	LABLTYPE,\$LABLU SET LABEL TYPE - USER'S	04790000
000686	47F0	C1B4	001B4		528	B	NEXTCARD	04800000
					529	POP	USING	04810000
					531	*****		04830000
					532	**		** 04840000
					533	** GET OUT. LEAVE. QUIT. EXIT. VANISH. VAMOSE. SAYONARA.		** 04850000
					534	**		** 04860000
					535	*****		04870000
					536	EXIT000	ITRACE ID=EXIT	04880000
00068A	45E0	B564	00564		537+	EXIT000	BAL R14,TRACE000 ENTER TRACE ROUTINE	00640000
00068E	C5E7C9E340404040				538+	DC	CL8'EXIT' TRACE ID	00670000
000696	58D0	D004	00004		539	L	R13,4(,R13) RESTORE REGISTER 13	04890000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00069A	98EC	D00C	0000C		540	LM	R14,R12,12(R13)	RESTORE ALL OTHER REGISTERS 04900000
00069E	1BFF				541	SR	R15,R15	GIVE GOOD RETURN CODE 04910000
0006A0	07FE				542	BR	R14	RETURN TO CALLER 04920000
0006A2	9110	B165	00165		544	PRINT000	TM PRINTFG1,\$PFSYM	PRINT SYMBOL TABLE DATA ? 04940000
0006A6	4770	C6B0	006B0		545		BNZ PRINT010	YES 04950000
0006AA	45E0	B702	00702		546		BAL R14,PRINTCLR	NO; JUST CLEAR PRINT LINE 04960000
0006AE	07F9				547		BR R9	04970000
0006B0	45E0	B6EC	006EC		548	PRINT010	BAL R14,PRINTREC	PRINT 04980000
0006B4	07F9				549		BR R9	04990000
					550	*	-----*	05000000
					551	*		* 05010000
					552	*	EXECUTED INSTRUCTIONS	* 05020000
					553	*		* 05030000
					554	*	-----*	05040000
0006B6	D200	E000	A006	00000	00006	555	EXMVCTXT MVC	O(0,R14),SYMTEXT MOVE SYMBOL TEXT AFTER CURRENT 05050000
0006BC	D200	C79C	5000	0079C	00000	556	EXMVCNAM MVC	CURRLBL(0),MSYMNAM MOVE NAME FIELD 05060000
					557	*	-----*	05070000
					558	*		* 05080000
					559	*	WORK AREAS	* 05090000
					560	*		* 05100000
					561	*	-----*	05110000
0006C2	0000							
0006C4	000006D	0000000038			562	WORKBXLE	DC A(WORK,56,WORK+2*56-1)	05120000
0006D0	0000000000000000				563	WORK	DC 3XL56'00' ROOM FOR SLIDING THINGS AROUND	05130000
					565	*	-----*	05150000
					566	*	FLAG/SWITCH BYTES	* 05160000
					567	*	-----*	05170000
000778	0000000000000000				568	CHNSAVE	DC 5A(0)	SAVE AREA FOR DATA BLOCK ADDITION 05180000
00078C					569	WORKAREA	DS 0A	LOCAL WORK AREA CLEARED ON ENTRY 05190000
00078C	00000000				570	@DSECT	DC A(0)	DSECT POINTER 05200000
000790	4040404040404040				571	#DSECT	DC CL8' '	NAME OF CURRENT CSECT/DSECT 05210000
000798	00000000				572	@LABELS	DC A(0)	LABEL CHAIN HEAD 05220000
00079C	4040404040404040				573	CURRLBL	DC CL8' '	CURRENT LABEL 05230000
			007A4		574	CURRZBEG	EQU *	AREA ZEROED FOR EACH ENTRY GP99169 05240000
0007A4	00000000				575	CURRDISP	DC A(0)	CURRENT OFFSET (SAVED FOR LABEL ADD) 05250000
0007A8	00000000				576	CURROFF	DC A(0) 1/3	CURRENT OFFSET (ORDER MATCHES DATABEGN 05260000
0007AC	00000000				577	CURREND	DC A(0) 2/3	CURRENT END AREA THROUGH DATALEN) 05270000
0007B0	00000000				578	CURRSIZE	DC F'0' 3/3	LENGTH * MULT.FACTOR 05280000
0007B4	00000000				579	CURRLEN	DC F'0'	CURRENT LENGTH (SINGLE OCCURRENCE) 05290000
0007B8	00000000				580	CURRDUPE	DC F'0'	CURRENT MULTIPLICATION FACTOR GP99169 05300000
0007BC	40				581	CURRTYPE	DC C' '	ASSEMBLER TYPE + 2/4/6 INSTR, 8 CCW 05310000
			00019		582	CURRZLEN	EQU *-CURRZBEG	GP99169 05320000
			007A4		583	CURRZERO	EQU CURRZBEG,CURRZLEN,C'A'	CLEARED AREA GP99169 05330000
0007BD	00				584	LOCFLAG	DC X'00'	HEADING FLAGS 05340000
			00080		585	\$SUBH	EQU X'80'	.. SUBHEADING PRINTED 05350000
			00040		586	\$EOD	EQU X'40'	.. END OF SYMT CHAIN HIT 05360000
			00020		587	\$LFCSECT	EQU X'20'	.. IN A CSECT OR RSECT 05370000
			00010		588	\$LFDSECT	EQU X'10'	.. IN A DSECT OR COMMON 05380000
			00032		589	WORKLEN	EQU *-WORKAREA	05390000
0007BE					590	SUBHEAD	DS OC	05400000
0007BE	4040E2C5C3E3C9D6				591		DC CL2' ',CL8'SECTION ',CL1' '	05410000
0007C9	D6C6C6E2C5E34040				592		DC CL6'OFFSET',CL2' '	05420000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0007D1	D5C1D4C540404040			593	DC	CL8'NAME ',CL2' 0'	05430000
0007DB	D9C740			594	DC	CL2'RG',CL1' '	05440000
0007DE	C4C5C64B40404040			595	DC	CL8'DEF. ',CL2' '	05450000
0007E8	E3E8D7			596	DC	CL2'TY',CL1'P'	05460000
0007EB	C54040			597	DC	C'E',CL2' '	05470000
0007EE	4040D3C5D54040			598	DC	CL5' LEN',CL2' '	05480000
0007F5	D4E4D3E34BC6C1C3			599	DC	CL9'MULT.FACT',CL2' '	05490000
000800	E2C3C1D3C54040			600	DC	CL5'SCALE',CL2' '	05500000
		00049		601	SUBHEADL EQU	*-SUBHEAD	05510000
000807	C4C9E2C1E2D4F5F5			603	MSG01 DC	C'DISASM5501E DATA AREA OVERLAPS AN INSTRUCTION, SHOULD	+05530000
00080F	F0F1C540C4C1E3C1					HAVE BEEN DETECTED BY DISASM08'	05540000
		00054		604	MSG01L EQU	*-MSG01	05550000
000860				606		LTORG	05570000
000860	C4C1E3C140404040			607		=CL8'DATA'	
000868	D3C1C2D340404040			608		=CL8'LABL'	
000870	00000007			609		=X'00000007'	
000874	00000070			610		=X'00000070'	
000878	00000001			611		=F'1'	
00087C	00000002			612		=F'2'	
000880	0038			613		=AL2(L'WORK)	
000882	000A			614		=AL2(ORGTAB-ORGTABDC)	
000884	2020202120			615		=X'2020202120'	
000889	2020202020202021			616		=X'202020202020202120'	
000892	040000			617		=X'040000'	
000895	1401000000			618		=X'1401000000'	
				620	COPY	DISASMDA	05590000
				621	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				622	PRINT OFF		00020000
				833	PRINT ON		02130000
				834	.DA020 ANOP		02140000
				835	*-----*		05600000
				836	*		* 05610000
				837	*	COMMON DATA MAP	* 05620000
				838	*		* 05630000
				839	*-----*		* 05640000
				840	DISASM00	DISASMCM TYPE=DSECT	05650000
				841+	PRINT OFF		00280000
				1472+	PRINT ON		06440000
				1473+	*-----*		* 06460000
				1474+	*		* 06470000
				1475+	*	ABEND REASON CODES	* 06480000
				1476+	*		* 06490000
				1477+	*-----*		* 06500000
00001	1478+ABEND001	EQU	1			REQUESTED VIA AN ABEND STATEMENT	06510000
00002	1479+ABEND002	EQU	2			UNKNOWN RETURN CODE FROM BLDL	06520000
00003	1480+ABEND003	EQU	3			UNKNOWN RLD ITEM TYPE	06530000
00004	1481+ABEND004	EQU	4			RLD DATA REMAINING WENT NEGATIVE	06540000
00005	1482+ABEND005	EQU	5			ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00000	1485+R0	EQU	0	00070000
			00001	1486+R1	EQU	1	00080000
			00002	1487+R2	EQU	2	00090000
			00003	1488+R3	EQU	3	00100000
			00004	1489+R4	EQU	4	00110000
			00005	1490+R5	EQU	5	00120000
			00006	1491+R6	EQU	6	00130000
			00007	1492+R7	EQU	7	00140000
			00008	1493+R8	EQU	8	00150000
			00009	1494+R9	EQU	9	00160000
			0000A	1495+R10	EQU	10	00170000
			0000B	1496+R11	EQU	11	00180000
			0000C	1497+R12	EQU	12	00190000
			0000D	1498+R13	EQU	13	00200000
			0000E	1499+R14	EQU	14	00210000
			0000F	1500+R15	EQU	15	00220000
000C68				1502	DISASM00	DSECT ,	05660000
000C68		00712	1504		ORG	PRTDATA+2	05680000
000712	4040404040404040		1505	OUTSECT	DC	CL8' ',CL1' '	05690000
00071B	4040404040404040		1506	OUTOFF	DC	CL6' ',CL2' '	05700000
000723	4040404040404040		1507	OUTLBL	DC	CL8' ',CL2' '	05710000
00072D	404040		1508	OUTORG	DC	CL2' ',CL1' '	05720000
000730	4040404040404040		1509	OUTOPR	DC	CL8' ',CL2' '	05730000
00073A	404040		1510	OUTTYP	DC	CL2' ',CL1' '	05740000
00073D	404040		1511	OUTTYPE	DC	C' ',CL2' '	05750000
000740	4040404040404040		1512	OUTLEN	DC	CL5' ',CL2' '	05760000
000747	4040404040404040		1513	OUTMUL	DC	CL9' ',CL2' '	05770000
000752	4040404040404040		1514	OUTSCL	DC	CL5' ',CL2' '	05780000
000000			1516	RSYMDATA	DSECT	,	05800000
000000			1517	RSYMORG	DS	X ORGANIZATION	05810000
		00080	1518	\$RSDC	EQU	X'80' ON : DC	05820000
		00040	1519	\$RSMUL	EQU	X'40' ON : 3-BYTE MULT. FACTOR	05830000
		00020	1520	\$RSCLS	EQU	X'20' ON : CLUSTER (PACKED OR ZONED DECIMAL)	05840000
		00010	1521	\$RSSCL	EQU	X'10' ON : 2-BYTE SCALE FACTOR	05850000
		00008	1522	\$RSNAME	EQU	X'08' OFF: NAME FIELD EXISTS	05860000
		00008	1523	\$RSDS	EQU	X'08' ON : NO NAME FIELD	05870000
000001			1524	RSYMOFF	DS	XL3 OFFSET IN CURRENT SECTION	05880000
000000			1526	MSYMDATA	DSECT	,	05900000
000000			1527	MSYMNAME	DS	OCL8 0-8 BYTES OF LABEL	05910000
000000			1528	MSYMTYPE	DS	X (DC TYPE FIELD)	05920000
000001			1529	MSYMLN	DS	X 1 OR 2 BYTE LENGTH FIELD	05930000
000002		00000	1530		ORG	MSYMDATA	05940000
000000			1531	MSYMMUL	DS	OXL3 MULT. FACTOR	05950000
000000			1532	MSYMSCL	DS	OXL2 SCALE FACTOR	05960000
000000			1534	OUTHEXD	DSECT	,	05980000
000000			1535	OUTHEX	DS	CL8,C FOR INHEX REGISTER FORM - PHONEY MAPPINGS	05990000
000000			1536	INPHEXD	DSECT	,	06000000
000000			1537	INPHEX	DS	XL4	06010000
000000			1538		END	DISASM55	06020000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$DATAUSR	00001	00000001	00667	00454	
\$EOD	00001	00000040	00586	00082 00091	
\$LABLU	00001	000000E4	00738	00527	
\$LFCSECT	00001	00000020	00587	00179 00186 00198 00238 00249 00273 00371 00474	
\$LFDSECT	00001	00000010	00588	00179 00198 00208 00238 00249 00273 00474	
\$OPMASK	00001	00000001	01467	01123	
\$PFBUG	00001	00000001	00981	00095	
\$PFSYM	00001	00000010	00972	00066 00155 00544	
\$PFTRC	00001	00000001	00975	01210 01212	
\$PRTHEAD	00001	000000C8	01332	00073	
\$PRTPRT	00001	000000D7	01334	01320 01341	
\$PRTSUBH	00001	000000E2	01333	01216	
\$RSDC	00001	00000080	01518	00138	
\$RSMUL	00001	00000040	01519	00313	
\$RSNAME	00001	00000008	01522	00129	
\$RSSCL	00001	00000010	01521	00331	
\$SUBH	00001	00000080	00585	00072	
#DSECT	00008	00000790	00571	00120 00185 00200 00215 00226	
@DSECT	00004	0000078C	00570	00181 00181 00217 00227	
@LABELS	00004	00000798	00572	00182 00182 00188 00219 00229 00485	
AOP	00004	000000AC	00881	01104	
APR	00004	000000B8	00883	01323	
APU	00004	000000BC	00884	01344	
BASEDSCT	00001	00000000	00640	00648	
BLKTRT	00001	00000A68	01381	01382 01384 01386 01388 01390 01392 01394 01396 01398 01400 01402 01404 01406	
CARDLOOP	00004	000000BA	00080	00162	
CHAINDAT	00004	00000554	00436	00398 00415	
CHNSAVE	00004	00000778	00568	00436 00458	
COMMBLKS	00001	00000225	00999	00133 00453	
COMMCLR	00004	000000F8	00910	00930 00934	
COMMCSNM	00008	0000014C	00933	00183	
COMMDATA	00004	0000010C	00916	00386	
COMMDSCT	00004	00000104	00914	00210	
COMMDWRD	00008	00000000	00848	00259 00261 00277 00279 00310 00312 00317 00323 00335 00337 01235 01236	
COMMFILL	00001	00000161	00951	01280	
COMMHXCH	00016	00000275	01000	01001	
COMMHXTR	00016	00000185	01001	00105 00123 00127 00290 01227 01230 01233 01237	
COMMLABL	00004	00000118	00919	00187	
COMMNPR	00001	000003C7	01056	01057 01059 01061 01063 01065 01067 01069 01071 01073 01075 01077 01079 01081	
COMMPPOOL	00001	00000162	00952	01272 01287	
COMMPRT	00001	000002C7	01027	01028 01030 01032 01034 01036 01038 01040 01042 01044 01046 01048 01050	
COMMSUBH	00133	0000016D	00995	00068 01213	
COMMSUBL	00002	00000154	00945	00070 00071 01214 01214 01215	
COMMSYMP	00004	00000134	00926	00075	
COMMTXT	00004	00000130	00925	00252	
COMMUSNG	00004	00000100	00913	00202	
CURRDISP	00004	000007A4	00575	00136 00478 00494 00505 00517	
CURRDUPE	00004	000007B8	00580	00118 00118 00318 00325 00375 00416 00429	
CURREND	00004	000007AC	00577	00385 00391 00405	
CURRLBL	00008	0000079C	00573	00133 00135 00180 00183 00185 00199 00200 00206 00472 00480 00490 00516 00556	
CURRLEN	00004	000007B4	00579	00257 00275 00308 00320 00379 00381 00422 00425 00456 00456	
CURROFF	00004	000007A8	00576	00119 00136 00251 00329 00383 00394 00396 00399 00407 00412 00424 00428 00441 00452	
CURRSIZE	00004	000007B0	00578	00258 00276 00309 00321 00373 00382	
CURRTYPE	00001	000007BC	00581	00240 00262 00280 00298 00377 00420 00455 00518	
CURRZBEG	00001	000007A4	00574	00582 00583	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
CURRZERO	00025	000007A4	00583	00117 00117	
CURRZLEN	00001	00000019	00582	00583	
DATAASMT	00001	0000002A	00665	00455	
DATABEGN	00004	0000001C	00661	00391 00396 00400 00404 00452 00452	
DATADSCT	00001	00000000	00655	00387 00404 00445 00449 00676	
DATAEND	00004	00000020	00662	00394 00405 00408	
DATAEYE	00008	00000004	00657	00451	
DATAILEN	00002	00000028	00664	00456 00456	
DATAL	00001	00000030	00676	00437	
DATANAME	00008	0000000C	00658	00453	
DATANEXT	00004	00000000	00656	00389 00446 00447 00450	
DATATYPE	00001	0000002B	00666	00454	
DISASM00	00001	00000000	00842	00057 00855 01094 01171 01208 01269 01305 01502	
DISASM55	00001	00000000	00049	00050 00056 00152 00164 00165 00166 00167 00168 00169 00170 00171 00172 01538	
DOCCWDAT	00004	000002DA	00238	00170	
DOCURR	00002	000000E8	00092	00081 00083 00090	
DODCDATA	00006	00000362	00289	00139 00164	
DODCLENC	00004	000003A8	00306	00304	
DODCLEN1	00004	000003A4	00305	00301	
DODCNOMF	00004	0000040C	00331	00314 00326	
DODCNOSC	00004	0000042E	00342	00332	
DODCNO2	00004	00000440	00346	00343	
DODCSECT	00004	00000230	00179	00166	
DODDFIND	00004	0000027A	00204	00207	
DODDSCOM	00002	00000266	00197	00168	
DODDSECT	00004	00000266	00198	00167	
DODSCCW	00004	0000033A	00273	00242	
DODSDATA	00002	00000330	00270	00165	
DONEDATA	00004	0000051E	00416	00372 00374 00406	
DOOPCODE	00004	000002EE	00249	00169	
DSCTDSCT	00001	00000000	00683	00211 00223 00225 00689	
DSCTL	00001	00000018	00689	00221	
DSCTLBA	00004	00000014	00687	00218 00228	
DSCTNAME	00008	0000000C	00686	00215 00226	
DSCTNEXT	00004	00000000	00684	00213 00223	
EMSG01	00084	00000807	00603	00604	
ESDDATA	00001	00000000	00696	00719	
ESDNAME	00008	0000000E	00700	00715	
EXGETOPC	00006	00000554	01135	01128	
EXIT000	00004	0000068A	00537	00076 00093	
EXMVCNAM	00006	000006BC	00556	00134	
EXMVCTXT	00006	000006B6	00555	00087	
GETMAIN	00004	00000684	01270	00222 00438 00502	
GETOPENT	00004	000004C8	01095	00253	
GETOPEXT	00004	00000546	01131	01124	
GETOPLEN	00001	0000055A	01136	01102	
GETOPNOT	00004	0000054E	01133	01107 01117 01122 01130	
GETOPTMK	00004	00000526	01123	01108	
GETOPWRK	00006	0000055E	01137	01127 01127 01129 01135	
HEXLINE	00006	00000102	00104	00109	
HEXTRT	00001	00000868	01363	01364 01366 01368 01370 01372	
INPHEX	00004	00000000	01537	00104 00104	
INPHEXD	00001	00000000	01536	00102	
INTTRT	00001	00000968	01374	01375 01377 01379	
LABLASMT	00001	00000023	00740	00518	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
LABLDISP	00004	00000014	00730	00494 00517															
LABLDSCT	00001	00000000	00726	00486 00510 00513 00742															
LABLEYE	00008	00000004	00728	00515															
LABLL	00001	00000024	00742	00501															
LABLNAME	00008	0000000C	00729	00490 00516															
LABLNEXT	00004	00000000	00727	00488 00509 00510 00511															
LABLSRCE	00001	00000022	00739	00514															
LABLTYPE	00001	00000021	00733	00519 00520 00522 00523 00525 00527															
LENTAB	00001	00000465	00355	00299															
LOCFLAG	00001	000007BD	00584	00072 00082 00091 00179 00186 00198 00208 00238 00249 00273 00371 00474															
MAINRSV	00004	00000858	01361	01270 01276 01278 01282 01285 01291															
MDATLOOP	00002	000004B6	00388	00395 00413															
MDATMAKE	00004	0000051A	00415	00390 00392															
MDATNBEF	00006	000004F8	00405	00397															
MDATONE	00004	000004A8	00383	00376 00378 00380															
MDATSCON	00004	000004B2	00386	00430															
MDAT162	00006	000004D8	00396	00393															
MLABADD	00004	00000616	00501	00499															
MLABLOOP	00002	000005E4	00487	00493 00495 00497															
MLABMAKE	00002	0000060E	00498	00489															
MODENT	00004	00000064	00054	00050															
MODHEAD	00023	00000005	00052	00051															
MODSAVE	00004	0000001C	00053	00058															
MSECFIND	00002	00000294	00212	00216															
MSECMAKE	00004	000002B8	00221	00214															
MSYMDATA	00001	00000000	01526	00116 01530															
MSYMLEN	00001	00000001	01529	00302 00305															
MSYMMUL	00003	00000000	01531	00316 00324															
MSYMNAME	00008	00000000	01527	00556															
MSYMSCL	00002	00000000	01532	00334 00338															
MSYMTYPE	00001	00000000	01528	00289 00289 00294															
NBLTRT	00001	00000B68	01408	01409 01411															
NEXTCARD	00004	000001B4	00154	00172 00184 00189 00205 00220 00230 00239 00250 00254 00274 00345 00349 00473 00475 00491															
				00524 00526 00528															
NEXTCART	00002	000001C4	00158	00156															
NONAME	00004	0000018A	00138	00130															
OPDSECT	00001	00000000	01430	01105 01468															
OPFLAGS	00001	00000007	01459	01123															
OPFLAG1	00001	00000001	01432	01112															
OPFLAG2	00001	00000002	01433	01114															
OPFLAG3	00001	00000003	01434	01116															
OPMASK	00006	00000008	01469	01129															
OPMNEM	00006	00000000	01431	01432 01433 01434															
ORGTAB	00008	000001E0	00165	00149 00614															
ORGTABDC	00008	000001D6	00164	00292 00614															
OUTHEX	00008	00000000	01535	00104 00104 00105 00106 00106															
OUTHEXD	00001	00000000	01534	00101															
OUTLBL	00008	00000723	01507	00135															
OUTLEN	00005	00000740	01512	00260 00261 00261 00278 00279 00279 00311 00312 00312															
OUTMUL	00009	00000747	01513	00322 00323 00323 00337															
OUTOFF	00006	0000071B	01506	00126 00126 00127 00128 00128															
OUTOPR	00008	00000730	01509	00150 00255 00256 00292 00519															
OUTORG	00002	0000072D	01508	00122 00122 00123 00124 00124															
OUTSCL	00005	00000752	01514	00336 00337															
OUTSECT	00008	00000712	01505	00120 00180 00199															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
OUTTYP	00002	0000073A	01510	00289	00289	00290	00291	00291											
OUTTYPE	00001	0000073D	01511	00297															
PRINTCLR	00004	00000702	01326	00157	00546														
PRINTDAT	00004	000006F0	01321	00074	01217														
PRINTFG1	00001	00000165	00968	00066	00155	00544	01210	01212											
PRINTFG2	00001	00000166	00976	00095															
PRINTMVR	00006	000006E6	01318	01315															
PRINTREC	00004	000006EC	01320	00110	00154	00548	01239	01317											
PRINTREX	00004	000006FE	01325	01309															
PRINTRSV	00004	00000848	01360	01306	01316	01321	01325	01342	01346										
PRINT010	00004	000006B0	00548	00545															
PRTBLOK	00001	0000070E	01330	01322															
PRTCC	00001	0000070F	01337	01326															
PRTCMD	00001	0000070E	01331	00073	01216	01320	01341												
PRTDATA	00132	00000710	01338	00098	01224	01225	01226	01227	01228	01229	01230	01231	01232	01233	01234	01236	01237	01238	
				01310	01318	01327	01327	01504											
PUNBLOK	00001	000007B2	01349	01343															
PUNDATA	00080	000007B4	01355	01340															
REFDSCT	00001	00000000	00749	00759															
RLDDATA	00001	00000000	00766	00784															
RSYMDATA	00001	00000000	01516	00114															
RSYMOFF	00003	00000001	01524	00119	00119	00126	00126	00344	00348										
RSYMORG	00001	00000000	01517	00122	00122	00129	00131	00138	00145	00313	00331	00342	00346						
R0	00001	00000000	01485	00100	00109	00187	00188	00218	00219	00221	00228	00229	00257	00258	00259	00319	00319	00320	
				00399	00401	00402	00404	00407	00409	00410	00412	00425	00426	00427	00437	00446	00450	00458	
				00501	00509	00510	01095	01101	01101	01102	01125	01173	01192	01209	01248	01272	01277	01281	
				01287	01310	01311	01313	01316											
R1	00001	00000001	01486	00069	00070	00223	00225	00227	00241	00251	00252	00270	00270	00271	00275	00276	00277	00293	
				00293	00294	00295	00296	00299	00299	00300	00300	00302	00305	00307	00307	00308	00309	00310	
				00315	00315	00316	00317	00318	00321	00333	00333	00334	00335	00373	00381	00382	00383	00384	
				00385	00404	00416	00417	00418	00418	00429	00440	00447	00449	00504	00510	00511	00513	01097	
				01111	01131	01133	01135	01172	01174	01178	01178	01179	01181	01183	01270	01276	01277	01278	
				01282	01306	01308	01318	01321	01322	01325	01340	01342	01343	01346					
R10	00001	0000000A	01495	00075	00078	00089													
R11	00001	0000000B	01496	00057	01094	01171	01208	01269	01305										
R12	00001	0000000C	01497	00054	00055	00056	00540	01185											
R13	00001	0000000D	01498	00054	00059	00060	00061	00539	00539	00540									
R14	00001	0000000E	01499	00054	00058	00059	00060	00061	00063	00074	00084	00098	00101	00107	00107	00110	00149	00150	
				00151	00158	00222	00253	00398	00399	00402	00404	00407	00408	00410	00411	00411	00412	00415	
				00424	00426	00428	00436	00438	00441	00442	00443	00458	00459	00478	00479	00480	00481	00482	
				00502	00505	00506	00507	00537	00540	00542	00546	00548	00555	01098	01099	01100	01102	01109	
				01109	01111	01113	01115	01116	01118	01118	01119	01120	01131	01132	01134	01186	01193	01217	
				01239	01249	01270	01281	01282	01283	01285	01291	01292	01306	01316	01321	01324	01325	01328	
				01342	01345	01346	01347												
R15	00001	0000000F	01500	00050	00055	00085	00086	00087	00088	00099	00102	00108	00108	00131	00132	00134	00137	00145	
				00146	00147	00148	00149	00151	00152	00154	00157	00158	00255	00296	00297	00298	00400	00401	
				00403	00409	00424	00427	00428	00541	00541	01095	01096	01096	01097	01099	01103	01104	01105	
				01106	01106	01120	01121	01121	01133	01173	01192	01209	01248	01279	01279	01280	01285	01291	
				01307	01307	01308	01311	01313	01314	01315	01323	01324	01344	01345					
R2	00001	00000002	01487	00212	00223	00388	00436	00445	00448	00484	00484	00492	00492	00496	00498	01110	01110	01112	
				01113	01114	01115													
R3	00001	00000003	01488	00202	00203	00204	00210	00211	00212	00213	00217	00224	00487	00496	00500				
R4	00001	00000004	01489	00113	00114	00115	01125	01126	01128										
R5	00001	00000005	01490	00115	00116	00137	00137	00159	00161	00271	00272	00272	00303	00303	00306	00306	00324	00324	
				00329	00338	00338	01218	01221	01241	01241	01242	01244	01246						

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18									
R6	00001	000000006	01491	00079	00079	00080	00084	00088	00088	00092	00092	00160	00160	00161
R8	00001	000000008	01493	00386	00387	00388	00389							
R9	00001	000000009	01494	00485	00486	00487	00488	00498	00500	00512	00547	00549		
SKIPBUG	00004	00000122	00113	00096										
SKIPSUB	00004	000000B0	00075	00067										
SUBHEAD	00001	000007BE	00590	00068	00601									
SUBHEADL	00001	00000049	00601	00068	00069									
SYMDATA	00001	000000000	00791	00078	00796									
SYMNEXT	00004	000000000	00792	00089										
SYMRLN	00002	000000004	00793	00085										
SYMTEXT	00056	000000006	00794	00555										
TESTDATA	00004	00000474	00371	00281	00347	00350								
TESTLABL	00004	000005AE	00472	00171	00263	00330	00419	00421	00423					
TPODA1A	00008	00000017	01253	01226	01226	01227	01227	01228	01228					
TPODA1B	00008	00000020	01254	01229	01229	01230	01230	01231	01231					
TPODA2A	00008	0000002A	01255	01232	01232	01233	01233	01234	01234					
TPODA2B	00008	00000033	01256	01236	01236	01237	01237	01238	01238					
TPOMOD	00008	000000003	01251	01224	01224									
TPOTID	00008	00000000D	01252	01225	01225									
TRACEPEN	00004	00000662	01248	01211	01220	01243								
TRACEPIN	00004	00000646	01241	01219	01223									
TRACEPPR	00004	000005E2	01222	01245	01247									
TRACESHD	00027	00000668	01257	01213	01213	01214								
TRACE000	00002	00000564	01170	00063	00443	00482	00507	00537						
TRACE010	00002	00000580	01182	01180										
TRACE020	00002	000005A8	01191	01175										
TRCESAVE	00004	00000808	01359	01095	01131	01133	01173	01192	01209	01248				
TRCURR	00004	000000D4	00896	01174	01183	01218	01242							
TRDATA1	00008	000000E0	00899	00440	00479	00504	01187	01189	01189					
TRDATA2	00008	000000E8	00900	00442	00481	00506	01188	01190	01190					
TREDATA1	00008	00000010	01421	01187	01226	01229								
TREDATA2	00008	00000018	01422	01188	01232	01235								
TREID	00008	000000008	01420	01186	01225									
TREMOD	00008	000000000	01419	01185	01222	01224								
TRENTRY	00001	000000000	01418	01172	01221	01240	01240	01423						
TRENTRYL	00001	000000020	01423	01178	01240	01241								
TRLAST	00004	000000CC	00894	01179	01244									
TRIST	00004	000000C4	00892	01181	01246									
TYPTAB	00015	00000456	00354	00296										
USNGDSCT	00001	000000000	00803	00203	00817									
USNGDSNM	00008	00000000C	00806	00206										
USNGNEXT	00004	000000000	00804	00204										
VERPSECT	00001	000000000	00824	00830										
WORK	00056	000006D0	00563	00084	00099	00113	00159	00159	00160	00562	00562	00613		
WORKAREA	00004	0000078C	00569	00065	00065	00589								
WORKLEN	00001	00000032	00589	00065										

DA55				LITERAL CROSS-REFERENCE				PAGE 21					
SYMBOL				LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18					
=CL8'DATA'													
	00008	00000860	00607	00451									
=CL8'LABL'													
	00008	00000868	00608	00515									
=X'00000007'													
	00004	00000870	00609	00132									
=X'00000070'													
	00004	00000874	00610	00146									
=F'1'	00004	00000878	00611	00325	00375								
=F'2'	00004	0000087C	00612	00379	00422								
=AL2(L'WORK)													
	00002	00000880	00613	00080									
=AL2(ORGTAB-ORGTABDC)													
	00002	00000882	00614	00148									
=X'2020202120'													
	00005	00000884	00615	00260	00278	00311	00336						
=X'202020202020202120'													
	00009	00000889	00616	00322									
=X'040000'													
	00003	00000892	00617	00344									
=X'1401000000'													
	00005	00000895	00618	00348									
				</									

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 602

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2722

TOTAL RECORDS PUNCHED 44

TOTAL RECORDS PRINTED 1057

ASM 0201 00.48 07/11/18

```
DISASMDB  SD  0001 000000 000E35
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISASMDB	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	IF DISDEBUG DD IS ALLOCATED, MANY INTERNAL FIELDS AND DATA	* 00070000
				8 *	CHAINS WILL BE PRINTED FOR TROUBLE SHOOTING.	* 00080000
				9 *		* 00090000
				10 *	THERE ARE TWO "FUNCTIONS". NORMAL FUNCTION IS TO PRINT THE	* 00100000
				11 *	INTERNAL FIELDS AND RUN THE INTERNAL DATA CHAINS. THE SECONDARY	* 00110000
				12 *	FUNCTION IS TO PRINT THE ASSEMBLER OUTPUT FOR MODULE DISASM07.	* 00120000
				13 *		* 00130000
				14 *	NOTE: SEVERAL FIELDS ARE COPIED TO A WORK FIELD BEFORE	* 00140000
				15 *	"UNPACKING" THEM FOR PRINTING. WHEN "UNPACKING" THE	* 00150000
				16 *	FIELD, 1 MORE BYTE THAN PRINTED IS UNPACKED. WHEN THE	* 00160000
				17 *	FIELD IS THE LAST FIELD IN THE DATA AREA, AN SOC4 ABEND	* 00170000
				18 *	CAN OCCUR. COPYING THE FIELD BEFORE UNPACKING WAS TO	* 00180000
				19 *	PREVENT THESE SOC4 ABENDS. IF ANY DATA AREA IS MODIFIED	* 00190000
				20 *	AND SOME OTHER FIELD IS ADDED TO THE END OF THE AREA,	* 00200000
				21 *	BEWARE THAT IF IT IS UNPACKED FOR PRINTING IT MAY NEED	* 00210000
				22 *	TO BE COPIED BEFORE UNPACKING.	* 00220000
				23 *		* 00230000
				24 *	-----*	* 00240000
				25 *		* 00250000
				26 *	OUTPUT CHANGED TO PLACE BLOCK ADDRESS PRIOR TO IDENTIFIER.	* 00260000
				27 *	MINOR OTHER CORRECTIONS. GYP 05/99	* 00270000
				28 *		* 00280000
				29 *	-----*	* 00290000
				31	COPY DISASMGB	00310000
				32 *	-----*	* 00010000
				33 *		* 00020000
				34 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				35 *		* 00040000
				36 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				37 *		* 00060000
				38 *	-----*	* 00070000
				39	GBLA &TRNBRG,&MAXL,&MINL	00080000
				40	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				41	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				42	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				43 DISASMDB	MODHEAD , ENTRY HOUSEKEEPING GP99140	00320000
000000				44+DISASMDB	START 0	00070000
000000	47F0 F064	00064		45+	B MODENT-DISASMDB(,R15) BRANCH AROUND	00100000
000004	17			46+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4C4C2			47+MODHEAD	DC C'DISASMDB 07/11/18 00.48'	00120000
00001C	0000000000000000			48+MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		49+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			50+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
		00000		51+	USING DISASMDB,R12	00330000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
				00000	52+		USING DISASM00,R11	00360000	
00006A	41E0	C01C	0001C		53+	LA	R14,MODSAVE GET LOCAL SAVE AREA	00370000	
00006E	50E0	D008	00008		54+	ST	R14,8(,R13) CHAIN DOWN	00380000	
000072	50D0	E004	00004		55+	ST	R13,4(,R14) CHAIN UP	00390000	
000076	18DE				56+	LR	R13,R14 NEW SAVE AREA	00400000	
000078	1891				57	LR	R9,R1 COPY PARAMETER BLOCK ADDRESS	00330000	
			00000		58	USING	DEBUGBLOK,R9 DECLARE IT	00340000	
					59	ITRACE	ID=ENTRY, +00350000		
							DATA1=DEBUGCMD	00360000	
00007A	41E0	9004	00004		60+	LA	R14,DEBUGCMD DATA ADDRESS	00360000	
00007E	D207	B0E0	E000	000E0	00000	61+	MVC	TRDATA1,0(R14) MOVE DATA	00370000
000084	45E0	B564	00564		62+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000	
000088	C5D5E3D9E8404040				63+	DC	CL8'ENTRY' TRACE ID	00670000	
000090	9108	B164	00164		64	TM	COMMDD,\$DEBUGDD DEBUG DD PRESENT?	00370000	
000094	47E0	C838	00838		65	BNO	DEBUG1000 NO, TRACE ENTRY BEFORE EXIT	00380000	
000098	9180	C8EC	008EC		66	TM	DEBUGFLAG,\$DEBUGOPN DEBUG ALREADY OPEN?	00390000	
00009C	4710	C0AE	000AE		67	BO	DEBUG0005 YES	00400000	
0000A0	9680	C8EC	008EC		68	OI	DEBUGFLAG,\$DEBUGOPN INDICATE DCB IS OPEN	00410000	
					69	OPEN	(DISDEBUG,OUTPUT) OPEN DISDEBUG	00420000	
0000A4					70+	CNOP	0,4 ALIGN LIST TO FULLWORD	01740001	
0000A4	4510	C0AC	000AC		71+	BAL	1,*+8 LOAD REG1 W/LIST ADDR.	01780000	
0000A8	8F				72+	DC	AL1(143) OPTION BYTE	01900000	
0000A9	000DC0				73+	DC	AL3(DISDEBUG) DCB ADDRESS	01920000	
0000AC	0A13				74+	SVC	19 ISSUE OPEN SVC	04000000	
0000AE					75	DEBUG0005 DS	0H	00430000	
0000AE	95C8	9004	00004		76	CLI	DEBUGCMD,\$DEBUGHD HEADING?	00440000	
0000B2	4780	C81E	0081E		77	BE	DEBUG0300 YES	00450000	
0000B6	95D7	9004	00004		78	CLI	DEBUGCMD,\$DEBUGPRT PRINT?	00460000	
0000BA	4780	C826	00826		79	BE	DEBUG0310 YES	00470000	
0000BE	45A0	C88C	0088C		80	BAL	R10,HEAD0000 PRINT DEBUG HEADING	00480000	
					81	*	----- *	00490000	
					82	*	PRINT TRACE TABLE CONTROL *	00500000	
					83	*	----- *	00510000	
0000C2	D23D	C8FE	C9A4	008FE	009A4	84	DEBUG0010 MVC OUTDATA(PRTRL),PRTR TRACE DATA GP99138	00520000	
						85	SHEX OUTDATA+PRTR1ST-PRTR,TR1ST TRACE FIRST GP10085	00530000	
0000C8	F384	C910	B0C4	00910	000C4	86+	UNPK OUTDATA+PRTR1ST-PRTR(2*L'TR1ST+1),TR1ST(L'TR1ST+1) GP100X00310000		
					+		65		
0000CE	DC07	C910	B185	00910	00185	87+	TR OUTDATA+PRTR1ST-PRTR(2*L'TR1ST),COMMHXTR GP10081	00320000	
0000D4	9240	C918	00918			88+	MVI OUTDATA+PRTR1ST-PRTR+2*L'TR1ST,C' ' GP10065	00340000	
					89	SHEX	OUTDATA+PRTRLAST-PRTR,TRLAST TRACE LAST GP10085	00540000	
0000D8	F384	C920	B0CC	00920	000CC	90+	UNPK OUTDATA+PRTRLAST-PRTR(2*L'TRLAST+1),TRLAST(L'TRLAST+1) GX00310000		
					+		P10065		
0000DE	DC07	C920	B185	00920	00185	91+	TR OUTDATA+PRTRLAST-PRTR(2*L'TRLAST),COMMHXTR GP10081	00320000	
0000E4	9240	C928	00928			92+	MVI OUTDATA+PRTRLAST-PRTR+2*L'TRLAST,C' ' GP10065	00340000	
					93	SHEX	OUTDATA+PRTRCURR-PRTR,TRCURR TRACE CURRENT GP10085	00550000	
0000E8	F384	C933	B0D4	00933	000D4	94+	UNPK OUTDATA+PRTRCURR-PRTR(2*L'TRCURR+1),TRCURR(L'TRCURR+1) GX00310000		
					+		P10065		
0000EE	DC07	C933	B185	00933	00185	95+	TR OUTDATA+PRTRCURR-PRTR(2*L'TRCURR),COMMHXTR GP10081	00320000	
0000F4	9240	C93B	0093B			96+	MVI OUTDATA+PRTRCURR-PRTR+2*L'TRCURR,C' ' GP10065	00340000	
0000F8	45A0	C85C	0085C			97	BAL R10,PRT0000 PRINT TRACE DATA	00560000	
					98	*	----- *	00570000	
					99	*	PRINT DISMOD I/O AREA ADDRESS *	00580000	
					100	*	----- *	00590000	
0000FC	D221	C8FE	C9E2	008FE	009E2	101	MVC OUTDATA(PRIOL),PRIO TRACE DATA GP99138	00600000	
					102	SHEX	OUTDATA+PRIOA-PRIO,COMMIO I/O BUFFER GP10085	00610000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000102	F384	C917	B0F4	00917	000F4	103+	UNPK OUTDATA+PRIOA-PRIO(2*L'COMMIO+1),COMMIO(L'COMMIO+1) GP10X00310000	
						+	065	
000108	DC07	C917	B185	00917	00185	104+	TR OUTDATA+PRIOA-PRIO(2*L'COMMIO),COMMHXTR GP10081 00320000	
00010E	9240	C91F		0091F		105+	MVI OUTDATA+PRIOA-PRIO+2*L'COMMIO,C' ' GP10065 00340000	
000112	45A0	C85C		0085C		106	BAL R10,PRT0000 PRINT TRACE DATA 00620000	
						107 *	----- *	00630000
						108 *	CHASE ESD CHAIN *	00640000
						109 *	----- *	00650000
000116	BF3F	B0F8		000F8		110	DEBUG0020 ICM R3,15,COMMESD FIRST ESD ENTRY 00660000	
				00000		111	USING ESDDATA,R3 DEFINE BASE 00670000	
00011A	4780	C1A4		001A4		112	BZ DEBUG0040 NO ESD ENTRIES 00680000	
00011E	92F0	C8FD		008FD		113	MVI OUTCC,C'0' DOUBLE SPACE GP99138 00690000	
000122	D260	C8FE	CA04	008FE	00A04	114	DEBUG0030 MVC OUTDATA(PRES DL),PRES COPY ESD DATA TO PRINT AREA 00700000	
						115	SHEX OUTDATA+PRESDBA-PRES,(R3),4 ESD ADDRESS GP10085 00710000	
000128	5030	B000		00000		116+	ST R3,COMMDWRD GP10081 00170000	
00012C	F384	C8FE	B000	008FE	00000	117+	UNPK OUTDATA+PRESDBA-PRES(2*4+1),COMMDWRD+4-4(4+1) GP10081 00180000	
000132	DC07	C8FE	B185	008FE	00185	118+	TR OUTDATA+PRESDBA-PRES(2*4),COMMHXTR GP10081 00190000	
000138	9240	C906		00906		119+	MVI OUTDATA+PRESDBA-PRES+2*4,C' ' GP10065 00210000	
						120	SHEX OUTDATA+PRES DNXT-PRES,ESD NEXT LINK GP10085 00720000	
00013C	F384	C911	3000	00911	00000	121+	UNPK OUTDATA+PRES DNXT-PRES(2*L'ESD NEXT+1),ESD NEXT(L'ESD NEXT+X00310000 GP10065	
						+	1)	
000142	DC07	C911	B185	00911	00185	122+	TR OUTDATA+PRES DNXT-PRES(2*L'ESD NEXT),COMMHXTR GP10081 00320000	
000148	9240	C919		00919		123+	MVI OUTDATA+PRES DNXT-PRES+2*L'ESD NEXT,C' ' GP10065 00340000	
00014C	D607	C920	300E	00920	0000E	124	OC OUTDATA+PRES DN M-PRES(L'ESD NAME),ESD NAME GP10085 00730000	
						125	SHEX OUTDATA+PRES DTYP-PRES,ESD TYPE TYPE (SD,LD,) GP10085 00740000	
000152	F321	C92F	3016	0092F	00016	126+	UNPK OUTDATA+PRES DTYP-PRES(2*L'ESD TYPE+1),ESD TYPE(L'ESD TYPE+X00310000 GP10065	
						+	1)	
000158	DC01	C92F	B185	0092F	00185	127+	TR OUTDATA+PRES DTYP-PRES(2*L'ESD TYPE),COMMHXTR GP10081 00320000	
00015E	9240	C931		00931		128+	MVI OUTDATA+PRES DTYP-PRES+2*L'ESD TYPE,C' ' GP10065 00340000	
						129	SHEX OUTDATA+PRES DADR-PRES,ESD ADDR ADDRESS GP10085 00750000	
000162	F363	C93B	3017	0093B	00017	130+	UNPK OUTDATA+PRES DADR-PRES(2*L'ESD ADDR+1),ESD ADDR(L'ESD ADDR+X00310000 GP10065	
						+	1)	
000168	DC05	C93B	B185	0093B	00185	131+	TR OUTDATA+PRES DADR-PRES(2*L'ESD ADDR),COMMHXTR GP10081 00320000	
00016E	9240	C941		00941		132+	MVI OUTDATA+PRES DADR-PRES+2*L'ESD ADDR,C' ' GP10065 00340000	
						133	SHEX OUTDATA+PRES DSEG-PRES,ESD SEG SEGMENT ID GP10085 00760000	
000172	F321	C94C	301A	0094C	0001A	134+	UNPK OUTDATA+PRES DSEG-PRES(2*L'ESD SEG+1),ESD SEG(L'ESD SEG+1) X00310000 GP10065	
						+		
000178	DC01	C94C	B185	0094C	00185	135+	TR OUTDATA+PRES DSEG-PRES(2*L'ESD SEG),COMMHXTR GP10081 00320000	
00017E	9240	C94E		0094E		136+	MVI OUTDATA+PRES DSEG-PRES+2*L'ESD SEG,C' ' GP10065 00340000	
000182	D203	C8ED	301B	008ED	0001B	137	MVC WORKX,ESDLEN COPY TO WORK AREA 00770000	
						138	SHEX OUTDATA+PRES DLEN-PRES,WORKX LENGTH GP10085 00780000	
000188	F384	C957	C8ED	00957	008ED	139+	UNPK OUTDATA+PRES DLEN-PRES(2*L'WORKX+1),WORKX(L'WORKX+1) GP1X00310000	
						+	0065	
00018E	DC07	C957	B185	00957	00185	140+	TR OUTDATA+PRES DLEN-PRES(2*L'WORKX),COMMHXTR GP10081 00320000	
000194	9240	C95F		0095F		141+	MVI OUTDATA+PRES DLEN-PRES+2*L'WORKX,C' ' GP10065 00340000	
000198	45A0	C85C		0085C		142	BAL R10,PRT0000 PRINT ESD DATA 00790000	
00019C	BF3F	3000		00000		143	ICM R3,15,ESD NEXT NEXT ESD BLOCK 00800000	
0001A0	4770	C122		00122		144	BNZ DEBUG0030 LOOP 00810000	
						145 *	----- *	00820000
						146 *	CHASE RLD CHAIN *	00830000
						147 *	----- *	00840000
0001A4	BF3F	B0FC		000FC		148	DEBUG0040 ICM R3,15,COMMRD FIRST RLD ENTRY 00850000	
				00000		149	USING RLDDATA,R3 DEFINE BASE 00860000	
0001A8	4780	C24C		0024C		150	BZ DEBUGVERS NO RLD ENTRIES GP10085 00870000	
0001AC	92F0	C8FD		008FD		151	MVI OUTCC,C'0' DOUBLE SPACE GP99138 00880000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001B0	D272	C8FE	CA65	008FE	00A65	152	DEBUG0050 MVC	OUTDATA(PRRLDL),PRRLD MOVE RLD DATA GP99138 00890000
					153		SHEX	OUTDATA+PRRLDBA-PRRLD,(R3),4 RLD ADDRESS GP10085 00900000
0001B6	5030	B000		00000	154+		ST	R3,COMMDWRD GP10081 00170000
0001BA	F384	C8FE	B000	008FE	00000	155+	UNPK	OUTDATA+PRRLDBA-PRRLD(2*4+1),COMMDWRD+4-4(4+1) GP10081 00180000
0001C0	DC07	C8FE	B185	008FE	00185	156+	TR	OUTDATA+PRRLDBA-PRRLD(2*4),COMMHXTR GP10081 00190000
0001C6	9240	C906		00906	157+		MVI	OUTDATA+PRRLDBA-PRRLD+2*4,C' ' GP10065 00210000
					158		SHEX	OUTDATA+PRRLDNXT-PRRLD,RLDNEXT LINK GP10085 00910000
0001CA	F384	C911	3000	00911	00000	159+	UNPK	OUTDATA+PRRLDNXT-PRRLD(2*L'RLDNEXT+1),RLDNEXT(L'RLDNEXT+X00310000 GP10065
					+			1)
0001D0	DC07	C911	B185	00911	00185	160+	TR	OUTDATA+PRRLDNXT-PRRLD(2*L'RLDNEXT),COMMHXTR GP10081 00320000
0001D6	9240	C919		00919	161+		MVI	OUTDATA+PRRLDNXT-PRRLD+2*L'RLDNEXT,C' ' GP10065 00340000
					162		SHEX	OUTDATA+PRRLDDSP-PRRLD,RLDDISP OFFSET GP10085 00920000
0001DA	F384	C920	3010	00920	00010	163+	UNPK	OUTDATA+PRRLDDSP-PRRLD(2*L'RLDDISP+1),RLDDISP(L'RLDDISP+X00310000 GP10065
					+			1)
0001E0	DC07	C920	B185	00920	00185	164+	TR	OUTDATA+PRRLDDSP-PRRLD(2*L'RLDDISP),COMMHXTR GP10081 00320000
0001E6	9240	C928		00928	165+		MVI	OUTDATA+PRRLDDSP-PRRLD+2*L'RLDDISP,C' ' GP10065 00340000
					166		SHEX	OUTDATA+PRRLDTYP-PRRLD,RLDTYPE TYPE GP10085 00930000
0001EA	F321	C92F	3016	0092F	00016	167+	UNPK	OUTDATA+PRRLDTYP-PRRLD(2*L'RLDTYPE+1),RLDTYPE(L'RLDTYPE+X00310000 GP10065
					+			1)
0001F0	DC01	C92F	B185	0092F	00185	168+	TR	OUTDATA+PRRLDTYP-PRRLD(2*L'RLDTYPE),COMMHXTR GP10081 00320000
0001F6	9240	C931		00931	169+		MVI	OUTDATA+PRRLDTYP-PRRLD+2*L'RLDTYPE,C' ' GP10065 00340000
					170		SHEX	OUTDATA+PRRLDLN-PRRLD,RLDLN LENGTH GP10085 00940000
0001FA	F342	C93A	3014	0093A	00014	171+	UNPK	OUTDATA+PRRLDLN-PRRLD(2*L'RLDLN+1),RLDLN(L'RLDLN+1) X00310000 GP10065
					+			
000200	DC03	C93A	B185	0093A	00185	172+	TR	OUTDATA+PRRLDLN-PRRLD(2*L'RLDLN),COMMHXTR GP10081 00320000
000206	9240	C93E		0093E	173+		MVI	OUTDATA+PRRLDLN-PRRLD+2*L'RLDLN,C' ' GP10065 00340000
					174		SHEX	OUTDATA+PRRLDPTR-PRRLD,RLDPTR ESD ID GP10085 00950000
00020A	F342	C948	3017	00948	00017	175+	UNPK	OUTDATA+PRRLDPTR-PRRLD(2*L'RLDPTR+1),RLDPTR(L'RLDPTR+1) X00310000 GP10065
					+			
000210	DC03	C948	B185	00948	00185	176+	TR	OUTDATA+PRRLDPTR-PRRLD(2*L'RLDPTR),COMMHXTR GP10081 00320000
000216	9240	C94C		0094C	177+		MVI	OUTDATA+PRRLDPTR-PRRLD+2*L'RLDPTR,C' ' GP10065 00340000
					178		SHEX	OUTDATA+PRRLDPP-PRRLD,RLDPP REF ID GP10085 00960000
00021A	F342	C957	3019	00957	00019	179+	UNPK	OUTDATA+PRRLDPP-PRRLD(2*L'RLDPP+1),RLDPP(L'RLDPP+1) GP10X00310000
					+			065
000220	DC03	C957	B185	00957	00185	180+	TR	OUTDATA+PRRLDPP-PRRLD(2*L'RLDPP),COMMHXTR GP10081 00320000
000226	9240	C95B		0095B	181+		MVI	OUTDATA+PRRLDPP-PRRLD+2*L'RLDPP,C' ' GP10065 00340000
00022A	D200	C961	301B	00961	0001B	182	MVC	OUTDATA+PRRLDDIR-PRRLD(L'RLDDIR),RLDDIR +/- GP10085 00970000
					183		SHEX	OUTDATA+PRRLDESD-PRRLD,RLDESD ESD BLOCK GP10085 00980000
000230	F384	C968	300C	00968	0000C	184+	UNPK	OUTDATA+PRRLDESD-PRRLD(2*L'RLDESD+1),RLDESD(L'RLDESD+1) X00310000 GP10065
					+			
000236	DC07	C968	B185	00968	00185	185+	TR	OUTDATA+PRRLDESD-PRRLD(2*L'RLDESD),COMMHXTR GP10081 00320000
00023C	9240	C970		00970	186+		MVI	OUTDATA+PRRLDESD-PRRLD+2*L'RLDESD,C' ' GP10065 00340000
000240	45A0	C85C		0085C	187		BAL	R10,PRT0000 PRINT RLD DATA 00990000
000244	BF3F	3000		00000	188		ICM	R3,15,RLDNEXT NEXT RLD BLOCK 01000000
000248	4770	C1B0		001B0	189		BNZ	DEBUG0050 LOOP 01010000
					190	*	-----	* 01020000
					191	*	CHASE VERIFY CHAIN	* 01030000
					192	*	-----	* 01040000
00024C	BF3F	B138		00138	193	DEBUGVERS	ICM R3,15,COMMVERS FIRST VERIFY GP10085 01050000	
				00000	194		USING	VERPSECT,R3 DEFINE BASE GP10085 01060000
000250	4780	C33E		0033E	195		BZ	DEBUGREPS NO VERIFY ENRIES GP10085 01070000
000254	92F0	C8FD		008FD	196		MVI	OUTCC,C'0' DOUBLE SPACE GP99138 01080000
000258	D26A	C8FE	CAD8	008FE	00AD8	197	DEBUGVERL	MVC OUTDATA(PRVERPL),PRVERP VERIFY HEADER GP10085 01090000
00025E	4100	0001		00001	198		LA	R0,1 ADDEND GP10085 01100000
000262	5A00	3008		00008	199		A	R0,VERPLEN MAKE TRUE LENGTH GP10085 01110000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
					200	SHEX	OUTDATA+PRVERBA-PRVERP,(R0),4	VER ADDRESS	GP10085	01120000	
000266	5000	B000	00000		201+	ST	RO,COMMDWRD		GP10081	00170000	
00026A	F384	C8FF	B000	008FF	00000	202+	UNPK	OUTDATA+PRVERBA-PRVERP(2*4+1),COMMDWRD+4-4(4+1)	GP10081	00180000	
000270	DC07	C8FF	B185	008FF	00185	203+	TR	OUTDATA+PRVERBA-PRVERP(2*4),COMMHXTR	GP10081	00190000	
000276	9240	C907		00907	204+	MVI	OUTDATA+PRVERBA-PRVERP+2*4,C' '		GP10065	00210000	
					205	SHEX	OUTDATA+PRVERNXT-PRVERP,VERPNEXT LINK		GP10085	01130000	
00027A	F384	C908	3000	00908	00000	206+	UNPK	OUTDATA+PRVERNXT-PRVERP(2*L'VERPNEXT+1),VERPNEXT(L'VERPNX00310000	GP10065		
					+		EXT+1)		GP10081	00320000	
000280	DC07	C908	B185	00908	00185	207+	TR	OUTDATA+PRVERNXT-PRVERP(2*L'VERPNEXT),COMMHXTR	GP10065	00340000	
000286	9240	C910		00910	208+	MVI	OUTDATA+PRVERNXT-PRVERP+2*L'VERPNEXT,C' '		GP10085	01140000	
					209	SHEX	OUTDATA+PRVEROFF-PRVERP,VERPOFFS OFFSET		GP10065	00310000	
00028A	F384	C91C	3004	0091C	00004	210+	UNPK	OUTDATA+PRVEROFF-PRVERP(2*L'VERPOFFS+1),VERPOFFS(L'VERPOX00310000	GP10065		
					+		FFS+1)		GP10081	00320000	
000290	DC07	C91C	B185	0091C	00185	211+	TR	OUTDATA+PRVEROFF-PRVERP(2*L'VERPOFFS),COMMHXTR	GP10065	00340000	
000296	9240	C924		00924	212+	MVI	OUTDATA+PRVEROFF-PRVERP+2*L'VERPOFFS,C' '		GP10085	01150000	
					213	SHEX	OUTDATA+PRVERLEN-PRVERP,VERPLEN LENGTH-1		GP10065	00310000	
00029A	F384	C928	3008	00928	00008	214+	UNPK	OUTDATA+PRVERLEN-PRVERP(2*L'VERPLEN+1),VERPLEN(L'VERPLENX00310000	GP10065		
					+		+1)		GP10081	00320000	
0002A0	DC07	C928	B185	00928	00185	215+	TR	OUTDATA+PRVERLEN-PRVERP(2*L'VERPLEN),COMMHXTR	GP10065	00340000	
0002A6	9240	C930		00930	216+	MVI	OUTDATA+PRVERLEN-PRVERP+2*L'VERPLEN,C' '		GP10085	01160000	
					217	SHEX	OUTDATA+PRVERTXT-PRVERP,VERPTEXT,4		GP10065	00240000	
0002AA	F384	C933	300C	00933	0000C	218+	UNPK	OUTDATA+PRVERTXT-PRVERP(2*4+1),VERPTEXT(4+1)	GP10081	00250000	
0002B0	DC07	C933	B185	00933	00185	219+	TR	OUTDATA+PRVERTXT-PRVERP(2*4),COMMHXTR	GP10065	00270000	
0002B6	9240	C93B		0093B	220+	MVI	OUTDATA+PRVERTXT-PRVERP+2*4,C' '		GP10085	01170000	
0002BA	4B00	B158		00158	221	SH	RO,COMMH4		GP10085	01180000	
0002BE	47D0	C332		00332	222	BNP	DEBUGVERU		GP10085	01190000	
					223	SHEX	OUTDATA+PRVERTX2-PRVERP,VERPTEXT+4,4		GP10065	00240000	
0002C2	F384	C93C	3010	0093C	00010	224+	UNPK	OUTDATA+PRVERTX2-PRVERP(2*4+1),VERPTEXT+4(4+1)	GP10081	00250000	
0002C8	DC07	C93C	B185	0093C	00185	225+	TR	OUTDATA+PRVERTX2-PRVERP(2*4),COMMHXTR	GP10065	00270000	
0002CE	9240	C944		00944	226+	MVI	OUTDATA+PRVERTX2-PRVERP+2*4,C' '		GP10085	01200000	
0002D2	4B00	B158		00158	227	SH	RO,COMMH4		GP10085	01210000	
0002D6	47D0	C332		00332	228	BNP	DEBUGVERU		GP10085	01220000	
					229	SHEX	OUTDATA+PRVERTX3-PRVERP,VERPTEXT+8,4		GP10065	00240000	
0002DA	F384	C945	3014	00945	00014	230+	UNPK	OUTDATA+PRVERTX3-PRVERP(2*4+1),VERPTEXT+8(4+1)	GP10081	00250000	
0002E0	DC07	C945	B185	00945	00185	231+	TR	OUTDATA+PRVERTX3-PRVERP(2*4),COMMHXTR	GP10065	00270000	
0002E6	9240	C94D		0094D	232+	MVI	OUTDATA+PRVERTX3-PRVERP+2*4,C' '		GP10085	01230000	
0002EA	4B00	B158		00158	233	SH	RO,COMMH4		GP10085	01240000	
0002EE	47D0	C332		00332	234	BNP	DEBUGVERU		GP10085	01250000	
					235	SHEX	OUTDATA+PRVERTX4-PRVERP,VERPTEXT+12,4		GP10065	00240000	
0002F2	F384	C94E	3018	0094E	00018	236+	UNPK	OUTDATA+PRVERTX4-PRVERP(2*4+1),VERPTEXT+12(4+1)	GP10081	00250000	
0002F8	DC07	C94E	B185	0094E	00185	237+	TR	OUTDATA+PRVERTX4-PRVERP(2*4),COMMHXTR	GP10065	00270000	
0002FE	9240	C956		00956	238+	MVI	OUTDATA+PRVERTX4-PRVERP+2*4,C' '		GP10085	01260000	
000302	4B00	B158		00158	239	SH	RO,COMMH4		GP10085	01270000	
000306	47D0	C332		00332	240	BNP	DEBUGVERU		GP10085	01280000	
					241	SHEX	OUTDATA+PRVERTX5-PRVERP,VERPTEXT+16,4		GP10065	00240000	
00030A	F384	C957	301C	00957	0001C	242+	UNPK	OUTDATA+PRVERTX5-PRVERP(2*4+1),VERPTEXT+16(4+1)	GP10081	00250000	
000310	DC07	C957	B185	00957	00185	243+	TR	OUTDATA+PRVERTX5-PRVERP(2*4),COMMHXTR	GP10065	00270000	
000316	9240	C95F		0095F	244+	MVI	OUTDATA+PRVERTX5-PRVERP+2*4,C' '		GP10085	01290000	
00031A	4B00	B158		00158	245	SH	RO,COMMH4		GP10085	01300000	
00031E	47D0	C332		00332	246	BNP	DEBUGVERU		GP10085	01310000	
					247	SHEX	OUTDATA+PRVERTX6-PRVERP,VERPTEXT+20,4		GP10065	00240000	
000322	F384	C960	3020	00960	00020	248+	UNPK	OUTDATA+PRVERTX6-PRVERP(2*4+1),VERPTEXT+20(4+1)	GP10081	00250000	
000328	DC07	C960	B185	00960	00185	249+	TR	OUTDATA+PRVERTX6-PRVERP(2*4),COMMHXTR	GP10065	00270000	
00032E	9240	C968		00968	250+	MVI	OUTDATA+PRVERTX6-PRVERP+2*4,C' '		GP10085	01320000	
000332	45A0	C85C		0085C	251	DEBUGVERU	BAL R10,PRT0000 PRINT VER DATA		GP10085		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
000336	BF3F	3000	00000		252	ICM	R3,15,VERPNEXT	NEXT VER BLOCK	GP10085	01330000	
00033A	4770	C258	00258		253	BNZ	DEBUGVERL	LOOP		01340000	
					254	*	-----	-----	*	01350000	
					255	*	CHASE REPLACE CHAIN		*	01360000	
					256	*	-----	-----	*	01370000	
00033E	BF3F	B13C	0013C		257	DEBUGREPS	ICM R3,15,COMMREPS	FIRST REPLACE	GP10085	01380000	
			00000		258		USING VERPSECT,R3	DEFINE BASE	GP10085	01390000	
000342	4780	C436	00436		259	BZ	DEBUG0060	NO REPLACES	GP10085	01400000	
000346	92F0	C8FD	008FD		260	MVI	OUTCC,C'0'	DOUBLE SPACE	GP99138	01410000	
00034A	D26A	C8FE	CAD8	008FE	00AD8	261	DEBUGREPL	MVC OUTDATA(PRVERPL),PRVERP	VERIFY HEADER	GP10085	01420000
000350	D206	C912	CE2E	00912	00E2E	262		MVC OUTDATA+PRVERB-PRVERP(L'PRVERB),=C'REPLACE'		GP10085	01430000
000356	4100	0001	00001		263	LA	RO,1	ADDEND	GP10085	01440000	
00035A	5A00	3008	00008		264	A	RO,VERPLEN	MAKE TRUE LENGTH	GP10085	01450000	
					265	SHEX	OUTDATA+PRVERBA-PRVERP,(RO),4	REP ADDRESS	GP10085	01460000	
00035E	5000	B000	00000		266+	ST	RO,COMMDWRD		GP10081	00170000	
000362	F384	C8FF	B000	008FF	00000	267+	UNPK	OUTDATA+PRVERBA-PRVERP(2*4+1),COMMDWRD+4-4(4+1)	GP10081	00180000	
000368	DC07	C8FF	B185	008FF	00185	268+	TR	OUTDATA+PRVERBA-PRVERP(2*4),COMMHXTR	GP10081	00190000	
00036E	9240	C907	00907		269+	MVI	OUTDATA+PRVERBA-PRVERP+2*4,C' '		GP10065	00210000	
					270	SHEX	OUTDATA+PRVERNXT-PRVERP,VERPNEXT	LINK	GP10085	01470000	
000372	F384	C908	3000	00908	00000	271+	UNPK	OUTDATA+PRVERNXT-PRVERP(2*L'VERPNEXT+1),VERPNEXT(L'VERPNX00310000	GP10065		
					+		EXT+1)				
000378	DC07	C908	B185	00908	00185	272+	TR	OUTDATA+PRVERNXT-PRVERP(2*L'VERPNEXT),COMMHXTR	GP10081	00320000	
00037E	9240	C910	00910		273+	MVI	OUTDATA+PRVERNXT-PRVERP+2*L'VERPNEXT,C' '		GP10065	00340000	
					274	SHEX	OUTDATA+PRVEROFF-PRVERP,VERPOFFS	OFFSET	GP10085	01480000	
000382	F384	C91C	3004	0091C	00004	275+	UNPK	OUTDATA+PRVEROFF-PRVERP(2*L'VERPOFFS+1),VERPOFFS(L'VERPOX00310000	GP10065		
					+		FFS+1)				
000388	DC07	C91C	B185	0091C	00185	276+	TR	OUTDATA+PRVEROFF-PRVERP(2*L'VERPOFFS),COMMHXTR	GP10081	00320000	
00038E	9240	C924	00924		277+	MVI	OUTDATA+PRVEROFF-PRVERP+2*L'VERPOFFS,C' '		GP10065	00340000	
					278	SHEX	OUTDATA+PRVERLEN-PRVERP,VERPLEN	LENGTH-1	GP10085	01490000	
000392	F384	C928	3008	00928	00008	279+	UNPK	OUTDATA+PRVERLEN-PRVERP(2*L'VERPLEN+1),VERPLEN(L'VERPLENX00310000	GP10065		
					+		+1)				
000398	DC07	C928	B185	00928	00185	280+	TR	OUTDATA+PRVERLEN-PRVERP(2*L'VERPLEN),COMMHXTR	GP10081	00320000	
00039E	9240	C930	00930		281+	MVI	OUTDATA+PRVERLEN-PRVERP+2*L'VERPLEN,C' '		GP10065	00340000	
					282	SHEX	OUTDATA+PRVERTXT-PRVERP,VERPTEXT,4		GP10085	01500000	
0003A2	F384	C933	300C	00933	0000C	283+	UNPK	OUTDATA+PRVERTXT-PRVERP(2*4+1),VERPTEXT(4+1)	GP10065	00240000	
0003A8	DC07	C933	B185	00933	00185	284+	TR	OUTDATA+PRVERTXT-PRVERP(2*4),COMMHXTR	GP10081	00250000	
0003AE	9240	C93B	0093B		285+	MVI	OUTDATA+PRVERTXT-PRVERP+2*4,C' '		GP10065	00270000	
0003B2	4B00	B158	00158		286	SH	RO,COMMH4		GP10085	01510000	
0003B6	47D0	C42A	0042A		287	BNP	DEBUGREPU		GP10085	01520000	
					288	SHEX	OUTDATA+PRVERTX2-PRVERP,VERPTEXT+4,4		GP10085	01530000	
0003BA	F384	C93C	3010	0093C	00010	289+	UNPK	OUTDATA+PRVERTX2-PRVERP(2*4+1),VERPTEXT+4(4+1)	GP10065	00240000	
0003C0	DC07	C93C	B185	0093C	00185	290+	TR	OUTDATA+PRVERTX2-PRVERP(2*4),COMMHXTR	GP10081	00250000	
0003C6	9240	C944	00944		291+	MVI	OUTDATA+PRVERTX2-PRVERP+2*4,C' '		GP10065	00270000	
0003CA	4B00	B158	00158		292	SH	RO,COMMH4		GP10085	01540000	
0003CE	47D0	C42A	0042A		293	BNP	DEBUGREPU		GP10085	01550000	
					294	SHEX	OUTDATA+PRVERTX3-PRVERP,VERPTEXT+8,4		GP10085	01560000	
0003D2	F384	C945	3014	00945	00014	295+	UNPK	OUTDATA+PRVERTX3-PRVERP(2*4+1),VERPTEXT+8(4+1)	GP10065	00240000	
0003D8	DC07	C945	B185	00945	00185	296+	TR	OUTDATA+PRVERTX3-PRVERP(2*4),COMMHXTR	GP10081	00250000	
0003DE	9240	C94D	0094D		297+	MVI	OUTDATA+PRVERTX3-PRVERP+2*4,C' '		GP10065	00270000	
0003E2	4B00	B158	00158		298	SH	RO,COMMH4		GP10085	01570000	
0003E6	47D0	C42A	0042A		299	BNP	DEBUGREPU		GP10085	01580000	
					300	SHEX	OUTDATA+PRVERTX4-PRVERP,VERPTEXT+12,4		GP10085	01590000	
0003EA	F384	C94E	3018	0094E	00018	301+	UNPK	OUTDATA+PRVERTX4-PRVERP(2*4+1),VERPTEXT+12(4+1)	GP10065	00240000	
0003F0	DC07	C94E	B185	0094E	00185	302+	TR	OUTDATA+PRVERTX4-PRVERP(2*4),COMMHXTR	GP10081	00250000	
0003F6	9240	C956	00956		303+	MVI	OUTDATA+PRVERTX4-PRVERP+2*4,C' '		GP10065	00270000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
0003FA	4B00	B158	00158		304	SH	R0,COMM4		GP10085	01600000	
0003FE	47D0	C42A	0042A		305	BNP	DEBUGREPU		GP10085	01610000	
					306	SHEX	OUTDATA+PRVERTX5-PRVERP,VERPTEXT+16,4		GP10085	01620000	
000402	F384	C957	301C	00957	0001C	307+	UNPK	OUTDATA+PRVERTX5-PRVERP(2*4+1),VERPTEXT+16(4+1)	GP10065	00240000	
000408	DC07	C957	B185	00957	00185	308+	TR	OUTDATA+PRVERTX5-PRVERP(2*4),COMM4XTR	GP10081	00250000	
00040E	9240	C95F		0095F		309+	MVI	OUTDATA+PRVERTX5-PRVERP+2*4,C' '	GP10065	00270000	
000412	4B00	B158	00158		310	SH	R0,COMM4		GP10085	01630000	
000416	47D0	C42A	0042A		311	BNP	DEBUGREPU		GP10085	01640000	
					312	SHEX	OUTDATA+PRVERTX6-PRVERP,VERPTEXT+20,4		GP10085	01650000	
00041A	F384	C960	3020	00960	00020	313+	UNPK	OUTDATA+PRVERTX6-PRVERP(2*4+1),VERPTEXT+20(4+1)	GP10065	00240000	
000420	DC07	C960	B185	00960	00185	314+	TR	OUTDATA+PRVERTX6-PRVERP(2*4),COMM4XTR	GP10081	00250000	
000426	9240	C968		00968		315+	MVI	OUTDATA+PRVERTX6-PRVERP+2*4,C' '	GP10065	00270000	
00042A	45A0	C85C		0085C		316	DEBUGREPU BAL	R10,PRT0000 PRINT VER DATA	GP10085	01660000	
00042E	BF3F	3000		00000		317	ICM	R3,15,VERPNEXT NEXT VER BLOCK	GP10085	01670000	
000432	4770	C34A	0034A		318	BNZ	DEBUGREPL	LOOP		01680000	
					319	*	-----	-----	*	01690000	
					320	*	CHASE USING CHAIN		*	01700000	
					321	*	-----	-----	*	01710000	
000436	BF3F	B100	00100		322	DEBUG0060	ICM R3,15,COMMUSNG	FIRST USING ENTRY		01720000	
				00000	323		USING	USNGDSCT,R3	DEFINE BASE	01730000	
00043A	4780	C4D6		004D6		324	BZ	DEBUG0080	NO USING ENTRIES	01740000	
00043E	92F0	C8FD		008FD		325	MVI	OUTCC,C'0'	DOUBLE SPACE	GP99138	01750000
000442	D274	C8FE	CB43	008FE	00B43	326	DEBUG0070	MVC	OUTDATA(PRUSNGL),PRUSNG	GP99138	01760000
					327		SHEX	OUTDATA+PRUSGBA-PRUSNG,(R3),4	RLD ADDRESS	GP10085	01770000
000448	5030	B000		00000		328+	ST	R3,COMMDWRD		GP10081	00170000
00044C	F384	C8FE	B000	008FE	00000	329+	UNPK	OUTDATA+PRUSGBA-PRUSNG(2*4+1),COMMDWRD+4-4(4+1)	GP10081	00180000	
000452	DC07	C8FE	B185	008FE	00185	330+	TR	OUTDATA+PRUSGBA-PRUSNG(2*4),COMM4XTR	GP10081	00190000	
000458	9240	C906		00906		331+	MVI	OUTDATA+PRUSGBA-PRUSNG+2*4,C' '	GP10065	00210000	
					332		SHEX	OUTDATA+PRUSGNXT-PRUSNG,USNGNEXT LINK	GP10085	01780000	
00045C	F384	C90D	3000	0090D	00000	333+	UNPK	OUTDATA+PRUSGNXT-PRUSNG(2*L'USNGNEXT+1),USNGNEXT(L'USNGNX00310000	GP10065	00320000	
					+			EXT+1)			
000462	DC07	C90D	B185	0090D	00185	334+	TR	OUTDATA+PRUSGNXT-PRUSNG(2*L'USNGNEXT),COMM4XTR	GP10081	00320000	
000468	9240	C915		00915		335+	MVI	OUTDATA+PRUSGNXT-PRUSNG+2*L'USNGNEXT,C' '	GP10065	00340000	
00046C	D207	C91D	300C	0091D	0000C	336	MVC	OUTDATA+PRUSGNME-PRUSNG(L'USNGDSNM),USNGDSNM	GP10085	01790000	
000472	D207	C92D	3014	0092D	00014	337	MVC	OUTDATA+PRUSGLBL-PRUSNG(L'USNGLBNM),USNGLBNM	GP10085	01800000	
000478	D200	C93C	3030	0093C	00030	338	MVC	OUTDATA+PRUSGBSE-PRUSNG(L'USNGBASE),USNGBASE	GP10085	01810000	
00047E	DC00	C93C	B275	0093C	00275	339	TR	OUTDATA+PRUSGBSE-PRUSNG(L'USNGBASE),COMM4XCH	GP10085	01820000	
					340		SHEX	OUTDATA+PRUSGFLG-PRUSNG,USNGFLAG	FLAGS	GP10085	01830000
000484	F321	C945	3031	00945	00031	341+	UNPK	OUTDATA+PRUSGFLG-PRUSNG(2*L'USNGFLAG+1),USNGFLAG(L'USNGFX00310000	GP10065	00320000	
					+			LAG+1)			
00048A	DC01	C945	B185	00945	00185	342+	TR	OUTDATA+PRUSGFLG-PRUSNG(2*L'USNGFLAG),COMM4XTR	GP10081	00320000	
000490	9240	C947		00947		343+	MVI	OUTDATA+PRUSGFLG-PRUSNG+2*L'USNGFLAG,C' '	GP10065	00340000	
					344		SHEX	OUTDATA+PRUSGDSP-PRUSNG,USNGDISP	GP10085	01840000	
000494	F384	C94E	3024	0094E	00024	345+	UNPK	OUTDATA+PRUSGDSP-PRUSNG(2*L'USNGDISP+1),USNGDISP(L'USNGDX00310000	GP10065	00320000	
					+			ISP+1)			
00049A	DC07	C94E	B185	0094E	00185	346+	TR	OUTDATA+PRUSGDSP-PRUSNG(2*L'USNGDISP),COMM4XTR	GP10081	00320000	
0004A0	9240	C956		00956		347+	MVI	OUTDATA+PRUSGDSP-PRUSNG+2*L'USNGDISP,C' '	GP10065	00340000	
					348		SHEX	OUTDATA+PRUSGBGN-PRUSNG,USNGBEGN,FILL=C' -'	GP10085	01850000	
0004A4	F384	C961	3028	00961	00028	349+	UNPK	OUTDATA+PRUSGBGN-PRUSNG(2*L'USNGBEGN+1),USNGBEGN(L'USNGBX00310000	GP10065	00320000	
					+			EGN+1)			
0004AA	DC07	C961	B185	00961	00185	350+	TR	OUTDATA+PRUSGBGN-PRUSNG(2*L'USNGBEGN),COMM4XTR	GP10081	00320000	
0004B0	9260	C969		00969		351+	MVI	OUTDATA+PRUSGBGN-PRUSNG+2*L'USNGBEGN,C' -'	GP10065	00340000	
0004B4	D203	C8ED	302C	008ED	0002C	352	MVC	WORKX,USNGEND	COPY TO WORK FIELD		01860000
					353		SHEX	OUTDATA+PRUSGEND-PRUSNG,WORKX	END ADDR	GP10085	01870000
0004BA	F384	C96A	C8ED	0096A	008ED	354+	UNPK	OUTDATA+PRUSGEND-PRUSNG(2*L'WORKX+1),WORKX(L'WORKX+1)	GPX00310000		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
						+	10065				
0004C0	DC07	C96A	B185	0096A	00185	355+	TR	OUTDATA+PRUSGEND-PRUSNG(2*L'WORKX),	COMMHXTR	GP10081	00320000
0004C6	9240	C972		00972		356+	MVI	OUTDATA+PRUSGEND-PRUSNG+2*L'WORKX,C' '		GP10065	00340000
0004CA	45A0	C85C		0085C		357	BAL	R10,PRT0000	PRINT USING DATA		01880000
0004CE	BF3F	3000		00000		358	ICM	R3,15,USNGNEXT	NEXT USING BLOCK		01890000
0004D2	4770	C442		00442		359	BNZ	DEBUG0070	LOOP		01900000
						360 *	-----				* 01910000
						361 *	CHASE DSECT CHAIN				* 01920000
						362 *	-----				* 01930000
0004D6	BF3F	B104		00104		363	DEBUG0080	ICM	R3,15,COMMDSCT	FIRST DSECT ENTRY	01940000
						364		USING	DSCTDSCT,R3	DEFINE BASE	01950000
0004DA	4780	C540		00540		365		BZ	DEBUG0110	NO DSECT ENTRIES	01960000
0004DE	92F0	C8FD		008FD		366		MVI	OUTCC,C'0'	DOUBLE SPACE	GP99138 01970000
0004E2	D240	C8FE	CBB8	008FE	00BB8	367	DEBUG0090	MVC	OUTDATA(PRDSCTL),PRDSCT		GP99138 01980000
						368		SHEX	OUTDATA+PRDSBA-PRDSCT,(R3),4	DSB ADDRESS	GP10085 01990000
0004E8	5030	B000		00000		369+		ST	R3,COMMDWRD		GP10081 00170000
0004EC	F384	C8FE	B000	008FE	00000	370+		UNPK	OUTDATA+PRDSBA-PRDSCT(2*4+1),COMMDWRD+4-4(4+1)		GP10081 00180000
0004F2	DC07	C8FE	B185	008FE	00185	371+		TR	OUTDATA+PRDSBA-PRDSCT(2*4),COMMHXTR		GP10081 00190000
0004F8	9240	C906		00906		372+		MVI	OUTDATA+PRDSBA-PRDSCT+2*4,C' '		GP10065 00210000
						373		SHEX	OUTDATA+PRDSNXT-PRDSCT,DSCTNEXT	LINK	GP10085 02000000
0004FC	F384	C90D	3000	0090D	00000	374+		UNPK	OUTDATA+PRDSNXT-PRDSCT(2*L'DSCTNEXT+1),DSCTNEXT(L'DSCTNEX	00310000	GP10065
						+			XT+1)		GP10081 00320000
000502	DC07	C90D	B185	0090D	00185	375+		TR	OUTDATA+PRDSNXT-PRDSCT(2*L'DSCTNEXT),COMMHXTR		GP10065 00340000
000508	9240	C915		00915		376+		MVI	OUTDATA+PRDSNXT-PRDSCT+2*L'DSCTNEXT,C' '		GP10085 02010000
00050C	D207	C922	300C	00922	0000C	377		MVC	OUTDATA+PRDSNAME-PRDSCT(L'DSCTNAME),DSCTNAME		GP99136 02020000
000512	D203	C8ED	3014	008ED	00014	378		MVC	WORKX,DSCTLBA	COPY TO AVOID OC4	GP10085 02030000
						379		SHEX	OUTDATA+PRDSLALB-PRDSCT,WORKX	END ADDR	GPX00310000
000518	F384	C936	C8ED	00936	008ED	380+		UNPK	OUTDATA+PRDSLALB-PRDSCT(2*L'WORKX+1),WORKX(L'WORKX+1)		10065
						+					
00051E	DC07	C936	B185	00936	00185	381+		TR	OUTDATA+PRDSLALB-PRDSCT(2*L'WORKX),COMMHXTR	GP10081	00320000
000524	9240	C93E		0093E		382+		MVI	OUTDATA+PRDSLALB-PRDSCT+2*L'WORKX,C' '	GP10065	00340000
000528	45A0	C85C		0085C		383		BAL	R10,PRT0000	PRINT DSECT DATA	02040000
00052C	BF4F	3014		00014		384		ICM	R4,15,DSCTLBA	FIRST LABEL FROM DSECT	02050000
000530	4780	C538		00538		385		BZ	DEBUG0100	NO LABELS	02060000
000534	4580	C746		00746		386		BAL	R8,DEBUG0180	FOLLOW LABEL CHAIN	02070000
000538	BF3F	3000		00000		387	DEBUG0100	ICM	R3,15,DSCTNEXT	NEXT DSECT	02080000
00053C	4770	C4E2		004E2		388		BNZ	DEBUG0090	LOOP	02090000
						389 *	-----				* 02100000
						390 *	CHASE BASE CHAIN				* 02110000
						391 *	-----				* 02120000
000540	BF3F	B108		00108		392	DEBUG0110	ICM	R3,15,COMMBASE	FIRST BASE ENTRY	02130000
						393		USING	BASEDSCT,R3	DEFINE BASE	02140000
000544	4780	C5C8		005C8		394		BZ	DEBUG0130	NO DSECT ENTRIES	02150000
000548	92F0	C8FD		008FD		395		MVI	OUTCC,C'0'	DOUBLE SPACE	GP99138 02160000
00054C	D263	C8FE	CBF9	008FE	00BF9	396	DEBUG0120	MVC	OUTDATA(PRBASEL),PRBASE	NOT NEEDED ?	GP10085 02170000
						397		SHEX	OUTDATA+PRBSEBA-PRBASE,(R3),4	RLD ADDRESS	GP10085 02180000
000552	5030	B000		00000		398+		ST	R3,COMMDWRD		GP10081 00170000
000556	F384	C8FE	B000	008FE	00000	399+		UNPK	OUTDATA+PRBSEBA-PRBASE(2*4+1),COMMDWRD+4-4(4+1)		GP10081 00180000
00055C	DC07	C8FE	B185	008FE	00185	400+		TR	OUTDATA+PRBSEBA-PRBASE(2*4),COMMHXTR		GP10081 00190000
000562	9240	C906		00906		401+		MVI	OUTDATA+PRBSEBA-PRBASE+2*4,C' '		GP10065 00210000
						402		SHEX	OUTDATA+PRBSENXT-PRBASE,BASENEXT	LINK	GP10085 02190000
000566	F384	C90C	3000	0090C	00000	403+		UNPK	OUTDATA+PRBSENXT-PRBASE(2*L'BASENEXT+1),BASENEXT(L'BASENX	00310000	GP10065
						+			EXT+1)		GP10081 00320000
00056C	DC07	C90C	B185	0090C	00185	404+		TR	OUTDATA+PRBSENXT-PRBASE(2*L'BASENEXT),COMMHXTR		GP10065 00340000
000572	9240	C914		00914		405+		MVI	OUTDATA+PRBSENXT-PRBASE+2*L'BASENEXT,C' '		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					406		SHEX OUTDATA+PRBSEBGN-PRBASE,BASEBEGN,FILL=C'-'	GP10085 02200000
000576	F384	C934	300C	00934	0000C	407+	UNPK OUTDATA+PRBSEBGN-PRBASE(2*L'BASEBEGN+1),BASEBEGN(L'BASEBX00310000	GP10065
					+		EGN+1)	GP10065
00057C	DC07	C934	B185	00934	00185	408+	TR OUTDATA+PRBSEBGN-PRBASE(2*L'BASEBEGN),COMMHXTR	GP10081 00320000
000582	9260	C93C		0093C		409+	MVI OUTDATA+PRBSEBGN-PRBASE+2*L'BASEBEGN,C'-'	GP10065 00340000
					410		SHEX OUTDATA+PRBSEEND-PRBASE,BASEEND END RANGE	GP10085 02210000
000586	F384	C93D	3010	0093D	00010	411+	UNPK OUTDATA+PRBSEEND-PRBASE(2*L'BASEEND+1),BASEEND(L'BASEENDX00310000	GP10065
					+		+1)	GP10065
00058C	DC07	C93D	B185	0093D	00185	412+	TR OUTDATA+PRBSEEND-PRBASE(2*L'BASEEND),COMMHXTR	GP10081 00320000
000592	9240	C945		00945		413+	MVI OUTDATA+PRBSEEND-PRBASE+2*L'BASEEND,C' '	GP10065 00340000
					414		SHEX OUTDATA+PRBSEDSP-PRBASE,BASEDISP BASE VALUE	GP10085 02220000
000596	F384	C959	3014	00959	00014	415+	UNPK OUTDATA+PRBSEDSP-PRBASE(2*L'BASEDISP+1),BASEDISP(L'BASEDX00310000	GP10065
					+		ISP+1)	GP10065
00059C	DC07	C959	B185	00959	00185	416+	TR OUTDATA+PRBSEDSP-PRBASE(2*L'BASEDISP),COMMHXTR	GP10081 00320000
0005A2	9240	C961		00961		417+	MVI OUTDATA+PRBSEDSP-PRBASE+2*L'BASEDISP,C' '	GP10065 00340000
					418		SHEX OUTDATA+PRBSEREG-PRBASE,BASEREG REGISTER	GP10085 02230000
0005A6	F321	C91F	3018	0091F	00018	419+	UNPK OUTDATA+PRBSEREG-PRBASE(2*L'BASEREG+1),BASEREG(L'BASEREGX00310000	GP10065
					+		+1)	GP10065
0005AC	DC01	C91F	B185	0091F	00185	420+	TR OUTDATA+PRBSEREG-PRBASE(2*L'BASEREG),COMMHXTR	GP10081 00320000
0005B2	9240	C921		00921		421+	MVI OUTDATA+PRBSEREG-PRBASE+2*L'BASEREG,C' '	GP10065 00340000
0005B6	D201	C91F	C920	0091F	00920	422	MVC OUTDATA+PRBSEREG-PRBASE(2),OUTDATA+PRBSEREG-PRBASE+1	085 02240000
0005BC	45A0	C85C		0085C		423	BAL R10,PRT0000 PRINT BASE DATA	02250000
0005C0	BF3F	3000		00000		424	ICM R3,15,BASENEXT NEXT BASE BLOCK	02260000
0005C4	4770	C54C		0054C		425	BNZ DEBUG0120 LOOP	02270000
					426	*	-----	* 02280000
					427	*	CHASE DATA BLOCK CHAIN	* 02290000
					428	*	-----	* 02300000
0005C8	BF3F	B10C		0010C		429	DEBUG0130 ICM R3,15,COMMDATA FIRST DATA ENTRY	02310000
				00000		430	USING DATADSCT,R3 DEFINE BASE	02320000
0005CC	4780	C69E		0069E		431	BZ DEBUG0150 NO DSECT ENTRIES	02330000
0005D0	92F0	C8FD		008FD		432	MVI OUTCC,C'0' DOUBLE SPACE	GP99138 02340000
0005D4	D277	C8FE	CC5D	008FE	00C5D	433	DEBUG0140 MVC OUTDATA(PRDATA),PRDATA	GP99138 02350000
0005DA	9502	302B		0002B		434	CLI DATATYPE,\$DATADS FILLER ?	GP10085 02360000
0005DE	4770	C5E8		005E8		435	BNE DEBUG0142 NO	GP10085 02370000
0005E2	D203	C907	CE20	00907	00E20	436	MVC OUTDATA+PRDTADC-PRDATA(4),=C'FILL' IDENTIFY	GP10085 02380000
						437	DEBUG0142 SHEX OUTDATA+PRDTABA-PRDATA,(R3),4 RLD ADDRESS	GP10085 02390000
0005E8	5030	B000		00000		438+	DEBUG0142 ST R3,COMMDWRD	GP10081 00170000
0005EC	F384	C8FE	B000	008FE	00000	439+	UNPK OUTDATA+PRDTABA-PRDATA(2*4+1),COMMDWRD+4-4(4+1)	GP10081 00180000
0005F2	DC07	C8FE	B185	008FE	00185	440+	TR OUTDATA+PRDTABA-PRDATA(2*4),COMMHXTR	GP10081 00190000
0005F8	9240	C906		00906		441+	MVI OUTDATA+PRDTABA-PRDATA+2*4,C' '	GP10065 00210000
						442	SHEX OUTDATA+PRDTANXT-PRDATA,DATANEXT LINK	GP10085 02400000
0005FC	F384	C90C	3000	0090C	00000	443+	UNPK OUTDATA+PRDTANXT-PRDATA(2*L'DATANEXT+1),DATANEXT(L'DATANX00310000	GP10065
					+		EXT+1)	GP10065
000602	DC07	C90C	B185	0090C	00185	444+	TR OUTDATA+PRDTANXT-PRDATA(2*L'DATANEXT),COMMHXTR	GP10081 00320000
000608	9240	C914		00914		445+	MVI OUTDATA+PRDTANXT-PRDATA+2*L'DATANEXT,C' '	GP10065 00340000
					446		SHEX OUTDATA+PRDTABGN-PRDATA,DATABEGN,FILL=C'-'	GP10085 02410000
00060C	F384	C91B	301C	0091B	0001C	447+	UNPK OUTDATA+PRDTABGN-PRDATA(2*L'DATABEGN+1),DATABEGN(L'DATABX00310000	GP10065
					+		EGN+1)	GP10065
000612	DC07	C91B	B185	0091B	00185	448+	TR OUTDATA+PRDTABGN-PRDATA(2*L'DATABEGN),COMMHXTR	GP10081 00320000
000618	9260	C923		00923		449+	MVI OUTDATA+PRDTABGN-PRDATA+2*L'DATABEGN,C'-'	GP10065 00340000
					450		SHEX OUTDATA+PRDTAEND-PRDATA,DATAEND END RANGE	GP10085 02420000
00061C	F384	C924	3020	00924	00020	451+	UNPK OUTDATA+PRDTAEND-PRDATA(2*L'DATAEND+1),DATAEND(L'DATAENDX00310000	GP10065
					+		+1)	GP10065
000622	DC07	C924	B185	00924	00185	452+	TR OUTDATA+PRDTAEND-PRDATA(2*L'DATAEND),COMMHXTR	GP10081 00320000
000628	9240	C92C		0092C		453+	MVI OUTDATA+PRDTAEND-PRDATA+2*L'DATAEND,C' '	GP10065 00340000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					454		SHEX OUTDATA+PRDTALEN-PRDATA,DATALEN SIZE	GP10085 02430000
00062C	F384	C935	3024	00935	00024	455+	UNPK OUTDATA+PRDTALEN-PRDATA(2*L'DATALEN+1),DATALEN(L'DATALENX00310000	GP10065
					+		+1)	
000632	DC07	C935	B185	00935	00185	456+	TR OUTDATA+PRDTALEN-PRDATA(2*L'DATALEN),COMMHXTR	GP10081 00320000
000638	9240	C93D		0093D	457+	MVI OUTDATA+PRDTALEN-PRDATA+2*L'DATALEN,C' '	GP10065 00340000	
					458	SHEX OUTDATA+PRDTATYP-PRDATA,DATATYPE TYPE	GP10085 02440000	
00063C	F321	C949	302B	00949	0002B	459+	UNPK OUTDATA+PRDTATYP-PRDATA(2*L'DATATYPE+1),DATATYPE(L'DATATX00310000	GP10065
					+		YPE+1)	
000642	DC01	C949	B185	00949	00185	460+	TR OUTDATA+PRDTATYP-PRDATA(2*L'DATATYPE),COMMHXTR	GP10081 00320000
000648	9240	C94B		0094B	461+	MVI OUTDATA+PRDTATYP-PRDATA+2*L'DATATYPE,C' '	GP10065 00340000	
					462	SHEX OUTDATA+PRDTASMT-PRDATA,DATAASMT ASM/USR TYPE	GP10085 02450000	
00064C	F321	C94C	302A	0094C	0002A	463+	UNPK OUTDATA+PRDTASMT-PRDATA(2*L'DATAASMT+1),DATAASMT(L'DATAAX00310000	GP10065
					+		SMT+1)	
000652	DC01	C94C	B185	0094C	00185	464+	TR OUTDATA+PRDTASMT-PRDATA(2*L'DATAASMT),COMMHXTR	GP10081 00320000
000658	9240	C94E		0094E	465+	MVI OUTDATA+PRDTASMT-PRDATA+2*L'DATAASMT,C' '	GP10065 00340000	
00065C	D207	C955	300C	00955	0000C	466	MVC OUTDATA+PRDTANME-PRDATA(L'DATANAME),DATANAME	GP10085 02460000
					467	SHEX OUTDATA+PRDTALBA-PRDATA,DATALBA,FILL=C'+' LBL	GP10085 02470000	
000662	F384	C965	3014	00965	00014	468+	UNPK OUTDATA+PRDTALBA-PRDATA(2*L'DATALBA+1),DATALBA(L'DATALBAX00310000	GP10065
					+		+1)	
000668	DC07	C965	B185	00965	00185	469+	TR OUTDATA+PRDTALBA-PRDATA(2*L'DATALBA),COMMHXTR	GP10081 00320000
00066E	924E	C96D		0096D	470+	MVI OUTDATA+PRDTALBA-PRDATA+2*L'DATALBA,C'+'	GP10065 00340000	
					471	SHEX OUTDATA+PRDTALBD-PRDATA,DATALBD LBL OFFSET	GP10085 02480000	
000672	F384	C96E	3018	0096E	00018	472+	UNPK OUTDATA+PRDTALBD-PRDATA(2*L'DATALBD+1),DATALBD(L'DATALBDX00310000	GP10065
					+		+1)	
000678	DC07	C96E	B185	0096E	00185	473+	TR OUTDATA+PRDTALBD-PRDATA(2*L'DATALBD),COMMHXTR	GP10081 00320000
00067E	9240	C976		00976	474+	MVI OUTDATA+PRDTALBD-PRDATA+2*L'DATALBD,C' '	GP10065 00340000	
					475	SHEX OUTDATA+PRDTAILN-PRDATA,DATAILEN ITEM LENGTH	GP10085 02490000	
000682	F342	C93E	3028	0093E	00028	476+	UNPK OUTDATA+PRDTAILN-PRDATA(2*L'DATAILEN+1),DATAILEN(L'DATAIX00310000	GP10065
					+		LEN+1)	
000688	DC03	C93E	B185	0093E	00185	477+	TR OUTDATA+PRDTAILN-PRDATA(2*L'DATAILEN),COMMHXTR	GP10081 00320000
00068E	9240	C942		00942	478+	MVI OUTDATA+PRDTAILN-PRDATA+2*L'DATAILEN,C' '	GP10065 00340000	
000692	45A0	C85C		0085C	479	BAL R10,PRT0000 PRINT DATA DATA	02500000	
000696	BF3F	3000		00000	480	ICM R3,15,DATANEXT NEXT DATA BLOCK	02510000	
00069A	4770	C5D4		005D4	481	BNZ DBUG0140 LOOP	02520000	
					482 *	-----		* 02530000
					483 *	CHASE REFERENCE BLOCK CHAIN		* 02540000
					484 *	-----		* 02550000
00069E	BF3F	B114		00114	485	DEBUG0150 ICM R3,15,COMMREF FIRST REFERENCE BLOCK	02560000	
				00000	486	USING REFDSCT,R3 DEFINE BASE	02570000	
0006A2	4780	C736		00736	487	BZ DBUG0170 NO REF BLOCK'S	02580000	
0006A6	92F0	C8FD		008FD	488	MVI OUTCC,C'0' DOUBLE SPACE	GP99138 02590000	
0006AA	D265	C8FE	CCD5	008FE	00CD5	489	DEBUG0160 MVC OUTDATA(PRREFL),PRREF	GP99138 02600000
					490	SHEX OUTDATA+PRREFBA-PRREF,(R3),4 REF ADDRESS	GP10085 02610000	
0006B0	5030	B000		00000	491+	ST R3,COMMDWRD	GP10081 00170000	
0006B4	F384	C8FE	B000	008FE	00000	492+	UNPK OUTDATA+PRREFBA-PRREF(2*4+1),COMMDWRD+4-4(4+1)	GP10081 00180000
0006BA	DC07	C8FE	B185	008FE	00185	493+	TR OUTDATA+PRREFBA-PRREF(2*4),COMMHXTR	GP10081 00190000
0006C0	9240	C906		00906	494+	MVI OUTDATA+PRREFBA-PRREF+2*4,C' '	GP10065 00210000	
					495	SHEX OUTDATA+PRREFNXT-PRREF,REFNEXT LINK	GP10085 02620000	
0006C4	F384	C90B	3000	0090B	00000	496+	UNPK OUTDATA+PRREFNXT-PRREF(2*L'REFNEXT+1),REFNEXT(L'REFNEXT+X00310000	GP10065
					+		1)	
0006CA	DC07	C90B	B185	0090B	00185	497+	TR OUTDATA+PRREFNXT-PRREF(2*L'REFNEXT),COMMHXTR	GP10081 00320000
0006D0	9240	C913		00913	498+	MVI OUTDATA+PRREFNXT-PRREF+2*L'REFNEXT,C' '	GP10065 00340000	
					499	SHEX OUTDATA+PRREFAD1-PRREF,REFOPER1,FILL=C'-'	GP10085 02630000	
0006D4	F384	C938	300C	00938	0000C	500+	UNPK OUTDATA+PRREFAD1-PRREF(2*L'REFOPER1+1),REFOPER1(L'REFOPEX00310000	GP10065
					+		R1+1)	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
0006DA	DC07	C938	B185	00938	00185	501+	TR	OUTDATA+PRREFAD1-PRREF(2*L'REFOPER1),COMMHXTR GP10081 00320000	
0006E0	9260	C940		00940	502+	MVI	OUTDATA+PRREFAD1-PRREF+2*L'REFOPER1,C'-'	GP10065 00340000	
					503	SHEX	OUTDATA+PRREF01D-PRREF,REFDISP1 LINK	GP10085 02640000	
0006E4	F384	C941	3014	00941	00014	504+	UNPK	OUTDATA+PRREF01D-PRREF(2*L'REFDISP1+1),REFDISP1(L'REFDISX00310000	GP10065
					+		P1+1)		
0006EA	DC07	C941	B185	00941	00185	505+	TR	OUTDATA+PRREF01D-PRREF(2*L'REFDISP1),COMMHXTR GP10081 00320000	
0006F0	9240	C949		00949	506+	MVI	OUTDATA+PRREF01D-PRREF+2*L'REFDISP1,C' '	GP10065 00340000	
					507	SHEX	OUTDATA+PRREFAD2-PRREF,REFOPER2,FILL=C'-'	GP10085 02650000	
0006F4	F384	C953	3010	00953	00010	508+	UNPK	OUTDATA+PRREFAD2-PRREF(2*L'REFOPER2+1),REFOPER2(L'REFOPEX00310000	GP10065
					+		R2+1)		
0006FA	DC07	C953	B185	00953	00185	509+	TR	OUTDATA+PRREFAD2-PRREF(2*L'REFOPER2),COMMHXTR GP10081 00320000	
000700	9260	C95B		0095B	510+	MVI	OUTDATA+PRREFAD2-PRREF+2*L'REFOPER2,C'-'	GP10065 00340000	
					511	SHEX	OUTDATA+PRREF02D-PRREF,REFDISP2 LINK	GP10085 02660000	
000704	F384	C95C	3018	0095C	00018	512+	UNPK	OUTDATA+PRREF02D-PRREF(2*L'REFDISP2+1),REFDISP2(L'REFDISX00310000	GP10065
					+		P2+1)		
00070A	DC07	C95C	B185	0095C	00185	513+	TR	OUTDATA+PRREF02D-PRREF(2*L'REFDISP2),COMMHXTR GP10081 00320000	
000710	9240	C964		00964	514+	MVI	OUTDATA+PRREF02D-PRREF+2*L'REFDISP2,C' '	GP10065 00340000	
000714	D203	C8ED	301C	008ED	0001C	515	MVC	WORKX,REFDISPI COPY TO WORK AREA 02670000	
					516	SHEX	OUTDATA+PRREFDSP-PRREF,WORKX	GP10085 02680000	
00071A	F384	C926	C8ED	00926	008ED	517+	UNPK	OUTDATA+PRREFDSP-PRREF(2*L'WORKX+1),WORKX(L'WORKX+1) GP1X00310000	
					+		0065		
000720	DC07	C926	B185	00926	00185	518+	TR	OUTDATA+PRREFDSP-PRREF(2*L'WORKX),COMMHXTR GP10081 00320000	
000726	9240	C92E		0092E	519+	MVI	OUTDATA+PRREFDSP-PRREF+2*L'WORKX,C' '	GP10065 00340000	
00072A	45A0	C85C		0085C	520	BAL	R10,PRT0000 PRINT REF DATA 02690000		
00072E	BF3F	3000		00000	521	ICM	R3,15,REFNEXT NEXT REF BLOCK 02700000		
000732	4770	C6AA		006AA	522	BNZ	DEBUG0160 LOOP 02710000		
					523	*	-----	* 02720000	
					524	*	CHASE LABEL CHAIN FOR CSECT	* 02730000	
					525	*	-----	* 02740000	
000736	BF4F	B118		00118	526	DEBUG0170	ICM R4,15,COMMLABL FIRST REFERENCE BLOCK 02750000		
00073A	4780	C7C0		007C0	527		BZ DEBUG0200 NO CSECT LABELS 02760000		
00073E	4580	C746		00746	528		BAL R8,DEBUG0180 CHASE THE CHAIN 02770000		
000742	47F0	C7C0		007C0	529		B DEBUG0200 PRINT DISPLACEMENT TABLE 02780000		
					530	*	-----	* 02790000	
					531	*	CHASE LABEL CHAIN FOR DSECTS AND CSECTS	* 02800000	
					532	*	-----	* 02810000	
				00000	533		USING LABLDSC,T,R4 DEFINE BASE 02820000		
000746	92F0	C8FD		008FD	534	DEBUG0180	MVI OUTCC,C'0' DOUBLE SPACE GP99138 02830000		
00074A	D267	C8FE	CD3B	008FE	00D3B	535	DEBUG0190	MVC OUTDATA(PRLABLL),PRLABL GP99138 02840000	
					536		SHEX OUTDATA+PRLBLBA-PRLABL,(R4),4 LBL ADDRESS GP10085 02850000		
000750	5040	B000		00000	537+		ST R4,COMMDWRD GP10081 00170000		
000754	F384	C8FE	B000	008FE	00000	538+	UNPK	OUTDATA+PRLBLBA-PRLABL(2*4+1),COMMDWRD+4-4(4+1) GP10081 00180000	
00075A	DC07	C8FE	B185	008FE	00185	539+	TR	OUTDATA+PRLBLBA-PRLABL(2*4),COMMHXTR GP10081 00190000	
000760	9240	C906		00906	540+	MVI	OUTDATA+PRLBLBA-PRLABL+2*4,C' '	GP10065 00210000	
					541	SHEX	OUTDATA+PRLBLNXT-PRLABL,LABLNEXT LINK GP10085 02860000		
000764	F384	C90D	4000	0090D	00000	542+	UNPK	OUTDATA+PRLBLNXT-PRLABL(2*L'LABLNEXT+1),LABLNEXT(L'LABLNX00310000	GP10065
					+		EXT+1)		
00076A	DC07	C90D	B185	0090D	00185	543+	TR	OUTDATA+PRLBLNXT-PRLABL(2*L'LABLNEXT),COMMHXTR GP10081 00320000	
000770	9240	C915		00915	544+	MVI	OUTDATA+PRLBLNXT-PRLABL+2*L'LABLNEXT,C' '	GP10065 00340000	
000774	D207	C922	400C	00922	0000C	545	MVC	OUTDATA+PRLBLNM-PRLABL(L'LABLNAME),LABLNAME GP10085 02870000	
00077A	D200	C931	4021	00931	00021	546	MVC	OUTDATA+PRLBLTYP-PRLABL(L'LABLTYPE),LABLTYPE GP10085 02880000	
					547	SHEX	OUTDATA+PRLBLDSP-PRLABL,LABLDISP OFFSET GP10085 02890000		
000780	F384	C939	4014	00939	00014	548+	UNPK	OUTDATA+PRLBLDSP-PRLABL(2*L'LABLDISP+1),LABLDISP(L'LABLDX00310000	GP10065
					+		ISP+1)		
000786	DC07	C939	B185	00939	00185	549+	TR	OUTDATA+PRLBLDSP-PRLABL(2*L'LABLDISP),COMMHXTR GP10081 00320000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
00078C	9240	C941		00941	550+		MVI OUTDATA+PRLBLDSP-PRLABL+2*L'LABLDISP,C' '	GP10065 00340000	
000790	D200	C94A	4022	0094A	00022	551	MVC OUTDATA+PRLBLSRC-PRLABL(L'LABLSRCE),LABLSRCE	GP10085 02900000	
					552	SHEX OUTDATA+PRLBLREF-PRLABL,LABLXREF REF	GP10085 02910000		
000796	F384	C951	4018	00951	00018	553+	UNPK OUTDATA+PRLBLREF-PRLABL(2*L'LABLXREF+1),LABLXREF(L'LABLXX00310000	GP10065	
					+		REF+1)	GP10081 00320000	
00079C	DC07	C951	B185	00951	00185	554+	TR OUTDATA+PRLBLREF-PRLABL(2*L'LABLXREF),COMMHXTR	GP10065 00340000	
0007A2	9240	C959		00959	555+		MVI OUTDATA+PRLBLREF-PRLABL+2*L'LABLXREF,C' '	GP99184 02920000	
0007A6	F374	B000	401C	00000	0001C	556	UNPK COMMDWRD,LABLSTMT	GP10085 02930000	
0007AC	D205	C95F	B001	0095F	00001	557	MVC OUTDATA+PRLBLSTM-PRLABL(L'PRLBLSTM),COMMDWRD+1	02940000	
0007B2	45A0	C85C		0085C	558	BAL R10,PRT0000	PRINT LABL DATA	02950000	
0007B6	BF4F	4000		00000	559	ICM R4,15,LABLNEXT	NEXT LABL BLOCK	02960000	
0007BA	4770	C74A		0074A	560	BNZ DEBUG0190	LOOP	02970000	
0007BE	07F8				561	BR R8	RETURN	02980000	
					562	*	-----	* 02990000	
					563	*	PRINT INSTRUCTION DISPLACEMENT TABLE	* 03000000	
					564	*	-----	* 03010000	
0007C0	BF3F	B110		00110	565	DEBUG0200	ICM R3,15,COMMDISP INSTRUCTION DISPLACEMENT TABLE	03020000	
0007C4	4780	C844		00844	566	BZ	EXIT0000 TABLE NOT ACQUIRED	03030000	
0007C8	92F0	C8FD		008FD	567	MVI	OUTCC,C'0' DOUBLE SPACE	GP99138 03040000	
0007CC	D219	C8FE	CDA3	008FE	00DA3	568	MVC OUTDATA(PRDISPL),PRDISP	GP99138 03050000	
0007D2	45A0	C85C		0085C	569	BAL R10,PRT0000	PRINT HEADING	GP99138 03060000	
0007D6	4120	C8FE		008FE	570	DEBUG0210	LA R2,OUTDATA PRINT DATA	03070000	
0007DA	4110	000A		0000A	571	LA R1,10	10 DISPLACEMENTS PER LINE	03080000	
0007DE	D503	C8F8	3000	008F8	00000	572	DEBUG0220	CLC XFFFF,0(R3) END OF DISPLACEMENT TABLE?	03090000
0007E4	4780	C80C		0080C	573	BE	DEBUG0230 YES	03100000	
0007E8	F384	2000	3000	00000	00000	574	UNPK	0(9,R2),0(5,R3) UNPACK DISPLACEMENT	GP99132 03110000
0007EE	DC07	2000	B185	00000	00185	575	TR	0(8,R2),COMMHXTR TRANSLATE TO PRINTABLE	03120000
0007F4	9240	2008		00008	576	MVI	8(R2),C' ' RESTORE BLANK	03130000	
0007F8	4120	2009		00009	577	LA	R2,9(,R2) NEXT IN PRINT AREA	03140000	
0007FC	4130	3004		00004	578	LA	R3,4(,R3) NEXT DISPLACEMENT	03150000	
000800	4610	C7DE		007DE	579	BCT	R1,DEBUG0220 LOOP	03160000	
000804	45A0	C85C		0085C	580	BAL	R10,PRT0000 PRINT DISPLACEMENT DATA	03170000	
000808	47F0	C7D6		007D6	581	B	DEBUG0210 BUILD A NEW LINE		
00080C	D583	C8FE	C8FD	008FE	008FD	583	DEBUG0230	CLC OUTDATA,OUTDATA-1 LINE EMPTY?	GP99138 03190000
000812	4780	C844		00844	584	BE	EXIT0000 YES, EXIT	03200000	
000816	45A0	C85C		0085C	585	BAL	R10,PRT0000 PRINT DISPLACEMENT DATA	03210000	
00081A	47F0	C844		00844	586	B	EXIT0000 EXIT	03220000	
					587	*	-----	* 03230000	
					588	*	PRINT SUBHEADING	* 03240000	
					589	*	-----	* 03250000	
00081E	45A0	C88C		0088C	590	DEBUG0300	BAL R10,HEAD0000 PRINT HEADING	03260000	
000822	47F0	C844		00844	591	B	EXIT0000 EXIT	03270000	
					592	*	-----	* 03280000	
					593	*	PRINT DATA	* 03290000	
					594	*	-----	* 03300000	
000826	5810	9000		00000	595	DEBUG0310	L R1,DEBUGDATA DATA ADDRESS	GP99138 03310000	
00082A	D277	C8FE	1000	008FE	00000	596	MVC OUTDATA(120),0(R1)	COPY DATA	03320000
000830	45A0	C85C		0085C	597	BAL	R10,PRT0000 PRINT	03330000	
000834	47F0	C844		00844	598	B	EXIT0000 EXIT	03340000	
					599	*	-----	* 03350000	
					600	*	NO DISDEBUG DD PRESENT	* 03360000	
					601	*	-----	* 03370000	
000838					602	DEBUG1000	DS OH	03380000	
					603		ITRACE ID=NODEBUG CAUSE TRACE ENTRY	03390000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
000838	45E0	B564	00564		604+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
00083C	D5D6C4C5C2E4C740				605+	DC	CL8'NODEBUG'	TRACE ID 00670000	
					606	*NEXT*	B	EXIT0000	EXIT 03400000
000844					607	EXIT0000	DS	OH	03410000
					608		ITRACE ID=EXITDEBUG	GP10085 03420000	
000844	45E0	B564	00564		609+	BAL	R14,TRACE000	ENTER TRACE ROUTINE 00640000	
000848	C5E7C9E3C4C2E4C7				610+	DC	CL8'EXITDEBUG'	TRACE ID 00670000	
000850	58D0	D004	00004		611	L	R13,4(,R13)	RESTORE REGISTER 13 03430000	
000854	98EC	D00C	0000C		612	LM	R14,R12,12(R13)	RESTORE ALL OTHER REGISTERS 03440000	
000858	1BFF				613	SR	R15,R15	GIVE GOOD RETURN CODE 03450000	
00085A	07FE				614	BR	R14	RETURN TO CALLER 03460000	
					616	*	-----	* 03480000	
					617	*	PRINT DATA	* 03490000	
					618	*	-----	* 03500000	
00085C	4110	CDC0	00DC0		619	PRT0000	PUT DISDEBUG,OUTCC	WRITE DEBUG OUTPUT GP99138 03510000	
000860	4100	C8FD	008FD		620+	PRT0000	LA 1,DISDEBUG	LOAD PARAMETER REG 1 01900002	
000864	58F0	1030	00030		621+		LA 0,OUTCC	LOAD PARAMETER REG 0 02500002	
000868	05EF				622+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 00550000	
00086A	FA20	C8F5	C8F1	008F5	623+	BALR	14,15	LINK TO PUT ROUTINE 00600000	
000870	9540	C8FD	008FD	008F1	624	AP	LINECT,P1	ADD 1 TO LINE COUNT 03520000	
000874	4780	C87E	0087E		625	CLI	OUTCC,C' '	SINGLE SPACED? GP99138 03530000	
000878	FA20	C8F5	C8F1	008F5	626	BE	PRT0010	NO GP99138 03540000	
00087E	D284	C8FD	C8FC	008F5	627	AP	LINECT,P1	ADD 1 TO LINE COUNT 03550000	
000884	F922	C8F5	B15E	008FC	628	PRT0010	MVC OUTCC(PRTL),OUTCC-1	CLEAR PRINT I/O AREA GP99138 03560000	
00088A	07DA		0015E		629	CP	LINECT,COMMMAXL	PAGE OVERFLOW? 03570000	
00088C	D221	C8FD	C982	008F5	630	BNHR	R10	NO 03580000	
000892	41F0	C978	00982		631	HEAD0000	MVC OUTCC(DEBUGHDL),DEBUGHD	GP99138 03590000	
000896	D209	F000	00978	00E24	632		LA R15,OUTCC+PRTL-10	GP05169 03600000	
00089C	FA20	C8F2	CE24	008F1	633		MVC 0(10,R15),=X'D7818785402020202120'	GP05169 03610000	
0008A2	DE05	F004	C8F2	008F2	634	AP	PAGECT,P1	MAKE NEW PAGE COUNT GP05169 03620000	
					635	ED	4(6,R15),PAGECT	SHOW PAGE NUMBER GP05169 03630000	
					636	PUT	DISDEBUG,OUTCC	WRITE NEW HEADING GP99138 03640000	
0008A8	4110	CDC0	00DC0		637+	LA	1,DISDEBUG	LOAD PARAMETER REG 1 01900002	
0008AC	4100	C8FD	008FD		638+	LA	0,OUTCC	LOAD PARAMETER REG 0 02500002	
0008B0	58F0	1030	00030		639+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 00550000	
0008B4	05EF				640+	BALR	14,15	LINK TO PUT ROUTINE 00600000	
0008B6	D284	C8FD	C8FC	008FC	641	MVC	OUTCC(PRTL),OUTCC-1	CLEAR PRINT I/O AREA GP99138 03650000	
0008BC	D222	C8FE	B1F2	008FE	642	MVC	OUTDATA(L'COMMDBSH),COMMDBSH	GP99138 03660000	
					643	PUT	DISDEBUG,OUTCC	WRITE SUB HEADING GP99138 03670000	
0008C2	4110	CDC0	00DC0		644+	LA	1,DISDEBUG	LOAD PARAMETER REG 1 01900002	
0008C6	4100	C8FD	008FD		645+	LA	0,OUTCC	LOAD PARAMETER REG 0 02500002	
0008CA	58F0	1030	00030		646+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 00550000	
0008CE	05EF				647+	BALR	14,15	LINK TO PUT ROUTINE 00600000	
0008D0	D284	C8FD	C8FC	008FC	648	MVC	OUTCC(PRTL),OUTCC-1	CLEAR PRINT I/O AREA GP99138 03680000	
					649	PUT	DISDEBUG,OUTCC	BLANK LINE GP99138 03690000	
0008D6	4110	CDC0	00DC0		650+	LA	1,DISDEBUG	LOAD PARAMETER REG 1 01900002	
0008DA	4100	C8FD	008FD		651+	LA	0,OUTCC	LOAD PARAMETER REG 0 02500002	
0008DE	58F0	1030	00030		652+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR 00550000	
0008E2	05EF				653+	BALR	14,15	LINK TO PUT ROUTINE 00600000	
0008E4	F820	C8F5	C8F1	008F5	654	ZAP	LINECT,P1	RESET LINE COUNT 03700000	
0008EA	07FA				655	BR	R10	RETURN 03710000	
					656	*	-----	* 03720000	
					657	*		* 03730000	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				658 *	WORK AREAS	* 03740000
				659 *		* 03750000
				660 *	-----*	03760000
0008EC	00			661	DEBUGFLAG DC X'00'	03770000
			00080	662	\$DEBUGPN EQU X'80' DCB IS OPEN	03780000
0008ED	00000000			663	WORKX DC XL4'00'	03790000
0008F1	1C			664	P1 DC P'1'	03800000
0008F2	00000C			665	PAGECT DC PL3'0' PAGE COUNT GP05169	03810000
0008F5	00000C			666	LINECT DC PL3'0'	03820000
0008F8	FFFFFFFF			667	XFFFF DC X'FFFFFFFF'	03830000
0008FC	40			669	DC C' '	03850000
0008FD	40			670	OUTCC DC C' '	GP99138 03860000
0008FE	4040404040404040			671	OUTDATA DC CL132' '	GP99138 03870000
			00085	672	PRTL EQU *-OUTCC GP99138	03880000
000982				674	DEBUGHD DS OC	03900000
000982	F140404040404040			675	DC C'1 DISASSEMBLER DEBUG'	03910000
			00022	676	DEBUGHDL EQU *-DEBUGHD	03920000
0009A4				677	PRTR DS OC	03930000
0009A4	E3D9C1C3C540E3C1			678	DC C'TRACE TABLE FIRST '	03940000
0009B6	4040404040404040			679	PRTR1ST DC CL8' '	03950000
0009BE	404040D3C1E2E340			680	DC C' LAST '	03960000
0009C6	4040404040404040			681	PRTRLAST DC CL8' '	03970000
0009CE	404040C3E4D9D9C5			682	DC C' CURRENT '	03980000
0009D9	4040404040404040			683	PRTRCURR DC CL8' '	03990000
0009E1	40			684	DC C' '	04000000
			0003E	685	PRTRL EQU *-PRTR	04010000
0009E2				686	PRI0 DS OC	04020000
0009E2	40C4C9E2D4D6C440			687	DC C' DISMOD I/O AREA ADDRESS '	04030000
0009FB	4040404040404040			688	PRI0A DC CL8' '	04040000
000A03	40			689	DC C' '	04050000
			00022	690	PRI0L EQU *-PRI0	04060000
000A04				691	PRES0 DS OC	04070000
000A04	4040404040404040			692	PRESDBA DC CL8' '	04080000
000A0C	40			693	DC C' '	04090000
000A0D	C5E2C440C2D3D6C3			694	DC C'ESD BLOCK ' GP99139	04100000
000A17	4040404040404040			695	PRES0NXT DC CL8' '	04110000
000A1F	4040D5C1D4C540			696	DC C' NAME '	04120000
000A26	4040404040404040			697	PRES0NM DC CL8' '	04130000
000A2E	4040E3E8D7C540			698	DC C' TYPE '	04140000
000A35	4040			699	PRES0TYP DC CL2' '	04150000
000A37	4040C1C4C4D9C5E2			700	DC C' ADDRESS '	04160000
000A41	4040404040404040			701	PRES0ADR DC CL7' '	04170000
000A48	4040E2C5C7D4C5D5			702	DC C' SEGMENT '	04180000
000A52	4040			703	PRES0SEG DC CL2' '	04190000
000A54	4040D3C5D5C7E3C8			704	DC C' LENGTH '	04200000
000A5D	4040404040404040			705	PRES0LEN DC CL7' '	04210000
000A64	40			706	DC C' '	04220000
			00061	707	PRES0L EQU *-PRES0	04230000
000A65				708	PRRLD DS OC	04240000
000A65	4040404040404040			709	PRRLDBA DC CL8' '	04250000
000A6D	40			710	DC C' '	04260000

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000A6E	D9D3C440C2D3D6C3			711	DC	C'RLD BLOCK '	GP99139 04270000
000A78	4040404040404040			712	PRRLDNXT DC	CL8' '	04280000
000A80	4040C4C9E2D740			713	DC	C' DISP '	04290000
000A87	4040404040404040			714	PRRLDDSP DC	CL8' '	04300000
000A8F	4040E3E8D7C540			715	DC	C' TYPE '	04310000
000A96	4040			716	PRRLDTYP DC	CL2' '	04320000
000A98	4040D3C5D5C7E3C8			717	DC	C' LENGTH '	04330000
000AA1	40404040			718	PRRLDLEN DC	CL4' '	04340000
000AA5	4040D7D6C9D5E3C5			719	DC	C' POINTER '	04350000
000AAF	40404040			720	PRRLDPTR DC	CL4' '	04360000
000AB3	4040D7D6E2C9E3C9			721	DC	C' POSITION '	04370000
000ABE	40404040			722	PRRLDPP DC	CL4' '	04380000
000AC2	4040C4C9D940			723	DC	C' DIR '	04390000
000AC8	40			724	PRRLDDIR DC	C' '	04400000
000AC9	4040C5E2C440			725	DC	C' ESD '	04410000
000ACF	4040404040404040			726	PRRLDESD DC	CL8' '	04420000
000AD7	40			727	DC	C' '	04430000
		00073		728	PRRLDL EQU	*-PRRLD	04440000
000AD8	40			730	PRVERP DC	C' '	GP10085 04460000
000AD9	4040404040404040			731	PRVERBA DC	CL8' ',C' ' ADDRESS	GP10085 04470000
000AE2	4040404040404040			732	PRVERNXT DC	CL8' ',C' ' LINK	GP10085 04480000
000AEC	40E5C5D9C9C6E840			733	PRVERB DC	CL7' VERIFY',C' @ '	GP10085 04490000
000AF6	4040404040404040			734	PRVEROFF DC	CL8' ',C' LN ' ADDRESS	GP10085 04500000
000B02	4040404040404040			735	PRVERLEN DC	CL8' ',C' : ' ADDRESS	GP10085 04510000
000B0D	4040404040404040			736	PRVERTXT DC	CL8' ',C' ' ADDRESS	GP10085 04520000
000B16	4040404040404040			737	PRVERTX2 DC	CL8' ',C' ' ADDRESS	GP10085 04530000
000B1F	4040404040404040			738	PRVERTX3 DC	CL8' ',C' ' ADDRESS	GP10085 04540000
000B28	4040404040404040			739	PRVERTX4 DC	CL8' ',C' ' ADDRESS	GP10085 04550000
000B31	4040404040404040			740	PRVERTX5 DC	CL8' ',C' ' ADDRESS	GP10085 04560000
000B3A	4040404040404040			741	PRVERTX6 DC	CL8' ',C' ' ADDRESS	GP10085 04570000
		0006B		742	PRVERPL EQU	*-PRVERP	GP10085 04580000
000B43				744	PRUSNG DS	OC	04600000
000B43	4040404040404040			745	PRUSGBA DC	CL8' '	04610000
000B4B	40			746	DC	C' '	04620000
000B4C	E4E2C9D5C740			747	DC	C'USING '	GP99139 04630000
000B52	4040404040404040			748	PRUSGNXT DC	CL8' '	04640000
000B5A	4040C4E2C5C3E340			749	DC	C' DSECT '	04650000
000B62	4040404040404040			750	PRUSGNME DC	CL8' '	04660000
000B6A	4040D3C1C2C5D340			751	DC	C' LABEL '	04670000
000B72	4040404040404040			752	PRUSGLBL DC	CL8' '	04680000
000B7A	4040C2C1E2C540			753	DC	C' BASE '	04690000
000B81	40			754	PRUSGBSE DC	C' '	04700000
000B82	4040C6D3C1C7E240			755	DC	C' FLAGS '	04710000
000B8A	4040			756	PRUSGFLG DC	CL2' '	04720000
000B8C	4040C4C9E2D740			757	DC	C' DISP '	04730000
000B93	4040404040404040			758	PRUSGDSP DC	CL8' '	04740000
000B9B	4040C2C5C7D561C5			759	DC	C' BEGN/END '	GP10085 04750000
000BA6	4040404040404040			760	PRUSGBGN DC	CL8' '	04760000
000BAE	60			761	DC	C' - '	04770000
000BAF	4040404040404040			762	PRUSGEND DC	CL8' '	04780000
000BB7	40			763	DC	C' '	04790000
		00075		764	PRUSNGL EQU	*-PRUSNG	04800000
000BB8				765	PRDSCT DS	OC	04810000

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000BB8	4040404040404040			766	PRDSBA	DC CL8' '	04820000
000BC0	40			767		DC C' '	04830000
000BC1	C4E2C5C3E340			768		DC C'DSECT '	GP99139 04840000
000BC7				769	PRDSNXT	DS CL8' '	04850000
000BCF	4040C4E2C5C3E340			770		DC C' DSECT NAME '	04860000
000BDC	4040404040404040			771	PRDSNAME	DC CL8' '	04870000
000BE4	4040F1E2E340D3C1			772		DC C' 1ST LABEL '	04880000
000BF0	4040404040404040			773	PRDSLABL	DC CL8' '	04890000
000BF8	40			774		DC C' '	04900000
		00041		775	PRDSCTL	EQU *-PRDSCT	04910000
000BF9				776	PRBASE	DS OC	04920000
000BF9				777	PRBSEBA	DS CL8' '	04930000
000C01	40			778		DC C' '	04940000
000C02	C2C1E2C540			779		DC C'BASE '	GP99139 04950000
000C07	4040404040404040			780	PRBSENXT	DC CL8' '	04960000
000C0F	4040D9C5C7C9E2E3			781		DC C' REGISTER '	04970000
000C1A	40			782	PRBSEREG	DC C' '	04980000
000C1B	4040C9D5E2E3D9E4			783		DC C' INSTRUCTION RANGE '	04990000
000C2F	4040404040404040			784	PRBSEBGN	DC CL9' '	05000000
000C38	4040404040404040			785	PRBSEEND	DC CL9' '	05010000
000C41	4040C4C9E2D740D9			786		DC C' DISP REFERRED TO '	05020000
000C54	4040404040404040			787	PRBSEDSP	DC CL9' '	05030000
		00064		788	PRBASEL	EQU *-PRBASE	05040000
000C5D				789	PRDATA	DS OC	05050000
000C5D	4040404040404040			790	PRDTABA	DC CL8' '	05060000
000C65	40			791		DC C' '	05070000
000C66	C4C1E3C140			792	PRDTADC	DC C'DATA '	GP99139 05080000
000C6B	4040404040404040			793	PRDTANXT	DC CL8' '	05090000
000C73	4040C4C9E2D740			794		DC C' DISP '	05100000
000C7A	4040404040404040			795	PRDTABGN	DC CL8' '	05110000
000C82	60			796		DC C' - '	05120000
000C83	4040404040404040			797	PRDTAEND	DC CL8' '	05130000
000C8B	4040D3C5D5C7E3C8			798		DC C' LENGTH '	05140000
000C94	4040404040404040			799	PRDTALEN	DC CL8' ',C' '	GP99181 05150000
000C9D	40404040			800	PRDTAILN	DC CL4' '	GP99181 05160000
000CA1	4040E3E8D7C540			801		DC C' TYPE '	05170000
000CA8	404040			802	PRDTATYP	DC CL2' ',C' '	GP99181 05180000
000CAB	4040			803	PRDTASMT	DC CL2' '	GP99181 05190000
000CAD	4040D5C1D4C540			804		DC C' NAME '	05200000
000CB4	4040404040404040			805	PRDTANME	DC CL8' '	05210000
000CBC	4040D3C1C2C5D340			806		DC C' LABEL '	05220000
000CC4	4040404040404040			807	PRDTALBA	DC CL8' '	05230000
000CCC	4E			808		DC C' + '	05240000
000CCD	4040404040404040			809	PRDTALBD	DC CL8' '	05250000
		00078		810	PRDATAL	EQU *-PRDATA	05260000
000CD5				811	PRREF	DS OC	05270000
000CD5	4040404040404040			812	PRREFBA	DC CL8' '	05280000
000CDD	40			813		DC C' '	05290000
000CDE	D9C5C640			814		DC C'REF '	GP99139 05300000
000CE2	4040404040404040			815	PRREFNXT	DC CL8' '	05310000
000CEA	4040C9D5E2E3D9E4			816		DC C' INSTRUCTION DISP '	GP10085 05320000
000CFD	4040404040404040			817	PRREFDSP	DC CL8' ',C' LABEL 1 '	GP10085 05330000
000D0F	4040404040404040			818	PRREFAD1	DC CL8' '	05340000
000D17	60			819		DC C' - '	05350000
000D18	4040404040404040			820	PRREF01D	DC CL8' ',C' LABEL 2 '	GP10085 05360000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000D2A	4040404040404040			821	PRREFAD2	DC CL8' '	05370000
000D32	60			822		DC C' - '	05380000
000D33	4040404040404040			823	PRREF02D	DC CL8' '	05390000
		00066		824	PRREFL	EQU *-PRREF	05400000
000D3B				826	PRLABL	DS OC	05420000
000D3B	4040404040404040			827	PRLBLBA	DC CL8' '	05430000
000D43	40			828		DC C' '	05440000
000D44	D3C1C2C5D340			829		DC C' LABEL '	GP99139 05450000
000D4A	4040404040404040			830	PRLBLNXT	DC CL8' '	05460000
000D52	4040D3C1C2C5D340			831		DC C' LABEL NAME '	05470000
000D5F	4040404040404040			832	PRLBLNM	DC CL8' '	05480000
000D67	4040E3E8D7C540			833		DC C' TYPE '	05490000
000D6E	40			834	PRLBLTYP	DC C' '	05500000
000D6F	4040C4C9E2D740			835		DC C' DISP '	05510000
000D76	4040404040404040			836	PRLBLDSP	DC CL9' '	05520000
000D7F	40E2D6E4D9C3C540			837		DC C' SOURCE '	GP99142 05530000
000D87	40			838	PRLBLSRC	DC C' '	GP99142 05540000
000D88	40E7D9C5C640			839		DC C' XREF '	GP99184 05550000
000D8E	4040404040404040			840	PRLBLREF	DC CL8' '	GP99184 05560000
000D96	40E2E3D4E340			841		DC C' STMT '	GP99184 05570000
000D9C	4040404040404040			842	PRLBLSTM	DC CL6' ',C' '	GP99184 05580000
		00068		843	PRLABLL	EQU *-PRLABL	05590000
000DA3	C9D5E2E3D9E4C3E3			844	PRDISP	DC C' INSTRUCTION DISPLACEMENTS: '	05600000
		0001A		845	PRDISPL	EQU *-PRDISP	05610000
				846	DISDEBUG	DCB DDNAME=DISDEBUG, DEBUG DCB	+05620000
						DSORG=PS, .. SEQUENTIAL	+05630000
						LRECL=133, .. RECORD SIZE	+05640000
						RECFM=FBA, .. RECORD FORMAT	+05650000
						MACRF=PM .. PUT-MOVE MODE	05660000
				848+*		DATA CONTROL BLOCK	22770000
				849+*			22860000
000DBD	000000						
000DC0				850+	DISDEBUG	DC OF'0' ORIGIN ON WORD BOUNDARY	22914000
				852+*		DIRECT ACCESS DEVICE INTERFACE	27360000
000DC0	0000000000000000			854+		DC BL16'0' FDAD,DVTBL	27540000
000DD0	00000000			855+		DC A(0) KEYLE,DEVT,TRBAL	27720000
				857+*		COMMON ACCESS METHOD INTERFACE	48690000
000DD4	00			859+		DC AL1(0) BUFNO	49050000
000DD5	000001			860+		DC AL3(1) BUFCB	54720000
000DD8	0000			861+		DC AL2(0) BUFL	55170000
000DDA	4000			862+		DC BL2'0100000000000000'	*55800000
				+		DSORG	55890000
000DDC	00000001			863+		DC A(1) IOBAD	56340000
				865+*		FOUNDATION EXTENSION	56610000
000DE0	00			867+		DC BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
000DE1	000001			868+		DC AL3(1) EODAD	65970000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000DE4	94			869+	DC BL1'10010100'	*66150000
				+		66240000
000DE5	000000			870+	DC AL3(0)	66330000
				872+*	FOUNDATION BLOCK	66690000
000DE8	C4C9E2C4C5C2E4C7			874+	DC CL8'DISDEBUG'	66870000
000DF0	02			875+	DC BL1'00000010'	68220000
000DF1	00			876+	DC BL1'00000000'	68310000
000DF2	0050			877+	DC BL2'0000000001010000'	*68400000
				+		*68490000
				+	MACR	68580000
				879+*	BSAM-BPAM-QSAM INTERFACE	74430000
000DF4	00			881+	DC BL1'00000000'	*74610000
				+		RER1 74700000
000DF5	000001			882+	DC AL3(1)	74790000
000DF8	00000001			883+	DC A(1)	74880000
000DFC	0000			884+	DC H'0'	74970000
000DFE	0000			885+	DC AL2(0)	75240000
000E00	00000000			886+	DC F'0'	75870000
000E04	00000001			887+	DC A(1)	75960000
000E08	00			888+	DC AL1(0)	76050000
000E09	000001			889+	DC AL3(1)	76140000
				891+*	QSAM INTERFACE	81450000
000E0C	00000001			893+	DC A(1)	81630000
000E10	0000			894+	DC H'0'	81810000
000E12	0085			895+	DC AL2(133) LRECL	80730000
000E14	00			896+	DC BL1'00000000'	82530000
000E15	000001			897+	DC AL3(1)	82620000
000E18	00000000			898+	DC F'0'	82710000
000E1C	00000001			899+	DC A(1)	82800000
000E20				900	LTORG	05670000
000E20	C6C9D3D3			901	=C'FILL'	
000E24	D781878540202020			902	=X'D7818785402020202120'	
000E2E	D9C5D7D3C1C3C5			903	=C'REPLACE'	
				905	COPY DISASMDA	05690000
				906	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				907	PRINT OFF	00020000
				1118	PRINT ON	02130000
				1119	.DA020 ANOP	02140000
				1120	*-----*	05700000
				1121	*	* 05710000
				1122	* INTERFACE BLOCK	* 05720000
				1123	*	* 05730000
				1124	*-----*	* 05740000
				1125	DEBUGBLOK DEBUGBLOK TYPE=DSECT	05750000
000000				1126	+DEBUGBLOK DSECT	00130000
000000	00000000			1127	+DEBUGDATA DC A(0)	00150000
000004	40			1128	+DEBUGCMD DC C' ' DEBUG DATA ADDRESS COMMAND	00160000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
		00040	1129+\$DEBUG	EQU	C' '	.. NORMAL DEBUG 00170000
		000C8	1130+\$DEBUGHD	EQU	C'H'	.. PRINT SUB-HEADING 00180000
		000D7	1131+\$DEBUGPRT	EQU	C'P'	.. PRINT 00190000
		1132	*-----*			05760000
		1133	*			05770000
		1134	* COMMON DATA MAP			05780000
		1135	*			05790000
		1136	*-----*			05800000
		1137	DISASM00	DISASMCM	TYPE=DSECT	05810000
		1138+	PRINT OFF			00280000
		1769+	PRINT ON			06440000
		1770+	*-----*			06460000
		1771+	*			06470000
		1772+	* ABEND REASON CODES			06480000
		1773+	*			06490000
		1774+	*-----*			06500000
		00001	1775+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT 06510000
		00002	1776+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL 06520000
		00003	1777+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE 06530000
		00004	1778+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE 06540000
		00005	1779+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR 06550000
		00000	1782+R0	EQU	0	00070000
		00001	1783+R1	EQU	1	00080000
		00002	1784+R2	EQU	2	00090000
		00003	1785+R3	EQU	3	00100000
		00004	1786+R4	EQU	4	00110000
		00005	1787+R5	EQU	5	00120000
		00006	1788+R6	EQU	6	00130000
		00007	1789+R7	EQU	7	00140000
		00008	1790+R8	EQU	8	00150000
		00009	1791+R9	EQU	9	00160000
		0000A	1792+R10	EQU	10	00170000
		0000B	1793+R11	EQU	11	00180000
		0000C	1794+R12	EQU	12	00190000
		0000D	1795+R13	EQU	13	00200000
		0000E	1796+R14	EQU	14	00210000
		0000F	1797+R15	EQU	15	00220000
000000			1799	END	DISASMDB	05820000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	08	0000A9
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SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
\$DATADS	00001	00000002	00953	00434															
\$DEBUGHD	00001	000000C8	01130	00076															
\$DEBUGOPN	00001	00000080	00662	00066	00068														
\$DEBUGPRT	00001	000000D7	01131	00078															
\$DEBUGDD	00001	00000008	01262	00064															
\$OPMASK	00001	00000001	01764	01420															
\$PFTRC	00001	00000001	01272	01507	01509														
\$PRTPRT	00001	000000D7	01631	01617	01638														
\$PRTSUBH	00001	000000E2	01630	01513															
AOP	00004	000000AC	01178	01401															
APR	00004	000000B8	01180	01620															
APU	00004	000000BC	01181	01641															
BASEBEGN	00004	0000000C	00928	00407	00407	00407	00408	00409											
BASEDISP	00004	00000014	00930	00415	00415	00415	00416	00417											
BASEDSCT	00001	00000000	00925	00393	00933														
BASEEND	00004	00000010	00929	00411	00411	00411	00412	00413											
BASENEXT	00004	00000000	00926	00403	00403	00403	00404	00405	00424										
BASEREG	00001	00000018	00931	00419	00419	00419	00420	00421											
BLKTRT	00001	000000A68	01678	01679	01681	01683	01685	01687	01689	01691	01693	01695	01697	01699	01701	01703			
COMMBASE	00004	00000108	01212	00392															
COMMCLR	00004	000000F8	01207	01227	01231														
COMMDATA	00004	0000010C	01213	00429															
COMMDBSH	00035	000001F2	01293	00642	00642														
COMMDD	00001	00000164	01257	00064															
COMMDISP	00004	00000110	01214	00565															
COMMDSCT	00004	00000104	01211	00363															
COMMDWRD	00008	00000000	01145	00116	00117	00154	00155	00201	00202	00266	00267	00328	00329	00369	00370	00398	00399	00438	
				00439	00491	00492	00537	00538	00556	00557	01532	01533							
COMMESD	00004	000000F8	01208	00110															
COMMFILL	00001	00000161	01248	01577															
COMMHXCH	00016	00000275	01297	00339	01298														
COMMHXTR	00016	00000185	01298	00087	00091	00095	00104	00118	00122	00127	00131	00135	00140	00156	00160	00164	00168	00172	
				00176	00180	00185	00203	00207	00211	00215	00219	00225	00231	00237	00243	00249	00268	00272	
				00276	00280	00284	00290	00296	00302	00308	00314	00330	00334	00342	00346	00350	00355	00371	
				00375	00381	00400	00404	00408	00412	00416	00420	00440	00444	00448	00452	00456	00460	00464	
				00469	00473	00477	00493	00497	00501	00505	00509	00513	00518	00539	00543	00549	00554	00575	
				01524	01527	01530	01534												
COMMH4	00002	00000158	01244	00221	00227	00233	00239	00245	00286	00292	00298	00304	00310						
COMMIO	00004	000000F4	01202	00103	00103	00103	00104	00105											
COMMLABL	00004	00000118	01216	00526															
COMMMAXL	00003	0000015E	01247	00629															
COMMNPR	00001	000003C7	01353	01354	01356	01358	01360	01362	01364	01366	01368	01370	01372	01374	01376	01378			
COMMPOOL	00001	00000162	01249	01569	01584														
COMMPRT	00001	000002C7	01324	01325	01327	01329	01331	01333	01335	01337	01339	01341	01343	01345	01347				
COMMREF	00004	00000114	01215	00485															
COMMREPS	00004	0000013C	01225	00257															
COMMRD	00004	000000FC	01209	00148															
COMMSUBH	00133	0000016D	01292	01510															
COMMSUBL	00002	00000154	01242	01511	01511	01512													
COMMUSNG	00004	00000100	01210	00322															
COMMVERS	00004	00000138	01224	00193															
DATAASMT	00001	0000002A	00950	00463	00463	00463	00464	00465											
DATABEGN	00004	0000001C	00946	00447	00447	00447	00448	00449											
DATADSCT	00001	00000000	00940	00430	00961														
DATAEND	00004	00000020	00947	00451	00451	00451	00452	00453											

DADB				CROSS-REFERENCE						PAGE 23	
SYMBOL	LEN	VALUE	DEFN	REFERENCES						ASM 0201 00.48 07/11/18	
DATAILEN	00002	00000028	00949	00476	00476	00476	00477	00478			
DATALBA	00004	00000014	00944	00468	00468	00468	00469	00470			
DATALBD	00004	00000018	00945	00472	00472	00472	00473	00474			
DATALEN	00004	00000024	00948	00455	00455	00455	00456	00457			
DATANAME	00008	0000000C	00943	00466	00466						
DATANEXT	00004	00000000	00941	00443	00443	00443	00444	00445	00480		
DATATYPE	00001	0000002B	00951	00434	00459	00459	00459	00460	00461		
DEBUGBLOK	00001	00000000	01126	00058							
DEBUGCMD	00001	00000004	01128	00060	00076	00078					
DEBUGDATA	00004	00000000	01127	00595							
DEBUGFLAG	00001	000008EC	00661	00066	00068						
DEBUGREPL	00006	0000034A	00261	00318							
DEBUGREPS	00004	0000033E	00257	00195							
DEBUGREPU	00004	0000042A	00316	00287	00293	00299	00305	00311			
DEBUGVERL	00006	00000258	00197	00253							
DEBUGVERS	00004	0000024C	00193	00150							
DEBUGVERU	00004	00000332	00251	00222	00228	00234	00240	00246			
DEBUG0005	00002	000000AE	00075	00067							
DEBUG0030	00006	00000122	00114	00144							
DEBUG0040	00004	000001A4	00148	00112							
DEBUG0050	00006	000001B0	00152	00189							
DEBUG0060	00004	00000436	00322	00259							
DEBUG0070	00006	00000442	00326	00359							
DEBUG0080	00004	000004D6	00363	00324							
DEBUG0090	00006	000004E2	00367	00388							
DEBUG0100	00004	00000538	00387	00385							
DEBUG0110	00004	00000540	00392	00365							
DEBUG0120	00006	0000054C	00396	00425							
DEBUG0130	00004	000005C8	00429	00394							
DEBUG0140	00006	000005D4	00433	00481							
DEBUG0142	00004	000005E8	00438	00435							
DEBUG0150	00004	0000069E	00485	00431							
DEBUG0160	00006	000006AA	00489	00522							
DEBUG0170	00004	00000736	00526	00487							
DEBUG0180	00004	00000746	00534	00386	00528						
DEBUG0190	00006	0000074A	00535	00560							
DEBUG0200	00004	000007C0	00565	00527	00529						
DEBUG0210	00004	000007D6	00570	00581							
DEBUG0220	00006	000007DE	00572	00579							
DEBUG0230	00006	0000080C	00583	00573							
DEBUG0300	00004	0000081E	00590	00077							
DEBUG0310	00004	00000826	00595	00079							
DEBUG1000	00002	00000838	00602	00065							
DEBUGHD	00001	00000982	00674	00631	00676						
DEBUGHDL	00001	00000022	00676	00631							
DISASMDB	00001	00000000	00044	00045	00051	01799					
DISASM00	00001	00000000	01139	00052	01152	01391	01468	01505	01566	01602	
DISDEBUG	00004	00000DC0	00850	00073	00620	00637	00644	00650			
DSCTDSCT	00001	00000000	00968	00364	00974						
DSCTLBA	00004	00000014	00972	00378	00384						
DSCTNAME	00008	0000000C	00971	00377	00377						
DSCTNEXT	00004	00000000	00969	00374	00374	00374	00375	00376	00387		
ESDADDR	00003	00000017	00997	00130	00130	00130	00131	00132			
ESDDATA	00001	00000000	00981	00111	01004						
ESDLEN	00003	0000001B	00999	00137							

SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18							
ESDNAME	00008	0000000E	00985	00124	00124	01000															
ESDNEXT	00004	00000000	00982	00121	00121	00121	00122	00123	00143												
ESDSEG	00001	0000001A	00998	00134	00134	00134	00135	00136													
ESDTYPE	00001	00000016	00986	00126	00126	00126	00127	00128													
EXGETOPC	00006	00000554	01432	01425																	
EXIT0000	00002	00000844	00607	00566	00584	00586	00591	00598													
GETOPEXT	00004	00000546	01428	01421																	
GETOPLN	00001	0000055A	01433	01399																	
GETOPNOT	00004	0000054E	01430	01404	01414	01419	01427														
GETOPTMK	00004	00000526	01420	01405																	
GETOPWRK	00006	0000055E	01434	01424	01424	01426	01432														
HEAD0000	00006	0000088C	00631	00080	00590																
HEXTRT	00001	00000868	01660	01661	01663	01665	01667	01669													
INTTRT	00001	00000968	01671	01672	01674	01676															
LABLDISP	00004	00000014	01015	00548	00548	00548	00549	00550													
LABLDSCT	00001	00000000	01011	00533	01027																
LABLNAME	00008	0000000C	01014	00545	00545																
LABLNEXT	00004	00000000	01012	00542	00542	00542	00543	00544	00559												
LABLSRCE	00001	00000022	01024	00551	00551																
LABLSTMT	00005	0000001C	01017	00556																	
LABLTYPE	00001	00000021	01018	00546	00546																
LABLXREF	00004	00000018	01016	00553	00553	00553	00554	00555													
LINECT	00003	000008F5	00666	00624	00627	00629	00654														
MAINRSV	00004	00000858	01658	01567	01573	01575	01579	01582	01588												
MODENT	00004	00000064	00049	00045																	
MODHEAD	00023	00000005	00047	00046																	
MODSAVE	00004	0000001C	00048	00053																	
NBLTRT	00001	00000B68	01705	01706	01708																
OPDSECT	00001	00000000	01727	01402	01765																
OPFLAGS	00001	00000007	01756	01420																	
OPFLAG1	00001	00000001	01729	01409																	
OPFLAG2	00001	00000002	01730	01411																	
OPFLAG3	00001	00000003	01731	01413																	
OPMASK	00006	00000008	01766	01426																	
OPMNEM	00006	00000000	01728	01729	01730	01731															
OUTCC	00001	000008FD	00670	00113	00151	00196	00260	00325	00366	00395	00432	00488	00534	00567	00621	00625	00628	00628			
				00631	00632	00638	00641	00641	00645	00648	00648	00651	00672								
OUTDATA	00132	000008FE	00671	00084	00086	00087	00088	00090	00091	00092	00094	00095	00096	00101	00103	00104	00105	00114			
				00117	00118	00119	00121	00122	00123	00124	00126	00127	00128	00130	00131	00132	00134	00135			
				00136	00139	00140	00141	00152	00155	00156	00157	00159	00160	00161	00163	00164	00165	00167			
				00168	00169	00171	00172	00173	00175	00176	00177	00179	00180	00181	00182	00184	00185	00186			
				00197	00202	00203	00204	00206	00207	00208	00210	00211	00212	00214	00215	00216	00218	00219			
				00220	00224	00225	00226	00230	00231	00232	00236	00237	00238	00242	00243	00244	00248	00249			
				00250	00261	00262	00267	00268	00269	00271	00272	00273	00275	00276	00277	00279	00280	00281			
				00283	00284	00285	00289	00290	00291	00295	00296	00297	00301	00302	00303	00307	00308	00309			
				00313	00314	00315	00326	00329	00330	00331	00333	00334	00335	00336	00337	00338	00339	00341			
				00342	00343	00345	00346	00347	00349	00350	00351	00354	00355	00356	00367	00370	00371	00372			
				00374	00375	00376	00377	00380	00381	00382	00396	00399	00400	00401	00403	00404	00405	00407			
				00408	00409	00411	00412	00413	00415	00416	00417	00419	00420	00421	00422	00422	00433	00436			
				00439	00440	00441	00443	00444	00445	00447	00448	00449	00451	00452	00453	00455	00456	00457			
				00459	00460	00461	00463	00464	00465	00466	00468	00469	00470	00472	00473	00474	00476	00477			
				00478	00489	00492	00493	00494	00496	00497	00498	00500	00501	00502	00504	00505	00506	00508			
				00509	00510	00512	00513	00514	00517	00518	00519	00535	00538	00539	00540	00542	00543	00544			
				00545	00546	00548	00549	00550	00551	00553	00554	00555	00557	00568	00570	00583	00583	00596			
				00642																	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
PAGECT	00003	000008F2	00665	00634 00635															
PRBASE	00001	00000BF9	00776	00396 00417 00419 00420 00421 00422 00422 00788	00399	00400	00401	00403	00404	00405	00407	00408	00409	00411	00412	00413	00415	00416	
PRBASEL	00001	00000064	00788	00396															
PRBSEBA	00008	00000BF9	00777	00399	00400	00401													
PRBSEBGN	00009	00000C2F	00784	00407	00408	00409													
PRBSEDSP	00009	00000C54	00787	00415	00416	00417													
PRBSEEND	00009	00000C38	00785	00411	00412	00413													
PRBSENXT	00008	00000C07	00780	00403	00404	00405													
PRBSEREG	00001	00000C1A	00782	00419	00420	00421	00422	00422											
PRDATA	00001	00000C5D	00789	00433 00456 00476	00436 00457 00477	00439 00459 00478	00440 00460 00810	00441 00461	00443 00463	00444 00464	00445 00465	00447 00466	00448 00468	00449 00469	00451 00470	00452 00472	00453 00473	00455 00474	
PRDATA1	00001	00000078	00810	00433															
PRDISP	00026	00000DA3	00844	00568	00845														
PRDISPL	00001	0000001A	00845	00568															
PRDSBA	00008	00000BB8	00766	00370	00371	00372													
PRDSCT	00001	00000BB8	00765	00367	00370	00371	00372	00374	00375	00376	00377	00380	00381	00382	00775				
PRDSCTL	00001	00000041	00775	00367															
PRDSLABL	00008	00000BF0	00773	00380	00381	00382													
PRDSNAME	00008	00000BDC	00771	00377															
PRDSNXT	00008	00000BC7	00769	00374	00375	00376													
PRDTABA	00008	00000C5D	00790	00439	00440	00441													
PRDTABGN	00008	00000C7A	00795	00447	00448	00449													
PRDTADC	00005	00000C66	00792	00436															
PRDTAEND	00008	00000C83	00797	00451	00452	00453													
PRDTAILN	00004	00000C9D	00800	00476	00477	00478													
PRDTALBA	00008	00000CC4	00807	00468	00469	00470													
PRDTALBD	00008	00000CCD	00809	00472	00473	00474													
PRDTALEN	00008	00000C94	00799	00455	00456	00457													
PRDTANME	00008	00000CB4	00805	00466															
PRDTANXT	00008	00000C6B	00793	00443	00444	00445													
PRDTASMT	00002	00000CAB	00803	00463	00464	00465													
PRDTATYP	00002	00000CA8	00802	00459	00460	00461													
PRES	00001	00000A04	00691	00114 00135	00117 00136	00118 00139	00119 00140	00121 00141	00122 00707	00123	00124	00126	00127	00128	00130	00131	00132	00134	
PRESADR	00007	00000A41	00701	00130	00131	00132													
PRESDBA	00008	00000A04	00692	00117	00118	00119													
PRES	00001	00000061	00707	00114															
PRESLEN	00007	00000A5D	00705	00139	00140	00141													
PRES	00008	00000A26	00697	00124															
PRES	00008	00000A17	00695	00121	00122	00123													
PRES	00002	00000A52	00703	00134	00135	00136													
PRES	00002	00000A35	00699	00126	00127	00128													
PRINT	00004	000006F0	01618	01514															
PRINT	00001	00000165	01265	01507	01509														
PRINT	00006	000006E6	01615	01612															
PRINT	00004	000006EC	01617	01536	01614														
PRINT	00004	000006FE	01622	01606															
PRINT	00004	00000848	01657	01603	01613	01618	01622	01639	01643										
PRI	00001	000009E2	00686	00101	00103	00104	00105	00690											
PRI	00008	000009FB	00688	00103	00104	00105													
PRI	00001	00000022	00690	00101															
PRL	00001	00000D3B	00826	00535 00555	00538 00557	00539 00843	00540	00542	00543	00544	00545	00546	00548	00549	00550	00551	00553	00554	

DADB				CROSS-REFERENCE													PAGE 26	
SYMBOL	LEN	VALUE	DEFN	REFERENCES													ASM 0201 00.48 07/11/18	
PRLABLL	00001	00000068	00843	00535														
PRLBLBA	00008	00000D3B	00827	00538	00539	00540												
PRLBLDSP	00009	00000D76	00836	00548	00549	00550												
PRLBLNM	00008	00000D5F	00832	00545														
PRLBLNXT	00008	00000D4A	00830	00542	00543	00544												
PRLBLREF	00008	00000D8E	00840	00553	00554	00555												
PRLBLSRC	00001	00000D87	00838	00551														
PRLBLSTM	00006	00000D9C	00842	00557	00557													
PRLBLTYP	00001	00000D6E	00834	00546														
PRREF	00001	00000CD5	00811	00489	00492	00493	00494	00496	00497	00498	00500	00501	00502	00504	00505	00506	00508	00509
				00510	00512	00513	00514	00517	00518	00519	00824							
PRREFAD1	00008	00000D0F	00818	00500	00501	00502												
PRREFAD2	00008	00000D2A	00821	00508	00509	00510												
PRREFBA	00008	00000CD5	00812	00492	00493	00494												
PRREFDSP	00008	00000CFD	00817	00517	00518	00519												
PRREFL	00001	00000066	00824	00489														
PRREFNXT	00008	00000CE2	00815	00496	00497	00498												
PRREF01D	00008	00000D18	00820	00504	00505	00506												
PRREF02D	00008	00000D33	00823	00512	00513	00514												
PRRLD	00001	00000A65	00708	00152	00155	00156	00157	00159	00160	00161	00163	00164	00165	00167	00168	00169	00171	00172
				00173	00175	00176	00177	00179	00180	00181	00182	00184	00185	00186	00728			
PRRLDBA	00008	00000A65	00709	00155	00156	00157												
PRRLDDIR	00001	00000AC8	00724	00182														
PRRLDDSP	00008	00000A87	00714	00163	00164	00165												
PRRLDESD	00008	00000ACF	00726	00184	00185	00186												
PRRLDL	00001	00000073	00728	00152														
PRRLDLEN	00004	00000AA1	00718	00171	00172	00173												
PRRLDNXT	00008	00000A78	00712	00159	00160	00161												
PRRLDPP	00004	00000ABE	00722	00179	00180	00181												
PRRLDPTR	00004	00000AAF	00720	00175	00176	00177												
PRRLDTYP	00002	00000A96	00716	00167	00168	00169												
PRTBLOK	00001	0000070E	01627	01619														
PRTCC	00001	0000070F	01634	01623														
PRTCMD	00001	0000070E	01628	01513	01617	01638												
PRTDATA	00132	00000710	01635	01521	01522	01523	01524	01525	01526	01527	01528	01529	01530	01531	01533	01534	01535	01607
				01615	01624	01624												
PRTL	00001	00000085	00672	00628	00632	00641	00648											
PRTR	00001	000009A4	00677	00084	00086	00087	00088	00090	00091	00092	00094	00095	00096	00685				
PRTRCURR	00008	000009D9	00683	00094	00095	00096												
PRTRL	00001	0000003E	00685	00084														
PRTRLAST	00008	000009C6	00681	00090	00091	00092												
PRTR1ST	00008	000009B6	00679	00086	00087	00088												
PRT0000	00004	0000085C	00620	00097	00106	00142	00187	00251	00316	00357	00383	00423	00479	00520	00558	00569	00580	00585
				00597														
PRT0010	00006	0000087E	00628	00626														
PRUSGBA	00008	00000B43	00745	00329	00330	00331												
PRUSGBGN	00008	00000BA6	00760	00349	00350	00351												
PRUSGBSE	00001	00000B81	00754	00338	00339													
PRUSGDSP	00008	00000B93	00758	00345	00346	00347												
PRUSGEND	00008	00000BAF	00762	00354	00355	00356												
PRUSGFLG	00002	00000B8A	00756	00341	00342	00343												
PRUSGLBL	00008	00000B72	00752	00337														
PRUSGNME	00008	00000B62	00750	00336														
PRUSGNXT	00008	00000B52	00748	00333	00334	00335												
PRUSNG	00001	00000B43	00744	00326	00329	00330	00331	00333	00334	00335	00336	00337	00338	00339	00341	00342	00343	00345

DADB				CROSS-REFERENCE														PAGE 27					
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18					
				00346	00347	00349	00350	00351	00354	00355	00356	00764											
PRUSNGL	00001	00000075	00764	00326																			
PRVERB	00007	00000AEC	00733	00262	00262																		
PRVERBA	00008	00000AD9	00731	00202	00203	00204	00267	00268	00269														
PRVERLEN	00008	00000B02	00735	00214	00215	00216	00279	00280	00281														
PRVERNXT	00008	00000AE2	00732	00206	00207	00208	00271	00272	00273														
PRVEROFF	00008	00000AF6	00734	00210	00211	00212	00275	00276	00277														
PRVERP	00001	00000AD8	00730	00197	00202	00203	00204	00206	00207	00208	00210	00211	00212	00214	00215	00216	00218	00219					
				00220	00224	00225	00226	00230	00231	00232	00236	00237	00238	00242	00243	00244	00248	00249					
				00250	00261	00262	00267	00268	00269	00271	00272	00273	00275	00276	00277	00279	00280	00281					
				00283	00284	00285	00289	00290	00291	00295	00296	00297	00301	00302	00303	00307	00308	00309					
				00313	00314	00315	00742																
PRVERPL	00001	0000006B	00742	00197	00261																		
PRVERTXT	00008	00000B0D	00736	00218	00219	00220	00283	00284	00285														
PRVERTX2	00008	00000B16	00737	00224	00225	00226	00289	00290	00291														
PRVERTX3	00008	00000B1F	00738	00230	00231	00232	00295	00296	00297														
PRVERTX4	00008	00000B28	00739	00236	00237	00238	00301	00302	00303														
PRVERTX5	00008	00000B31	00740	00242	00243	00244	00307	00308	00309														
PRVERTX6	00008	00000B3A	00741	00248	00249	00250	00313	00314	00315														
PUNBLOK	00001	000007B2	01646	01640																			
PUNDATA	00080	000007B4	01652	01637																			
P1	00001	000008F1	00664	00624	00627	00634	00654																
REFDISPI	00004	0000001C	01041	00515																			
REFDISP1	00004	00000014	01039	00504	00504	00504	00505	00506															
REFDISP2	00004	00000018	01040	00512	00512	00512	00513	00514															
REFDSCT	00001	00000000	01034	00486	01044																		
REFNEXT	00004	00000000	01035	00496	00496	00496	00497	00498	00521														
REFOPER1	00004	0000000C	01037	00500	00500	00500	00501	00502															
REFOPER2	00004	00000010	01038	00508	00508	00508	00509	00510															
RLDDATA	00001	00000000	01051	00149	01069																		
RLDDIR	00001	0000001B	01067	00182	00182																		
RLDDISP	00004	00000010	01055	00163	00163	00163	00164	00165															
RLDESD	00004	0000000C	01054	00184	00184	00184	00185	00186															
RLDLEN	00002	00000014	01056	00171	00171	00171	00172	00173															
RLDNEXT	00004	00000000	01052	00159	00159	00159	00160	00161	00188														
RLDPP	00002	00000019	01066	00179	00179	00179	00180	00181															
RLDPTR	00002	00000017	01065	00175	00175	00175	00176	00177															
RLDTYPE	00001	00000016	01057	00167	00167	00167	00168	00169															
R0	00001	00000000	01782	00198	00199	00201	00221	00227	00233	00239	00245	00263	00264	00266	00286	00292	00298	00304					
				00310	01392	01398	01398	01399	01422	01470	01489	01506	01545	01569	01574	01578	01584	01607					
				01608	01610	01613																	
R1	00001	00000001	01783	00057	00571	00579	00595	00596	01394	01408	01428	01430	01432	01469	01471	01475	01475	01476					
				01478	01480	01567	01573	01574	01575	01579	01603	01605	01615	01618	01619	01622	01637	01639					
				01640	01643																		
R10	00001	0000000A	01792	00080	00097	00106	00142	00187	00251	00316	00357	00383	00423	00479	00520	00558	00569	00580					
				00585	00590	00597	00630	00655															
R11	00001	0000000B	01793	00052	01391	01468	01505	01566	01602														
R12	00001	0000000C	01794	00049	00050	00051	00612	01482															
R13	00001	0000000D	01795	00049	00054	00055	00056	00611	00611	00612													
R14	00001	0000000E	01796	00049	00053	00054	00055	00056	00060	00061	00062	00604	00609	00612	00614	01395	01396	01397					
				01399	01406	01406	01408	01410	01412	01413	01415	01415	01416	01417	01428	01429	01431	01483					
				01490	01514	01536	01546	01567	01578	01579	01580	01582	01588	01589	01603	01613	01618	01621					
				01622	01625	01639	01642	01643	01644														
R15	00001	0000000F	01797	00045	00050	00613	00613	00632	00633	00635	01392	01393	01393	01394	01396	01400	01401	01402					
				01403	01403	01417	01418	01418	01430	01470	01489	01506	01545	01576	01576	01577	01582	01588					

SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 00.48 07/11/18					
				01604	01604	01605	01608	01610	01611	01612	01620	01621	01641	01642							
R2	00001	00000002	01784	00570	00574	00575	00576	00577	00577	01407	01407	01409	01410	01411	01412						
R3	00001	00000003	01785	00110	00111	00116	00143	00148	00149	00154	00188	00193	00194	00252	00257	00258	00317	00322			
				00323	00328	00358	00363	00364	00369	00387	00392	00393	00398	00424	00429	00430	00438	00480			
				00485	00486	00491	00521	00565	00572	00574	00578	00578									
R4	00001	00000004	01786	00384	00526	00533	00537	00559	01422	01423	01425										
R5	00001	00000005	01787	01515	01518	01538	01538	01539	01541	01543											
R8	00001	00000008	01790	00386	00528	00561															
R9	00001	00000009	01791	00057	00058																
SYMDATA	00001	00000000	01076	01081																	
TPODA1A	00008	00000017	01550	01523	01523	01524	01524	01525	01525												
TPODA1B	00008	00000020	01551	01526	01526	01527	01527	01528	01528												
TPODA2A	00008	0000002A	01552	01529	01529	01530	01530	01531	01531												
TPODA2B	00008	00000033	01553	01533	01533	01534	01534	01535	01535												
TPOMOD	00008	00000003	01548	01521	01521																
TPOTID	00008	0000000D	01549	01522	01522																
TRACEPEN	00004	00000662	01545	01508	01517	01540															
TRACEPIN	00004	00000646	01538	01516	01520																
TRACEPPR	00004	000005E2	01519	01542	01544																
TRACESHD	00027	00000668	01554	01510	01510	01511															
TRACE000	00002	00000564	01467	00062	00604	00609															
TRACE010	00002	00000580	01479	01477																	
TRACE020	00002	000005A8	01488	01472																	
TRCESAVE	00004	00000808	01656	01392	01428	01430	01470	01489	01506	01545											
TRCURR	00004	000000D4	01193	00094	00094	00094	00095	00096	01471	01480	01515	01539									
TRDATA1	00008	000000E0	01196	00061	01484	01486	01486														
TRDATA2	00008	000000E8	01197	01485	01487	01487															
TREDATA1	00008	00000010	01718	01484	01523	01526															
TREDATA2	00008	00000018	01719	01485	01529	01532															
TREID	00008	00000008	01717	01483	01522																
TREMOD	00008	00000000	01716	01482	01519	01521															
TRENTYR	00001	00000000	01715	01469	01518	01537	01537	01720													
TRENTYRL	00001	00000020	01720	01475	01537	01538															
TRLAST	00004	000000CC	01191	00090	00090	00090	00091	00092	01476	01541											
TRIST	00004	000000C4	01189	00086	00086	00086	00087	00088	01478	01543											
USNGBASE	00001	00000030	01098	00338	00338	00339															
USNGBEGN	00004	00000028	01096	00349	00349	00349	00350	00351													
USNGDISP	00004	00000024	01095	00345	00345	00345	00346	00347													
USNGDSCCT	00001	00000000	01088	00323	01102																
USNGDSNM	00008	0000000C	01091	00336	00336																
USNGEND	00004	0000002C	01097	00352																	
USNGFLAG	00001	00000031	01099	00341	00341	00341	00342	00343													
USNGLBNM	00008	00000014	01092	00337	00337																
USNGNEXT	00004	00000000	01089	00333	00333	00333	00334	00335	00358												
VERPLEN	00004	00000008	01112	00199	00214	00214	00214	00215	00216	00264	00279	00279	00279	00280	00281						
VERPNEXT	00004	00000000	01110	00206	00206	00206	00207	00208	00252	00271	00271	00271	00272	00273	00317						
VERPOFFS	00004	00000004	01111	00210	00210	00210	00211	00212	00275	00275	00275	00276	00277								
VERPSECT	00001	00000000	01109	00194	00258	01115															
VERPTEXT	00064	0000000C	01113	00218	00224	00230	00236	00242	00248	00283	00289	00295	00301	00307	00313						
WORKX	00004	000008ED	00663	00137	00139	00139	00139	00140	00141	00352	00354	00354	00354	00355	00356	00378	00380	00380			
				00380	00381	00382	00515	00517	00517	00517	00518	00519									
XFFFF	00004	000008F8	00667	00572																	

SYMBOL	LEN	VALUE	DEFN	REFERENCES
=C'FILL'	00004	00000E20	00901	00436
=X'D7818785402020202120'				
	00010	00000E24	00902	00633
=C'REPLACE'				
	00007	00000E2E	00903	00262

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	582
TOTAL RECORDS READ FROM SYSTEM LIBRARY	5085
TOTAL RECORDS PUNCHED	69
TOTAL RECORDS PRINTED	1487

ASM 0201 00.48 07/11/18

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DISASMDT  SD  0001 000000 000772
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	*****	00020000
				3	**	** 00030000
				4	** DISASMDT - PROGRAM TO READ DISADATA OUTPUT AND PRODUCE COMPLETE	** 00040000
				5	** SOURCE, WITH OR WITOUT EXPANSION OF MACRO AND COPY CODE	** 00050000
				6	**	** 00060000
				7	** WILL PROCESS OUTPUT AT LEVEL 1 AND 2. NO IDEA WHAT LEVEL 3	** 00070000
				8	** FROM HLASM 5 WILL BE LIKE.	** 00080000
				9	**	** 00090000
				10	**	** 00100000
				11	** INPUT: DD DISADATA - ADATA OUTPUT FROM ASSEMBLER.	** 00110000
				12	**	** 00120000
				13	** OUTPUT: DD DISPRINT - SOURCE, WITH ASSEMBLER OFFSETS, ETC.	** 00130000
				14	**	** 00140000
				15	** DD DISPUNCH - SOURCE IN CARD FORMAT	** 00150000
				16	**	** 00160000
				17	** OPTIONS (SET IN DISASM02):	** 00170000
				18	** ASM - PRINT SOURCE WITH ANNOTATIONS (DEFAULT)	** 00180000
				19	** NOMAC - DO NOT PUNCH MACRO EXPANSIONS (DEFAULT)	** 00190000
				20	** NOCOPY - DO NOT PUNCH COPY INCLUDED CODE (DEFAULT)	** 00200000
				21	** MAC - PUNCH MACRO EXPANSION; COMMENT MACRO INVOCATION	** 00210000
				22	** COPY - PUNCH COPIED CODE; COMMENT COPY STATEMENT	** 00220000
				23	**	** 00230000
				24	** (NOTE THAT A COPY INSIDE AN IN-LINE MACRO, AND A MACRO COPIED	** 00240000
				25	** IN-LINE MAY PRODUCE UNEXPECTED OUTPUT)	** 00250000
				26	**	** 00260000
				27	*****	00270000
				28	**	** 00280000
				29	** ADDED BY GERHARD POSTPISCHIL JUNE 1999	** 00290000
				30	**	** 00300000
				31	*****	00310000
				32	COPY DISASMGB	00320000
				33	* -----	* 00010000
				34	*	* 00020000
				35	* GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				36	*	* 00040000
				37	* DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				38	*	* 00060000
				39	* -----	* 00070000
				40	GBLA &TRNBRG,&MAXL,&MINL	00080000
				41	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				42	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				43	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				44	DISASMDT MODHEAD BASE=(R12) ENTRY HOUSEKEEPING	00330000
000000	47F0 F064	00064		45+	DISASMDT START 0	00070000
000004	17			46+	B MODENT-DISASMDT(,R15) BRANCH AROUND	00100000
000005	C4C9E2C1E2D4C4E3			47+	DC AL1(L'MODHEAD)	00110000
00001C	0000000000000000			48+	MODHEAD DC C'DISASMDT 07/11/18 00.48'	00120000
000064	90EC D00C	0000C		49+	MODSAVE DC 18A(0) SAVE AREA	00130000
000068	18CF			50+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
				51+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				00000	52+	USING	DISASMDT,R12	00330000
				00000	53+	USING	DISASM00,R11	00360000
00006A	41E0	C01C	0001C		54+	LA	R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0	D008	00008		55+	ST	R14,8(,R13) CHAIN DOWN	00380000
000072	50D0	E004	00004		56+	ST	R13,4(,R14) CHAIN UP	00390000
000076	18DE				57+	LR	R13,R14 NEW SAVE AREA	00400000
					58	ITRACE	ID=ENTRY	00340000
000078	45E0	B564	00564		59+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00007C	C5D5E3D9E8404040				60+	DC	CL8'ENTRY' TRACE ID	00670000
000084	9110	B164	00164		61	TM	COMMDD,\$PUNCHDD IS DISPUNCH DD PRESENT?	00350000
000088	47E0	C0AA	000AA		62	BNO	GEN0010 NO	00360000
					63	ITRACE	ID=OPENPNCH	00370000
00008C	45E0	B564	00564		64+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000090	D6D7C5D5D7D5C3C8				65+	DC	CL8'OPENPNCH' TRACE ID	00670000
					66	OPEN	(DISPUNCH,OUTPUT) OPEN DISPUNCH	00380000
000098					67+	CNOP	0,4 ALIGN LIST TO FULLWORD	01740001
000098	4510	C0A0	000A0		68+	BAL	1,*+8 LOAD REG1 W/LIST ADDR.	01780000
00009C	8F				69+	DC	AL1(143) OPTION BYTE	01900000
00009D	00044C				70+	DC	AL3(DISPUNCH) DCB ADDRESS	01920000
0000A0	0A13				71+	SVC	19 ISSUE OPEN SVC	04000000
0000A2	9110	C47C	0047C		72	TM	DCBOFLGS-IHADCB+DISPUNCH,DCBOFOPN	00390000
0000A6	4780	C27A	0027A		73	BZ	ABORTER	00400000
					74	GEN0010	OPEN MF=(E,DCBLIST2) OPEN DISADATA	00410000
0000AA	4110	C448	00448		75+GEN0010	LA	1,DCBLIST2 LOAD PARAMETER REG 1	01900002
0000AE	0A13				76+	SVC	19 ISSUE OPEN SVC	04000000
0000B0	9110	C4DC	004DC		77	TM	DCBOFLGS-IHADCB+DATADCB,DCBOFOPN	00420000
0000B4	4780	C27A	0027A		78	BZ	ABORTER	00430000
0000B8	9140	B166	00166		79	TM	PRINTFG2,\$PFASM PRINT ASSEMBLY TEXT ?	00440000
0000BC	4780	C0DA	000DA		80	BZ	GEN0015 NO	00450000
0000C0	D275	B16D	C5FC 0016D	005FC	81	MVC	COMMSUBH(SUBHEADL),SUBHEAD	00460000
0000C6	4110	0076	00076		82	LA	R1,SUBHEADL SUBHEADING LENGTH	00470000
0000CA	4010	B154	00154		83	STH	R1,COMMSUBL SET LENGTH	00480000
0000CE	92FF	B154	00154		84	MVI	COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	00490000
0000D2	92C8	B70E	0070E		85	MVI	PRTCMD,\$PRTHEAD SET COMMAND	00500000
0000D6	45E0	B6F0	006F0		86	BAL	R14,PRINTDAT PRINT SUBHEADER	00510000
0000DA					87	GEN0015	DS OH	00520000
					89	DATAGET	GET DATADCB GET A RECORD	00540000
0000DA	4110	C4AC	004AC		90+DATAGET	LA	1,DATADCB LOAD PARAMETER REG 1	01900002
0000DE	58F0	1030	00030		91+	L	15,48(0,1) LOAD GET ROUTINE ADDR	00600000
0000E2	05EF				92+	BALR	14,15 LINK TO GET ROUTINE	00625000
0000E4	18A1				93	LR	R10,R1 SAVE IT	00550000
				00000	94	USING	ASMADATA,R10 DECLARE INPUT RECORD	00560000
0000E6	D501	A005	C430 00005	00430	95	CLC	ADRTYP,=Y(ADRECID) SOURCE RECORD?	00570000
0000EC	4770	C0DA	000DA		96	BNE	DATAGET NO; LOOK FOR ANOTHER	00580000
0000F0	4800	A04E	0004E		97	LH	R0,ASSRLEN GET TEXT LENGTH	00590000
0000F4	1200				98	LTR	R0,R0 TEST INPUT LENGTH	00600000
0000F6	4740	C0DA	000DA		99	BM	DATAGET IGNORE IT	00610000
0000FA	9101	B166	00166		101	TM	PRINTFG2,\$PFBUG DEBUG MODE?	00630000
0000FE	4780	C110	00110		102	BZ	NOBUG	00640000
000102	182A				103	LR	R2,R10 COPY RECORD ADDRESS	00650000
000104	1B33				104	SR	R3,R3	00660000
000106	BF33	A000	00000		105	ICM	R3,3,ADLEN GET RECORD LENGTH	00670000
00010A	1B44				106	SR	R4,R4 PROCESS ENTIRE RECORD	00680000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00010C	45E0	C2BA	002BA		107	BAL R14,DUMPLINE DUMP IT	00690000
					109 *	DURING TESTING I FOUND AN ERROR IN THE HIGH-LEVEL ASSEMBLER (R2.0).	00710000
					110 *	THE 'PRIMARY INPUT' FLAG (01) IS SET TO COPY (03) WHEN THE	00720000
					111 *	INPUT COMES FROM A PDS MEMBER. THE PARENT ORIGIN NUMBER IS	00730000
					112 *	CORRECT, SO WE TEST AND FIX HERE:	00740000
000110	9503	A024	00024		113 NOBUG	CLI ASRCORG,ASRCOMA COPY ?	00750000
000114	4770	C124	00124		114	BNE NOT03ERR NO; SHOULD BE CORRECT?	00760000
000118	9500	A025	00025		115	CLI ASPRORG,0 UNREAL COPY?	00770000
00011C	4770	C124	00124		116	BNE NOT03ERR NO; MAY BE REAL COPY?	00780000
000120	9201	A024	00024		117	MVI ASRCORG,ASRCOPI FIX IT	00790000
000124	41E0	A058	00058		118 NOT03ERR	LA R14,ASRTEXT POINT TO NAME FIELD	00800000
000128	1FFF				119	SLR R15,R15	00810000
00012A	BFF3	A04A	0004A		120	ICM R15,3,ASMCLN GET AND TEST LENGTH OF COPY/MACRO	00820000
00012E	4770	C142	00142		121	BNZ MEMCOPY COPY/MACRO NAME	00830000
000132	BFF3	A04C	0004C		122	ICM R15,3,ASPTLEN ELSE GET REAL MEMBER	00840000
000136	4770	C142	00142		123	BNZ MEMCOPY SOURCE MEMBER	00850000
00013A	41F0	0008	00008		124	LA R15,L'COMMCSNM SET INPUT TO DEFAULT	00860000
00013E	41E0	B14C	0014C		125	LA R14,COMMCSNM DEFAULT - POINT TO CURRENT MEMBER	00870000
000142	4BF0	C432	00432		126 MEMCOPY	SH R15,=H'1' MAKE EXECUTE LENGTH	00880000
000146	4740	C14E	0014E		127	BM MEMNCOPY OOPS - LEAVE BLANK	00890000
00014A	44F0	C274	00274		128	EX R15,EXMVCMEM MOVE NAME TO OUTPUT	00900000
00014E	4120	A058	00058		129 MEMNCOPY	LA R2,ASRTEXT POINT TO START OF MIXED RECORD	00910000
000152	4A20	A04A	0004A		130	AH R2,ASMCLN SKIP OVER NAME	00920000
000156	955C	2000	00000		131	CLI O(R2),C'*' COMMENTS ?	00930000
00015A	4780	C162	00162		132	BE MEMNPNAM YES; ANOTHER ASM ERROR	00940000
00015E	4A20	A04C	0004C		133	AH R2,ASPTLEN SKIP PARENT NAME, TOO	00950000
000162	41E0	B72E	0072E		134 MEMNPNAM	LA R14,OUTCARD CARD IMAGE DESTINATION	00960000
000166	41F0	0050	00050		135	LA R15,L'OUTCARD	00970000
00016A	4830	A000	00000		136	LH R3,ADLEN SOURCE LENGTH	00980000
00016E	BF38	B225	00225		137	ICM R3,8,COMMBLKS REQUEST BLANK FILL	00990000
000172	0EE2				138	MVCL R14,R2	01000000
					140 *	NOW PROCESS BY TYPE	01020000
					141 *	REC_ORG PAR_ORG TYPE MACH	01030000
					142 *	01 00 03 0C COPY REQUEST	01040000
					143 *	01 04 00 MACRO INVOCATION	01050000
					144 *	01 00 05 00 MACRO PROTOTYPE (IN-LINE)	01060000
					145 *	01 SOURCE RECORD	01070000
					146 *	02 00 SYMBOL SUBSTITUTION	01080000
					147 *	02 >0 MACRO EXPANSION	01090000
					148 *	02 01 SEQ.FLD 01-N EXPANSION OF IN-LINE MACRO	01100000
					149 *	03 COPIED CODE	01110000
000174	9503	A024	00024		150	CLI ASRCORG,ASRCOMA MACRO OR LIBMAC COPY?	01120000
000178	47B0	C1EC	001EC		151	BNL GOCOPY YES	01130000
00017C	9502	A024	00024		152	CLI ASRCORG,ASRCOMG GENERATED?	01140000
000180	4780	C1D0	001D0		153	BE GOMACRO	01150000
					154 *	PRIMARY INPUT.	01160000
					155 *		01170000
000184	D501	A029	C434	00029	00434	156 CLC ASRTYPE(2),=AL1(ASRTASM,12) COPY?	01180000
00018A	4780	C1B0	001B0		157	BE ORG01COP YES	01190000
00018E	D501	A029	C436	00029	00436	158 CLC ASRTYPE(2),=AL1(ASRTASM,51) LITERAL?	01200000
000194	4780	C20C	0020C		159	BE GOPRINT YES; PRINT IT ONLY	01210000
000198	D501	A029	C438	00029	00438	160 CLC ASRTYPE(2),=AL1(ASRCOMAR,0) MACRO?	01220000
00019E	4780	C1BC	001BC		161	BE ORG01MAC YES	01230000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001A2	D501	A029	C43A	00029	0043A	162	CLC ASRTYPE(2),=AL1(ASRCOMAD,0) INLINE?	01240000
0001A8	4780	C1CC		001CC		163	BE ORG01INL YES	01250000
0001AC	47F0	C200		00200		164	B GOPUNCH NOTHING ELSE SPECIAL - PROCESS	01260000
0001B0	9140	B167		00167		166	ORG01COP TM PRINTFG3,\$PFCOPY EXPAND COPY OUTPUT?	01280000
0001B4	4780	C200		00200		167	BZ GOPUNCH NO; PUNCH AND PRINT THE COPY STATEMENT	01290000
0001B8	47F0	C1C4		001C4		168	B ORG01COM MAKE COMMENT; THEN PRINT	01300000
0001BC	9180	B167		00167		170	ORG01MAC TM PRINTFG3,\$PFMAC EXPAND MACRO OUTPUT?	01320000
0001C0	4780	C200		00200		171	BZ GOPUNCH NO; PUNCH AND PRINT THE MACRO	01330000
						172	*FAILS* CLC =H'0',ASINPNO REQUEST FOR IN-LINE MACRO?	01340000
						173	*FAILS* BE GOPUNCH YES; RETAIN AND SKIP EXPANSION	01350000
0001C4	925C	B72E		0072E		174	ORG01COM MVI OUTCARD,C'*' PRINT AS COMMENT	01360000
0001C8	47F0	C200		00200		175	B GOPUNCH PUNCH AND PRINT AS COMMENT	01370000
						177	* LATER DECIDE HOW TO HANDLE IN-LINE MACRO DEFINITION CONTAINING	01390000
						178	* A COPY (TRACK MACRO/MEND PAIRS)	01400000
0001CC	47F0	C200		00200		179	ORG01INL B GOPUNCH NOTHING ELSE SPECIAL - PROCESS	01410000
						181	* EXPANSION RECORD (MACRO OR SUBSTITUTION)	01430000
						182	*	01440000
0001D0	9250	B72D		0072D		183	GOMACRO MVI OUTIND,C'&&' FLAG AS SUBSTITUTION RECORD	01450000
0001D4	9500	A025		00025		184	CLI ASPRORG,0 SUBSTITUTION RECORD?	01460000
0001D8	4780	C20C		0020C		185	BE GOPRINT YES; NEVER PUNCH	01470000
0001DC	924E	B72D		0072D		186	MVI OUTIND,C'+' FLAG AS MACRO EXPANSION	01480000
						187	*DEFER* CLC =C'01-',OUTCARD+72 POSSIBLE IN-LINE EXPANSION?	01490000
						188	*DEFER* BNE ORG02MAC NO; TEST	01500000
						189	*DEFER* CLI OUTCARD+72+3,C'0' NUMERIC 'MACRO' NAME?	01510000
						190	*DEFER* BNL GOPRINT YES; DON'T EXPAND	01520000
0001E0	9180	B167		00167		191	ORG02MAC TM PRINTFG3,\$PFMAC EXPAND MACROS?	01530000
0001E4	4780	C20C		0020C		192	BZ GOPRINT NO; ONLY PRINT	01540000
0001E8	47F0	C200		00200		193	B GOPUNCH ELSE PUNCH AND PRINT	01550000
						195	* COPIED RECORD	01570000
						196	*	01580000
0001EC	92C3	B72D		0072D		197	GOCOPY MVI OUTIND,C'C' FLAG AS COPY	01590000
0001F0	9501	A025		00025		198	CLI ASPRORG,1 IN-LINE MACRO WITH COPY?	01600000
						199	* DON'T KNOW HOW TO TEST THIS, YET.	01610000
0001F4	9140	B167		00167		200	ORG02COP TM PRINTFG3,\$PFCOPY EXPAND COPY CODE?	01620000
0001F8	4780	C20C		0020C		201	BZ GOPRINT NO; ONLY PRINT	01630000
0001FC	47F0	C200		00200		202	B GOPUNCH ELSE PUNCH AND PRINT	01640000
000200	4590	C3F8		003F8		204	GOPUNCH BAL R9,PUNCH000 PUNCH A CARD IMAGE	01660000
000204	9140	B166		00166		205	TM PRINTFG2,\$PFASM LIST ASSEMBLY CODE?	01670000
000208	4780	C26C		0026C		206	BZ DATACLR NO	01680000
00020C	BF0F	A020		00020		207	GOPRINT ICM R0,15,ASLOCTR LOCATION COUNTER	01690000
000210	4590	C3D6		003D6		208	BAL R9,HEX2EBC MAKE PRINTABLE	01700000
000214	D207	B710	C553	00710	00553	209	MVC OUTLCTR,HEXEDOUT SHOW LOCATION COUNTER	01710000
00021A	BF0C	A024		00024		210	ICM R0,12,ASRCORG GET REC/PARENT ORIGIN	01720000
00021E	4590	C3D6		003D6		211	BAL R9,HEX2EBC MAKE PRINTABLE	01730000
000222	D201	B719	C553	00719	00553	212	MVC OUTRORG,HEXEDOUT SHOW RECORD ORG	01740000
000228	D201	B71C	C555	0071C	00555	213	MVC OUTPORG,HEXEDOUT+2 AND PARENT ORG	01750000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
00022E	BF0E	A029	00029		214	ICM	R0,14,ASRTYPE GET TYPE/OPCD/FLAGS	01760000	
000232	4590	C3D6	003D6		215	BAL	R9,HEX2EBC CONVERT	01770000	
000236	D201	B71F	C553	0071F	00553	216	MVC	OUTRTYP,HEXEDOUT RECORD TYPE	01780000
00023C	D201	B722	C555	00722	00555	217	MVC	OUTMTYP,HEXEDOUT+2 MACHINE CODE TYPE	01790000
000242	D201	B725	C557	00725	00557	218	MVC	OUTFLGS,HEXEDOUT+4 FLAGS	01800000
000248	BF0F	A00C	0000C		219	ICM	R0,15,ASSTMT STATEMENT NUMBER	01810000	
00024C	4E00	B000	00000		220	CVD	R0,COMMDWRD	01820000	
000250	D204	B728	C43C	00728	0043C	221	MVC	OUTSTMT,=X'2020202120'	01830000
000256	DE05	B727	B005	00727	00005	222	ED	OUTSTMT-1(L'OUTSTMT+1),COMMDWRD+5	01840000
00025C	BF0F	A01E	0001E		223	ICM	R0,15,ASINPNO GET REC/PARENT FILE #	01850000	
000260	4590	C3D6	003D6		224	BAL	R9,HEX2EBC MAKE PRINTABLE	01860000	
					225	*DEBUG* MVC	OUTRLF,HEXEDOUT SHOW FILE #S	01870000	
000264	4590	C412	00412		226	BAL	R9,PRT0000 AND PRINT IT	01880000	
000268	47F0	C0DA	000DA		227	B	DATAGET GET NEXT RECORD	01890000	
00026C	4590	C426	00426		228	DATACLR BAL	R9,PRTCLEAR CLEAR PRINT LINE	01900000	
000270	47F0	C0DA	000DA		229	B	DATAGET GET NEXT RECORD	01910000	
000274	D200	B780	E000	00780	00000	230	EXMVCMEM MVC	OUTMEM(0),0(R14) MOVE COPY/MACRO/SOURCE NAME	01920000
00027A	4110	C55C	0055C		232	ABORTER LA	R1,MSG01	01940000	
00027E	47F0	C28E	0028E		233	B	EXIT0010	01950000	
000282	9102	C54E	0054E		234	EODAD TM	LOCFLAG,\$PFHAVE DID WE FIND ANYTHING?	01960000	
000286	4770	C296	00296		235	BNZ	EXIT0020 YES	01970000	
00028A	4110	C58D	0058D		236	LA	R1,MSG02	01980000	
00028E	45E0	B6BE	006BE		237	EXIT0010 BAL	R14,PRINTMSG ISSUE ERROR MESSAGE	01990000	
000292	96C0	B163	00163		238	OI	COMMFLAG,\$ABORT+\$ERROR SET FLAGS	02000000	
					239	EXIT0020 CLOSE	MF=(E,DCBLIST) CLOSE OUTPUT DCBS	02010000	
000296	4110	C444	00444		240+	EXIT0020 LA	1,DCBLIST LOAD PARAMETER REG 1	01900002	
00029A	0A14				241+	SVC	20 ISSUE CLOSE SVC	01640000	
					243		ITRACE ID=EXIT	02030000	
00029C	45E0	B564	00564		244+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000	
0002A0	C5E7C9E340404040				245+	DC	CL8'EXIT' TRACE ID	00670000	
0002A8	48F0	C54C	0054C		246	LH	R15,CONDCODE GET RETURN CODE	02040000	
0002AC	58D0	D004	00004		247	L	R13,4(,R13) RESTORE REGISTER 13	02050000	
0002B0	58E0	D00C	0000C		248	L	R14,12(,R13) RESTORE RETURN	02060000	
0002B4	980C	D014	00014		249	LM	R0,R12,20(R13) RESTORE OTHER REGISTERS	02070000	
0002B8	07FE				250	BR	R14 RETURN TO CALLER	02080000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					252	*****	02100000
					253	*	* 02110000
					254	* DUMPLINE FORMAT HEX DATA LINE	* 02120000
					255	* R2 : START ADDRESS R3: LENGTH R4: MAX TO DUMP	* 02130000
					256	*	* 02140000
					257	*****	02150000
0002BA	900F	C50C	0050C		259	DUMPLINE STM R0,R15,DUMPSAVE SAVE REGISTERS	02170000
0002BE	92F0	B70F	0070F		260	MVI PRTDATA-1,C'0' SET TO DOUBLE SPACE	02180000
0002C2	1244				261	LTR R4,R4 DID USER SPECIFY ANY DUMP LIMIT?	02190000
0002C4	4720	C2CA	002CA		262	BP *+6 YES; HONOR IT	02200000
0002C8	0640				263	BCTR R4,0 ELSE LET IT RUN	02210000
0002CA	1B77				264	SR R7,R7 OFFSET FROM START	02220000
0002CC	1802				265	LR R0,R2 COPY FOR CONVERSION	02230000
0002CE	4590	C3D6	003D6		266	BAL R9,HEX2EBC CONVERT	02240000
0002D2	D207	B716	C553	00716	00553	267 MVC PLDISP-3(8),HEXEDOUT SHOW ADDRESS	02250000
0002D8	1803				268	LR R0,R3 COPY FOR CONVERSION	02260000
0002DA	4590	C3D6	003D6		269	BAL R9,HEX2EBC CONVERT	02270000
0002DE	D207	B71F	C553	0071F	00553	270 MVC PLDISP+6(8),HEXEDOUT SHOW LENGTH	02280000
0002E4	9261	B71E	0071E		271	MVI PLDISP+5,C'/' FLAG LENGTH	02290000
0002E8	1233				272	LTR R3,R3 ANY LENGTH?	02300000
0002EA	47D0	C3AE	003AE		273	BNP DUMPLINX NO; QUIT	02310000
0002EE	41E0	0020	00020		274	DMPLLINE LA R14,32 TEXT SIZE	02320000
					275	MIN R14,(R3) BUT NOT MORE THAN WE HAVE	02330000
0002F2	19E3				276+	CR R14,R3	00200000
0002F4	47D0	C2FA	002FA		277+	BNH ZZZZ15	00210000
0002F8	18E3				278+	LR R14,R3	00220000
0002FA					279+	ZZZZ15 DS OH	00290000
0002FA	06E0				280	BCTR R14,0 ADJUST FOR EXECUTE	02340000
0002FC	44E0	C3CA	003CA		281	EX R14,DMPEXTXT MOVE TEXT	02350000
000300	44E0	C3D0	003D0		282	EX R14,DMPEXTRN MAKE THEM PRINTABLE	02360000
000304	925C	B772	00772		283	MVI PRTDATA+98,C'*'	02370000
000308	925C	B793	00793		284	MVI PRTDATA+131,C'*'	02380000
00030C	4180	B729	00729		285	LA R8,PLINST-3 POINT TO FIRST AVAILABLE SPACE	02390000
000310	4150	0002	00002		286	LA R5,2 TWO SETS PER LINE	02400000
000314	4190	0004	00004		287	DMPLGRUP LA R9,4 SET FOR 4 WORDS PER LINE	02410000
000318	4100	0004	00004		288	DMPLWORD LA R0,4 CHARACTERS PER GROUP	02420000
00031C	18E3				289	DMPLBYTE LR R14,R3 COPY RESIDUAL LENGTH	02430000
					290	MIN R14,(R0) BUT NOT MORE THAN 4	02440000
00031E	19E0				291+	CR R14,R0	00200000
000320	47D0	C326	00326		292+	BNH ZZZZ16	00210000
000324	18E0				293+	LR R14,R0	00220000
000326					294+	ZZZZ16 DS OH	00290000
000326	18FE				295	LR R15,R14 SAVE LENGTH	02450000
000328	06F0				296	BCTR R15,0 EXECUTE LENGTH	02460000
00032A	44F0	C3B8	003B8		297	EX R15,DMPLEXMV MOVE TO WORK AREA	02470000
00032E	181E				298	LR R1,R14 GET LENGTH BACK	02480000
000330	89E0	0005	00005		299	SLL R14,5 MAKE OUTPUT LENGTH	02490000
000334	16E1				300	OR R14,R1 UNPACK LENGTH; OUT+1; IN+1	02500000
000336	44E0	C3BE	003BE		301	EX R14,DMPLEXUN UNPACK	02510000
00033A	88E0	0004	00004		302	SRL R14,4 MAKE DOUBLED LENGTH	02520000
00033E	44E0	C3C4	003C4		303	EX R14,DMPLEXTR MAKE PRINTABLE	02530000
000342	1A8E				304	AR R8,R14 FIRST UNUSED BYTE	02540000
000344	9240	8000	00000		305	MVI 0(R8),C' ' CLEAN IT	02550000
000348	4180	8001	00001		306	LA R8,1(,R8) NEXT OUTPUT	02560000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18	
00034C	1A21				307	AR	R2,R1	NEXT INPUT 02570000	
00034E	1A71				308	AR	R7,R1	SET NEW OFFSET 02580000	
000350	1B31				309	SR	R3,R1	RESIDUAL OUTPUT LENGTH 02590000	
000352	47D0	C3AE	003AE		310	BNP	DUMPLINX	NO MORE; RETURN 02600000	
000356	4690	C318	00318		311	BCT	R9,DMPLWORD	DO NEXT WORD 02610000	
00035A	4180	8001	00001		312	LA	R8,1(,R8)	EXTRA GAP 02620000	
00035E	4650	C314	00314		313	BCT	R5,DMPLGRUP	02630000	
000362	1574				315	CLR	R7,R4	DID ENOUGH ? 02650000	
000364	47B0	C3AE	003AE		316	BNL	DUMPLINX	YES; QUIT NOW 02660000	
000368	1233				317	LTR	R3,R3	ANY MORE TO DO? 02670000	
00036A	47D0	C3AE	003AE		318	BNP	DUMPLINX	NO; GET OUT 02680000	
00036E	4590	C412	00412		319	BAL	R9,PRT0000	WRITE THIS LINE AND CLEAR IT 02690000	
000372	1802				320	LR	R0,R2	COPY FOR CONVERSION 02700000	
000374	4590	C3D6	003D6		321	BAL	R9,HEX2EBC	CONVERT 02710000	
000378	D207	B716	C553	00716	00553	MVC	PLDISP-3(8),HEXEDOUT	SHOW ADDRESS 02720000	
00037E	1807				323	LR	R0,R7	COPY FOR CONVERSION 02730000	
000380	4590	C3D6	003D6		324	BAL	R9,HEX2EBC	CONVERT 02740000	
000384	D207	B71F	C553	0071F	00553	MVC	PLDISP+6(8),HEXEDOUT	SHOW LENGTH 02750000	
00038A	41E0	B71E	0071E		326	LA	R14,PLDISP+5	LOCATION FOR OFFSET PLUS 02760000	
00038E	41F0	0007	00007		327	LA	R15,7	DON'T DO TOO MUCH 02770000	
000392	95F0	E001	00001		328	DMPLZLOP	CLI	1(R14),C'0' LEADING ZERO? 02780000	
000396	4770	C3A6	003A6		329	BNE	DMPLZPUT	NO 02790000	
00039A	9240	E001	00001		330	MVI	1(R14),C' '	BLANK IT 02800000	
00039E	41E0	E001	00001		331	LA	R14,1(,R14)	02810000	
0003A2	46F0	C392	00392		332	BCT	R15,DMPLZLOP	DO PRIOR 02820000	
0003A6	924E	E000	00000		333	DMPLZPUT	MVI	0(R14),C'+' PRETTIFY 02830000	
0003AA	47F0	C2EE	002EE		334	B	DMPLLINE	FORMAT CONTINUATION LINE 02840000	
0003AE	4590	C412	00412		336	DUMPLINX	BAL	R9,PRT0000	WRITE THIS LINE AND CLEAR IT 02860000
0003B2	980F	C50C	0050C		337	LM	R0,R15,DUMPSAVE	RESTORE USER'S REGISTERS 02870000	
0003B6	07FE				338	BR	R14	RETURN TO CALLER 02880000	
0003B8	D200	C54F	2000	0054F	00000	DMPLEXMV	MVC	HEXEDIN(0),0(R2)	MOVE EXACT LENGTH TO AVOID 0C4 02900000
0003BE	F300	8000	C54F	00000	0054F	DMPLEXUN	UNPK	0(0,R8),HEXEDIN(0)	UNPACK +1 EXTRA 02910000
0003C4	DC00	8000	C2F8	00000	002F8	DMPLEXTR	TR	0(0,R8),HEXTRTAB	MAKE PRINTABLE CHARACTERS 02920000
0003CA	D200	B773	2000	00773	00000	DMPEXTXT	MVC	PRTDATA+99(0),0(R2)	MOVE USER'S DATA 02930000
0003D0	DC00	B773	C672	00773	00672	DMPEXTRN	TR	PRTDATA+99(0),CHARPRT	MAKE PRINTABLE 02940000
0003D6	BE0F	C54F	0054F		346	HEX2EBC	STCM	R0,15,HEXEDIN	STORE INPUT 02960000
0003DA	F384	C553	C54F	00553	0054F		UNPK	HEXEDOUT(L'HEXEDOUT+1),HEXEDIN(L'HEXEDIN+1)	02970000
0003E0	DC07	C553	C2F8	00553	002F8		TR	HEXEDOUT,HEXTRTAB	02980000
0003E6	07F9				349		BR	R9	RETURN TO CALLER 02990000
0003E8	F0F1F2F3F4F5F6F7				350	HEXTAB	DC	C'0123456789ABCDEF'	03000000
				002F8	351	HEXTRTAB	EQU	HEXTAB-C'0'	03010000
					353	*****			03030000
					354	**			** 03040000
					355	** PUNCH OUTPUT (WHEN DISPUNCH DD PRESENT)			** 03050000
					356	**			** 03060000
					357	*****			03070000
0003F8	9602	C54E	0054E		358	PUNCH000	OI	LOCFLAG,\$PFHAVE	SHOW THAT WE PRODUCED SOMETHING 03080000
0003FC	9110	B164	00164		359		TM	COMMDD,\$PUNCHDD	IS DISPUNCH DD PRESENT? 03090000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000400	07E9				360	BNOR	R9 NO	03100000
					361	PUT	DISPUNCH,OUTCARD PUNCH SOURCE STATEMENT	03110000
000402	4110	C44C	0044C		362+	LA	1,DISPUNCH LOAD PARAMETER REG 1	01900002
000406	4100	B72E	0072E		363+	LA	0,OUTCARD LOAD PARAMETER REG 0	02500002
00040A	58F0	1030	00030		364+	L	15,48(0,1) LOAD PUT ROUTINE ADDR	00550000
00040E	05EF				365+	BALR	14,15 LINK TO PUT ROUTINE	00600000
000410	07F9				366	BR	R9 RETURN	03120000
					368	*****		03140000
					369	**		03150000
					370	** PRINT OUTPUT (WHEN WANTED)		03160000
					371	**		03170000
					372	** PRT0000 PRINT THE CURRENT PRINT LINE AS IS		03180000
					373	**		03190000
					374	*****		03200000
000412	41F0	B6EC	006EC		376	PRT0000 LA	R15,PRINTREC SET TO PRINT AND CLEAR RECORD	03220000
000416	9140	B163	00163		377	TM	COMMFLAG,\$ERROR ERROR MESSAGE?	03230000
00041A	4770	C42A	0042A		378	BNZ	PRT0010 YES; PRINT IT	03240000
00041E	9140	B166	00166		379	TM	PRINTFG2,\$PFASM PRINT ASSEMBLY OUTPUT?	03250000
000422	4770	C42A	0042A		380	BNZ	PRT0010 YES	03260000
000426	41F0	B702	00702		381	PRTCLEAR LA	R15,PRINTCLR SET TO CLEAR PRINT LINE	03270000
00042A	05EF				382	PRT0010 BALR	R14,R15 PRINT & CLEAR, OR JUST CLEAR	03280000
00042C	07F9				383	BR	R9 RETURN	03290000
000430					385	LTORG	,	03310000
000430	0030				386		=Y(ADRECID)	
000432	0001				387		=H'1'	
000434	030C				388		=AL1(ASRTASM,12)	
000436	0333				389		=AL1(ASRTASM,51)	
000438	0400				390		=AL1(ASRCOMAR,0)	
00043A	0500				391		=AL1(ASRCOMAD,0)	
00043C	2020202120				392		=X'2020202120'	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
					394	DCBLIST	OPEN (DISPUNCH,OUTPUT,DATADCB,(INPUT,REREAD)),MF=L				03330000
000441	000000										
000444					395+	DCBLIST	DC OF'0'	ALIGN LIST TO FULLWORD			00480001
000444	0F				396+		DC AL1(15)	OPTION BYTE			01500000
000445	00044C				397+		DC AL3(DISPUNCH)	DCB ADDRESS			01620001
000448	90				398+		DC AL1(144)	OPTION BYTE			01500000
000449	0004AC				399+		DC AL3(DATADCB)	DCB ADDRESS			01620001
				00448	400	DCBLIST2	EQU DCBLIST+4,4,C'A'				03340000
					401	DISPUNCH	DCB DDNAME=DISPUNCH,DSORG=PS,MACRF=PM,RECFM=FB,LRECL=80				03350000
					403+*			DATA CONTROL BLOCK			22770000
					404+*						22860000
00044C					405+	DISPUNCH	DC OF'0'	ORIGIN ON WORD BOUNDARY			22914000
					407+*			DIRECT ACCESS DEVICE INTERFACE			27360000
00044C	000000000000000000				409+		DC BL16'0'	FDAD,DVTBL			27540000
00045C	00000000				410+		DC A(0)	KEYLE,DEVT,TRBAL			27720000
					412+*			COMMON ACCESS METHOD INTERFACE			48690000
000460	00				414+		DC AL1(0)	BUFNO			49050000
000461	000001				415+		DC AL3(1)	BUFCB			54720000
000464	0000				416+		DC AL2(0)	BUFL			55170000
000466	4000				417+		DC BL2'0100000000000000'				*55800000
					+			DSORG			55890000
000468	00000001				418+		DC A(1)	IOBAD			56340000
					420+*			FOUNDATION EXTENSION			56610000
00046C	00				422+		DC BL1'00000000'	BFTEK,BFLN,HIARCHY			59850000
00046D	000001				423+		DC AL3(1)	EODAD			65970000
000470	90				424+		DC BL1'10010000'				*66150000
					+			RECFM			66240000
000471	000000				425+		DC AL3(0)	EXLST			66330000
					427+*			FOUNDATION BLOCK			66690000
000474	C4C9E2D7E4D5C3C8				429+		DC CL8'DISPUNCH'	DDNAME			66870000
00047C	02				430+		DC BL1'00000010'	OFLGS			68220000
00047D	00				431+		DC BL1'00000000'		IFLG		68310000
00047E	0050				432+		DC BL2'0000000001010000'				*68400000
					+						*68490000
					+			MACR			68580000
					434+*			BSAM-BPAM-QSAM INTERFACE			74430000
000480	00				436+		DC BL1'00000000'				*74610000
					+					RER1	74700000
000481	000001				437+		DC AL3(1)	CHECK, GERR, PERR			74790000
000484	00000001				438+		DC A(1)	SYNAD			74880000
000488	0000				439+		DC H'0'	CIND1, CIND2			74970000
00048A	0000				440+		DC AL2(0)	BLKSIZE			75240000
00048C	00000000				441+		DC F'0'	WCPO, WCPL, OFFSR, OFFSW			75870000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000490	00000001			442+	DC	A(1) IOBA	75960000
000494	00			443+	DC	AL1(0) NCP	76050000
000495	000001			444+	DC	AL3(1) EOBR, EOBAD	76140000
				446+*		QSAM INTERFACE	81450000
000498	00000001			448+	DC	A(1) RECAD	81630000
00049C	0000			449+	DC	H'0' QSWs	81810000
00049E	0050			450+	DC	AL2(80) LRECL	80730000
0004A0	00			451+	DC	BL1'00000000' EROPT	82530000
0004A1	000001			452+	DC	AL3(1) CNTRL	82620000
0004A4	00000000			453+	DC	F'0' PRECL	82710000
0004A8	00000001			454+	DC	A(1) EOB	82800000
				455	DATADCB DCB	DDNAME=DISADATA,DSORG=PS,MACRF=GL,EODAD=EODAD	03360000
				457+*		DATA CONTROL BLOCK	22770000
				458+*			22860000
0004AC				459+	DATADCB DC	OF'0' ORIGIN ON WORD BOUNDARY	22914000
				461+*		DIRECT ACCESS DEVICE INTERFACE	27360000
0004AC	000000000000000000			463+	DC	BL16'0' FDAD,DVTBL	27540000
0004BC	00000000			464+	DC	A(0) KEYLE,DEVT,TRBAL	27720000
				466+*		COMMON ACCESS METHOD INTERFACE	48690000
0004C0	00			468+	DC	AL1(0) BUFNO	49050000
0004C1	000001			469+	DC	AL3(1) BUFCB	54720000
0004C4	0000			470+	DC	AL2(0) BUFL	55170000
0004C6	4000			471+	DC	BL2'0100000000000000' DSORG	*55800000
				+			55890000
0004C8	00000001			472+	DC	A(1) IOBAD	56340000
				474+*		FOUNDATION EXTENSION	56610000
0004CC	00			476+	DC	BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
0004CD	000282			477+	DC	AL3(EODAD) EODAD	65970000
0004D0	00			478+	DC	BL1'00000000'	*66150000
				+		RECFM	66240000
0004D1	000000			479+	DC	AL3(0) EXLST	66330000
				481+*		FOUNDATION BLOCK	66690000
0004D4	C4C9E2C1C4C1E3C1			483+	DC	CL8'DISADATA' DDNAME	66870000
0004DC	02			484+	DC	BL1'00000010' OFLGS	68220000
0004DD	00			485+	DC	BL1'00000000' IFLG	68310000
0004DE	4800			486+	DC	BL2'0100100000000000'	*68400000
				+			*68490000
				+		MACR	68580000
				488+*		BSAM-BPAM-QSAM INTERFACE	74430000
0004E0	00			490+	DC	BL1'00000000'	*74610000
				+			RER1 74700000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0004E1	000001			491+	DC	AL3(1) CHECK, GERR, PERR	74790000
0004E4	00000001			492+	DC	A(1) SYNAD	74880000
0004E8	0000			493+	DC	H'0' CIND1, CIND2	74970000
0004EA	0000			494+	DC	AL2(0) BLKSIZE	75240000
0004EC	00000000			495+	DC	F'0' WCPO, WCPL, OFFSR, OFFSW	75870000
0004F0	00000001			496+	DC	A(1) IOBA	75960000
0004F4	00			497+	DC	AL1(0) NCP	76050000
0004F5	000001			498+	DC	AL3(1) EOBR, EOBA	76140000
				500+*		QSAM INTERFACE	81450000
0004F8	00000001			502+	DC	A(1) RECAD	81630000
0004FC	0000			503+	DC	H'0' QSW	81810000
0004FE	0000			504+	DC	AL2(0) LRECL	80730000
000500	00			505+	DC	BL1'00000000' EROPT	82530000
000501	000001			506+	DC	AL3(1) CNTRL	82620000
000504	00000000			507+	DC	F'0' PRECL	82710000
000508	00000001			508+	DC	A(1) EOB	82800000
00050C				510	DUMPSAVE DS	16A DUMPLINE SAVE AREA	03380000
00054C	0000			511	CONDCODE DC	H'0' CONDITION CODE	03390000
00054E	00			512	LOCFLAG DC	X'00'	03400000
		00002		513	\$PFHAVE EQU	X'02' OUTPUT RECORD PROCESSED	03410000
00054F	40404040			514	HEXEDIN DC	CL4' ' HEX INPUT	03420000
000553	4040404040404040			515	HEXEDOUT DC	CL8' ',C' ' HEX OUTPUT + EXTRA	03430000
00055C	30			517	EMSG01 DC	AL1(L'EMSG01T)	03450000
00055D	C4C9E2C1E2D4C4E3			518	EMSG01T DC	C'DISASMDT01E ***** DATASET OPEN UNSUCCESSFUL *****'	03460000
00058D	3A			519	EMSG02 DC	AL1(L'EMSG02T)	03470000
00058E	C4C9E2C1E2D4C4E3			520	EMSG02T DC	C'DISASMDT02E ***** NO PROCESSABLE SOURCE RECORDS FOUND *****'	03480000
000596	F0F2C540405C5C5C						03490000
0005C8	33			522	EMSG00 DC	AL1(L'EMSG00T)	03510000
0005C9	C4C9E2C1E2D4C4E3			523	EMSG00T DC	C'DISASMDT00E ***** ADATA UNAVAILABLE PRE-XA MVS *****'	03520000
0005FC	40404040D3D6C340			525	SUBHEAD DC	CL08' LOC ',C' '	03540000
000605	40D6D9C74040E3E8			526	DC	CL14' ORG TY CD FG',C' '	03550000
000614	40E2E3D4E340			527	DC	CL05' STMT',C' '	03560000
00061A	40E2D6E4D9C3C540			528	DC	CL80' SOURCE STATEMENT',CL2' '	03570000
00066C	D4C5D4C2C5D9			529	DC	C'MEMBER'	03580000
		00076		530	SUBHEADL EQU	*-SUBHEAD	03590000
000672	FFFFFFFFFFFFFFFF			532	CHARPRT DC	256X'FF'	03610000
000772		006B2		533	ORG	CHARPRT+X'40'	03620000
0006B2	40			534	DC	X'40'	03630000
0006B3		006BC		535	ORG	CHARPRT+X'4A'	03640000
0006BC	4A4B4C4D4E4F			536	DC	X'4A4B4C4D4E4F'	03650000
0006C2		006CC		537	ORG	CHARPRT+X'5A'	03660000
0006CC	5A5B5C5D5E5F			538	DC	X'5A5B5C5D5E5F'	03670000
0006D2		006D2		539	ORG	CHARPRT+X'60'	03680000
0006D2	6061			540	DC	X'6061'	03690000
0006D4		006DC		541	ORG	CHARPRT+X'6A'	03700000
0006DC	6A6B6C6D6E6F			542	DC	X'6A6B6C6D6E6F'	03710000
0006E2		006EB		543	ORG	CHARPRT+X'79'	03720000
0006EB	797A7B7C7D7E7F			544	DC	X'797A7B7C7D7E7F'	03730000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0006F2			006F3	545	ORG CHARPRT+X'81'	03740000
0006F3	8182838485868788			546	DC X'818283848586878889'	03750000
0006FC			00703	547	ORG CHARPRT+X'91'	03760000
000703	9192939495969798			548	DC X'919293949596979899'	03770000
00070C			00714	549	ORG CHARPRT+X'A2'	03780000
000714	A2A3A4A5A6A7A8A9			550	DC X'A2A3A4A5A6A7A8A9'	03790000
00071C			00733	551	ORG CHARPRT+X'C1'	03800000
000733	C1C2C3C4C5C6C7C8			552	DC X'C1C2C3C4C5C6C7C8C9'	03810000
00073C			00743	553	ORG CHARPRT+X'D1'	03820000
000743	D1D2D3D4D5D6D7D8			554	DC X'D1D2D3D4D5D6D7D8D9'	03830000
00074C			00754	555	ORG CHARPRT+X'E2'	03840000
000754	E2E3E4E5E6E7E8E9			556	DC X'E2E3E4E5E6E7E8E9'	03850000
00075C			00762	557	ORG CHARPRT+X'F0'	03860000
000762	F0F1F2F3F4F5F6F7			558	DC X'F0F1F2F3F4F5F6F7F8F9'	03870000
00076C			00772	559	ORG ,	03880000
				561	PUSH PRINT	03900000
				562	PRINT ON,GEN,DATA	03910000
				563 *	ASMADATA PRINT=GEN,OUTPUT=NO,SOURCE=YES,COMPUNIT=YES	03920000
				564 *	IBM DEFINITIONS WON'T ASSEMBLE UNDER ASM XF	03930000
000000				565	ASMADATA DSECT ,	03940000
000000				566	ADLEN DS XL2 LENGTH	03950000
000002				567	DS XL2	03960000
000004				568	ADVERS DS X VERSION OF HL ASM	03970000
		00010		569	ADHLA EQU 16 ASM 1/2	03980000
000005				570	ADRTYP DS XL2 RECORD TYPE	03990000
000007				571	ADLVL DS X ASMADATA VERSION	04000000
		00001		572	ADLV1 EQU 1 LEVEL 1	04010000
		00002		573	ADLV2 EQU 2 LEVEL 2	04020000
000008				574	ADCFG DS X CONTINUATION FLAG	04030000
		00000		575	ADCFN EQU X'00' NOT CONTINUED	04040000
		00001		576	ADCFY EQU X'01' CONTINUED	04050000
000009				577	ADEDN DS X EDITION ?	04060000
		00000		578	ADED0 EQU 0 ?	04070000
00000A				579	DS CL2	04080000
00000C				580	ADORG DS 0H FOLLOWED BY REAL DATA	04090000
		0000C		581	ADSIZE EQU *-ASMADATA HEADER SIZE	04100000
				582 *		04110000
00000C		0000C		583	ORG ADORG	04120000
		00030		584	ADRECID EQU X'0030' SOURCE RECORD TYPE	04130000
00000C				585	ASSTMT DS FL4 STMT NUMBER	04140000
000010				586	ASESDID DS FL4 ESD ID	04150000
000014				587	ASINREC DS FL4 SOURCE RECORD NUMBER	04160000
000018				588	ASINPAR DS FL4 SOURCE PARENT'S RECORD NUMBER	04170000
00001C				589	ASININO DS HL2 INPUT FILE NUMBER	04180000
00001E				590	ASINPNO DS HL2 PARENT FILE NUMBE	04190000
000020				591	ASLOCTR DS FL4 LOCATION COUNTER	04200000
000024				592	ASRCORG DS X TEXT SOURCE	04210000
		00001		593	ASRCOPI EQU X'01' PRIMARY INPUT	04220000
		00002		594	ASRCOMG EQU X'02' MACRO GENERATION	04230000
		00003		595	ASRCOMA EQU X'03' MACRO/COPY CODE	04240000
		00004		596	ASRCOLM EQU X'04' LIBMAC COPY	04250000
000025				597	ASPRORG DS X PARENT TEXT SOURCE	04260000
000026				598	DS XL3 ?	04270000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000029				599	ASRTYPE	DS X TEXT TYPE	04280000
		00001		600	ASRTCOM	EQU X'01' COMMENT	04290000
		00002		601	ASRCOMAH	EQU X'02' MACHINE CODE	04300000
		00003		602	ASRTASM	EQU X'03' ASM INSTRUCTION	04310000
		00004		603	ASRCOMAR	EQU X'04' MACRO INSTRUCTION	04320000
		00005		604	ASRCOMAD	EQU X'05' MACRO DEFINITION	04330000
00002A				605	ASOPCOD	DS X OPCODE	04340000
00002B				606	ASAFLGS	DS X ADDRESS FIELD FLAGS	04350000
		00080		607	ASAFLG1	EQU X'80' ADDR 1 PRESENT	04360000
		00040		608	ASAFLG2	EQU X'40' ADDR 2 PRESENT	04370000
00002C				609	ASADDR1	DS FL4 ADDR 1 VALUE	04380000
000030				610	ASADDR2	DS FL4 ADDR 2 VALUE	04390000
000034				611	ASNMOFF	DS HL2 NAME OFFSET	04400000
000036				612	ASNMLEN	DS HL2 NAME LENGTH	04410000
000038				613	ASOPOFF	DS HL2 OPERATION FIELD OFFSET	04420000
00003A				614	ASOPLEN	DS HL2 OPERATION FIELD LENGTH	04430000
00003C				615	ASONOFF	DS HL2 OPERAND FIELD OFFSET	04440000
00003E				616	ASONLEN	DS HL2 OPERAND FIELD LENGTH	04450000
000040				617	ASRMOFF	DS HL2 OFFSET TO COMMENT FIELD	04460000
000042				618	ASRMLEN	DS HL2 LENGTH OF COMMENTS	04470000
000044				619	ASCCOFF	DS HL2 OFFSET TO CONTINUATION COLUMN	04480000
000046				620		DS FL4 ?	04490000
00004A				621	ASMCLN	DS HL2 MACRO/COPY NAME LENGTH	04500000
00004C				622	ASPTLEN	DS HL2 PARENT MACRO/COPY NAME LENGTH	04510000
00004E				623	ASSRLEN	DS HL2 SOURCE RECORD LENGTH	04520000
000050				624		DS XL8 ?	04530000
000058				625	ASCPNAM	DS OCL256 MACRO/COPY NAME	04540000
000058				626	ASPTNAM	DS OCL256 PARENT MACRO/COPY NAME	04550000
000058				627	ASRTEXT	DS OCL80 SOURCE RECORD TEXT	04560000
		00058		628	ASRSIZE	EQU *-ASMADATA LENGTH LESS TEXT FIELDS	04570000
				629	*		04580000
000058		0000C		630		ORG ADORG	04590000
		00002		631	ADCMPUID	EQU X'0002' PROGRAM DECK START/END RECORD	04600000
00000C				632	ACSEIN	DS XL2 START/END FLAG	04610000
		00000		633	ACSEINST	EQU X'0000' START	04620000
		00001		634	ACSEINEN	EQU X'0001' END	04630000
00000E				635	ACRESVD	DS CL2 ?	04640000
000010				636	ACRECNO	DS FL4 RECORDS COUNT IN THIS DECK	04650000
		00014		637	ACRSIZE	EQU *-ASMADATA LENGTH OF THIS RECORD TYPE	04660000
				638		POP PRINT	04670000
				640		DCBD DSORG=PS,DEVDA DCB MAPPING	04690000
				642+*		DCB SYMBOLIC DEFINITION FOR	07700000
				643+*		PHYSICAL SEQUENTIAL	07900000
000000				645+IHADCB	DSECT	, - DCBPTR @ZA05613 09851000	
				647+*****			09853000
				648+*	OS/V	S2 RELEASE 02, 02/14/73 *	09854000
				649+*	OS/V	S2 RELEASE 03, 10/23/74 *	09855000
				650+*	OS/V	S2 RELEASE 3.7, 3/15/78 *	09856000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				651+*	C80400037	@ZA33630 09886000
				652+*		* 09902100
				653+*	OS/VS2 RELEASE 3.8, 5/15/80 FMID=FDM1133	* 09909000
				654+*		* 09915900
				655+*	C(116500),A(116638-116914),D(117000),A(117052-117466)	@ZA46311 09922800
				656+*	D(117500),A(117604-117880),D(118000),A(118018-118432)	@ZA46311 09929700
				657+*	D(118500-118510),A(118570-118846)	@ZA46311 09936600
				658+*	\$F01=UZ59799,FDM1133:DCBDEVT DEFINITION FOR D/T3375 AND D/T3380	@F01A 09940000
				659+*		* 09943500
				660+*	*****	09950700
		00080		662+	DCBBIT0 EQU 128	@ZA05613 09951000
		00040		663+	DCBBIT1 EQU 64	@ZA05613 09951100
		00020		664+	DCBBIT2 EQU 32	@ZA05613 09951200
		00010		665+	DCBBIT3 EQU 16	@ZA05613 09951300
		00008		666+	DCBBIT4 EQU 8	@ZA05613 09951400
		00004		667+	DCBBIT5 EQU 4	@ZA05613 09951500
		00002		668+	DCBBIT6 EQU 2	@ZA05613 09951600
		00001		669+	DCBBIT7 EQU 1	@ZA05613 09951700
				671+*	*****	09951900
				673+*	*****	10301000
				674+*	DEVICE INTERFACES	10350000
				675+*	*****	10351000
				677+*	*****	10451000
				678+*	DIRECT ACCESS DEVICES	10500000
				679+*	*****	10501000
000000				681+	DCBRELAD DS CL4 - PARTITIONED ORGANIZATION DATA SET -	10600000
				682+*		10650000
				683+*		10700000
				684+*		10750000
				685+*		10800000
				686+*		10850000
				687+*		10900000
000004				688+	DCBKEYCN DS FL1 - KEYED BLOCK OVERHEAD CONSTANT	10950000
000005				689+	DCBFDAD DS CL8 - FULL DISK ADDRESS IN THE FORM OF MBBCCHHR	11000000
				690+*		11050000
00000D		0000C		692+	ORG DCBFDAD+7	11150000
00000C				693+	DCBDVTBL DS OA - SAME AS DCBDVTBA BELOW	11200000
00000C				694+	DS X - LAST BYTE OF DCBFDAD	11250000
00000D				695+	DCBDVTBA DS AL3 - ADDRESS OF ENTRY IN I/O DEVICE	11300000
				696+*		11350000
				697+*		11400000
000010				698+	DS FL1 - DCBKEYLE - KEY LENGTH OF DATA SET	11450000
000011				699+	DS C - DCBDEVT - DEVICE TYPE	11500000
				700+*	FOR MASKS FOR ISAM DIRECT ACCESS, SEE DCBOVDEV IN ISAM SECTION	11550000
		00021		701+	DCBDV311 EQU X'21' - 2311 DISK STORAGE	@ZA46311 11650000
		00022		702+	DCBDV301 EQU X'22' - 2301 PARALLEL DRUM	11663800
		00023		703+	DCBDV303 EQU X'23' - 2303 SERIAL DRUM	11677600
		00024		704+	DCBDV302 EQU X'24' - 2302 DISK STORAGE	11691400

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00025	705+DCBDV321	EQU	X'25' -	2321 DATA CELL STORAGE @ZA46311 11705200
			00026	706+DCBD1305	EQU	X'26' -	2305 DRUM MODEL-1 @ZA46311 11719000
			00027	707+DCBDV305	EQU	X'27' -	2305 DRUM MODEL-2 @ZA46311 11732800
			00028	708+DCBDV314	EQU	X'28' -	2314/2319 DISK STORAGE FACILITY @ZA46311 11746600
			00029	709+DCBDV330	EQU	X'29' -	3330 DISK STORAGE FACILITY @ZA46311 11760400
				710+*			3330 MODEL-1 @ZA46311 11774200
				711+*			3330 MODEL-2 @ZA46311 11788000
				712+*			3333 MODEL-1 @ZA46311 11801800
		0002A	713+DCBDV340	EQU	X'2A' -	3340/3344 DISK STORAGE FACILITY	@ZA46311 11815600
		0002B	714+DCBDV350	EQU	X'2B' -	3350 DISK STORAGE FACILITY	@ZA46311 11829400
				715+*		MODELS A2, B2, AND C2	@ZA46311 11843200
		0002C	716+DCBDV375	EQU	X'2C' -	3375 DISK STORAGE FACILITY	@F01A 11850100
		0002D	717+DCBDV331	EQU	X'2D' -	3330 MODEL-11 OR 3333 MODEL-11	@ZA46311 11857000
				718+*		DISK STORAGE FACILITY	@ZA46311 11870800
		0002E	719+DCBDV380	EQU	X'2E' -	3380 DISK STORAGE FACILITY	@F01A 11877700
000012				721+DCBTRBAL	DS	H -	TRACK BALANCE. NUMBER OF BYTES REMAINING 11900000
				722+*			ON CURRENT TRACK AFTER A WRITE OPERATION 11950000
				723+*			(THIS QUANTITY MAY BE NEGATIVE IF THERE 12000000
				724+*			ARE NO BYTES REMAINING ON TRACK). 12050000
				726+*****			24551000
				727+*		ACCESS METHOD COMMON INTERFACE	24600000
				728+*****			24601000
000014		00010	730+		ORG	IHADCB+16	24700000
000010			731+DCBREL	DS	OF -	SAME AS DCBREL BELOW	24750000
000010			732+DCBKEYLE	DS	FL1 -	KEY LENGTH OF DATA SET	24800000
000011			733+DCBDEVT	DS	OC -	DEVICE TYPE	24850000
		0004F	734+DCBDVTRM	EQU	X'4F' -	TERMINAL. (DD CONTAINS TERM=TS)	24900000
000011			735+DCBREL	DS	FL3 -	NUMBER OF RELATIVE TRACKS OR BLOCKS IN	24950000
				736+*		THIS DATA SET (BDAM)	25000000
000014			737+DCBBUFCB	DS	0A -	ADDRESS OF BUFFER POOL CONTROL BLOCK	25050000
000014			738+DCBBUFNO	DS	FL1 -	NUMBER OF BUFFERS REQUIRED FOR THIS DATA	25100000
				739+*		SET. MAY RANGE FROM 0 TO 255. IF	25150000
				740+*		UNBLOCKED SPANNED RECORDS ARE USED,	25200000
				741+*		NUMBER OF SEGMENT WORK AREAS REQUIRED	25250000
				742+*		FOR THIS DATA SET.	25300000
000015			743+DCBBUFCA	DS	AL3 -	ADDRESS OF BUFFER POOL CONTROL BLOCK	25350000
000018			744+DCBBUFL	DS	H -	LENGTH OF BUFFER. MAY RANGE FROM 0 TO	25400000
				745+*		32,767.	25450000
00001A			746+DCBDSORG	DS	OBL2 -	DATA SET ORGANIZATION BEING USED	25500000
00001A			747+DCBDSRG1	DS	BL1 -	FIRST BYTE OF DCBDSORG	25550000
		00080	748+DCBDSGIS	EQU	DCBBIT0 -	IS - INDEXED SEQUENTIAL ORGANIZATION	25600000
		00040	749+DCBDSGPS	EQU	DCBBIT1 -	PS - PHYSICAL SEQUENTIAL ORGANIZATION	25650000
		00020	750+DCBDSGDA	EQU	DCBBIT2 -	DA - DIRECT ORGANIZATION	25700000
		00010	751+DCBDSGCX	EQU	DCBBIT3 -	CX - BTAM OR QTAM LINE GROUP	25750000
		00002	752+DCBDSGPO	EQU	DCBBIT6 -	PO - PARTITIONED ORGANIZATION	25900000
		00001	753+DCBDSGU	EQU	DCBBIT7 -	U - UNMOVABLE, THE DATA CONTAINS	25950000
				754+*		LOCATION DEPENDENT INFORMATION	26000000
00001B			755+DCBDSRG2	DS	BL1 -	SECOND BYTE OF DCBDSORG	26050000
		00080	756+DCBDSGGS	EQU	DCBBIT0 -	GS - GRAPHICS ORGANIZATION	26100000
		00040	757+DCBDSGTX	EQU	DCBBIT1 -	TX - TCAM LINE GROUP	26150000
		00020	758+DCBDSGTQ	EQU	DCBBIT2 -	TQ - TCAM MESSAGE QUEUE	26200000
		00008	759+DCBACBM	EQU	DCBBIT4 -	ACCESS METHOD CONTROL BLOCK	26250000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00004	760+DCBDSGTR EQU	DCBBIT5 - TR - TCAM 3705	26260000
00001C				761+DCBIOBAD DS	0A - ADDRESS OF IOB WHEN CHAINED SCHEDULING IS	26300000
				762+*	USED OR FOR 1419/1275	26350000
00001C				763+DCBODEB DS	0A - ADDRESS OF OLD DEB	26400000
00001C				764+DCBLNP DS	OFL1 - 3525 PRINTER LINE POSITION COUNTER	26450000
00001C				765+DCBQSLM DS	BL1 - QSAM LOCATE MODE LOGICAL RECORD INTERFACE	26500000
				766+*	INDICATOR BYTE FOR UPDAT PROCESSING OF	26550000
				767+*	SPANNED RECORDS	26600000
			00080	768+DCB1DVDS EQU	DCBBIT0 - ONLY ONE DEVICE IS ALLOCATED TO THIS	26650000
				769+*	DATA SET	26700000
			00040	770+DCBUPDCM EQU	DCBBIT1 - UPDATE COMPLETE, FREE OLD DEB	26750000
			00030	771+DCBUPDBT EQU	DCBBIT2+DCBBIT3 - UPDATE BITS	26800000
			00020	772+DCBUPDT EQU	DCBBIT2 - UPDATE TO TAKE PLACE	26850000
			00030	773+DCBNUPD EQU	DCBBIT2+DCBBIT3 - NO UPDATE TO TAKE PLACE	26900000
			00010	774+DCBSVDEB EQU	DCBBIT3 - OLD DEB ADDRESS MUST BE SAVED	26950000
00001D				775+DCBIOBAA DS	0AL3 - SAME AS DCBIOBAD ABOVE	27000000
00001D				776+DCBODEBA DS	AL3 - ADDRESS OF OLD DEB	27050000
000020		0001C		777+ ORG	IHADCB+28	27100000
00001C				778+DCBSVCXL DS	0A - SAME AS DCBSVCXA BELOW	27150000
00001C				779+ DS	X - RESERVED	27200000
00001D				780+DCBSVCXA DS	AL3 - POINTER TO EXIT LIST OF JES	27250000
				781+*	C.I. INTERFACE CONTROL SVC	27300000
				783+*****	*****	27351000
				784+*	FOUNDATION EXTENSION	27400000
				785+*****	*****	27401000
000020				787+DCBEODAD DS	0A - SAME AS DCBEODA BELOW	27500000
000020				788+DCBHIARC DS	OBL1 - HIERARCHY BITS	27550000
000020				789+DCBBFTEK DS	OBL1 - BUFFERING TECHNIQUE BITS	27600000
000020				790+DCBBFALN DS	BL1 - BUFFER ALIGNMENT BITS	27650000
		00080		791+DCBH1 EQU	DCBBIT0 - HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO	27700000
		00070		792+DCBBFT EQU	DCBBIT1+DCBBIT2+DCBBIT3 BUFFERING TECHNIQUE	27750000
		00060		793+DCBBFTA EQU	DCBBIT1+DCBBIT2 - QSAM LOCATE MODE PROCESSING OF SPANNED	27800000
				794+*	RECORDS - OPEN IS TO CONSTRUCT A RECORD	27850000
				795+*	AREA IF IT AUTOMATICALLY CONSTRUCTS	27900000
				796+*	BUFFERS	27950000
		00020		797+DCBBFTR EQU	DCBBIT2 - FOR BSAM CREATE BDAM PROCESSING OF	28000000
				798+*	UNBLOCKED SPANNED RECORDS - SOFTWARE	28050000
				799+*	TRACK OVERFLOW. FOR BSAM INPUT	28100000
				800+*	PROCESSING OF UNBLOCKED SPANNED RECORDS	28150000
				801+*	WITH KEYS - RECORD OFFSET PROCESSING.	28200000
		00040		802+DCBBFTS EQU	DCBBIT1 - SIMPLE BUFFERING - BIT 3 IS ZERO	28250000
		00020		803+DCBBFTKR EQU	DCBBIT2 - UNBLOCKED SPANNED RECORDS - SOFTWARE	28300000
				804+*	TRACK OVERFLOW (BDAM)	28350000
		00010		805+DCBBFTE EQU	DCBBIT3 - EXCHANGE BUFFERING - BIT 1 IS ZERO	28400000
		00008		806+DCBBFTKD EQU	DCBBIT4 - DYNAMIC BUFFERING (BTAM)	28450000
		00004		807+DCBH0 EQU	DCBBIT5 - HIERARCHY 0 MAIN STORAGE - BIT 0 IS ZERO	28500000
		00003		808+DCBBFA EQU	DCBBIT6+DCBBIT7 - BUFFER ALIGNMENT	28550000
		00002		809+DCBBFAD EQU	DCBBIT6 - DOUBLEWORD BOUNDARY	28600000
		00001		810+DCBBFAF1 EQU	DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28650000
				811+*	CODED IN DCB MACRO INSTRUCTION	28700000
		00003		812+DCBBFAF2 EQU	DCBBIT6+DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28750000
				813+*	CODED IN DCB MACRO INSTRUCTION	28800000
000021				814+DCBEODA DS	AL3 - ADDRESS OF A USER-PROVIDED ROUTINE TO	28850000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				815+*	HANDLE END-OF-DATA CONDITIONS	28900000
000024				816+DCBEXLST DS	OA - ADDRESS OF USER-PROVIDED LIST OF EXITS	28950000
000024				817+DCBRECFCM DS	BL1 - RECORD FORMAT	29000000
		000E0		818+DCBRECLA EQU	DCBBIT0+DCBBIT1+DCBBIT2 RECORD LENGTH INDICATOR - ASCII	29050000
		00020		819+DCBRECD EQU	DCBBIT2 - ASCII VARIABLE RECORD LENGTH	29100000
		000C0		820+DCBRECL EQU	DCBBIT0+DCBBIT1 - RECORD LENGTH INDICATOR	29150000
		00080		821+DCBRECFC EQU	DCBBIT0 - FIXED RECORD LENGTH	29200000
		00040		822+DCBRECVC EQU	DCBBIT1 - VARIABLE RECORD LENGTH	29250000
		000C0		823+DCBRECU EQU	DCBBIT0+DCBBIT1 - UNDEFINED RECORD LENGTH	29300000
		00020		824+DCBRECTO EQU	DCBBIT2 - TRACK OVERFLOW	29350000
		00010		825+DCBRECBR EQU	DCBBIT3 - BLOCKED RECORDS	29400000
		00008		826+DCBRECSB EQU	DCBBIT4 - FOR FIXED LENGTH RECORD FORMAT - STANDARD	29450000
				827+*	BLOCKS. FOR VARIABLE LENGTH RECORD	29500000
				828+*	FORMAT - SPANNED RECORDS	29550000
		00006		829+DCBRECCC EQU	DCBBIT5+DCBBIT6 - CONTROL CHARACTER INDICATOR	29600000
		00004		830+DCBRECCA EQU	DCBBIT5 - ASA CONTROL CHARACTER	29650000
		00002		831+DCBRECCM EQU	DCBBIT6 - MACHINE CONTROL CHARACTER	29700000
		00000		832+DCBRECC EQU	X'00' - NO CONTROL CHARACTER	29750000
		00001		833+DCBRECKL EQU	DCBBIT7 - KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB	29800000
				834+*	MACRO INSTRUCTION	29850000
000025				835+DCBEXLSA DS	AL3 - ADDRESS OF USER-PROVIDED LIST OF EXITS	29900000
				838+*****	FOUNDATION BEFORE OPEN	47139200
				839+*		47150000
				840+*****		47151000
000028		00028		842+ ORG	IHADCB+40	47250000
000028				843+DCBDDNAM DS	CL8 - NAME ON THE DD STATEMENT WHICH DEFINES	47300000
				844+*	THE DATA SET ASSOCIATED WITH THIS DCB	47350000
000030				845+DCBOFLGS DS	BL1 - FLAGS USED BY OPEN ROUTINE	47400000
		00080		846+DCBOFLWR EQU	DCBBIT0 - IF ZERO, LAST I/O OPERATION WAS READ OR	47450000
				847+*	POINT. IF ONE, LAST I/O OPERATION WAS	47500000
				848+*	WRITE.	47550000
		00080		849+DCBOFIOD EQU	DCBBIT0 - DATA SET IS BEING OPENED FOR INPUT OR	47600000
				850+*	OUTPUT (BDAM)	47650000
		00040		851+DCBOFLRB EQU	DCBBIT1 - LAST I/O OPERATION WAS IN READ BACKWARD	47700000
				852+*	MODE	47750000
		00020		853+DCBOFE0V EQU	DCBBIT2 - SET TO 1 BY EOVS WHEN IT CALLS CLOSE	47800000
				854+*	ROUTINE FOR CONCATENATION OF DATA SETS	47850000
				855+*	WITH UNLIKE ATTRIBUTES	47900000
		00010		856+DCBOFOPN EQU	DCBBIT3 - AN OPEN HAS BEEN SUCCESSFULLY COMPLETED	47950000
		00008		857+DCBOFPPC EQU	DCBBIT4 - SET TO 1 BY PROBLEM PROGRAM TO INDICATE A	48000000
				858+*	CONCATENATION OF UNLIKE ATTRIBUTES	48050000
		00004		859+DCBOFTM EQU	DCBBIT5 - TAPE MARK HAS BEEN READ	48100000
		00002		860+DCBOFUEX EQU	DCBBIT6 - SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN	48150000
				861+*	THAT FUNCTION TAKES A USER EXIT. SET TO 1	48200000
				862+*	ON RETURN FROM USER EXIT TO THE I/O	48250000
				863+*	SUPPORT FUNCTION WHICH TOOK THE EXIT.	48300000
		00001		864+DCBOFIOF EQU	DCBBIT7 - SET TO 1 BY AN I/O SUPPORT FUNCTION IF	48350000
				865+*	DCB IS TO BE PROCESSED BY THAT FUNCTION	48400000
000031				866+DCBIFLG DS	BL1 - FLAGS USED BY IOS IN COMMUNICATING ERROR	48450000
				867+*	CONDITIONS AND IN DETERMINING CORRECTIVE	48500000
				868+*	PROCEDURES	48550000
		000C0		869+DCBIBEC EQU	DCBBIT0+DCBBIT1 - ERROR CORRECTION INDICATOR	48600000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00000	870+DCBIFNEP	EQU	X'00' - NOT IN ERROR PROCEDURE	48650000
			00040	871+DCBEX	EQU	DCBBIT1 - ERROR CORRECTION OR IOS PAGE FIX IN	48700000
				872+*		PROCESS	48750000
			000C0	873+DCBIFPEC	EQU	DCBBIT0+DCBBIT1 - PERMANENT ERROR CORRECTION	48800000
			00030	874+DCBIBPCT	EQU	DCBBIT2+DCBBIT3 - PRINTER CARRIAGE TAPE PUNCH INDICATOR	48850000
			00020	875+DCBIFC9	EQU	DCBBIT2 - CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH	48900000
				876+*		SENSED	48950000
			00010	877+DCBIFC12	EQU	DCBBIT3 - CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH	49000000
				878+*		SENSED	49050000
			0000C	879+DCBIBIOE	EQU	DCBBIT4+DCBBIT5 - IOS ERROR ROUTINE USE INDICATOR	49100000
			00000	880+DCBIFER	EQU	X'00' - ALWAYS USE I/O SUPERVISOR ERROR ROUTINE	49150000
			00004	881+DCBIFNE1	EQU	DCBBIT5 - NEVER USE I/O SUPERVISOR ERROR ROUTINE	49200000
			00004	882+DCBIFTIM	EQU	DCBBIT5 - TEST IOS MASK (IMSK) FOR ERROR PROCEDURE	49250000
				883+*		(BTAM)	49300000
			00008	884+DCBIFNE2	EQU	DCBBIT4 - NEVER USE I/O SUPERVISOR ERROR ROUTINE	49350000
			0000C	885+DCBIFNE3	EQU	DCBBIT4+DCBBIT5 - NEVER USE I/O SUPERVISOR ERROR ROUTINE	49400000
000032				886+DCBMACR	DS	OBL2 - MACRO INSTRUCTION REFERENCE	49450000
000032				887+DCBMACR1	DS	BL1 - FIRST BYTE OF DCBMACR	49500000
			00080	888+DCBMRECP	EQU	DCBBIT0 - EXECUTE CHANNEL PROGRAM (EXCP) ---	49550000
				889+*		ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM,	49600000
				890+*		QISAM, BDAM) --- RESERVED (QTAM, BTAM)	49650000
			00040	891+DCBMRFE	EQU	DCBBIT1 - FOUNDATION EXTENSION IS PRESENT (EXCP)	49700000
			00040	892+DCBMRGET	EQU	DCBBIT1 - GET (QSAM, QISAM, TCAM)	49750000
			00040	893+DCBMRPTQ	EQU	DCBBIT1 - PUT FOR MESSAGE GROUP (QTAM) ---	49800000
				894+*		ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) ---	49850000
				895+*		RESERVED (BTAM)	49900000
			00020	896+DCBMRAPG	EQU	DCBBIT2 - APPENDAGES ARE REQUIRED (EXCP)	49950000
			00020	897+DCBMRRD	EQU	DCBBIT2 - READ (BSAM, BPAM, BISAM, BDAM, BTAM)	50000000
			00020	898+DCBMRWRQ	EQU	DCBBIT2 - WRITE FOR LINE GROUP (QTAM) ---	50050000
				899+*		ALWAYS ZERO (QSAM, QISAM)	50100000
			00010	900+DCBMRCI	EQU	DCBBIT3 - COMMON INTERFACE (EXCP)	50150000
			00010	901+DCBMRMVG	EQU	DCBBIT3 - MOVE MODE OF GET (QSAM, QISAM)	50200000
			00010	902+DCBMRRDK	EQU	DCBBIT3 - KEY SEGMENT WITH READ (BDAM) ---	50250000
				903+*		ALWAYS ZERO (BISAM) ---	50300000
				904+*		RESERVED (BSAM, BPAM, QTAM, BTAM)	50350000
			00008	905+DCBMRLCG	EQU	DCBBIT4 - LOCATE MODE OF GET (QSAM, QISAM)	50400000
			00008	906+DCBMRRDI	EQU	DCBBIT4 - ID ARGUMENT WITH READ (BDAM) ---	50450000
				907+*		ALWAYS ZERO (BISAM) ---	50500000
				908+*		RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM)	50550000
			00004	909+DCBMRABC	EQU	DCBBIT5 - USER'S PROGRAM MAINTAINS ACCURATE BLOCK	50600000
				910+*		COUNT (EXCP)	50650000
			00004	911+DCBMRPT1	EQU	DCBBIT5 - POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)	50700000
			00004	912+DCBMRSBG	EQU	DCBBIT5 - SUBSTITUTE MODE OF GET (QSAM)	50750000
			00004	913+DCBMRDBF	EQU	DCBBIT5 - DYNAMIC BUFFERING (BISAM, BDAM) ---	50800000
				914+*		ALWAYS ZERO (QISAM) ---	50850000
				915+*		RESERVED (QTAM, BTAM)	50900000
			00002	916+DCBPGFXA	EQU	DCBBIT6 - PAGE FIX APPENDAGE IS SPECIFIED (EXCP)	50950000
			00002	917+DCBMRCRL	EQU	DCBBIT6 - CNTRL (BSAM, QSAM)	51000000
			00002	918+DCBMRCHK	EQU	DCBBIT6 - CHECK (BISAM)	51050000
			00002	919+DCBMRRDX	EQU	DCBBIT6 - READ EXCLUSIVE (BDAM) ---	51100000
				920+*		RESERVED (BPAM, QISAM, QTAM, BTAM)	51150000
			00001	921+DCBMRDMG	EQU	DCBBIT7 - DATA MODE OF GET (QSAM)	51200000
			00001	922+DCBMRCK	EQU	DCBBIT7 - CHECK (BDAM) --- RESERVED (EXCP, BSAM,	51250000
				923+*		BPAM, BISAM, QISAM, QTAM, BTAM)	51300000
000033				924+DCBMACR2	DS	BL1 - SECOND BYTE OF DCBMACR	51350000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00080	925+DCBMRSTL EQU	DCBBIT0 -	SETL (QISAM) --- ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) ---	51400000
				926+*		RESERVED (EXCP, QTAM, BTAM)	51450000
				927+*		RESERVED (EXCP, QTAM, BTAM)	51500000
			00040	928+DCBMRPUT EQU	DCBBIT1 -	PUT (QSAM, TCAM) - PUT OR PUTX (QISAM)	51550000
			00040	929+DCBMRGTQ EQU	DCBBIT1 -	GET FOR MESSAGE GROUP (QTAM) ---	51600000
				930+*		ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) ---	51650000
				931+*		RESERVED (EXCP, BTAM)	51700000
			00020	932+DCBMRWRT EQU	DCBBIT2 -	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM)	51750000
			00020	933+DCBMRRDQ EQU	DCBBIT2 -	READ FOR LINE GROUP (QTAM) ---	51800000
				934+*		ALWAYS ZERO (QSAM, QISAM) ---	51850000
				935+*		RESERVED (EXCP)	51900000
			00010	936+DCBMRMVP EQU	DCBBIT3 -	MOVE MODE OF PUT (QSAM, QISAM)	51950000
			00010	937+DCBMRWRK EQU	DCBBIT3 -	KEY SEGMENT WITH WRITE (BDAM) ---	52000000
				938+*		ALWAYS ZERO (BISAM) ---	52050000
				939+*		RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM)	52100000
			00008	940+DCBMR5WD EQU	DCBBIT4 -	FIVE-WORD DEVICE INTERFACE (EXCP)	52150000
			00008	941+DCBMRLDM EQU	DCBBIT4 -	LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM)	52200000
				942+*			52250000
			00008	943+DCBMRLCP EQU	DCBBIT4 -	LOCATE MODE OF PUT (QSAM, QISAM)	52300000
			00008	944+DCBMRIDW EQU	DCBBIT4 -	ID ARGUMENT WITH WRITE (BDAM) ---	52350000
				945+*		ALWAYS ZERO (BISAM) ---	52400000
				946+*		RESERVED (BPAM, QTAM, BTAM)	52450000
			00004	947+DCBMR4WD EQU	DCBBIT5 -	FOUR-WORD DEVICE INTERFACE (EXCP)	52500000
			00004	948+DCBMRPT2 EQU	DCBBIT5 -	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)	52550000
			00004	949+DCBMRTMD EQU	DCBBIT5 -	SUBSTITUTE MODE (QSAM)	52600000
			00004	950+DCBMRUIP EQU	DCBBIT5 -	UPDATE IN PLACE (PUTX) (QISAM) ---	52650000
				951+*		ALWAYS ZERO (BISAM) ---	52700000
				952+*		RESERVED (BDAM, QTAM, BTAM)	52750000
			00002	953+DCBMR3WD EQU	DCBBIT6 -	THREE-WORD DEVICE INTERFACE (EXCP)	52800000
			00002	954+DCBMRCTL EQU	DCBBIT6 -	CNTRL (BSAM, QSAM)	52850000
			00002	955+DCBMRSTK EQU	DCBBIT6 -	SETL BY KEY (QISAM)	52900000
			00002	956+DCBMRAWR EQU	DCBBIT6 -	ADD TYPE OF WRITE (BDAM) ---	52950000
				957+*		ALWAYS ZERO (BISAM) ---	53000000
				958+*		RESERVED (BPAM, QTAM, BTAM)	53050000
			00001	959+DCBMR1WD EQU	DCBBIT7 -	ONE-WORD DEVICE INTERFACE (EXCP)	53100000
			00001	960+DCBMRSWA EQU	DCBBIT7 -	USER'S PROGRAM HAS PROVIDED A SEGMENT	53150000
				961+*		WORK AREA POOL (BSAM CREATE BDAM, BDAM)	53200000
			00001	962+DCBMRDMD EQU	DCBBIT7 -	DATA MODE (QSAM)	53250000
			00001	963+DCBMRSTI EQU	DCBBIT7 -	SETL BY ID (QISAM) ---	53300000
				964+*		ALWAYS ZERO (BISAM) ---	53350000
				965+*		RESERVED (BPAM, QTAM, BTAM)	53400000
				967+*****		*****	53451000
				968+*		FOUNDATION AFTER OPEN	53500000
				969+*****		*****	53501000
000034			00028	971+	ORG	IHADCB+40	53600000
000028				972+DCBTIOT DS	H -	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD	53650000
				973+*		IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED	53700000
				974+*		WITH THIS DCB	53750000
00002A				975+DCBMACRF DS	OBL2 -	SAME AS DCBMACR BEFORE OPEN	53800000
00002A				976+DCBMACF1 DS	BL1 -	FIRST BYTE OF DCBMACRF	53850000
00002B				977+DCBMACF2 DS	BL1 -	SECOND BYTE OF DCBMACRF	53900000
00002C				978+DCBDEBAD DS	0A -	ADDRESS OF ASSOCIATED DEB	53950000
00002C				979+DCBIFLGS DS	BL1 -	SAME AS DCBIFLG BEFORE OPEN	54000000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			000C0	980+DCBIFEC	EQU	DCBBIT0+DCBBIT1 - ERROR CORRECTION INDICATOR	54050000
			00030	981+DCBIFPCT	EQU	DCBBIT2+DCBBIT3 - PRINTER CARRIAGE TAPE PUNCH INDICATOR	54100000
			0000C	982+DCBIFIOE	EQU	DCBBIT4+DCBBIT5 - IOS ERROR ROUTINE USE INDICATOR	54150000
			00002	983+DCBIFLDT	EQU	DCBBIT6 - 3800 PRINTER LOST DATA INDICATOR @G38ESMH	54175000
00002D				984+DCBDEBA	DS	AL3 - ADDRESS OF ASSOCIATED DEB	54200000
000030			00030	986+	ORG	IHADCB+48	54350000
000030				987+DCBREAD	DS	0A - ADDRESS OF READ MODULE	54400000
000030				988+DCBWRITE	DS	0A - ADDRESS OF WRITE MODULE @ZA11086	54450000
000030				989+DCBOFLG	DS	BL1 SAME AS DCBOFLGS BEFORE OPEN @ZA11086	54460000
000031				990+DCBREDA	DS	0AL3 ADDRESS OF READ MODULE @ZA11086	54470000
000031				991+DCBWRITA	DS	AL3 ADDRESS OF WRITE MODULE @ZA11086	54480000
000034			00030	993+	ORG	IHADCB+48	54600000
000030				994+DCBGET	DS	0A - ADDRESS OF GET MODULE	54650000
000030				995+DCBPUT	DS	0A - ADDRESS OF PUT MODULE @ZA11086	54700000
000030				996+DCBOFLG1	DS	BL1 SAME AS DCBOFLGS BEFORE OPEN @ZA14562	54710000
000031				997+DCBGETA	DS	0AL3 ADDRESS OF GET MODULE @ZA11086	54720000
000031				998+DCBPUTA	DS	AL3 ADDRESS OF PUT MODULE @ZA11086	54730000
				1002+*****		*****	77701000
				1003+*		QSAM-BSAM-BPAM COMMON INTERFACE	77750000
				1004+*****		*****	77751000
000034			00034	1006+	ORG	IHADCB+52	77850000
000034				1007+DCBGERR	DS	0A - ADDRESS OF SYNCHRONIZING ROUTINE FOR GET	77950000
000034				1008+DCBPERR	DS	0A - ADDRESS OF SYNCHRONIZING ROUTINE FOR PUT	78000000
000034				1009+DCBCHECK	DS	0A - ADDRESS OF CHECK MODULE	78050000
000034				1010+DCBOPTCD	DS	BL1 - OPTION CODES	78150000
			00080	1011+DCBOPTW	EQU	DCBBIT0 - WRITE VALIDITY CHECK (DASD)	78500000
				1012+*		(BSAM, BPAM, QSAM, ISAM, BDAM)	78550000
			00040	1013+DCBOPTU	EQU	DCBBIT1 - ALLOW DATA CHECK CAUSED BY INVALID	78600000
				1014+*		CHARACTER (1403 PRINTER WITH UCS FEATURE)	78650000
				1015+*		(BSAM, BPAM, QSAM)	78700000
				1016+*		MSS WINDOW PROCESSING REQUESTED @ZA37313	78710000
				1017+*		(BSAM, QSAM) @ZA37313	78720000
			00020	1018+DCBOPTC	EQU	DCBBIT2 - CHAINED SCHEDULING USING PCI	78750000
				1019+*		(BSAM, BPAM, QSAM)	78800000
			00010	1020+DCBOPTH	EQU	DCBBIT3 - 1287/1288 OPTICAL READER - HOPPER EMPTY	78850000
				1021+*		EXIT (BSAM, BPAM)	78900000
				1022+*		PDS STAGING ON MSS REQUEST(BPAM) @ZA36508	78920000
			00010	1023+DCBOPTO	EQU	DCBBIT3 - 1285/1287 OPTICAL READER - ON-LINE	78950000
				1024+*		CORRECTION (QSAM)	79000000
			00010	1025+DCBBCKPT	EQU	DCBBIT3 - CHANNEL-END APPENDAGE IS TO BYPASS DOS	79050000
				1026+*		EMBEDDED CHECKPOINT RECORDS ON TAPE	79100000
				1027+*		(BSAM, QSAM)	79150000
			00008	1028+DCBOPTQ	EQU	DCBBIT4 - TRANSLATION TO OR FROM ASCII	79200000
				1029+*		(BSAM, BPAM, QSAM)	79250000
			00004	1030+DCBOPTZ	EQU	DCBBIT5 - MAGNETIC TAPE DEVICES - USE REDUCED ERROR	79300000
				1031+*		RECOVERY PROCEDURE (EXCP, BSAM, BPAM,	79350000
				1032+*		QSAM)	79400000
			00004	1033+DCBSRCHD	EQU	DCBBIT5 - USE SEARCH DIRECT, INSTEAD OF SEARCH	79450000
				1034+*		PREVIOUS, ON RECORD POSITION SENSING	79500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				1035+*		DEVICE (EXCP, BSAM, BPAM, QSAM)	79550000
		00002		1036+DCBOPTT	EQU	DCBBIT6 - USER TOTALING (BSAM, QSAM)	79600000
				1037+*			79610000
				1038+*			79620000
		00001		1039+DCBOPTJ	EQU	DCBBIT7 3800 PRINTER, OPTCD=J; (DYNAMIC @Z40MSRZ	79630000
				1040+*		SELECT OF TRANSLATE TABLES) @Z40MSRZ	79640000
000035				1041+DCBGERRA	DS	OAL3 - ADDRESS OF SYNCHRONIZING ROUTINE FOR GET	79700000
000035				1042+DCBPERRA	DS	OAL3 - ADDRESS OF SYNCHRONIZING ROUTINE FOR PUT	79750000
000035				1043+DCBCHCKA	DS	AL3 - ADDRESS OF CHECK MODULE	79800000
000038				1044+DCBSYNAD	DS	OA - ADDRESS OF USER-PROVIDED SYNAD ROUTINE	80050000
000038				1045+DCBIOBL	DS	FL1 - IOB LENGTH IN DOUBLE WORDS	80100000
000039				1046+DCBSYNA	DS	AL3 - ADDRESS OF USER-PROVIDED SYNAD ROUTINE	80150000
00003C				1047+DCBFLAG1	DS	OBL1 - TCAM APPLICATION PROGRAM FLAGS	80460000
				1048+*		(BSAM, BPAM, QSAM)	80470000
00003C				1049+DCBCIND1	DS	BL1 - CONDITION INDICATORS	80500000
		00080		1050+DCBCNTOV	EQU	DCBBIT0 - DIRECT ACCESS - TRACK OVERFLOW IN USE	80550000
				1051+*		(BSAM, BPAM, QSAM)	80600000
				1052+*		2540 CARD PUNCH - DATA SET WAS OPENED BUT	80650000
				1053+*		NO DATA WAS WRITTEN (QSAM)	80700000
		00080		1054+DCBSTQCK	EQU	DCBBIT0 - STOP EQUAL QUICK WAS SPECIFIED FOR	80710000
				1055+*		APPLICATION PROG. DCBS (TCAM)	80720000
		00040		1056+DCBSTFLS	EQU	DCBBIT1 - STOP EQUAL FLUSH WAS SPECIFIED FOR	80730000
				1057+*		APPLICATION PROG. DCBS (TCAM)	80740000
		00040		1058+DCBCNSRD	EQU	DCBBIT1 - SEARCH DIRECT (BSAM, BPAM, QSAM)	80750000
		00020		1059+DCBCNEVB	EQU	DCBBIT2 - END OF VOLUME - USED BY EOB ROUTINES	80800000
				1060+*		(BSAM, BPAM, QSAM)	80850000
		00010		1061+DCBCNEVA	EQU	DCBBIT3 - END OF VOLUME - USED BY CHANNEL-END	80900000
				1062+*		APPENDAGE ROUTINES (BSAM, BPAM, QSAM)	80950000
		00004		1063+DCBCNBRM	EQU	DCBBIT5 - BLOCKED RECORD BIT MODIFIED (BSAM, BPAM,	81000000
				1064+*		QSAM)	81050000
		00001		1065+DCBCNEXB	EQU	DCBBIT7 - EXCHANGE BUFFERING SUPPORTED (QSAM)	81100000
00003D				1066+DCBCIND2	DS	BL1 - CONDITION INDICATORS	81150000
		00080		1067+DCBCNSTO	EQU	DCBBIT0 - PARTITIONED DATA SET - STOW HAS BEEN	81200000
				1068+*		PERFORMED (BSAM, BPAM, QSAM)	81250000
				1069+*		SEQUENTIAL DATA SET - UPDATE (BSAM, BPAM)	81300000
		00040		1070+DCBCNWRO	EQU	DCBBIT1 - DIRECT ORGANIZATION DATA SET - LAST I/O	81350000
				1071+*		WAS A WRITE RECORD ZERO	81400000
				1072+*		(BSAM, BPAM, QSAM)	81450000
				1073+*		SEQUENTIAL DATA SET - UPDATE EOF IS	81500000
				1074+*		INDICATED (BSAM, BPAM)	81550000
		00020		1075+DCBCNCLO	EQU	DCBBIT2 - CLOSE IN PROCESS (QSAM)	81600000
		00010		1076+DCBCNIOE	EQU	DCBBIT3 - PERMANENT I/O ERROR (BSAM, BPAM, QSAM)	81650000
		00008		1077+DCBCNBFP	EQU	DCBBIT4 - OPEN ACQUIRED BUFFER POOL	81700000
				1078+*		(BSAM, BPAM, QSAM)	81750000
		00004		1079+DCBCNCHS	EQU	DCBBIT5 - CHAINED SCHEDULING BEING SUPPORTED	81800000
				1080+*		(BSAM, BPAM, QSAM)	81850000
		00002		1081+DCBCNFEO	EQU	DCBBIT6 - FEOV BIT (BSAM, BPAM, QSAM)	81900000
		00001		1082+DCBCNQSM	EQU	DCBBIT7 - ALWAYS ZERO (BSAM, BPAM)	81950000
				1083+*		THIS IS A QSAM DCB (QSAM)	82000000
00003E				1084+DCBBLKSI	DS	H - MAXIMUM BLOCK SIZE	82100000
000040				1085+DCBWCPD	DS	AL1 - OFFSET OF WRITE CHANNEL PROGRAM FROM THE	82350000
				1086+*		START OF IOB	82400000
000041				1087+DCBWCPL	DS	FL1 - LENGTH OF WRITE CHANNEL PROGRAM	82450000
000042				1088+DCBOFFSR	DS	AL1 - OFFSET OF READ CCW FROM BSAM/BPAM PREFIX	82500000
				1089+*		OF IOB	82550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000043				1090+DCBOFFSW DS	AL1 -	OFFSET OF WRITE CCW FROM BSAM/BPAM PREFIX OF IOB
000044				1091+*		82600000
				1092+DCBIOBA DS	A -	82650000
				1093+*		82700000
				1094+*		82750000
				1095+*		82800000
				1096+*		82850000
				1097+*		82900000
				1098+*		82950000
				1099+*		83000000
				1100+*		83050000
						83100000
000048		00044	1102+	ORG	IHADCB+68	83160000
000044			1103+DCBCICB DS	0A -	SAME AS DCBCICBA BELOW	83200000
000044			1104+	DS	X -	83250000
000045			1105+DCBCICBA DS	AL3 -	DCBNCP (BSAM,BPAM)	83300000
			1106+*		POINTER TO JES C.I.	83350000
					CONTROL BLOCK (CICB)	
000048		00050	1108+	ORG	IHADCB+80	83450000
000050			1109+DCBDIRECT DS	0H -	NUMBER OF BYTES USED IN LAST DIRECTORY	83500000
			1110+*		BLOCK (RANGE 0-254) (BSAM, BPAM)	83550000
000050			1111+DCBQSW S DS	0BL1 -	FLAG BYTE	83600000
		00004	1112+DCBPOPEN EQU	DCBBIT5 -	QSAM PARALLEL INPUT PROCESSING	83601000
000050			1113+DCBUSASI DS	B -	FLAG BYTE FOR ASCII TAPES	83650000
		00040	1114+DCBBLBP EQU	DCBBIT1 -	BLOCK PREFIX IS FOUR BYTE FIELD	83700000
			1115+*		CONTAINING BLOCK LENGTH IN UNPACKED	83750000
			1116+*		DECIMAL (SPECIFIED BY BUFFER=L).	83800000
		00038	1117+DCBQADFS EQU	DCBBIT2+DCBBIT3+DCBBIT4	USED TO PERFORM SEQUENCE	83850000
			1118+*		CHECKING WITH MULTIPLE FUNCTION SUPPORT	83900000
			1119+*		FOR 3525 (BSAM, QSAM)	83950000
		00020	1120+DCBQADF1 EQU	DCBBIT2 -	FIRST BIT OF DCBQADFS	84000000
		00010	1121+DCBQADF2 EQU	DCBBIT3 -	SECOND BIT OF DCBQADFS	84050000
		00008	1122+DCBQADF3 EQU	DCBBIT4 -	THIRD BIT OF DCBQADFS	84100000
		00002	1123+DCB3525A EQU	DCBBIT6 -	DCB IS 3525 - ASSOCIATED DATA	84110000
			1124+*		SETS EXIST	84120000
000051		00001	1125+DCBQSTRU EQU	DCBBIT7 -	TRUNC ENTRY POINT ENTERED (QSAM)	84150000
			1126+DCBBUFOF DS	OFL1 -	BLOCK PREFIX LENGTH (0-99), SPECIFIED BY	84200000
			1127+*		BUFOFF=N OR BUFOFF=L	84250000
000051			1128+DCBDIRCQ DS	FL1 -	NUMBER OF BYTES USED IN LAST DIRECTORY	84300000
			1129+*		BLOCK (RANGE 0-254) (QSAM)	84350000
			1131+*****		*****	84451000
			1132+*		BSAM-BPAM INTERFACE	84500000
			1133+*****		*****	84501000
000052		00048	1135+	ORG	IHADCB+72	84600000
000048			1136+DCBEOBR DS	0A -	ADDRESS OF END-OF-BLOCK MODULE FOR READ	84650000
000048			1137+DCBNCP DS	FL1 -	NUMBER OF CHANNEL PROGRAMS.	84750000
			1138+*		NUMBER OF READ OR WRITE REQUESTS WHICH	85000000
			1139+*		MAY BE ISSUED PRIOR TO A CHECK, NUMBER	85050000
			1140+*		OF IOB'S GENERATED. (99 MAXIMUM)	85100000
000049			1141+DCBEOBRA DS	AL3 -	ADDRESS OF END-OF-BLOCK MODULE FOR READ	85150000
00004C			1142+DCBEOBW DS	A -	ADDRESS OF END-OF-BLOCK MODULE FOR WRITE.	85200000
			1143+*		FOR BSAM CREATE BDAM PROCESSING OF	85250000
			1144+*		UNBLOCKED SPANNED RECORDS WITH BKTEK=R	85300000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				1145+*	SPECIFIED, ADDRESS OF SEGMENT WORK AREA	85350000
				1146+*	CONTROL BLOCK	85400000
000050				1147+ DS H -	DCBDIRECT - NUMBER OF BYTES USED IN LAST	85450000
				1148+*	DIRECTORY BLOCK (RANGE 0-254)	85500000
000052				1149+DCBLRECL DS H -	LOGICAL RECORD LENGTH	85600000
000054				1150+DCBCNTRL DS 0A -	ADDRESS OF CNTRL MODULE	85850000
000054				1151+DCBNOTE DS 0A -	ADDRESS OF NOTE/POINT MODULE	85900000
000054				1152+DCBPOINT DS A -	ADDRESS OF NOTE/POINT MODULE	85950000
				1154+*****		86051000
				1155+*	QSAM INTERFACE	86100000
				1156+*****		86101000
000058		00048		1158+ ORG IHADCB+72		86650000
000048				1159+DCBLCCW DS 0A -	FOR EXCHANGE BUFFERING, ADDRESS OF LAST	86700000
				1160+*	CCW IN LIST	86750000
000048				1161+DCBEOBAD DS A -	FOR SIMPLE BUFFERING, ADDRESS OF LAST	86800000
				1162+*	BYTE OF CURRENT BUFFER	86850000
00004C				1163+DCBCCCW DS 0A -	FOR EXCHANGE BUFFERING, ADDRESS OF	86900000
				1164+*	CURRENT OR NEXT CCW	86950000
00004C				1165+DCBRECAD DS 0A -	ADDRESS OF CURRENT OR NEXT LOGICAL RECORD	87000000
00004C				1166+DCBRECBT DS BL1 -	FLAG BYTE	87050000
		000F0		1167+DCBRCREL EQU DCBBIT0+DCBBIT1+DCBBIT2+DCBBIT3	RELSE MACRO HAS BEEN	87100000
				1168+*	ISSUED (QSAM WITH SIMPLE BUFFERING)	87150000
		00080		1169+DCBRCTRU EQU DCBBIT0 -	TRUNC MACRO HAS BEEN ISSUED (QSAM LOCATE	87200000
				1170+*	MODE)	87250000
		00040		1171+DCBRCFGT EQU DCBBIT1 -	FIRST GET AFTER OPEN (QSAM LOCATE MODE)	87300000
00004D				1172+DCBRECA DS AL3 -	ADDRESS OF CURRENT OR NEXT LOGICAL RECORD	87350000
000050				1173+ DS B -	DCBQSW - FLAG BYTE	87400000
000051				1174+ DS FL1 -	DCBDIRCQ - NUMBER OF BYTES USED IN LAST	87450000
				1175+*	DIRECTORY BLOCK (RANGE 0-254)	87500000
000052				1176+ DS H -	DCBLRECL - LOGICAL RECORD LENGTH	87750000
000054				1177+ DS 0A -	DCBCNTRL - ADDRESS OF CNTRL MODULE	88000000
000054				1178+DCBEROPT DS BL1 -	ERROR OPTION	88100000
		00080		1179+DCBERACC EQU DCBBIT0 -	ACCEPT PERMANENT ERROR	88150000
		00040		1180+DCBERSKP EQU DCBBIT1 -	SKIP PERMANENT ERROR	88200000
		00020		1181+DCBERABE EQU DCBBIT2 -	ABNORMAL END OF TASK	88250000
000055				1182+ DS AL3 -	DCBCNTRA - ADDRESS OF CNTRL MODULE	88500000
000058				1183+ DS XL2 -	RESERVED	88600000
00005A				1184+DCBPRECL DS H -	FORMAT F RECORDS: BLOCK LENGTH	88601000
				1185+*	FORMAT U RECORDS: MAXIMUM BLOCK LENGTH	88602000
				1186+*	FORMAT V RECORDS:	88603000
				1187+*	UNSPANNED RECORDS: MAXIMUM BLOCK LENGTH	88604000
				1188+*	SPANNED RECORDS:	88605000
				1189+*	PUT, NOT DATA MODE:	88606000
				1190+*	MAXIMUM BOLCK LENGTH	88607000
				1191+*	PUT, DATA MODE:	88608000
				1192+*	DATA LENGTH	88609000
				1193+*	GET:	88610000
				1194+*	SEGMENT CONTROL CODE OF PREVIOUS	88611000
				1195+*	SEGMENT	88612000
00005C				1196+DCBEOB DS A -	ADDRESS OF END OF BLOCK MODULE	88750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				1199	COPY DISASMDA	04710000
				1200	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				1201	PRINT OFF	00020000
				1412	PRINT ON	02130000
				1413	.DA020 ANOP	02140000
				1414	*-----*	04720000
				1415	*	* 04730000
				1416	* COMMON DATA MAP	* 04740000
				1417	*	* 04750000
				1418	*-----*	* 04760000
				1419	DISASM00 DISASMCM TYPE=DSECT	04770000
				1420+	PRINT OFF	00280000
				2051+	PRINT ON	06440000
				2052+	*-----*	* 06460000
				2053+	*	* 06470000
				2054+	* ABEND REASON CODES	* 06480000
				2055+	*	* 06490000
				2056+	*-----*	* 06500000
		00001		2057+ABEND001	EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000
		00002		2058+ABEND002	EQU 2 UNKNOWN RETURN CODE FROM BLDL	06520000
		00003		2059+ABEND003	EQU 3 UNKNOWN RLD ITEM TYPE	06530000
		00004		2060+ABEND004	EQU 4 RLD DATA REMAINING WENT NEGATIVE	06540000
		00005		2061+ABEND005	EQU 5 ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000		2064+R0	EQU 0	00070000
		00001		2065+R1	EQU 1	00080000
		00002		2066+R2	EQU 2	00090000
		00003		2067+R3	EQU 3	00100000
		00004		2068+R4	EQU 4	00110000
		00005		2069+R5	EQU 5	00120000
		00006		2070+R6	EQU 6	00130000
		00007		2071+R7	EQU 7	00140000
		00008		2072+R8	EQU 8	00150000
		00009		2073+R9	EQU 9	00160000
		0000A		2074+R10	EQU 10	00170000
		0000B		2075+R11	EQU 11	00180000
		0000C		2076+R12	EQU 12	00190000
		0000D		2077+R13	EQU 13	00200000
		0000E		2078+R14	EQU 14	00210000
		0000F		2079+R15	EQU 15	00220000
000C68				2081	DISASM00 DSECT , BACK TO WANTED DSECT	04780000
000C68		00710		2082	ORG PRTDATA AND RECORD MAPPING	04790000
		00719		2083	PLDISP EQU PRTDATA+09,6,C'C' DISPLACEMENT	04800000
		0072C		2084	PLINST EQU PRTDATA+28,6,C'C' OPCODE	04810000
000710		00710		2085	ORG PRTDATA	04820000
000710				2086	OUTLCTR DS CL8,C LOCATION COUNTER	04830000
000719				2087	OUTRORG DS CL2,C RECORD ORIGIN	04840000
00071C				2088	OUTPORG DS CL2,C PARENT ORIGIN	04850000
00071F				2089	OUTRTYP DS CL2,C RECORD TYPE	04860000
000722				2090	OUTMTYP DS CL2,C MACHINE INSTRUCTION	04870000
000725				2091	OUTFLGS DS CL2,C FLAGS	04880000
000728				2092	OUTSTMT DS CL5 STATEMENT NUMBER	04890000
00072D				2093	OUTIND DS C ADD INDICATOR	04900000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00072E				2094	OUTCARD	DS CL80	SOURCE RECORD 04910000
00077E				2095		DS CL2	04920000
				2096	*DEBUG*	OUTRLF DS CL8,C	RELATIVE FILE NUMBERS 04930000
000780				2097	OUTMEM	DS CL8,C	SOURCE MEMBER 04940000
000789		00C68		2098	ORG	,	04950000
				2099	END	,	04960000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
\$ABORT	00001	00000080	01533	00238																
\$ERROR	00001	00000040	01534	00238	00377															
\$OPMASK	00001	00000001	02046	01702																
\$PFASM	00001	00000040	01557	00079	00205	00379														
\$PFBUG	00001	00000001	01560	00101																
\$PFCOPY	00001	00000040	01563	00166	00200															
\$PFHAVE	00001	00000002	00513	00234	00358															
\$PFMAC	00001	00000080	01562	00170	00191															
\$PFTRC	00001	00000001	01554	01789	01791															
\$PRTHEAD	00001	000000C8	01911	00085																
\$PRTPRT	00001	000000D7	01913	01899	01920															
\$PRTSUBH	00001	000000E2	01912	01795																
\$PUNCHDD	00001	00000010	01543	00061	00359															
ABORTER	00004	0000027A	00232	00073	00078															
ADLEN	00002	00000000	00566	00105	00136															
ADORG	00002	0000000C	00580	00583	00630															
ADRECID	00001	00000030	00584	00386																
ADRTYP	00002	00000005	00570	00095																
AOP	00004	000000AC	01460	01683																
APR	00004	000000B8	01462	01902																
APU	00004	000000BC	01463	01923																
ASINPND	00002	0000001E	00590	00223																
ASLOCTR	00004	00000020	00591	00207																
ASMADATA	00001	00000000	00565	00094	00581	00628	00637													
ASMCLN	00002	0000004A	00621	00120	00130															
ASPRORG	00001	00000025	00597	00115	00184	00198														
ASPTLEN	00002	0000004C	00622	00122	00133															
ASRCOMA	00001	00000003	00595	00113	00150															
ASRCOMAD	00001	00000005	00604	00391																
ASRCOMAR	00001	00000004	00603	00390																
ASRCOMG	00001	00000002	00594	00152																
ASRCOPI	00001	00000001	00593	00117																
ASRCORG	00001	00000024	00592	00113	00117	00150	00152	00210												
ASRTASM	00001	00000003	00602	00388	00389															
ASRTEXT	00080	00000058	00627	00118	00129															
ASRTYPE	00001	00000029	00599	00156	00158	00160	00162	00214												
ASSRLEN	00002	0000004E	00623	00097																
ASSTMT	00004	0000000C	00585	00219																
BASEDSCT	00001	00000000	01219	01227																
BLKTRT	00001	00000A68	01960	01961	01963	01965	01967	01969	01971	01973	01975	01977	01979	01981	01983	01985				
CHARPRT	00001	00000672	00532	00344	00533	00535	00537	00539	00541	00543	00545	00547	00549	00551	00553	00555	00557			
COMMBLKS	00001	00000225	01578	00137																
COMMCLR	00004	000000F8	01489	01509	01513															
COMMCSNM	00008	0000014C	01512	00124	00125															
COMMDD	00001	00000164	01539	00061	00359															
COMMDDWRD	00008	00000000	01427	00220	00222	01814	01815													
COMMFILL	00001	00000161	01530	01859																
COMMFLAG	00001	00000163	01532	00238	00377															
COMMHXCH	00016	00000275	01579	01580																
COMMHXTR	00016	00000185	01580	01806	01809	01812	01816													
COMMNPRT	00001	000003C7	01635	01636	01638	01640	01642	01644	01646	01648	01650	01652	01654	01656	01658	01660				
COMMPOOL	00001	00000162	01531	01851	01866															
COMMPRT	00001	000002C7	01606	01607	01609	01611	01613	01615	01617	01619	01621	01623	01625	01627	01629					
COMMSUBH	00133	0000016D	01574	00081	01792															
COMMSUBL	00002	00000154	01524	00083	00084	01793	01793	01794												

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
CONDCODE	00002	0000054C	00511	00246															
DATACLR	00004	0000026C	00228	00206															
DATADCB	00004	000004AC	00459	00077	00090	00399													
DATADSCT	00001	00000000	01234	01255															
DATAGET	00004	000000DA	00090	00096	00099	00227	00229												
DCBBIT0	00001	00000080	00662	00748	00756	00768	00791	00818	00820	00821	00823	00846	00849	00869	00873	00888	00925	00980	
				01011	01050	01054	01067	01167	01169	01179									
DCBBIT1	00001	00000040	00663	00749	00757	00770	00792	00793	00802	00818	00820	00822	00823	00851	00869	00871	00873	00891	
				00892	00893	00928	00929	00980	01013	01056	01058	01070	01114	01167	01171	01180			
DCBBIT2	00001	00000020	00664	00750	00758	00771	00772	00773	00792	00793	00797	00803	00818	00819	00824	00853	00874	00875	
				00896	00897	00898	00932	00933	00981	01018	01059	01075	01117	01120	01167	01181			
DCBBIT3	00001	00000010	00665	00751	00771	00773	00774	00792	00805	00825	00856	00874	00877	00900	00901	00902	00936	00937	
				00981	01020	01023	01025	01061	01076	01117	01121	01167							
DCBBIT4	00001	00000008	00666	00759	00806	00826	00857	00879	00884	00885	00905	00906	00940	00941	00943	00944	00982	01028	
				01077	01117	01122													
DCBBIT5	00001	00000004	00667	00760	00807	00829	00830	00859	00879	00881	00882	00885	00909	00911	00912	00913	00947	00948	
				00949	00950	00982	01030	01033	01063	01079	01112								
DCBBIT6	00001	00000002	00668	00752	00808	00809	00812	00829	00831	00860	00916	00917	00918	00919	00953	00954	00955	00956	
				00983	01036	01081	01123												
DCBBIT7	00001	00000001	00669	00753	00808	00810	00812	00833	00864	00921	00922	00959	00960	00962	00963	01039	01065	01082	
				01125															
DCBFDAD	00008	00000005	00689	00692															
DCBLIST	00004	00000444	00395	00240	00400														
DCBLIST2	00004	00000448	00400	00075															
DCBOFLGS	00001	00000030	00845	00072	00077														
DCBOFOPN	00001	00000010	00856	00072	00077														
DISASMDT	00001	00000000	00045	00046	00052														
DISASM00	00001	00000000	01421	00053	01434	01673	01750	01787	01848	01884	02081								
DISPUNCH	00004	0000044C	00405	00070	00072	00362	00397												
DMPEXTRN	00006	000003D0	00344	00282															
DMPEXTXT	00006	000003CA	00343	00281															
DMPLEXMV	00006	000003B8	00340	00297															
DMPLEXTR	00006	000003C4	00342	00303															
DMPLEXUN	00006	000003BE	00341	00301															
DMPLGRUP	00004	00000314	00287	00313															
DMPLLINE	00004	000002EE	00274	00334															
DMPLWORD	00004	00000318	00288	00311															
DMPLZLOP	00004	00000392	00328	00332															
DMPLZPUT	00004	000003A6	00333	00329															
DSCTDSCT	00001	00000000	01262	01268															
DUMPLINE	00004	000002BA	00259	00107															
DUMPLINX	00004	000003AE	00336	00273	00310	00316	00318												
DUMPSAVE	00004	0000050C	00510	00259	00337														
EMSG00T	00051	000005C9	00523	00522															
EMSG01	00001	0000055C	00517	00232															
EMSG01T	00048	0000055D	00518	00517															
EMSG02	00001	0000058D	00519	00236															
EMSG02T	00058	0000058E	00520	00519															
EODAD	00004	00000282	00234	00477															
ESDDATA	00001	00000000	01275	01298															
ESDNAME	00008	0000000E	01279	01294															
EXGETOPC	00006	00000554	01714	01707															
EXIT0010	00004	0000028E	00237	00233															
EXIT0020	00004	00000296	00240	00235															
EXMVCMEM	00006	00000274	00230	00128															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18												
GEN0010	00004	000000AA	00075	00062													
GEN0015	00002	000000DA	00087	00080													
GETOPEXT	00004	00000546	01710	01703													
GETOPLN	00001	0000055A	01715	01681													
GETOPNOT	00004	0000054E	01712	01686	01696	01701	01709										
GETOPTMK	00004	00000526	01702	01687													
GETOPWRK	00006	0000055E	01716	01706	01706	01708	01714										
GOCOPY	00004	000001EC	00197	00151													
GOMACRO	00004	000001D0	00183	00153													
GOPRINT	00004	0000020C	00207	00159	00185	00192	00201										
GOPUNCH	00004	00000200	00204	00164	00167	00171	00175	00179	00193	00202							
HEXEDIN	00004	0000054F	00514	00340	00341	00346	00347	00347									
HEXEDOUT	00008	00000553	00515	00209	00212	00213	00216	00217	00218	00267	00270	00322	00325	00347	00347	00348	
HEXTAB	00016	000003E8	00350	00351													
HEXTRT	00001	00000868	01942	01943	01945	01947	01949	01951									
HEXTRTAB	00016	000002F8	00351	00342	00348												
HEX2EBC	00004	000003D6	00346	00208	00211	00215	00224	00266	00269	00321	00324						
IHADCB	00001	00000000	00645	00072	00077	00730	00777	00842	00971	00986	00993	01006	01102	01108	01135	01158	
INTTRT	00001	00000968	01953	01954	01956	01958											
LABLDSC	00001	00000000	01305	01321													
LOCFLAG	00001	0000054E	00512	00234	00358												
MAINRSV	00004	00000858	01940	01849	01855	01857	01861	01864	01870								
MEMCOPY	00004	00000142	00126	00121	00123												
MEMNCOPY	00004	0000014E	00129	00127													
MEMNPNAM	00004	00000162	00134	00132													
MODENT	00004	00000064	00050	00046													
MODHEAD	00023	00000005	00048	00047													
MODSAVE	00004	0000001C	00049	00054													
NBLTRT	00001	00000B68	01987	01988	01990												
NOBUG	00004	00000110	00113	00102													
NOT03ERR	00004	00000124	00118	00114	00116												
OPDSECT	00001	00000000	02009	01684	02047												
OPFLAGS	00001	00000007	02038	01702													
OPFLAG1	00001	00000001	02011	01691													
OPFLAG2	00001	00000002	02012	01693													
OPFLAG3	00001	00000003	02013	01695													
OPMASK	00006	00000008	02048	01708													
OPMNEM	00006	00000000	02010	02011	02012	02013											
ORG01COM	00004	000001C4	00174	00168													
ORG01COP	00004	000001B0	00166	00157													
ORG01INL	00004	000001CC	00179	00163													
ORG01MAC	00004	000001BC	00170	00161													
OUTCARD	00080	0000072E	02094	00134	00135	00174	00363										
OUTFLGS	00002	00000725	02091	00218													
OUTIND	00001	0000072D	02093	00183	00186	00197											
OUTLCTR	00008	00000710	02086	00209													
OUTMEM	00008	00000780	02097	00230													
OUTMTYP	00002	00000722	02090	00217													
OUTPORG	00002	0000071C	02088	00213													
OUTRORG	00002	00000719	02087	00212													
OUTRTYP	00002	0000071F	02089	00216													
OUTSTMT	00005	00000728	02092	00221	00222	00222											
PLDISP	00006	00000719	02083	00267	00270	00271	00322	00325	00326								
PLINST	00006	0000072C	02084	00285													
PRINTCLR	00004	00000702	01905	00381													

SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 00.48 07/11/18							
PRINTDAT	00004	000006F0	01900	00086	01796																		
PRINTFG1	00001	00000165	01547	01789	01791																		
PRINTFG2	00001	00000166	01555	00079	00101	00205	00379																
PRINTFG3	00001	00000167	01561	00166	00170	00191	00200																
PRINTMSG	00004	000006BE	01885	00237																			
PRINTMVR	00006	000006E6	01897	01894																			
PRINTREC	00004	000006EC	01899	00376	01818	01896																	
PRINTREX	00004	000006FE	01904	01888																			
PRINTRSV	00004	00000848	01939	01885	01895	01900	01904	01921	01925														
PRTBLOK	00001	0000070E	01909	01901																			
PRTCC	00001	0000070F	01916	01905																			
PRTCLEAR	00004	00000426	00381	00228																			
PRTCMD	00001	0000070E	01910	00085	01795	01899	01920																
PRTDATA	00132	00000710	01917	00260	00283	00284	00343	00344	01803	01804	01805	01806	01807	01808	01809	01810	01811	01812					
				01813	01815	01816	01817	01889	01897	01906	01906	02082	02083	02084	02085								
PRT0000	00004	00000412	00376	00226	00319	00336																	
PRT0010	00002	0000042A	00382	00378	00380																		
PUNBLOK	00001	000007B2	01928	01922																			
PUNCH000	00004	000003F8	00358	00204																			
PUNDATA	00080	000007B4	01934	01919																			
REFDSCT	00001	00000000	01328	01338																			
RLDDATA	00001	00000000	01345	01363																			
R0	00001	00000000	02064	00097	00098	00098	00207	00210	00214	00219	00220	00223	00249	00259	00265	00268	00288	00291					
				00293	00320	00323	00337	00346	01674	01680	01680	01681	01704	01752	01771	01788	01827	01851					
				01856	01860	01866	01889	01890	01892	01895													
R1	00001	00000001	02065	00082	00083	00093	00232	00236	00298	00300	00307	00308	00309	01676	01690	01710	01712	01714					
				01751	01753	01757	01757	01758	01760	01762	01849	01855	01856	01857	01861	01885	01887	01897					
				01900	01901	01904	01919	01921	01922	01925													
R10	00001	0000000A	02074	00093	00094	00103																	
R11	00001	0000000B	02075	00053	01673	01750	01787	01848	01884														
R12	00001	0000000C	02076	00050	00051	00052	00249	01764															
R13	00001	0000000D	02077	00050	00055	00056	00057	00247	00247	00248	00249												
R14	00001	0000000E	02078	00050	00054	00055	00056	00057	00059	00064	00086	00107	00118	00125	00134	00138	00230	00237					
				00244	00248	00250	00274	00276	00278	00280	00281	00282	00289	00291	00293	00295	00298	00299					
				00300	00301	00302	00303	00304	00326	00328	00330	00331	00331	00333	00338	00382	01677	01678					
				01679	01681	01688	01688	01690	01692	01694	01695	01697	01697	01698	01699	01710	01711	01713					
				01765	01772	01796	01818	01828	01849	01860	01861	01862	01864	01870	01871	01885	01895	01900					
				01903	01904	01907	01921	01924	01925	01926													
R15	00001	0000000F	02079	00046	00051	00119	00119	00120	00122	00124	00126	00128	00135	00246	00259	00295	00296	00297					
				00327	00332	00337	00376	00381	00382	01674	01675	01675	01676	01678	01682	01683	01684	01685					
				01685	01699	01700	01700	01712	01752	01771	01788	01827	01858	01858	01859	01864	01870	01886					
				01886	01887	01890	01892	01893	01894	01902	01903	01923	01924										
R2	00001	00000002	02066	00103	00129	00130	00131	00133	00138	00265	00307	00320	00340	00343	01689	01689	01691	01692					
				01693	01694																		
R3	00001	00000003	02067	00104	00104	00105	00136	00137	00268	00272	00272	00276	00278	00289	00309	00317	00317						
R4	00001	00000004	02068	00106	00106	00261	00261	00263	00315	01704	01705	01707											
R5	00001	00000005	02069	00286	00313	01797	01800	01820	01820	01821	01823	01825											
R7	00001	00000007	02071	00264	00264	00308	00315	00323															
R8	00001	00000008	02072	00285	00304	00305	00306	00306	00312	00312	00341	00342											
R9	00001	00000009	02073	00204	00208	00211	00215	00224	00226	00228	00266	00269	00287	00311	00319	00321	00324	00336					
				00349	00360	00366	00383																
SUBHEAD	00008	000005FC	00525	00081	00530																		
SUBHEADL	00001	00000076	00530	00081	00082																		
SYMDATA	00001	00000000	01370	01375																			
TPODA1A	00008	00000017	01832	01805	01805	01806	01806	01807	01807														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TPODA1B	00008	00000020	01833	01808 01808 01809 01809 01810 01810	
TPODA2A	00008	0000002A	01834	01811 01811 01812 01812 01813 01813	
TPODA2B	00008	00000033	01835	01815 01815 01816 01816 01817 01817	
TPOMOD	00008	00000003	01830	01803 01803	
TPOTID	00008	0000000D	01831	01804 01804	
TRACEPEN	00004	00000662	01827	01790 01799 01822	
TRACEPIN	00004	00000646	01820	01798 01802	
TRACEPPR	00004	000005E2	01801	01824 01826	
TRACESHD	00027	00000668	01836	01792 01792 01793	
TRACE000	00002	00000564	01749	00059 00064 00244	
TRACE010	00002	00000580	01761	01759	
TRACE020	00002	000005A8	01770	01754	
TRCESAVE	00004	00000808	01938	01674 01710 01712 01752 01771 01788 01827	
TRCURR	00004	000000D4	01475	01753 01762 01797 01821	
TRDATA1	00008	000000E0	01478	01766 01768 01768	
TRDATA2	00008	000000E8	01479	01767 01769 01769	
TREDATA1	00008	00000010	02000	01766 01805 01808	
TREDATA2	00008	00000018	02001	01767 01811 01814	
TREID	00008	00000008	01999	01765 01804	
TREMOD	00008	00000000	01998	01764 01801 01803	
TRENTYR	00001	00000000	01997	01751 01800 01819 01819 02002	
TRENTYRL	00001	00000020	02002	01757 01819 01820	
TRLAST	00004	000000CC	01473	01758 01823	
TR1ST	00004	000000C4	01471	01760 01825	
USNGDSC	00001	00000000	01382	01396	
VERPSECT	00001	00000000	01403	01409	
ZZZZ15	00002	000002FA	00279	00277	
ZZZZ16	00002	00000326	00294	00292	

DADT				LITERAL CROSS-REFERENCE				PAGE 33	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18				
=Y(ADRECID)									
	00002	00000430	00386	00095					
=H'1'	00002	00000432	00387	00126					
=AL1(ASRTASM,12)									
	00001	00000434	00388	00156					
=AL1(ASRTASM,51)									
	00001	00000436	00389	00158					
=AL1(ASRCOMAR,0)									
	00001	00000438	00390	00160					
=AL1(ASRCOMAD,0)									
	00001	0000043A	00391	00162					
=X'2020202120'									
	00005	0000043C	00392	00221					

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	496
TOTAL RECORDS READ FROM SYSTEM LIBRARY	7300
TOTAL RECORDS PUNCHED	49
TOTAL RECORDS PRINTED	1619

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
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SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
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DISASMLS  SD  0001 000000 000797
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2	*****	00020000
				3	**	** 00030000
				4	** DISASMLS - PROGRAM TO READ SYSPRINT OUTPUT AND PRODUCE (SOME?)	** 00040000
				5	** SOURCE, WITH OR WITHOUT EXPANSION OF MACRO AND COPY CODE	** 00050000
				6	**	** 00060000
				7	** INPUT: DD DISLIST - ASSEMBLER LISTING.	** 00070000
				8	**	** 00080000
				9	** OUTPUT: DD DISPRINT - SOURCE, WITH ASSEMBLER OFFSETS, ETC.	** 00090000
				10	**	** 00100000
				11	** DD DISPUNCH - SOURCE IN CARD FORMAT	** 00110000
				12	**	** 00120000
				13	** OPTIONS (SET IN DISASM02):	** 00130000
				14	** ASM - PRINT SOURCE WITH ANNOTATIONS (DEFAULT)	** 00140000
				15	** NOMAC - DO NOT PUNCH MACRO EXPANSIONS (DEFAULT)	** 00150000
				16	** NOCOPY - DO NOT PUNCH COPY INCLUDED CODE (DEFAULT)	** 00160000
				17	** MAC - PUNCH MACRO EXPANSION; COMMENT MACRO INVOCATION	** 00170000
				18	** COPY - PUNCH COPIED CODE; COMMENT COPY STATEMENT	** 00180000
				19	**	** 00190000
				20	** (NOTE THAT A COPY INSIDE AN IN-LINE MACRO, AND A MACRO COPIED	** 00200000
				21	** IN-LINE MAY PRODUCE UNEXPECTED OUTPUT)	** 00210000
				22	**	** 00220000
				23	*****	00230000
				24	**	** 00240000
				25	** ADDED BY GERHARD POSTPISCHIL JUNE 1999	** 00250000
				26	**	** 00260000
				27	*****	00270000
				28	COPY DISASMGB	00280000
				29	* -----	* 00010000
				30	*	* 00020000
				31	* GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				32	*	* 00040000
				33	* DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				34	*	* 00060000
				35	* -----	* 00070000
				36	GBLA &TRNBRG,&MAXL,&MINL	00080000
				37	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				38	GBLC &TROPT,&DAPRT,&COMPT	00100000
				39	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
				40	DISASMLS MODHEAD BASE=(R12) ENTRY HOUSEKEEPING	00290000
000000				41+	DISASMLS START 0	00070000
000000	47F0 F064	00064		42+	B MODENT-DISASMLS(,R15) BRANCH AROUND	00100000
000004	17			43+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4D3E2			44+	MODHEAD DC C'DISASMLS 07/11/18 00.48'	00120000
00001C	0000000000000000			45+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		46+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			47+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
		00000		48+	USING DISASMLS,R12	00330000
		00000		49+	USING DISASM00,R11	00360000
00006A	41E0 C01C	0001C		50+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008	00008		51+	ST R14,8(,R13) CHAIN DOWN	00380000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000072	50D0	E004	00004		52+	ST	R13,4(,R14) CHAIN UP	00390000
000076	18DE				53+	LR	R13,R14 NEW SAVE AREA	00400000
					54	ITRACE	ID=ENTRY	00300000
000078	45E0	B564	00564		55+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00007C	C5D5E3D9E8404040				56+	DC	CL8'ENTRY' TRACE ID	00670000
000084	9110	B164	00164		57	TM	COMMDD,\$PUNCHDD IS DISPUNCH DD PRESENT?	00310000
000088	47E0	C0AA	000AA		58	BNO	GEN0010 NO	00320000
					59	ITRACE	ID=OPENPNCH	00330000
00008C	45E0	B564	00564		60+	BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
000090	D6D7C5D5D7D5C3C8				61+	DC	CL8'OPENPNCH' TRACE ID	00670000
					62	OPEN	(DISPUNCH,OUTPUT) OPEN DISPUNCH	00340000
000098					63+	CNOP	0,4 ALIGN LIST TO FULLWORD	01740001
000098	4510	C0A0	000A0		64+	BAL	1,*+8 LOAD REG1 W/LIST ADDR.	01780000
00009C	8F				65+	DC	AL1(143) OPTION BYTE	01900000
00009D	00031C				66+	DC	AL3(DISPUNCH) DCB ADDRESS	01920000
0000A0	0A13				67+	SVC	19 ISSUE OPEN SVC	04000000
0000A2	9110	C34C	0034C		68	TM	DCBOFLGS-IHADCB+DISPUNCH,DCBOFOPN	00350000
0000A6	4780	C134	00134		69	BZ	ABORTER	00360000
					70	GEN0010	OPEN MF=(E,DCBLIST2) OPEN DISLIST	00370000
0000AA	4110	C318	00318		71+GEN0010	LA	1,DCBLIST2 LOAD PARAMETER REG 1	01900002
0000AE	0A13				72+	SVC	19 ISSUE OPEN SVC	04000000
0000B0	9110	C3AC	003AC		73	TM	DCBOFLGS-IHADCB+LISTDCB,DCBOFOPN	00380000
0000B4	4780	C134	00134		74	BZ	ABORTER	00390000
0000B8	4590	C174	00174		75	BAL	R9,GETLINE PRIME IT	00400000
0000BC	4590	C174	00174		77	DATAGET	BAL R9,GETLINE GET A RECORD	00420000
					79 *	NOW PROCESS BY TYPE		00440000
					80 *	OUTIND		00450000
					81 *	SOURCE RECORD		00460000
					82 *	+ MACRO EXPANSION		00470000
					83 *	C COPIED CODE		00480000
					84 *	ONE RECORD IS STACKED TO ALLOW TESTING WHETHER THE NEXT RECORD		00490000
					85 *	IS COPIED OR EXPANDED. IF SO, THE USER'S EXPANSION OPTIONS		00500000
					86 *	ARE PROCESSED.		00510000
0000C0	95C3	B737	00737		88	CLI	OUTIND,C'C' COPIED TEXT?	00530000
0000C4	4780	C10C	0010C		89	BE	GOCOPY YES	00540000
0000C8	954E	B737	00737		90	CLI	OUTIND,C'+' MACRO GENERATED?	00550000
0000CC	4780	C100	00100		91	BE	GOMACRO	00560000
					92 *	PRIMARY INPUT.		00570000
					93 *			00580000
0000D0	95C3	C4B6	004B6		94	CLI	NEXTREC+OUTIND-OUTREC,C'C' IS NEXT RECORD A COPY?	00590000
0000D4	4780	C0E4	000E4		95	BE	ORG01COP YES	00600000
0000D8	954E	C4B6	004B6		96	CLI	NEXTREC+OUTIND-OUTREC,C'+' IS NEXT RECORD EXPANDED	00610000
0000DC	4780	C0F0	000F0		97	BE	ORG01MAC YES	00620000
0000E0	47F0	C118	00118		98	B	GOPUNCH NOTHING ELSE SPECIAL - PROCESS	00630000
0000E4	9140	B167	00167		100	ORG01COP	TM PRINTFG3,\$PFCOPY EXPAND COPY OUTPUT?	00650000
0000E8	4780	C118	00118		101	BZ	GOPUNCH NO; PUNCH AND PRINT THE COPY STATEMENT	00660000
0000EC	47F0	C0F8	000F8		102	B	ORG01COM MAKE COMMENT; THEN PRINT	00670000
0000F0	9180	B167	00167		104	ORG01MAC	TM PRINTFG3,\$PFMAC EXPAND MACRO OUTPUT?	00690000
0000F4	4780	C118	00118		105	BZ	GOPUNCH NO; PUNCH AND PRINT THE MACRO	00700000
0000F8	925C	B738	00738		106	ORG01COM	MVI OUTCARD,C'*' PRINT AS COMMENT	00710000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0000FC	47F0	C118	00118		107	B	GOPUNCH PUNCH AND PRINT AS COMMENT	00720000
					109	*	EXPANSION RECORD (MACRO OR SUBSTITUTION)	00740000
					110	*		00750000
000100	9180	B167	00167		111	GOMACRO TM	PRINTFG3,\$PFMAC EXPAND MACROS?	00760000
000104	4780	C11C	0011C		112	BZ	GOPRINT NO; ONLY PRINT	00770000
000108	47F0	C118	00118		113	B	GOPUNCH ELSE PUNCH AND PRINT	00780000
					115	*	COPIED RECORD	00800000
					116	*		00810000
00010C	9140	B167	00167		117	GOCOPY TM	PRINTFG3,\$PFCOPY EXPAND COPY CODE?	00820000
000110	4780	C11C	0011C		118	BZ	GOPRINT NO; ONLY PRINT	00830000
000114	47F0	C118	00118		119	B	GOPUNCH ELSE PUNCH AND PRINT	00840000
000118	4590	C2C4	002C4		121	GOPUNCH BAL	R9,PUNCH000 PUNCH A CARD IMAGE	00860000
00011C	9140	B166	00166		122	GOPRINT TM	PRINTFG2,\$PFASM LIST ASSEMBLY CODE?	00870000
000120	4780	C12C	0012C		123	BZ	DATACL R NO	00880000
000124	4590	C2DE	002DE		124	BAL	R9,PRT0000 AND PRINT IT	00890000
000128	47F0	C0BC	000BC		125	B	DATAGET GET NEXT RECORD	00900000
00012C	4590	C2F2	002F2		126	DATACL R BAL	R9,PRTCLEAR CLEAR PRINT LINE	00910000
000130	47F0	C0BC	000BC		127	B	DATAGET GET NEXT RECORD	00920000
000134	4110	C423	00423		129	ABORTER LA	R1,MSG01	00940000
000138	47F0	C148	00148		130	B	EXIT0010	00950000
00013C	9102	C422	00422		131	EXIT0000 TM	LOCFLAG,\$PFHAVE DID WE FIND ANYTHING?	00960000
000140	4770	C150	00150		132	BNZ	EXIT0020 YES	00970000
000144	4110	C454	00454		133	LA	R1,MSG02	00980000
000148	45E0	B6BE	006BE		134	EXIT0010 BAL	R14,PRINTMSG ISSUE ERROR MESSAGE	00990000
00014C	96C0	B163	00163		135	OI	COMMFLAG,\$ABORT+\$ERROR SET FLAGS	01000000
					136	EXIT0020 CLOSE	MF=(E,DCBLIST) CLOSE OUTPUT DCBS	01010000
000150	4110	C314	00314		137	+EXIT0020 LA	1,DCBLIST LOAD PARAMETER REG 1	01900002
000154	0A14				138	+ SVC	20 ISSUE CLOSE SVC	01640000
					140		ITRACE ID=EXIT	01030000
000156	45E0	B564	00564		141	+ BAL	R14,TRACE000 ENTER TRACE ROUTINE	00640000
00015A	C5E7C9E340404040				142	+ DC	CL8'EXIT' TRACE ID	00670000
000162	48F0	C420	00420		143	LH	R15,CONDCODE GET RETURN CODE	01040000
000166	58D0	D004	00004		144	L	R13,4(,R13) RESTORE REGISTER 13	01050000
00016A	58E0	D00C	0000C		145	L	R14,12(,R13) RESTORE RETURN	01060000
00016E	980C	D014	00014		146	LM	R0,R12,20(R13) RESTORE OTHER REGISTERS	01070000
000172	07FE				147	BR	R14 RETURN TO CALLER	01080000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					149	*****	01100000
					150	*	* 01110000
					151	* GETLINE SKIP UNTIL STMT LINE FOUND, THEN READ ONE AHEAD	* 01120000
					152	* SKIP UNLESS VALID STMT NUMBER (LEADING BLANKS, NO LD 0, >0)	* 01130000
					153	*	* 01140000
					154	*****	01150000
000174	902F	C3DC	003DC		155	GETLINE STM R2,R15,GETLSAVE SAVE IMPORTANT (?) REGISTERS	01160000
000178	9140	C422	00422		156	TM LOCFLAG,\$PFEOD2 SECOND END?	01170000
00017C	4770	C13C	0013C		157	BNZ EXIT0000 ALL CLEARED OUT?	01180000
000180	9180	C422	00422		158	TM LOCFLAG,\$PFEOD1 FIRST CALL AFTER EOF?	01190000
000184	4780	C190	00190		159	BZ GETLINEF NO	01200000
000188	97C0	C422	00422		160	XI LOCFLAG,\$PFEOD1+\$PFEOD2 TOGGLE	01210000
00018C	47F0	C2B0	002B0		161	B GETLINEX	01220000
000190	9101	C422	00422		162	GETLINEF TM LOCFLAG,\$PFSTMT FOUND STATEMENT?	01230000
000194	4770	C204	00204		163	BNZ GETLINES YES; LOOK FOR SOURCE	01240000
					164	GETLINEG GET LISTDCB GET A CARD	01250000
000198	4110	C37C	0037C		165+	GETLINEG LA 1,LISTDCB LOAD PARAMETER REG 1	01900002
00019C	58F0	1030	00030		166+	L 15,48(0,1) LOAD GET ROUTINE ADDR	00600000
0001A0	05EF				167+	BALR 14,15 LINK TO GET ROUTINE	00625000
0001A2	4100	0007	00007		168	LA R0,7	01260000
0001A6	41F0	1022	00022		169	LA R15,34(,R1)	01270000
0001AA	D508	C300	F000 00300	00000	170	GETLINEH CLC =C' STMT S',0(R15) SUBHEADER?	01280000
0001B0	4780	C1CA	001CA		171	BE GETLINEI	01290000
0001B4	D508	C309	F000 00309	00000	172	CLC =C' STMT S',0(R15) SUBHEADER?	01300000
0001BA	4780	C1CA	001CA		173	BE GETLINEI	01310000
0001BE	41F0	F001	00001		174	LA R15,1(,R15) TRY NEXT COLUMN	01320000
0001C2	4600	C1AA	001AA		175	BCT R0,GETLINEH	01330000
0001C6	47F0	C198	00198		176	B GETLINEG	01340000
0001CA	41F0	0007	00007		177	GETLINEI LA R15,7	01350000
0001CE	1BF0				178	SR R15,R0 GET OFFSET	01360000
0001D0	50F0	C41C	0041C		179	ST R15,TEXTOFF SAVE IT	01370000
0001D4	5A10	C41C	0041C		180	A R1,TEXTOFF ADJUST	01380000
0001D8	D283	C513	1000 00513	00000	181	MVC SUBHEAD,0(R1) SAVE AS SUBHEADER	01390000
0001DE	9601	C422	00422		182	OI LOCFLAG,\$PFSTMT	01400000
0001E2	9140	B166	00166		183	TM PRINTFG2,\$PFASM PRINT ASSEMBLY TEXT ?	01410000
0001E6	4780	C204	00204		184	BZ GETLINES NO	01420000
0001EA	D283	B16D	C513 0016D	00513	185	MVC COMMSUBH(SUBHEADL),SUBHEAD	01430000
0001F0	4110	0084	00084		186	LA R1,SUBHEADL SUBHEADING LENGTH	01440000
0001F4	4010	B154	00154		187	STH R1,COMMSUBL SET LENGTH	01450000
0001F8	92FF	B154	00154		188	MVI COMMSUBL,X'FF' SET NON-CENTERED INDICATOR	01460000
0001FC	92C8	B70E	0070E		189	MVI PRTCMD,\$PRTHEAD SET COMMAND	01470000
000200	45E0	B6F0	006F0		190	BAL R14,PRINTDAT PRINT SUBHEADER	01480000
000204	D283	B710	C48F 00710	0048F	191	GETLINES MVC OUTREC,NEXTREC PROPAGATE PREVIOUS TO CURRENT	01490000
00020A	9540	B77F	0077F		192	CLI OUTCCONT,C' ' CONTINUATION? GP05089	01500000
00020E	4780	C216	00216		193	BZ GETLINET NO GP05089	01510000
000212	9620	C422	00422		194	OI LOCFLAG,\$PFCONT SET IT ON GP05089	01520000
					195	GETLINET GET LISTDCB READ ANOTHER	01530000
000216	4110	C37C	0037C		196+	GETLINET LA 1,LISTDCB LOAD PARAMETER REG 1	01900002
00021A	58F0	1030	00030		197+	L 15,48(0,1) LOAD GET ROUTINE ADDR	00600000
00021E	05EF				198+	BALR 14,15 LINK TO GET ROUTINE	00625000
000220	1801				199	LR R0,R1 GET START	01540000
000222	4810	C3CE	003CE		200	LH R1,DCBLRECL-IHADCB+LISTDCB GET LENGTH	01550000
000226	5A00	C41C	0041C		201	A R0,TEXTOFF ADJUST FOR RDW, CARRIAGE CONTROL, ETC.	01560000
00022A	5B10	C41C	0041C		202	S R1,TEXTOFF	01570000
00022E	47D0	C216	00216		203	BNP GETLINET SKIP IT	01580000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000232	41E0	C48F	0048F		204	LA	R14,NEXTREC	01590000
000236	41F0	0084	00084		205	LA	R15,L'NEXTREC	01600000
00023A	BF18	B225	00225		206	ICM	R1,8,COMMBLKS REQUEST BLANK FILL	01610000
00023E	0EE0				207	MVCL	R14,R0 MOVE	01620000
000240	9540	C4B0	004B0		208	CLI	NEXTREC+OUTSTMT-OUTREC-1,C' ' LEADING BLANK?	01630000
000244	4770	C216	00216		209	BNE	GETLINET NO; IGNORE	01640000
000248	9120	C422	00422		210	TM	LOCFLAG,\$PFCONT LOOKING FOR CONTINUATION ?	GP05089 01650000
00024C	4780	C272	00272		211	BZ	GETALINE NO	GP05089 01660000
000250	D504	C4B0	C4B1	004B0	212	CLC	NEXTREC+OUTSTMT-OUTREC-1(L'OUTSTMT),NEXTREC+OUTSTMT-OUTR*01670000	GP05089 01680000
						EC	BLANK SEQUENCE ?	GP05089 01690000
000256	4770	C216	00216		213	BNE	GETLINET NO; SKIP	GP05089 01700000
00025A	D521	C48F	C490	0048F	214	CLC	NEXTREC(34),NEXTREC+1 ALL/MOSTLY BLANK?	GP05089 01710000
000260	4770	C216	00216		215	BNE	GETLINET NO; IGNORE	GP05089 01720000
000264	D200	C4B6	B737	004B6	216	MVC	NEXTREC+OUTIND-OUTREC(1),OUTIND INHERIT +/-C	GP05089 01730000
00026A	94DF	C422	00422		217	NI	LOCFLAG,255-\$PFCONT SET IT OFF	GP05089 01740000
00026E	47F0	C2B0	002B0		218	B	GETLINEX PASS IT BACK	GP05089 01760000
000272	95F0	C4B5	004B5		220	GETALINE CLI	NEXTREC+OUTSTMT-OUTREC+L'OUTSTMT-1,C'0' TRAIL. DIGIT?	01770000
000276	4740	C216	00216		221	BL	GETLINET NO; IGNORE	01780000
00027A	DD04	C4B1	C597	004B1	222	TRT	NEXTREC+OUTSTMT-OUTREC(L'OUTSTMT),NONBLK	01790000
000280	4780	C216	00216		223	BZ	GETLINET	01800000
000284	95F0	1000	00000		224	CLI	O(R1),C'0' NUMERIC START?	01810000
000288	47D0	C216	00216		225	BNH	GETLINET	01820000
00028C	DD04	C4B1	C697	004B1	226	TRT	NEXTREC+OUTSTMT-OUTREC(L'OUTSTMT),NONDIG	01830000
000292	4770	C216	00216		227	BNZ	GETLINET	01840000
000296	9540	C4B7	004B7		228	CLI	NEXTREC+OUTCARD-OUTREC,C' ' NAME FIELD PRESENT?	01850000
00029A	4770	C2B0	002B0		229	BNE	GETLINEX YES	01860000
00029E	DD46	C4B8	C597	004B8	230	TRT	NEXTREC+OUTCARD-OUTREC+1(71),NONBLK LOOK FOR TEXT	01870000
0002A4	4780	C2B0	002B0		231	BZ	GETLINEX HUH?	01880000
0002A8	957E	1000	00000		232	CLI	O(R1),C'=' LITERAL ?	01890000
0002AC	4780	C216	00216		233	BE	GETLINET YES; SKIP	01900000
0002B0	982F	C3DC	003DC		234	GETLINEX LM	R2,R15,GETLSAVE RESTORE REGISTERS	01910000
0002B4	07F9				235	BR	R9	01920000
0002B6	9680	C422	00422		236	EODAD OI	LOCFLAG,\$PFEO01 SHOW FIRST END CALL	01930000
0002BA	D283	C48F	C48E	0048F	237	MVC	NEXTREC,NEXTREC-1	01940000
0002C0	47F0	C2B0	002B0		238	B	GETLINEX EXIT	01960000
					240	*****		** 01970000
					241	**		** 01980000
					242	** PUNCH OUTPUT (WHEN DISPUNCH DD PRESENT)		** 01990000
					243	**		** 02000000
					244	*****		02010000
0002C4	9602	C422	00422		245	PUNCH000 OI	LOCFLAG,\$PFHAVE	02020000
0002C8	9110	B164	00164		246	TM	COMMD0,\$PUNCHDD IS DISPUNCH DD PRESENT?	02030000
0002CC	07E9				247	BNOR	R9 NO	02040000
					248	PUT	DISPUNCH,OUTCARD PUNCH SOURCE STATEMENT	01900002
0002CE	4110	C31C	0031C		249+	LA	1,DISPUNCH LOAD PARAMETER REG 1	02500002
0002D2	4100	B738	00738		250+	LA	0,OUTCARD LOAD PARAMETER REG 0	00550000
0002D6	58F0	1030	00030		251+	L	15,48(0,1) LOAD PUT ROUTINE ADDR	00600000
0002DA	05EF				252+	BALR	14,15 LINK TO PUT ROUTINE	02050000
0002DC	07F9				253	BR	R9 RETURN	02070000
					255	*****		** 02080000
					256	**		** 02080000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					257 **	PRINT OUTPUT (WHEN WANTED)	** 02090000
					258 **		** 02100000
					259 **	PRT0000 PRINT THE CURRENT PRINT LINE AS IS	** 02110000
					260 **		** 02120000
					261 *****		02130000
0002DE	41F0	B6EC	006EC		263 PRT0000	LA R15,PRINTREC SET TO PRINT AND CLEAR RECORD	02150000
0002E2	9140	B163	00163		264	TM COMMFLAG,\$ERROR ERROR MESSAGE?	02160000
0002E6	4770	C2F6	002F6		265	BNZ PRT0010 YES; PRINT IT	02170000
0002EA	9140	B166	00166		266	TM PRINTFG2,\$PFASM PRINT ASSEMBLY OUTPUT?	02180000
0002EE	4770	C2F6	002F6		267	BNZ PRT0010 YES	02190000
0002F2	41F0	B702	00702		268 PRTCLEAR	LA R15,PRINTCLR SET TO CLEAR PRINT LINE	02200000
0002F6	05EF				269 PRT0010	BALR R14,R15 PRINT & CLEAR, OR JUST CLEAR	02210000
0002F8	07F9				270	BR R9 RETURN	02220000
000300					272	LTORG ,	02240000
000300	40E2E3D4E3404040				273	=C' STMT S'	
000309	40E2A394A3404040				274	=C' STMT S'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				276	DCBLIST	OPEN (DISPUNCH,OUTPUT,LISTDCB,(INPUT,REREAD)),MF=L	02260000
000312	0000						
000314				277+	DCBLIST	DC OF'0' ALIGN LIST TO FULLWORD	00480001
000314	0F			278+	DC	AL1(15) OPTION BYTE	01500000
000315	00031C			279+	DC	AL3(DISPUNCH) DCB ADDRESS	01620001
000318	90			280+	DC	AL1(144) OPTION BYTE	01500000
000319	00037C			281+	DC	AL3(LISTDCB) DCB ADDRESS	01620001
		00318		282	DCBLIST2	EQU DCBLIST+4,4,C'A'	02270000
				283	DISPUNCH	DCB DDNAME=DISPUNCH,DSORG=PS,MACRF=PM,RECFM=FB,LRECL=80	02280000
				285+*		DATA CONTROL BLOCK	22770000
				286+*			22860000
00031C				287+	DISPUNCH	DC OF'0' ORIGIN ON WORD BOUNDARY	22914000
				289+*		DIRECT ACCESS DEVICE INTERFACE	27360000
00031C	000000000000000000			291+	DC	BL16'0' FDAD,DVTBL	27540000
00032C	00000000			292+	DC	A(0) KEYLE,DEVT,TRBAL	27720000
				294+*		COMMON ACCESS METHOD INTERFACE	48690000
000330	00			296+	DC	AL1(0) BUFNO	49050000
000331	000001			297+	DC	AL3(1) BUFCB	54720000
000334	0000			298+	DC	AL2(0) BUFL	55170000
000336	4000			299+	DC	BL2'0100000000000000'	*55800000
				+		DSORG	55890000
000338	00000001			300+	DC	A(1) IOBAD	56340000
				302+*		FOUNDATION EXTENSION	56610000
00033C	00			304+	DC	BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
00033D	000001			305+	DC	AL3(1) EODAD	65970000
000340	90			306+	DC	BL1'10010000'	*66150000
				+		RECFM	66240000
000341	000000			307+	DC	AL3(0) EXLST	66330000
				309+*		FOUNDATION BLOCK	66690000
000344	C4C9E2D7E4D5C3C8			311+	DC	CL8'DISPUNCH' DDNAME	66870000
00034C	02			312+	DC	BL1'00000010' OFLGS	68220000
00034D	00			313+	DC	BL1'00000000' IFLG	68310000
00034E	0050			314+	DC	BL2'0000000001010000'	*68400000
				+			*68490000
				+		MACR	68580000
				316+*		BSAM-BPAM-QSAM INTERFACE	74430000
000350	00			318+	DC	BL1'00000000'	*74610000
				+			RER1 74700000
000351	000001			319+	DC	AL3(1) CHECK, GERR, PERR	74790000
000354	00000001			320+	DC	A(1) SYNAD	74880000
000358	0000			321+	DC	H'0' CIND1, CIND2	74970000
00035A	0000			322+	DC	AL2(0) BLKSIZE	75240000
00035C	00000000			323+	DC	F'0' WCPO, WCPL, OFFSR, OFFSW	75870000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000360	00000001			324+	DC	A(1) IOBA	75960000
000364	00			325+	DC	AL1(0) NCP	76050000
000365	000001			326+	DC	AL3(1) EOBR, EOBAD	76140000
				328+*		QSAM INTERFACE	81450000
000368	00000001			330+	DC	A(1) RECAD	81630000
00036C	0000			331+	DC	H'0' QSWs	81810000
00036E	0050			332+	DC	AL2(80) LRECL	80730000
000370	00			333+	DC	BL1'00000000' EROPT	82530000
000371	000001			334+	DC	AL3(1) CNTRL	82620000
000374	00000000			335+	DC	F'0' PRECL	82710000
000378	00000001			336+	DC	A(1) EOB	82800000
				337	LISTDCB DCB	DDNAME=DISLIST,DSORG=PS,MACRF=GL,EODAD=EODAD	02290000
				339+*		DATA CONTROL BLOCK	22770000
				340+*			22860000
00037C				341+LISTDCB	DC	OF'0' ORIGIN ON WORD BOUNDARY	22914000
				343+*		DIRECT ACCESS DEVICE INTERFACE	27360000
00037C	000000000000000000			345+	DC	BL16'0' FDAD,DVTBL	27540000
00038C	00000000			346+	DC	A(0) KEYLE,DEVT,TRBAL	27720000
				348+*		COMMON ACCESS METHOD INTERFACE	48690000
000390	00			350+	DC	AL1(0) BUFNO	49050000
000391	000001			351+	DC	AL3(1) BUFCB	54720000
000394	0000			352+	DC	AL2(0) BUFL	55170000
000396	4000			353+	DC	BL2'0100000000000000' DSORG	*55800000
				+			55890000
000398	00000001			354+	DC	A(1) IOBAD	56340000
				356+*		FOUNDATION EXTENSION	56610000
00039C	00			358+	DC	BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
00039D	0002B6			359+	DC	AL3(EODAD) EODAD	65970000
0003A0	00			360+	DC	BL1'00000000'	*66150000
				+		RECFM	66240000
0003A1	000000			361+	DC	AL3(0) EXLST	66330000
				363+*		FOUNDATION BLOCK	66690000
0003A4	C4C9E2D3C9E2E340			365+	DC	CL8'DISLIST' DDNAME	66870000
0003AC	02			366+	DC	BL1'00000010' OFLGS	68220000
0003AD	00			367+	DC	BL1'00000000' IFLG	68310000
0003AE	4800			368+	DC	BL2'0100100000000000'	*68400000
				+			*68490000
				+		MACR	68580000
				370+*		BSAM-BPAM-QSAM INTERFACE	74430000
0003B0	00			372+	DC	BL1'00000000'	*74610000
				+			RER1 74700000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
0003B1	000001				373+		DC AL3(1)	CHECK, GERR, PERR			74790000
0003B4	00000001				374+		DC A(1)	SYNAD			74880000
0003B8	0000				375+		DC H'0'	CIND1, CIND2			74970000
0003BA	0000				376+		DC AL2(0)	BLKSIZE			75240000
0003BC	00000000				377+		DC F'0'	WCPO, WCPL, OFFSR, OFFSW			75870000
0003C0	00000001				378+		DC A(1)	IOBA			75960000
0003C4	00				379+		DC AL1(0)	NCP			76050000
0003C5	000001				380+		DC AL3(1)	EOBR, EOBAD			76140000
					382+*			QSAM INTERFACE			81450000
0003C8	00000001				384+		DC A(1)	RECAD			81630000
0003CC	0000				385+		DC H'0'	QSW			81810000
0003CE	0000				386+		DC AL2(0)	LRECL			80730000
0003D0	00				387+		DC BL1'00000000'	EROPT			82530000
0003D1	000001				388+		DC AL3(1)	CNTRL			82620000
0003D4	00000000				389+		DC F'0'	PRECL			82710000
0003D8	00000001				390+		DC A(1)	EOB			82800000
0003DC					392	GETLSAVE	DS 16A	DUMPLINE SAVE AREA			02310000
00041C	00000000				393	TEXTOFF	DC F'0'	INDENT FROM START OF PHYSICAL RECORD			02320000
000420	0000				394	CONDCODE	DC H'0'	CONDITION CODE			02330000
000422	00				395	LOCFLAG	DC X'00'	LOCAL PROCESSING FLAGS			02340000
				00080	396	\$PFEO1	EQU X'80'	EODAD ENTERED			02350000
				00040	397	\$PFEO2	EQU X'40'	LOGICAL END PROCESSED			02360000
				00020	398	\$PFCONT	EQU X'20'	CONTINUATION CARD FOLLOWS	GP05089		02370000
				00002	399	\$PFHAVE	EQU X'02'	PROCESSABLE RECORD FOUND			02380000
				00001	400	\$PFSTMT	EQU X'01'	STMT RECORD FOUND			02390000
000423	30				402	EMSG01	DC AL1(L'EMSG01T)				02410000
000424	C4C9E2C1E2D4D3E2				403	EMSG01T	DC C'DISASMLS01E	**** DATASET OPEN UNSUCCESSFUL ****'			02420000
000454	3A				404	EMSG02	DC AL1(L'EMSG02T)				02430000
000455	C4C9E2C1E2D4D3E2				405	EMSG02T	DC C'DISASMLS02E	**** NO PROCESSABLE SOURCE RECORDS FOUND	*		02440000
00045D	F0F2C540405C5C5C						****'				02450000
00048F	4040404040404040				407	NEXTREC	DC CL132' '				02470000
000513	4040404040404040				410	SUBHEAD	DC CL132' '				02500000
				00084	411	SUBHEADL	EQU *-SUBHEAD				02510000
000597	FFFFFFFFFFFFFFFF				413	NONBLK	DC 256X'FF'	STOP ON NON-BLANK			02530000
000697				005D7	414		ORG NONBLK+C' '				02540000
0005D7	00				415		DC X'00'	AND PASS BLANKS			02550000
0005D8				00697	416		ORG ,				02560000
000697	FFFFFFFFFFFFFFFF				417	NONDIG	DC 256X'FF'	STOP ON NON-BLANK, NON-DIGIT			02570000
000797				006D7	418		ORG NONDIG+C' '				02580000
0006D7	00				419		DC X'00'	AND PASS BLANKS			02590000
0006D8				00787	420		ORG NONDIG+C'0'				02600000
000787	0000000000000000				421		DC 10X'00'	AND PASS DIGITS			02610000
000791				00797	422		ORG ,				02620000
					424		DCBD DSORG=PS,DEVDA	DCB MAPPING			02640000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				426+*	DCB SYMBOLIC DEFINITION FOR	07700000
				427+*	PHYSICAL SEQUENTIAL	07900000
000000				429+IHADCB	DSECT , - DCBPTR	@ZA05613 09851000
				431+*****		09853000
				432+*	OS/V52 RELEASE 02, 02/14/73	* 09854000
				433+*	OS/V52 RELEASE 03, 10/23/74	* 09855000
				434+*	OS/V52 RELEASE 3.7, 3/15/78	* 09856000
				435+*	C80400037	@ZA33630 09886000
				436+*		* 09902100
				437+*	OS/V52 RELEASE 3.8, 5/15/80 FMID=FDM1133	* 09909000
				438+*		* 09915900
				439+*	C(116500),A(116638-116914),D(117000),A(117052-117466)	@ZA46311 09922800
				440+*	D(117500),A(117604-117880),D(118000),A(118018-118432)	@ZA46311 09929700
				441+*	D(118500-118510),A(118570-118846)	@ZA46311 09936600
				442+*	\$F01=UZ59799,FDM1133:DCBDEVT DEFINITION FOR D/T3375 AND D/T3380	@F01A 09940000
				443+*		* 09943500
				444+*****		09950700
	00080			446+DCBBIT0	EQU 128	@ZA05613 09951000
	00040			447+DCBBIT1	EQU 64	@ZA05613 09951100
	00020			448+DCBBIT2	EQU 32	@ZA05613 09951200
	00010			449+DCBBIT3	EQU 16	@ZA05613 09951300
	00008			450+DCBBIT4	EQU 8	@ZA05613 09951400
	00004			451+DCBBIT5	EQU 4	@ZA05613 09951500
	00002			452+DCBBIT6	EQU 2	@ZA05613 09951600
	00001			453+DCBBIT7	EQU 1	@ZA05613 09951700
				455+*****		09951900
				457+*****		10301000
				458+*	DEVICE INTERFACES	10350000
				459+*****		10351000
				461+*****		10451000
				462+*	DIRECT ACCESS DEVICES	10500000
				463+*****		10501000
000000				465+DCBRELAD	DS CL4 - PARTITIONED ORGANIZATION DATA SET -	10600000
				466+*	ADDRESS (IN THE FORM TTRN) OF MEMBER	10650000
				467+*	CURRENTLY USED. ---	10700000
				468+*	SYS1.LOGREC DATA SET - IF CCH OPTION HAS	10750000
				469+*	BEEN SPECIFIED IN SYSGEN PROCESS, ADDRESS	10800000
				470+*	OF A 12-BYTE PARAMETER IN THE EXPANSION	10850000
				471+*	OF MACRO INSTRUCTION IGFCATAP	10900000
000004				472+DCBKEYCN	DS FL1 - KEYED BLOCK OVERHEAD CONSTANT	10950000
000005				473+DCBFDAD	DS CL8 - FULL DISK ADDRESS IN THE FORM OF MBBCCHHR	11000000
				474+*	OF RECORD THAT WAS JUST READ OR WRITTEN	11050000
00000D		0000C		476+	ORG DCBFDAD+7	11150000
00000C				477+DCBDVTBL	DS OA - SAME AS DCBDVTBA BELOW	11200000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00000C				478+	DS	X -	LAST BYTE OF DCBFDAD 11250000
00000D				479+DCBDVTBA	DS	AL3 -	ADDRESS OF ENTRY IN I/O DEVICE 11300000
				480+*			CHARACTERISTICS TABLE FOR DEVICE BEING 11350000
				481+*			USED 11400000
000010				482+	DS	FL1 -	DCBKEYLE - KEY LENGTH OF DATA SET 11450000
000011				483+	DS	C -	DCBDEVT - DEVICE TYPE 11500000
				484+*	FOR MASKS	FOR ISAM DIRECT ACCESS, SEE DCBOVDEV IN ISAM SECTION 11550000	
		00021		485+DCBDV311	EQU	X'21' -	2311 DISK STORAGE @ZA46311 11650000
		00022		486+DCBDV301	EQU	X'22' -	2301 PARALLEL DRUM 11663800
		00023		487+DCBDV303	EQU	X'23' -	2303 SERIAL DRUM 11677600
		00024		488+DCBDV302	EQU	X'24' -	2302 DISK STORAGE 11691400
		00025		489+DCBDV321	EQU	X'25' -	2321 DATA CELL STORAGE @ZA46311 11705200
		00026		490+DCBD1305	EQU	X'26' -	2305 DRUM MODEL-1 @ZA46311 11719000
		00027		491+DCBDV305	EQU	X'27' -	2305 DRUM MODEL-2 @ZA46311 11732800
		00028		492+DCBDV314	EQU	X'28' -	2314/2319 DISK STORAGE FACILITY @ZA46311 11746600
		00029		493+DCBDV330	EQU	X'29' -	3330 DISK STORAGE FACILITY @ZA46311 11760400
				494+*			3330 MODEL-1 @ZA46311 11774200
				495+*			3330 MODEL-2 @ZA46311 11788000
				496+*			3333 MODEL-1 @ZA46311 11801800
		0002A		497+DCBDV340	EQU	X'2A' -	3340/3344 DISK STORAGE FACILITY @ZA46311 11815600
		0002B		498+DCBDV350	EQU	X'2B' -	3350 DISK STORAGE FACILITY @ZA46311 11829400
				499+*			MODELS A2, B2, AND C2 @ZA46311 11843200
		0002C		500+DCBDV375	EQU	X'2C' -	3375 DISK STORAGE FACILITY @F01A 11850100
		0002D		501+DCBDV331	EQU	X'2D' -	3330 MODEL-11 OR 3333 MODEL-11 @ZA46311 11857000
				502+*			DISK STORAGE FACILITY @ZA46311 11870800
		0002E		503+DCBDV380	EQU	X'2E' -	3380 DISK STORAGE FACILITY @F01A 11877700
000012				505+DCBTRBAL	DS	H -	TRACK BALANCE. NUMBER OF BYTES REMAINING 11900000
				506+*			ON CURRENT TRACK AFTER A WRITE OPERATION 11950000
				507+*			(THIS QUANTITY MAY BE NEGATIVE IF THERE 12000000
				508+*			ARE NO BYTES REMAINING ON TRACK). 12050000
				510+*****			24551000
				511+*		ACCESS METHOD COMMON INTERFACE	24600000
				512+*****			24601000
000014		00010		514+	ORG	IHADCB+16	24700000
000010				515+DCBREL	DS	OF -	SAME AS DCBREL BELOW 24750000
000010				516+DCBKEYLE	DS	FL1 -	KEY LENGTH OF DATA SET 24800000
000011				517+DCBDEVT	DS	OC -	DEVICE TYPE 24850000
		0004F		518+DCBDVTRM	EQU	X'4F' -	TERMINAL. (DD CONTAINS TERM=TS) 24900000
000011				519+DCBREL	DS	FL3 -	NUMBER OF RELATIVE TRACKS OR BLOCKS IN 24950000
				520+*			THIS DATA SET (BDAM) 25000000
000014				521+DCBBUFCB	DS	OA -	ADDRESS OF BUFFER POOL CONTROL BLOCK 25050000
000014				522+DCBBUFNO	DS	FL1 -	NUMBER OF BUFFERS REQUIRED FOR THIS DATA 25100000
				523+*			SET. MAY RANGE FROM 0 TO 255. IF 25150000
				524+*			UNBLOCKED SPANNED RECORDS ARE USED, 25200000
				525+*			NUMBER OF SEGMENT WORK AREAS REQUIRED 25250000
				526+*			FOR THIS DATA SET. 25300000
000015				527+DCBBUFCA	DS	AL3 -	ADDRESS OF BUFFER POOL CONTROL BLOCK 25350000
000018				528+DCBBUFL	DS	H -	LENGTH OF BUFFER. MAY RANGE FROM 0 TO 25400000
				529+*			32,767. 25450000
00001A				530+DCBDSORG	DS	OBL2 -	DATA SET ORGANIZATION BEING USED 25500000
00001A				531+DCBDSRG1	DS	BL1 -	FIRST BYTE OF DCBDSORG 25550000
		00080		532+DCBDSGIS	EQU	DCBBITO -	IS - INDEXED SEQUENTIAL ORGANIZATION 25600000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00040	533+DCBDSGPS	EQU	DCBBIT1 -	PS - PHYSICAL SEQUENTIAL ORGANIZATION 25650000
			00020	534+DCBDSGDA	EQU	DCBBIT2 -	DA - DIRECT ORGANIZATION 25700000
			00010	535+DCBDSGCX	EQU	DCBBIT3 -	CX - BTAM OR QTAM LINE GROUP 25750000
			00002	536+DCBDSGPO	EQU	DCBBIT6 -	PO - PARTITIONED ORGANIZATION 25900000
			00001	537+DCBD SGU	EQU	DCBBIT7 -	U - UNMOVABLE, THE DATA CONTAINS 25950000
				538+*			LOCATION DEPENDENT INFORMATION 26000000
00001B				539+DCBDSRG2	DS	BL1 -	SECOND BYTE OF DCBDSORG 26050000
		00080	540+DCBDSGGS	EQU	DCBBIT0 -	GS - GRAPHICS ORGANIZATION	26100000
		00040	541+DCBDSGTX	EQU	DCBBIT1 -	TX - TCAM LINE GROUP	26150000
		00020	542+DCBDSGTQ	EQU	DCBBIT2 -	TQ - TCAM MESSAGE QUEUE	26200000
		00008	543+DCBACBM	EQU	DCBBIT4 -	ACCESS METHOD CONTROL BLOCK	26250000
		00004	544+DCBDSGTR	EQU	DCBBIT5 -	TR - TCAM 3705	26260000
00001C			545+DCBIOBAD	DS	0A -	ADDRESS OF IOB WHEN CHAINED SCHEDULING IS	26300000
			546+*			USED OR FOR 1419/1275	26350000
00001C			547+DCBODEB	DS	0A -	ADDRESS OF OLD DEB	26400000
00001C			548+DCBLNP	DS	OFL1 -	3525 PRINTER LINE POSITION COUNTER	26450000
00001C			549+DCBQSLM	DS	BL1 -	QSAM LOCATE MODE LOGICAL RECORD INTERFACE	26500000
			550+*			INDICATOR BYTE FOR UPDAT PROCESSING OF	26550000
			551+*			SPANNED RECORDS	26600000
		00080	552+DCB1DVDS	EQU	DCBBIT0 -	ONLY ONE DEVICE IS ALLOCATED TO THIS	26650000
			553+*			DATA SET	26700000
		00040	554+DCBUPDCM	EQU	DCBBIT1 -	UPDATE COMPLETE, FREE OLD DEB	26750000
		00030	555+DCBUPDBT	EQU	DCBBIT2+DCBBIT3	- UPDATE BITS	26800000
		00020	556+DCBUPDT	EQU	DCBBIT2 -	UPDATE TO TAKE PLACE	26850000
		00030	557+DCBNUPD	EQU	DCBBIT2+DCBBIT3	- NO UPDATE TO TAKE PLACE	26900000
		00010	558+DCBSVDEB	EQU	DCBBIT3 -	OLD DEB ADDRESS MUST BE SAVED	26950000
00001D			559+DCBIOBAA	DS	0AL3 -	SAME AS DCBIOBAD ABOVE	27000000
00001D			560+DCBODEBA	DS	AL3 -	ADDRESS OF OLD DEB	27050000
000020		0001C	561+	ORG	IHADCB+28		27100000
00001C			562+DCBSVCXL	DS	0A -	SAME AS DCBSVCXA BELOW	27150000
00001C			563+	DS	X -	RESERVED	27200000
00001D			564+DCBSVCXA	DS	AL3 -	POINTER TO EXIT LIST OF JES	27250000
			565+*			C.I. INTERFACE CONTROL SVC	27300000
			567+*****				27351000
			568+*			FOUNDATION EXTENSION	27400000
			569+*****				27401000
000020			571+DCBEODAD	DS	0A -	SAME AS DCBEODA BELOW	27500000
000020			572+DCBHIARC	DS	OBL1 -	HIERARCHY BITS	27550000
000020			573+DCBBFTEK	DS	OBL1 -	BUFFERING TECHNIQUE BITS	27600000
000020			574+DCBBFALN	DS	BL1 -	BUFFER ALIGNMENT BITS	27650000
		00080	575+DCBH1	EQU	DCBBIT0 -	HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO	27700000
		00070	576+DCBBFT	EQU	DCBBIT1+DCBBIT2+DCBBIT3	BUFFERING TECHNIQUE	27750000
		00060	577+DCBBFTA	EQU	DCBBIT1+DCBBIT2	- QSAM LOCATE MODE PROCESSING OF SPANNED	27800000
			578+*			RECORDS - OPEN IS TO CONSTRUCT A RECORD	27850000
			579+*			AREA IF IT AUTOMATICALLY CONSTRUCTS	27900000
			580+*			BUFFERS	27950000
		00020	581+DCBBFTR	EQU	DCBBIT2 -	FOR BSAM CREATE BDAM PROCESSING OF	28000000
			582+*			UNBLOCKED SPANNED RECORDS - SOFTWARE	28050000
			583+*			TRACK OVERFLOW. FOR BSAM INPUT	28100000
			584+*			PROCESSING OF UNBLOCKED SPANNED RECORDS	28150000
			585+*			WITH KEYS - RECORD OFFSET PROCESSING.	28200000
		00040	586+DCBBFTS	EQU	DCBBIT1 -	SIMPLE BUFFERING - BIT 3 IS ZERO	28250000
		00020	587+DCBBFTKR	EQU	DCBBIT2 -	UNBLOCKED SPANNED RECORDS - SOFTWARE	28300000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				588+*	TRACK OVERFLOW (BDAM)	28350000
		00010		589+DCBBFTE EQU	DCBBIT3 - EXCHANGE BUFFERING - BIT 1 IS ZERO	28400000
		00008		590+DCBBFTKD EQU	DCBBIT4 - DYNAMIC BUFFERING (BTAM)	28450000
		00004		591+DCBH0 EQU	DCBBIT5 - HIERARCHY 0 MAIN STORAGE - BIT 0 IS ZERO	28500000
		00003		592+DCBBFA EQU	DCBBIT6+DCBBIT7 - BUFFER ALIGNMENT	28550000
		00002		593+DCBBFAD EQU	DCBBIT6 - DOUBLEWORD BOUNDARY	28600000
		00001		594+DCBBFAF1 EQU	DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28650000
				595+*	CODED IN DCB MACRO INSTRUCTION	28700000
		00003		596+DCBBFAF2 EQU	DCBBIT6+DCBBIT7 - FULLWORD NOT A DOUBLEWORD BOUNDARY,	28750000
				597+*	CODED IN DCB MACRO INSTRUCTION	28800000
000021				598+DCBEODA DS	AL3 - ADDRESS OF A USER-PROVIDED ROUTINE TO	28850000
				599+*	HANDLE END-OF-DATA CONDITIONS	28900000
000024				600+DCBEXLST DS	0A - ADDRESS OF USER-PROVIDED LIST OF EXITS	28950000
000024				601+DCBRECFCM DS	BL1 - RECORD FORMAT	29000000
		000E0		602+DCBRECLA EQU	DCBBIT0+DCBBIT1+DCBBIT2 RECORD LENGTH INDICATOR - ASCII	29050000
		00020		603+DCBRECD EQU	DCBBIT2 - ASCII VARIABLE RECORD LENGTH	29100000
		000C0		604+DCBRECL EQU	DCBBIT0+DCBBIT1 - RECORD LENGTH INDICATOR	29150000
		00080		605+DCBRECF EQU	DCBBIT0 - FIXED RECORD LENGTH	29200000
		00040		606+DCBRECV EQU	DCBBIT1 - VARIABLE RECORD LENGTH	29250000
		000C0		607+DCBRECU EQU	DCBBIT0+DCBBIT1 - UNDEFINED RECORD LENGTH	29300000
		00020		608+DCBRECTOR EQU	DCBBIT2 - TRACK OVERFLOW	29350000
		00010		609+DCBRECBR EQU	DCBBIT3 - BLOCKED RECORDS	29400000
		00008		610+DCBRECSB EQU	DCBBIT4 - FOR FIXED LENGTH RECORD FORMAT - STANDARD	29450000
				611+*	BLOCKS. FOR VARIABLE LENGTH RECORD	29500000
				612+*	FORMAT - SPANNED RECORDS	29550000
		00006		613+DCBRECCC EQU	DCBBIT5+DCBBIT6 - CONTROL CHARACTER INDICATOR	29600000
		00004		614+DCBRECCA EQU	DCBBIT5 - ASA CONTROL CHARACTER	29650000
		00002		615+DCBRECCM EQU	DCBBIT6 - MACHINE CONTROL CHARACTER	29700000
		00000		616+DCBRECC EQU	X'00' - NO CONTROL CHARACTER	29750000
		00001		617+DCBRECKL EQU	DCBBIT7 - KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB	29800000
				618+*	MACRO INSTRUCTION	29850000
000025				619+DCBEXLSA DS	AL3 - ADDRESS OF USER-PROVIDED LIST OF EXITS	29900000
				622+*****	FOUNDATION BEFORE OPEN	47139200
				623+*		47150000
				624+*****		47151000
000028		00028		626+ ORG	IHADCB+40	47250000
000028				627+DCBDDNAM DS	CL8 - NAME ON THE DD STATEMENT WHICH DEFINES	47300000
				628+*	THE DATA SET ASSOCIATED WITH THIS DCB	47350000
000030				629+DCBOFLGS DS	BL1 - FLAGS USED BY OPEN ROUTINE	47400000
		00080		630+DCBOFLWR EQU	DCBBIT0 - IF ZERO, LAST I/O OPERATION WAS READ OR	47450000
				631+*	POINT. IF ONE, LAST I/O OPERATION WAS	47500000
				632+*	WRITE.	47550000
		00080		633+DCBOFIOD EQU	DCBBIT0 - DATA SET IS BEING OPENED FOR INPUT OR	47600000
				634+*	OUTPUT (BDAM)	47650000
		00040		635+DCBOFLRB EQU	DCBBIT1 - LAST I/O OPERATION WAS IN READ BACKWARD	47700000
				636+*	MODE	47750000
		00020		637+DCBOFE0V EQU	DCBBIT2 - SET TO 1 BY EOVS WHEN IT CALLS CLOSE	47800000
				638+*	ROUTINE FOR CONCATENATION OF DATA SETS	47850000
				639+*	WITH UNLIKE ATTRIBUTES	47900000
		00010		640+DCBOFOPN EQU	DCBBIT3 - AN OPEN HAS BEEN SUCCESSFULLY COMPLETED	47950000
		00008		641+DCBOFPPC EQU	DCBBIT4 - SET TO 1 BY PROBLEM PROGRAM TO INDICATE A	48000000
				642+*	CONCATENATION OF UNLIKE ATTRIBUTES	48050000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000031			00004	643+DCBOFTM	EQU	DCBBIT5 -	TAPE MARK HAS BEEN READ 48100000
			00002	644+DCBOFUEX	EQU	DCBBIT6 -	SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN 48150000
				645+*			THAT FUNCTION TAKES A USER EXIT. SET TO 1 48200000
				646+*			ON RETURN FROM USER EXIT TO THE I/O 48250000
				647+*			SUPPORT FUNCTION WHICH TOOK THE EXIT. 48300000
			00001	648+DCBOFIOF	EQU	DCBBIT7 -	SET TO 1 BY AN I/O SUPPORT FUNCTION IF 48350000
				649+*			DCB IS TO BE PROCESSED BY THAT FUNCTION 48400000
				650+DCBIFLG	DS	BL1 -	FLAGS USED BY IOS IN COMMUNICATING ERROR 48450000
				651+*			CONDITIONS AND IN DETERMINING CORRECTIVE 48500000
				652+*			PROCEDURES 48550000
	000C0			653+DCBIBEC	EQU	DCBBIT0+DCBBIT1	- ERROR CORRECTION INDICATOR 48600000
	00000			654+DCBIFNEP	EQU	X'00' -	NOT IN ERROR PROCEDURE 48650000
	00040			655+DCBEX	EQU	DCBBIT1 -	ERROR CORRECTION OR IOS PAGE FIX IN 48700000
				656+*			PROCESS 48750000
	000C0			657+DCBIFPEC	EQU	DCBBIT0+DCBBIT1	- PERMANENT ERROR CORRECTION 48800000
	00030			658+DCBIBPCT	EQU	DCBBIT2+DCBBIT3	- PRINTER CARRIAGE TAPE PUNCH INDICATOR 48850000
	00020			659+DCBIFC9	EQU	DCBBIT2 -	CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH 48900000
				660+*			SENSED 48950000
	00010			661+DCBIFC12	EQU	DCBBIT3 -	CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH 49000000
				662+*			SENSED 49050000
	0000C			663+DCBIBIOE	EQU	DCBBIT4+DCBBIT5	- IOS ERROR ROUTINE USE INDICATOR 49100000
	00000			664+DCBIFER	EQU	X'00' -	ALWAYS USE I/O SUPERVISOR ERROR ROUTINE 49150000
	00004			665+DCBIFNE1	EQU	DCBBIT5 -	NEVER USE I/O SUPERVISOR ERROR ROUTINE 49200000
	00004			666+DCBIFTIM	EQU	DCBBIT5 -	TEST IOS MASK (IMSK) FOR ERROR PROCEDURE 49250000
				667+*			(BTAM) 49300000
	00008			668+DCBIFNE2	EQU	DCBBIT4 -	NEVER USE I/O SUPERVISOR ERROR ROUTINE 49350000
	0000C			669+DCBIFNE3	EQU	DCBBIT4+DCBBIT5	- NEVER USE I/O SUPERVISOR ERROR ROUTINE 49400000
				670+DCBMACR	DS	OBL2 -	MACRO INSTRUCTION REFERENCE 49450000
000032				671+DCBMACR1	DS	BL1 -	FIRST BYTE OF DCBMACR 49500000
000032			00080	672+DCBMRECP	EQU	DCBBIT0 -	EXECUTE CHANNEL PROGRAM (EXCP) --- 49550000
				673+*			ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, 49600000
				674+*			QISAM, BDAM) --- RESERVED (QTAM, BTAM) 49650000
	00040			675+DCBMRFE	EQU	DCBBIT1 -	FOUNDATION EXTENSION IS PRESENT (EXCP) 49700000
	00040			676+DCBMRGET	EQU	DCBBIT1 -	GET (QSAM, QISAM, TCAM) 49750000
	00040			677+DCBMRPTQ	EQU	DCBBIT1 -	PUT FOR MESSAGE GROUP (QTAM) --- 49800000
				678+*			ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) --- 49850000
				679+*			RESERVED (BTAM) 49900000
	00020			680+DCBMRAPG	EQU	DCBBIT2 -	APPENDAGES ARE REQUIRED (EXCP) 49950000
	00020			681+DCBMRRD	EQU	DCBBIT2 -	READ (BSAM, BPAM, BISAM, BDAM, BTAM) 50000000
	00020			682+DCBMRWRQ	EQU	DCBBIT2 -	WRITE FOR LINE GROUP (QTAM) --- 50050000
				683+*			ALWAYS ZERO (QSAM, QISAM) 50100000
	00010			684+DCBMRCI	EQU	DCBBIT3 -	COMMON INTERFACE (EXCP) 50150000
	00010			685+DCBMRMVG	EQU	DCBBIT3 -	MOVE MODE OF GET (QSAM, QISAM) 50200000
	00010			686+DCBMRRDK	EQU	DCBBIT3 -	KEY SEGMENT WITH READ (BDAM) --- 50250000
				687+*			ALWAYS ZERO (BISAM) --- 50300000
				688+*			RESERVED (BSAM, BPAM, QTAM, BTAM) 50350000
	00008			689+DCBMRLCG	EQU	DCBBIT4 -	LOCATE MODE OF GET (QSAM, QISAM) 50400000
	00008			690+DCBMRRDI	EQU	DCBBIT4 -	ID ARGUMENT WITH READ (BDAM) --- 50450000
				691+*			ALWAYS ZERO (BISAM) --- 50500000
				692+*			RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM) 50550000
	00004			693+DCBMRABC	EQU	DCBBIT5 -	USER'S PROGRAM MAINTAINS ACCURATE BLOCK 50600000
				694+*			COUNT (EXCP) 50650000
	00004			695+DCBMRPT1	EQU	DCBBIT5 -	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM) 50700000
	00004			696+DCBMRSBG	EQU	DCBBIT5 -	SUBSTITUTE MODE OF GET (QSAM) 50750000
	00004			697+DCBMRDBF	EQU	DCBBIT5 -	DYNAMIC BUFFERING (BISAM, BDAM) --- 50800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				698+*	ALWAYS ZERO (QISAM) ---	50850000
				699+*	RESERVED (QTAM, BTAM)	50900000
		00002		700+DCBPGFXA EQU	DCBBIT6 - PAGE FIX APPENDAGE IS SPECIFIED (EXCP)	50950000
		00002		701+DCBMRCRL EQU	DCBBIT6 - CNTRL (BSAM, QSAM)	51000000
		00002		702+DCBMRCHK EQU	DCBBIT6 - CHECK (BISAM)	51050000
		00002		703+DCBMRRDX EQU	DCBBIT6 - READ EXCLUSIVE (BDAM) ---	51100000
				704+*	RESERVED (BPAM, QISAM, QTAM, BTAM)	51150000
		00001		705+DCBMRDMG EQU	DCBBIT7 - DATA MODE OF GET (QSAM)	51200000
		00001		706+DCBMRCK EQU	DCBBIT7 - CHECK (BDAM) --- RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, QTAM, BTAM)	51250000
				707+*		51300000
000033				708+DCBMACR2 DS	BL1 - SECOND BYTE OF DCBMACR	51350000
		00080		709+DCBMRSTL EQU	DCBBIT0 - SETL (QISAM) --- ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) ---	51400000
				710+*		51450000
				711+*	RESERVED (EXCP, QTAM, BTAM)	51500000
		00040		712+DCBMRPUT EQU	DCBBIT1 - PUT (QSAM, TCAM) - PUT OR PUTX (QISAM)	51550000
		00040		713+DCBMRGTQ EQU	DCBBIT1 - GET FOR MESSAGE GROUP (QTAM) ---	51600000
				714+*	ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) ---	51650000
				715+*	RESERVED (EXCP, BTAM)	51700000
		00020		716+DCBMRWRT EQU	DCBBIT2 - WRITE (BSAM, BPAM, BISAM, BDAM, BTAM)	51750000
		00020		717+DCBMRRDQ EQU	DCBBIT2 - READ FOR LINE GROUP (QTAM) ---	51800000
				718+*	ALWAYS ZERO (QSAM, QISAM) ---	51850000
				719+*	RESERVED (EXCP)	51900000
		00010		720+DCBMRMVP EQU	DCBBIT3 - MOVE MODE OF PUT (QSAM, QISAM)	51950000
		00010		721+DCBMRWRK EQU	DCBBIT3 - KEY SEGMENT WITH WRITE (BDAM) ---	52000000
				722+*	ALWAYS ZERO (BISAM) ---	52050000
				723+*	RESERVED (EXCP, BSAM, BPAM, QTAM, BTAM)	52100000
		00008		724+DCBMR5WD EQU	DCBBIT4 - FIVE-WORD DEVICE INTERFACE (EXCP)	52150000
		00008		725+DCBMRLDM EQU	DCBBIT4 - LOAD MODE BSAM (CREATE BDAM DATA SET)	52200000
				726+*	(BSAM)	52250000
		00008		727+DCBMRLCP EQU	DCBBIT4 - LOCATE MODE OF PUT (QSAM, QISAM)	52300000
		00008		728+DCBMRIDW EQU	DCBBIT4 - ID ARGUMENT WITH WRITE (BDAM) ---	52350000
				729+*	ALWAYS ZERO (BISAM) ---	52400000
				730+*	RESERVED (BPAM, QTAM, BTAM)	52450000
		00004		731+DCBMR4WD EQU	DCBBIT5 - FOUR-WORD DEVICE INTERFACE (EXCP)	52500000
		00004		732+DCBMRPT2 EQU	DCBBIT5 - POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)	52550000
		00004		733+DCBMRTMD EQU	DCBBIT5 - SUBSTITUTE MODE (QSAM)	52600000
		00004		734+DCBMRUIP EQU	DCBBIT5 - UPDATE IN PLACE (PUTX) (QISAM) ---	52650000
				735+*	ALWAYS ZERO (BISAM) ---	52700000
				736+*	RESERVED (BDAM, QTAM, BTAM)	52750000
		00002		737+DCBMR3WD EQU	DCBBIT6 - THREE-WORD DEVICE INTERFACE (EXCP)	52800000
		00002		738+DCBMRCTL EQU	DCBBIT6 - CNTRL (BSAM, QSAM)	52850000
		00002		739+DCBMRSTK EQU	DCBBIT6 - SETL BY KEY (QISAM)	52900000
		00002		740+DCBMRAWR EQU	DCBBIT6 - ADD TYPE OF WRITE (BDAM) ---	52950000
				741+*	ALWAYS ZERO (BISAM) ---	53000000
				742+*	RESERVED (BPAM, QTAM, BTAM)	53050000
		00001		743+DCBMR1WD EQU	DCBBIT7 - ONE-WORD DEVICE INTERFACE (EXCP)	53100000
		00001		744+DCBMRSWA EQU	DCBBIT7 - USER'S PROGRAM HAS PROVIDED A SEGMENT	53150000
				745+*	WORK AREA POOL (BSAM CREATE BDAM, BDAM)	53200000
		00001		746+DCBMRDMD EQU	DCBBIT7 - DATA MODE (QSAM)	53250000
		00001		747+DCBMRSTI EQU	DCBBIT7 - SETL BY ID (QISAM) ---	53300000
				748+*	ALWAYS ZERO (BISAM) ---	53350000
				749+*	RESERVED (BPAM, QTAM, BTAM)	53400000
				751+*****	*****	53451000
				752+*	FOUNDATION AFTER OPEN	53500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					753+*****	53501000
000034		00028	755+	ORG	IHADCB+40	53600000
000028			756+DCBTIOT	DS	H -	53650000
			757+*		OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD	53700000
			758+*		IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED	53750000
00002A			759+DCBMACRF	DS	OBL2 -	53800000
00002A			760+DCBMACF1	DS	BL1 -	53850000
00002B			761+DCBMACF2	DS	BL1 -	53900000
00002C			762+DCBDEBAD	DS	0A -	53950000
00002C			763+DCBIFLGS	DS	BL1 -	54000000
		000C0	764+DCBIFEC	EQU	DCBBIT0+DCBBIT1 -	54050000
		00030	765+DCBIFPCT	EQU	DCBBIT2+DCBBIT3 -	54100000
		0000C	766+DCBIFIOE	EQU	DCBBIT4+DCBBIT5 -	54150000
		00002	767+DCBIFLDT	EQU	DCBBIT6 -	54175000
00002D			768+DCBDEBA	DS	AL3 -	54200000
					ADDRESS OF ASSOCIATED DEB	
000030		00030	770+	ORG	IHADCB+48	54350000
000030			771+DCBREAD	DS	0A -	54400000
000030			772+DCBWRITE	DS	0A -	54450000
000030			773+DCBOFLG	DS	BL1	54460000
000031			774+DCBREADA	DS	0AL3	54470000
000031			775+DCBWRITA	DS	AL3	54480000
					ADDRESS OF READ MODULE	
					ADDRESS OF WRITE MODULE	@ZA11086
					SAME AS DCBOFLGS BEFORE OPEN	@ZA11086
					ADDRESS OF READ MODULE	@ZA11086
					ADDRESS OF WRITE MODULE	@ZA11086
000034		00030	777+	ORG	IHADCB+48	54600000
000030			778+DCBGET	DS	0A -	54650000
000030			779+DCBPUT	DS	0A -	54700000
000030			780+DCBOFLG1	DS	BL1	54710000
000031			781+DCBGETA	DS	0AL3	54720000
000031			782+DCBPUTA	DS	AL3	54730000
					ADDRESS OF GET MODULE	@ZA11086
					ADDRESS OF PUT MODULE	@ZA11086
					SAME AS DCBOFLGS BEFORE OPEN	@ZA14562
					ADDRESS OF GET MODULE	@ZA11086
					ADDRESS OF PUT MODULE	@ZA11086
					786+*****	77701000
					787+*	77750000
					QSAM-BSAM-BPAM COMMON INTERFACE	77751000
					788+*****	77751000
000034		00034	790+	ORG	IHADCB+52	77850000
000034			791+DCBGERR	DS	0A -	77950000
000034			792+DCBPERR	DS	0A -	78000000
000034			793+DCBCHECK	DS	0A -	78050000
000034			794+DCBOPTCD	DS	BL1 -	78150000
		00080	795+DCBOPTW	EQU	DCBBIT0 -	78500000
			796+*		WRITE VALIDITY CHECK (DASD)	78550000
		00040	797+DCBOPTU	EQU	DCBBIT1 -	78600000
			798+*		(BSAM, BPAM, QSAM, ISAM, BDAM)	78650000
			799+*		ALLOW DATA CHECK CAUSED BY INVALID	78700000
			800+*		CHARACTER (1403 PRINTER WITH UCS FEATURE)	78710000
			801+*		(BSAM, BPAM, QSAM)	78720000
			802+DCBOPTC	EQU	DCBBIT2 -	78750000
			803+*		(BSAM, BPAM, QSAM)	78800000
		00010	804+DCBOPTH	EQU	DCBBIT3 -	78850000
			805+*		1287/1288 OPTICAL READER - HOPPER EMPTY	78900000
			806+*		EXIT (BSAM, BPAM)	78920000
		00010	807+DCBOPTO	EQU	DCBBIT3 -	78950000
					PDS STAGING ON MSS REQUEST(BPAM) @ZA36508	78950000
					1285/1287 OPTICAL READER - ON-LINE	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				808+*	CORRECTION (QSAM)	79000000
		00010		809+DCBBCKPT EQU DCBBIT3 -	CHANNEL-END APPENDAGE IS TO BYPASS DOS	79050000
				810+*	EMBEDDED CHECKPOINT RECORDS ON TAPE	79100000
				811+*	(BSAM, QSAM)	79150000
		00008		812+DCBOPTQ EQU DCBBIT4 -	TRANSLATION TO OR FROM ASCII	79200000
				813+*	(BSAM, BPAM, QSAM)	79250000
		00004		814+DCBOPTZ EQU DCBBIT5 -	MAGNETIC TAPE DEVICES - USE REDUCED ERROR	79300000
				815+*	RECOVERY PROCEDURE (EXCP, BSAM, BPAM,	79350000
				816+*	QSAM)	79400000
		00004		817+DCBSRCHD EQU DCBBIT5 -	USE SEARCH DIRECT, INSTEAD OF SEARCH	79450000
				818+*	PREVIOUS, ON RECORD POSITION SENSING	79500000
				819+*	DEVICE (EXCP, BSAM, BPAM, QSAM)	79550000
		00002		820+DCBOPTT EQU DCBBIT6 -	USER TOTALING (BSAM, QSAM)	79600000
				821+*		79610000
				822+*		79620000
		00001		823+DCBOPTJ EQU DCBBIT7	3800 PRINTER, OPTCD=J; (DYNAMIC @Z40MSRZ	79630000
				824+*	SELECT OF TRANSLATE TABLES) @Z40MSRZ	79640000
000035				825+DCBGERRA DS OAL3 -	ADDRESS OF SYNCHRONIZING ROUTINE FOR GET	79700000
000035				826+DCBPERRA DS OAL3 -	ADDRESS OF SYNCHRONIZING ROUTINE FOR PUT	79750000
000035				827+DCBCHCKA DS AL3 -	ADDRESS OF CHECK MODULE	79800000
000038				828+DCBSYNAD DS OA -	ADDRESS OF USER-PROVIDED SYNAD ROUTINE	80050000
000038				829+DCBIOBL DS FL1 -	IOB LENGTH IN DOUBLE WORDS	80100000
000039				830+DCBSYNA DS AL3 -	ADDRESS OF USER-PROVIDED SYNAD ROUTINE	80150000
00003C				831+DCBFLAG1 DS OBL1 -	TCAM APPLICATION PROGRAM FLAGS	80460000
				832+*	(BSAM, BPAM, QSAM)	80470000
00003C				833+DCBCIND1 DS BL1 -	CONDITION INDICATORS	80500000
		00080		834+DCBCNTOV EQU DCBBIT0 -	DIRECT ACCESS - TRACK OVERFLOW IN USE	80550000
				835+*	(BSAM, BPAM, QSAM)	80600000
				836+*	2540 CARD PUNCH - DATA SET WAS OPENED BUT	80650000
				837+*	NO DATA WAS WRITTEN (QSAM)	80700000
		00080		838+DCBSTQCK EQU DCBBIT0 -	STOP EQUAL QUICK WAS SPECIFIED FOR	80710000
				839+*	APPLICATION PROG. DCBS (TCAM)	80720000
		00040		840+DCBSTFLS EQU DCBBIT1 -	STOP EQUAL FLUSH WAS SPECIFIED FOR	80730000
				841+*	APPLICATION PROG. DCBS (TCAM)	80740000
		00040		842+DCBCNSRD EQU DCBBIT1 -	SEARCH DIRECT (BSAM, BPAM, QSAM)	80750000
		00020		843+DCBCNEVB EQU DCBBIT2 -	END OF VOLUME - USED BY EOB ROUTINES	80800000
				844+*	(BSAM, BPAM, QSAM)	80850000
		00010		845+DCBCNEVA EQU DCBBIT3 -	END OF VOLUME - USED BY CHANNEL-END	80900000
				846+*	APPENDAGE ROUTINES (BSAM, BPAM, QSAM)	80950000
		00004		847+DCBCNBRM EQU DCBBIT5 -	BLOCKED RECORD BIT MODIFIED (BSAM, BPAM,	81000000
				848+*	QSAM)	81050000
		00001		849+DCBCNEXB EQU DCBBIT7 -	EXCHANGE BUFFERING SUPPORTED (QSAM)	81100000
00003D				850+DCBCIND2 DS BL1 -	CONDITION INDICATORS	81150000
		00080		851+DCBCNSTO EQU DCBBIT0 -	PARTITIONED DATA SET - STOW HAS BEEN	81200000
				852+*	PERFORMED (BSAM, BPAM, QSAM)	81250000
				853+*	SEQUENTIAL DATA SET - UPDATE (BSAM, BPAM)	81300000
		00040		854+DCBCNWRO EQU DCBBIT1 -	DIRECT ORGANIZATION DATA SET - LAST I/O	81350000
				855+*	WAS A WRITE RECORD ZERO	81400000
				856+*	(BSAM, BPAM, QSAM)	81450000
				857+*	SEQUENTIAL DATA SET - UPDATE EOF IS	81500000
				858+*	INDICATED (BSAM, BPAM)	81550000
		00020		859+DCBCNCLO EQU DCBBIT2 -	CLOSE IN PROCESS (QSAM)	81600000
		00010		860+DCBCNIOE EQU DCBBIT3 -	PERMANENT I/O ERROR (BSAM, BPAM, QSAM)	81650000
		00008		861+DCBCNBFP EQU DCBBIT4 -	OPEN ACQUIRED BUFFER POOL	81700000
				862+*	(BSAM, BPAM, QSAM)	81750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
			00004	863+DCBCNCHS EQU	DCBBIT5 - CHAINED SCHEDULING BEING SUPPORTED	81800000
				864+*	(BSAM, BPAM, QSAM)	81850000
			00002	865+DCBCNFEO EQU	DCBBIT6 - FEOV BIT (BSAM, BPAM, QSAM)	81900000
			00001	866+DCBCNQSM EQU	DCBBIT7 - ALWAYS ZERO (BSAM, BPAM)	81950000
				867+*	THIS IS A QSAM DCB (QSAM)	82000000
00003E				868+DCBBLKSI DS	H - MAXIMUM BLOCK SIZE	82100000
000040				869+DCBWCPD DS	AL1 - OFFSET OF WRITE CHANNEL PROGRAM FROM THE	82350000
				870+*	START OF IOB	82400000
000041				871+DCBWCPL DS	FL1 - LENGTH OF WRITE CHANNEL PROGRAM	82450000
000042				872+DCBOFFSR DS	AL1 - OFFSET OF READ CCW FROM BSAM/BPAM PREFIX	82500000
				873+*	OF IOB	82550000
000043				874+DCBOFFSW DS	AL1 - OFFSET OF WRITE CCW FROM BSAM/BPAM PREFIX	82600000
				875+*	OF IOB	82650000
000044				876+DCBIOBA DS	A - FOR NORMAL SCHEDULING, ADDRESS OF QSAM OR	82700000
				877+*	BSAM/BPAM PREFIX OF IOB. FOR CHAINED	82750000
				878+*	SCHEDULING, ADDRESS OF ICB. FOR	82800000
				879+*	1419/1275, ADDRESS OF MAGNETIC INTERRUPT	82850000
				880+*	CONTROL BLOCK (MICB) CURRENTLY BEING	82900000
				881+*	PROCESSED BY READ ROUTINE. FOR TSO	82950000
				882+*	TERMINAL DATA SET OPENED FOR INPUT AND	83000000
				883+*	FORMAT U, SIMULATED LOW-ORDER FOUR BYTES	83050000
				884+*	OF IOBCSW	83100000
000048			00044	886+ ORG	IHADCB+68	83160000
000044				887+DCBCICB DS	0A - SAME AS DCBCICBA BELOW	83200000
000044				888+ DS	X - DCBNCP (BSAM,BPAM)	83250000
000045				889+DCBCICBA DS	AL3 - POINTER TO JES C.I.	83300000
				890+*	CONTROL BLOCK (CICB)	83350000
000048			00050	892+ ORG	IHADCB+80	83450000
000050				893+DCBDIRECT DS	0H - NUMBER OF BYTES USED IN LAST DIRECTORY	83500000
				894+*	BLOCK (RANGE 0-254) (BSAM, BPAM)	83550000
000050				895+DCBQSW S DS	OBL1 - FLAG BYTE	83600000
			00004	896+DCBPOPEN EQU	DCBBIT5 - QSAM PARALLEL INPUT PROCESSING	83601000
000050				897+DCBUSASI DS	B - FLAG BYTE FOR ASCII TAPES	83650000
			00040	898+DCBBLBP EQU	DCBBIT1 - BLOCK PREFIX IS FOUR BYTE FIELD	83700000
				899+*	CONTAINING BLOCK LENGTH IN UNPACKED	83750000
				900+*	DECIMAL (SPECIFIED BY BUFFER=L).	83800000
			00038	901+DCBQADFS EQU	DCBBIT2+DCBBIT3+DCBBIT4 USED TO PERFORM SEQUENCE	83850000
				902+*	CHECKING WITH MULTIPLE FUNCTION SUPPORT	83900000
				903+*	FOR 3525 (BSAM, QSAM)	83950000
			00020	904+DCBQADF1 EQU	DCBBIT2 - FIRST BIT OF DCBQADFS	84000000
			00010	905+DCBQADF2 EQU	DCBBIT3 - SECOND BIT OF DCBQADFS	84050000
			00008	906+DCBQADF3 EQU	DCBBIT4 - THIRD BIT OF DCBQADFS	84100000
			00002	907+DCB3525A EQU	DCBBIT6 - DCB IS 3525 - ASSOCIATED DATA	84110000
				908+*	SETS EXIST	84120000
			00001	909+DCBQSTRU EQU	DCBBIT7 - TRUNC ENTRY POINT ENTERED (QSAM)	84150000
000051				910+DCBBUFOF DS	OFL1 - BLOCK PREFIX LENGTH (0-99), SPECIFIED BY	84200000
				911+*	BUFOFF=N OR BUFOFF=L	84250000
000051				912+DCBDIRCQ DS	FL1 - NUMBER OF BYTES USED IN LAST DIRECTORY	84300000
				913+*	BLOCK (RANGE 0-254) (QSAM)	84350000
				915+*****	*****	84451000
				916+*	BSAM-BPAM INTERFACE	84500000
				917+*****	*****	84501000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000052			00048	919+	ORG	IHADCB+72	84600000
000048				920+DCBEOBR	DS	0A -	84650000
000048				921+DCBNCP	DS	FL1 -	84750000
				922+*		NUMBER OF CHANNEL PROGRAMS.	85000000
				923+*		NUMBER OF READ OR WRITE REQUESTS WHICH	85050000
				924+*		MAY BE ISSUED PRIOR TO A CHECK, NUMBER	85100000
000049				925+DCBEOBRA	DS	AL3 -	85150000
00004C				926+DCBEOBW	DS	A -	85200000
				927+*		ADDRESS OF END-OF-BLOCK MODULE FOR WRITE.	85250000
				928+*		FOR BSAM CREATE BDAM PROCESSING OF	85300000
				929+*		UNBLOCKED SPANNED RECORDS WITH BKTEK=R	85350000
				930+*		SPECIFIED, ADDRESS OF SEGMENT WORK AREA	85400000
000050				931+	DS	H -	85450000
				932+*		DCBDIRECT - NUMBER OF BYTES USED IN LAST	85500000
000052				933+DCBLRECL	DS	H -	85600000
000054				934+DCBCNTRL	DS	0A -	85850000
000054				935+DCBNOTE	DS	0A -	85900000
000054				936+DCBPOINT	DS	A -	85950000
				938+*****		*****	86051000
				939+*		QSAM INTERFACE	86100000
				940+*****		*****	86101000
000058			00048	942+	ORG	IHADCB+72	86650000
000048				943+DCBLCCW	DS	0A -	86700000
				944+*		FOR EXCHANGE BUFFERING, ADDRESS OF LAST	86750000
000048				945+DCBEOBAD	DS	A -	86800000
				946+*		CCW IN LIST	86850000
00004C				947+DCBCCCW	DS	0A -	86900000
				948+*		FOR SIMPLE BUFFERING, ADDRESS OF LAST	86950000
00004C				949+DCBRECAD	DS	0A -	87000000
00004C				950+DCBRECBT	DS	BL1 -	87050000
			000F0	951+DCBRCREL	EQU	DCBBIT0+DCBBIT1+DCBBIT2+DCBBIT3 RELSE MACRO HAS BEEN	87100000
				952+*		ISSUED (QSAM WITH SIMPLE BUFFERING)	87150000
			00080	953+DCBRCTRU	EQU	DCBBIT0 -	87200000
				954+*		TRUNC MACRO HAS BEEN ISSUED (QSAM LOCATE	87250000
			00040	955+DCBRCFG	EQU	DCBBIT1 -	87300000
00004D				956+DCBRECA	DS	AL3 -	87350000
000050				957+	DS	B -	87400000
000051				958+	DS	FL1 -	87450000
				959+*		DCBDIRCB - NUMBER OF BYTES USED IN LAST	87500000
000052				960+	DS	H -	87750000
000054				961+	DS	0A -	88000000
000054				962+DCBEROPT	DS	BL1 -	88100000
			00080	963+DCBERACC	EQU	DCBBIT0 -	88150000
			00040	964+DCBERSKP	EQU	DCBBIT1 -	88200000
			00020	965+DCBERABE	EQU	DCBBIT2 -	88250000
000055				966+	DS	AL3 -	88500000
000058				967+	DS	XL2 -	88600000
00005A				968+DCBPREF	DS	H -	88601000
				969+*		FORMAT F RECORDS: BLOCK LENGTH	88602000
				970+*		FORMAT U RECORDS: MAXIMUM BLOCK LENGTH	88603000
				971+*		FORMAT V RECORDS:	88604000
				972+*		UNSPANNED RECORDS: MAXIMUM BLOCK LENGTH	88605000
				973+*		SPANNED RECORDS:	88606000
						PUT, NOT DATA MODE:	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				974+*	MAXIMUM BOLCK LENGTH	88607000
				975+*	PUT, DATA MODE:	88608000
				976+*	DATA LENGTH	88609000
				977+*	GET:	88610000
				978+*	SEGMENT CONTROL CODE OF PREVIOUS	88611000
				979+*	SEGMENT	88612000
00005C				980+DCBEOB	DS A - ADDRESS OF END OF BLOCK MODULE	88750000
				983	COPY DISASMDA	02660000
				984	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				985	PRINT OFF	00020000
				1196	PRINT ON	02130000
				1197 .DA020	ANOP	02140000
				1198	*-----*	02670000
				1199 *		* 02680000
				1200 *	COMMON DATA MAP	* 02690000
				1201 *		* 02700000
				1202	*-----*	02710000
				1203 DISASM00	DISASMCM TYPE=DSECT	02720000
				1204+	PRINT OFF	00280000
				1835+	PRINT ON	06440000
				1836+*	*-----*	06460000
				1837+*		* 06470000
				1838+*	ABEND REASON CODES	* 06480000
				1839+*		* 06490000
				1840+*	*-----*	06500000
		00001		1841+ABEND001	EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000
		00002		1842+ABEND002	EQU 2 UNKNOWN RETURN CODE FROM BLDL	06520000
		00003		1843+ABEND003	EQU 3 UNKNOWN RLD ITEM TYPE	06530000
		00004		1844+ABEND004	EQU 4 RLD DATA REMAINING WENT NEGATIVE	06540000
		00005		1845+ABEND005	EQU 5 ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000		1848+R0	EQU 0	00070000
		00001		1849+R1	EQU 1	00080000
		00002		1850+R2	EQU 2	00090000
		00003		1851+R3	EQU 3	00100000
		00004		1852+R4	EQU 4	00110000
		00005		1853+R5	EQU 5	00120000
		00006		1854+R6	EQU 6	00130000
		00007		1855+R7	EQU 7	00140000
		00008		1856+R8	EQU 8	00150000
		00009		1857+R9	EQU 9	00160000
		0000A		1858+R10	EQU 10	00170000
		0000B		1859+R11	EQU 11	00180000
		0000C		1860+R12	EQU 12	00190000
		0000D		1861+R13	EQU 13	00200000
		0000E		1862+R14	EQU 14	00210000
		0000F		1863+R15	EQU 15	00220000
000C68				1865 DISASM00	DSECT , BACK TO WANTED DSECT	02730000
000C68		00710		1866	ORG PRTDATA	02740000
000710				1867 OUTREC	DS OCL(L'NEXTREC) ENTIRE PRINT LINE	02750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000710				1868	OUTLCTR	DS CL6,C LOCATION COUNTER	02760000
000717				1869		DS 3CL(4+1) TEXT	02770000
000726				1870		DS 2CL(5+1) ADDR1/2	02780000
000732				1871	OUTSTMT	DS CL5 STATEMENT NUMBER	02790000
000737				1872	OUTIND	DS C ADD INDICATOR	02800000
000738				1873	OUTCARD	DS 0CL80 SOURCE RECORD	GP05089 02810000
000738				1874	OUTCTEXT	DS CL71 TEXT OF RECORD	GP05089 02820000
00077F				1875	OUTCCONT	DS C CONTINUATION INDICATOR	GP05089 02830000
000780				1876	OUTCSEQ	DS CL8 (OPT.) SEQUENCE	GP05089 02840000
000788		00C68		1877	ORG	,	02850000
				1878	END	,	02860000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	08	00009D	
0001	0001	08	000315	
0001	0001	08	000319	
0001	0001	08	00039D	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
\$ABORT	00001	00000080	01317	00135															
\$ERROR	00001	00000040	01318	00135	00264														
\$OPMASK	00001	00000001	01830	01486															
\$PFASM	00001	00000040	01341	00122	00183	00266													
\$PFCONT	00001	00000020	00398	00194	00210	00217													
\$PFCOPY	00001	00000040	01347	00100	00117														
\$PFEOD1	00001	00000080	00396	00158	00160	00236													
\$PFEOD2	00001	00000040	00397	00156	00160														
\$PFHAVE	00001	00000002	00399	00131	00245														
\$PFMAC	00001	00000080	01346	00104	00111														
\$PFSTMT	00001	00000001	00400	00162	00182														
\$PFTRC	00001	00000001	01338	01573	01575														
\$PRthead	00001	000000C8	01695	00189															
\$PRTPRT	00001	000000D7	01697	01683	01704														
\$PRTSUBH	00001	000000E2	01696	01579															
\$PUNCHDD	00001	00000010	01327	00057	00246														
ABORTER	00004	00000134	00129	00069	00074														
AOP	00004	000000AC	01244	01467															
APR	00004	000000B8	01246	01686															
APU	00004	000000BC	01247	01707															
BASEDSCT	00001	00000000	01003	01011															
BLKTRT	00001	00000A68	01744	01745	01747	01749	01751	01753	01755	01757	01759	01761	01763	01765	01767	01769			
COMMBLKS	00001	00000225	01362	00206															
COMMCLR	00004	000000F8	01273	01293	01297														
COMMDD	00001	00000164	01323	00057	00246														
COMMDWRD	00008	00000000	01211	01598	01599														
COMMFILL	00001	00000161	01314	01643															
COMMFLAG	00001	00000163	01316	00135	00264														
COMMHXCH	00016	00000275	01363	01364															
COMMHXTR	00016	00000185	01364	01590	01593	01596	01600												
COMMNPRt	00001	000003C7	01419	01420	01422	01424	01426	01428	01430	01432	01434	01436	01438	01440	01442	01444			
COMMPool	00001	00000162	01315	01635	01650														
COMMPRT	00001	000002C7	01390	01391	01393	01395	01397	01399	01401	01403	01405	01407	01409	01411	01413				
COMMSUBH	00133	0000016D	01358	00185	01576														
COMMSUBL	00002	00000154	01308	00187	00188	01577	01577	01578											
CONDCODE	00002	00000420	00394	00143															
DATACLR	00004	0000012C	00126	00123															
DATADSCT	00001	00000000	01018	01039															
DATAGET	00004	000000BC	00077	00125	00127														
DCBBIT0	00001	00000080	00446	00532	00540	00552	00575	00602	00604	00605	00607	00630	00633	00653	00657	00672	00709	00764	
				00795	00834	00838	00851	00951	00953	00963									
DCBBIT1	00001	00000040	00447	00533	00541	00554	00576	00577	00586	00602	00604	00606	00607	00635	00653	00655	00657	00675	
				00676	00677	00712	00713	00764	00797	00840	00842	00854	00898	00951	00955	00964			
DCBBIT2	00001	00000020	00448	00534	00542	00555	00556	00557	00576	00577	00581	00587	00602	00603	00608	00637	00658	00659	
				00680	00681	00682	00716	00717	00765	00802	00843	00859	00901	00904	00951	00965			
DCBBIT3	00001	00000010	00449	00535	00555	00557	00558	00576	00589	00609	00640	00658	00661	00684	00685	00686	00720	00721	
				00765	00804	00807	00809	00845	00860	00901	00905	00951							
DCBBIT4	00001	00000008	00450	00543	00590	00610	00641	00663	00668	00669	00689	00690	00724	00725	00727	00728	00766	00812	
				00861	00901	00906													
DCBBIT5	00001	00000004	00451	00544	00591	00613	00614	00643	00663	00665	00666	00669	00693	00695	00696	00697	00731	00732	
				00733	00734	00766	00814	00817	00847	00863	00896								
DCBBIT6	00001	00000002	00452	00536	00592	00593	00596	00613	00615	00644	00700	00701	00702	00703	00737	00738	00739	00740	
				00767	00820	00865	00907												
DCBBIT7	00001	00000001	00453	00537	00592	00594	00596	00617	00648	00705	00706	00743	00744	00746	00747	00823	00849	00866	
				00909															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
DCBFDAD	00008	00000005	00473	00476														
DCBLIST	00004	00000314	00277	00137	00282													
DCBLIST2	00004	00000318	00282	00071														
DCBLRECL	00002	00000052	00933	00200														
DCBOFLGS	00001	00000030	00629	00068	00073													
DCBOFOPN	00001	00000010	00640	00068	00073													
DISASMLS	00001	00000000	00041	00042	00048													
DISASM00	00001	00000000	01205	00049	01218	01457	01534	01571	01632	01668	01865							
DISPUNCH	00004	0000031C	00287	00066	00068	00249	00279											
DSCTDSCT	00001	00000000	01046	01052														
EMSG01	00001	00000423	00402	00129														
EMSG01T	00048	00000424	00403	00402														
EMSG02	00001	00000454	00404	00133														
EMSG02T	00058	00000455	00405	00404														
EODAD	00004	000002B6	00236	00359														
ESDDATA	00001	00000000	01059	01082														
ESDNAME	00008	0000000E	01063	01078														
EXGETOPC	00006	00000554	01498	01491														
EXIT0000	00004	0000013C	00131	00157														
EXIT0010	00004	00000148	00134	00130														
EXIT0020	00004	00000150	00137	00132														
GEN0010	00004	000000AA	00071	00058														
GETALINE	00004	00000272	00220	00211														
GETLINE	00004	00000174	00155	00075	00077													
GETLINEF	00004	00000190	00162	00159														
GETLINEG	00004	00000198	00165	00176														
GETLINEH	00006	000001AA	00170	00175														
GETLINEI	00004	000001CA	00177	00171	00173													
GETLINES	00006	00000204	00191	00163	00184													
GETLINET	00004	00000216	00196	00193	00203	00209	00213	00215	00221	00223	00225	00227	00233					
GETLINEX	00004	000002B0	00234	00161	00218	00229	00231	00238										
GETLSAVE	00004	000003DC	00392	00155	00234													
GETOPEXT	00004	00000546	01494	01487														
GETOPLEN	00001	0000055A	01499	01465														
GETOPNOT	00004	0000054E	01496	01470	01480	01485	01493											
GETOPTMK	00004	00000526	01486	01471														
GETOPWRK	00006	0000055E	01500	01490	01490	01492	01498											
GOCOPY	00004	0000010C	00117	00089														
GOMACRO	00004	00000100	00111	00091														
GOPRINT	00004	0000011C	00122	00112	00118													
GOPUNCH	00004	00000118	00121	00098	00101	00105	00107	00113	00119									
HEXTRT	00001	00000868	01726	01727	01729	01731	01733	01735										
IHADCB	00001	00000000	00429	00068	00073	00200	00514	00561	00626	00755	00770	00777	00790	00886	00892	00919	00942	
INTTRT	00001	00000968	01737	01738	01740	01742												
LABLDSCT	00001	00000000	01089	01105														
LISTDCB	00004	0000037C	00341	00073	00165	00196	00200	00281										
LOCFLAG	00001	00000422	00395	00131	00156	00158	00160	00162	00182	00194	00210	00217	00236	00245				
MAINRSV	00004	00000858	01724	01633	01639	01641	01645	01648	01654									
MODENT	00004	00000064	00046	00042														
MODHEAD	00023	00000005	00044	00043														
MODSAVE	00004	0000001C	00045	00050														
NBLTRT	00001	00000B68	01771	01772	01774													
NEXTREC	00132	0000048F	00407	00094	00096	00191	00204	00205	00208	00212	00212	00214	00214	00216	00220	00222	00226	00228
				00230	00237	00237	01867											
NONBLK	00001	00000597	00413	00222	00230	00414												

SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 00.48 07/11/18							
NONDIG	00001	00000697	00417	00226	00418	00420																	
OPDSECT	00001	00000000	01793	01468	01831																		
OPFLAGS	00001	00000007	01822	01486																			
OPFLAG1	00001	00000001	01795	01475																			
OPFLAG2	00001	00000002	01796	01477																			
OPFLAG3	00001	00000003	01797	01479																			
OPMASK	00006	00000008	01832	01492																			
OPMNEM	00006	00000000	01794	01795	01796	01797																	
ORG01COM	00004	000000F8	00106	00102																			
ORG01COP	00004	000000E4	00100	00095																			
ORG01MAC	00004	000000F0	00104	00097																			
OUTCARD	00080	00000738	01873	00106	00228	00230	00250																
OUTCCONT	00001	0000077F	01875	00192																			
OUTIND	00001	00000737	01872	00088	00090	00094	00096	00216	00216														
OUTREC	00132	00000710	01867	00094	00096	00191	00208	00212	00212	00216	00220	00222	00226	00228	00230								
OUTSTMT	00005	00000732	01871	00208	00212	00212	00212	00220	00220	00222	00222	00226	00226										
PRINTCLR	00004	00000702	01689	00268																			
PRINTDAT	00004	000006F0	01684	00190	01580																		
PRINTFG1	00001	00000165	01331	01573	01575																		
PRINTFG2	00001	00000166	01339	00122	00183	00266																	
PRINTFG3	00001	00000167	01345	00100	00104	00111	00117																
PRINTMSG	00004	000006BE	01669	00134																			
PRINTMVR	00006	000006E6	01681	01678																			
PRINTREC	00004	000006EC	01683	00263	01602	01680																	
PRINTREX	00004	000006FE	01688	01672																			
PRINTRSV	00004	00000848	01723	01669	01679	01684	01688	01705	01709														
PRTBLOK	00001	0000070E	01693	01685																			
PRTCC	00001	0000070F	01700	01689																			
PRTCLEAR	00004	000002F2	00268	00126																			
PRTCMD	00001	0000070E	01694	00189	01579	01683	01704																
PRTDATA	00132	00000710	01701	01587	01588	01589	01590	01591	01592	01593	01594	01595	01596	01597	01599	01600	01601	01673					
				01681	01690	01690	01866																
PRT0000	00004	000002DE	00263	00124																			
PRT0010	00002	000002F6	00269	00265	00267																		
PUNBLOK	00001	000007B2	01712	01706																			
PUNCH000	00004	000002C4	00245	00121																			
PUNDATA	00080	000007B4	01718	01703																			
REFDSCT	00001	00000000	01112	01122																			
RLDDATA	00001	00000000	01129	01147																			
R0	00001	00000000	01848	00146	00168	00175	00178	00199	00201	00207	01458	01464	01464	01465	01488	01536	01555	01572					
				01611	01635	01640	01644	01650	01673	01674	01676	01679											
R1	00001	00000001	01849	00129	00133	00169	00180	00181	00186	00187	00199	00200	00202	00206	00224	00232	01460	01474					
				01494	01496	01498	01535	01537	01541	01541	01542	01544	01546	01633	01639	01640	01641	01645					
				01669	01671	01681	01684	01685	01688	01703	01705	01706	01709										
R11	00001	0000000B	01859	00049	01457	01534	01571	01632	01668														
R12	00001	0000000C	01860	00046	00047	00048	00146	01548															
R13	00001	0000000D	01861	00046	00051	00052	00053	00144	00144	00145	00146												
R14	00001	0000000E	01862	00046	00050	00051	00052	00053	00055	00060	00134	00141	00145	00147	00190	00204	00207	00269					
				01461	01462	01463	01465	01472	01472	01474	01476	01478	01479	01481	01481	01482	01483	01494					
				01495	01497	01549	01556	01580	01602	01612	01633	01644	01645	01646	01648	01654	01655	01669					
				01679	01684	01687	01688	01691	01705	01708	01709	01710											
R15	00001	0000000F	01863	00042	00047	00143	00155	00169	00170	00172	00174	00174	00177	00178	00179	00205	00234	00263					
				00268	00269	01458	01459	01459	01460	01462	01466	01467	01468	01469	01469	01483	01484	01484					
				01496	01536	01555	01572	01611	01642	01642	01643	01648	01654	01670	01670	01671	01674	01676					
				01677	01678	01686	01687	01707	01708														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
R2	00001	00000002	01850	00155 00234 01473 01473 01475 01476 01477 01478	
R4	00001	00000004	01852	01488 01489 01491	
R5	00001	00000005	01853	01581 01584 01604 01604 01605 01607 01609	
R9	00001	00000009	01857	00075 00077 00121 00124 00126 00235 00247 00253 00270	
SUBHEAD	00132	00000513	00410	00181 00185 00411	
SUBHEADL	00001	00000084	00411	00185 00186	
SYMDATA	00001	00000000	01154	01159	
TEXTOFF	00004	0000041C	00393	00179 00180 00201 00202	
TPODA1A	00008	00000017	01616	01589 01589 01590 01590 01591 01591	
TPODA1B	00008	00000020	01617	01592 01592 01593 01593 01594 01594	
TPODA2A	00008	0000002A	01618	01595 01595 01596 01596 01597 01597	
TPODA2B	00008	00000033	01619	01599 01599 01600 01600 01601 01601	
TPOMOD	00008	00000003	01614	01587 01587	
TPOTID	00008	0000000D	01615	01588 01588	
TRACEPEN	00004	00000662	01611	01574 01583 01606	
TRACEPIN	00004	00000646	01604	01582 01586	
TRACEPPR	00004	000005E2	01585	01608 01610	
TRACESHD	00027	00000668	01620	01576 01576 01577	
TRACE000	00002	00000564	01533	00055 00060 00141	
TRACE010	00002	00000580	01545	01543	
TRACE020	00002	000005A8	01554	01538	
TRCESAVE	00004	00000808	01722	01458 01494 01496 01536 01555 01572 01611	
TRCURR	00004	000000D4	01259	01537 01546 01581 01605	
TRDATA1	00008	000000E0	01262	01550 01552 01552	
TRDATA2	00008	000000E8	01263	01551 01553 01553	
TREDATA1	00008	00000010	01784	01550 01589 01592	
TREDATA2	00008	00000018	01785	01551 01595 01598	
TREID	00008	00000008	01783	01549 01588	
TREMOD	00008	00000000	01782	01548 01585 01587	
TRENTYR	00001	00000000	01781	01535 01584 01603 01603 01786	
TRENTYRL	00001	00000020	01786	01541 01603 01604	
TRLAST	00004	000000CC	01257	01542 01607	
TR1ST	00004	000000C4	01255	01544 01609	
USNGDSCT	00001	00000000	01166	01180	
VERPSECT	00001	00000000	01187	01193	

SYMBOL

LEN

VALUE

DEFN

REFERENCES

ASM 0201 00.48 07/11/18

=C' STMT

S'

00009

00000300

00273

00170

=C' STMT

S'

00009

00000309

00274

00172

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 286

TOTAL RECORDS READ FROM SYSTEM LIBRARY 7270

TOTAL RECORDS PUNCHED 41

TOTAL RECORDS PRINTED 1330

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISASMOP	SD	0001	000000	00100C		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISASMOP (MODIFIED ALIAS OF 370 TABLE FOR DEFAULT)	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES FOR SYSTEM 370	* 00070000
				8 *		* 00080000
				9 *	TWO-BYTE OPCODE SUPPORT ADDED:	* 00090000
				10 *		* 00100000
				11 *	ADDRESS FOR EACH TWO-BYTE OPCODE IS IN A SECONDARY TABLE,	* 00110000
				12 *	GENERATED WITH A TYPE=DEFINE. OPERANDS ARE:	* 00120000
				13 *	1) MACHINE CODE IN HEX	* 00130000
				14 *	2) AND FLAG FOR SECOND BYTE	* 00140000
				15 *	3) RIGHT SHIFT AMOUNT FOR MASKED VALUE	* 00150000
				16 *	4) LARGEST MASKED/SHIFTED VALUE	* 00160000
				17 *		* 00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	* 00180000
				19 *		* 00190000
				20 *	-----*	00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	00010000
				23 *		* 00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				25 *		* 00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				27 *		* 00060000
				28 *	-----*	00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				31	GBLC &TROPT,&DAPRT,&COMPT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISASMOP CSECT , DEFAULT TABLE GP10015	00220000
000000				34	ORG DISASMOP+(256*4)	00230000
				35 *	-----*	00240000
				36 *	OPCODE TABLE FOR S/370 (WITHOUT BAS,BASR,SSM)	* 00250000
				37 *	-----*	00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40	OPCODE 04,SPM,\$OPRR4,MASK=000F GP10018	00280000
000408	E2D7D44040400421			41+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000410	000F00000000			42+	DC XL6'000F00000000'	00950000
				43	OPCODE 05,BALR,\$OPRR1,'CALL'	00290000
000416	C2C1D3D940400100			44+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
00041E	C3C1D3D340404040			45+	DC CL12'CALL'	00980000
				46	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00300000
00042A	C2C3E3D940400100			47+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000432	D3D6D6D740404040			48+	DC CL12'LOOP'	00980000
				49	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00310000
00043E	C2C3D940404003A0			50+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				51	OPCODE 08,SSK,\$OPRR1	00320000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000446	E2E2D24040400120			52+MACH08	DC CL6'SSK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				53	OPCODE 09,ISK,\$OPRR1	00330000
00044E	C9E2D24040400120			54+MACH09	DC CL6'ISK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				55	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OP SVC	GP10035 00340000
000456	E2E5C34040400240			56+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OP SVC)	00910000
00045E	E2E5C34040404040			57+	DC CL12'SVC'	00980000
				58 *37B*	OPCODE 0D,BASR,\$OPRR1	00350000
				59	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA	00360000
00046A	D4E5C3D340400128			60+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				61	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA	00370000
000472	C3D3C3D340400128			62+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				63	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00380000
00047A	D3D7D94040400128			64+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				65	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00390000
000482	D3D5D94040400128			66+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				67	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00400000
00048A	D3E3D94040400128			68+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00410000
000492	D3C3D94040400128			70+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				71	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00420000
00049A	D5D9404040400122			72+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				73	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00430000
0004A2	C3D3D94040400124			74+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				75	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00440000
0004AA	D6D9404040400122			76+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				77	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00450000
0004B2	E7D9404040400122			78+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				79	OPCODE 18,LR,\$OPRR1	00460000
0004BA	D3D9404040400120			80+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				81	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00470000
0004C2	C3D9404040400124			82+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				83	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00480000
0004CA	C1D9404040400128			84+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				85	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00490000
0004D2	E2D9404040400128			86+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				87	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00500000
0004DA	D4D9404040400121			88+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004E2	001000000000			89+	DC XL6'001000000000'	00950000
				90	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00510000
0004E8	C4D9404040400121			91+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004F0	001000000000			92+	DC XL6'001000000000'	00950000
				93	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00520000
0004F6	C1D3D94040400128			94+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				95	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00530000
0004FE	E2D3D94040400128			96+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				97	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00540000
000506	D3D7C4D940400129			98+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00050E	009900000000			99+	DC XL6'009900000000'	00950000
				100	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00550000
000514	D3D5C4D940400129			101+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00051C	009900000000			102+	DC XL6'009900000000'	00950000
				103	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00560000
000522	D3E3C4D940400129			104+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00052A	009900000000			105+	DC XL6'009900000000'	00950000
				106	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00570000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000530	D3C3C4D940400129			107+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000538	0099000000000			108+	DC XL6'0099000000000'	00950000
				109	OPCODE 24,HDR,\$OPRR1,MASK=0099	GP10018 00580000
00053E	C8C4D94040400121			110+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000546	0099000000000			111+	DC XL6'0099000000000'	00950000
				112	OPCODE 25,LRDR,\$OPRR1,MASK=0099	GP10018 00590000
00054C	D3D9C4D940400121			113+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000554	0099000000000			114+	DC XL6'0099000000000'	00950000
				115	OPCODE 26,MXR,\$OPRR1,MASK=0099	GP10018 00600000
00055A	D4E7D94040400121			116+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000562	0099000000000			117+	DC XL6'0099000000000'	00950000
				118	OPCODE 27,MXDR,\$OPRR1,MASK=0099	GP10018 00610000
000568	D4E7C4D940400121			119+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000570	0099000000000			120+	DC XL6'0099000000000'	00950000
				121	OPCODE 28,LDR,\$OPRR1,MASK=0099	GP10018 00620000
000576	D3C4D94040400121			122+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00057E	0099000000000			123+	DC XL6'0099000000000'	00950000
				124	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC,MASK=0099	GP10018 00630000
000584	C3C4D94040400125			125+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
00058C	0099000000000			126+	DC XL6'0099000000000'	00950000
				127	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00640000
000592	C1C4D94040400129			128+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00059A	0099000000000			129+	DC XL6'0099000000000'	00950000
				130	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00650000
0005A0	E2C4D94040400129			131+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005A8	0099000000000			132+	DC XL6'0099000000000'	00950000
				133	OPCODE 2C,MDR,\$OPRR1,MASK=0099	GP10018 00660000
0005AE	D4C4D94040400121			134+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005B6	0099000000000			135+	DC XL6'0099000000000'	00950000
				136	OPCODE 2D,DDR,\$OPRR1,MASK=0099	GP10018 00670000
0005BC	C4C4D94040400121			137+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005C4	0099000000000			138+	DC XL6'0099000000000'	00950000
				139	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00680000
0005CA	C1E6D94040400129			140+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005D2	0099000000000			141+	DC XL6'0099000000000'	00950000
				142	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00690000
0005D8	E2E6D94040400129			143+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005E0	0099000000000			144+	DC XL6'0099000000000'	00950000
				145	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00700000
0005E6	D3D7C5D940400129			146+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005EE	0099000000000			147+	DC XL6'0099000000000'	00950000
				148	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00710000
0005F4	D3D5C5D940400129			149+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005FC	0099000000000			150+	DC XL6'0099000000000'	00950000
				151	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00720000
000602	D3E3C5D940400129			152+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00060A	0099000000000			153+	DC XL6'0099000000000'	00950000
				154	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00730000
000610	D3C3C5D940400129			155+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000618	0099000000000			156+	DC XL6'0099000000000'	00950000
				157	OPCODE 34,HER,\$OPRR1,MASK=0099	GP10018 00740000
00061E	C8C5D94040400121			158+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000626	0099000000000			159+	DC XL6'0099000000000'	00950000
				160	OPCODE 35,LRER,\$OPRR1,MASK=0099	GP10018 00750000
00062C	D3D9C5D940400121			161+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000634	009900000000			162+	DC XL6'009900000000'	00950000
				163	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00760000
00063A	C1E7D94040400129			164+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000642	009900000000			165+	DC XL6'009900000000'	00950000
				166	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00770000
000648	E2E7D94040400129			167+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000650	009900000000			168+	DC XL6'009900000000'	00950000
				169	OPCODE 38,LER,\$OPRR1,MASK=0099	GP10018 00780000
000656	D3C5D94040400121			170+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00065E	009900000000			171+	DC XL6'009900000000'	00950000
				172	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00790000
000664	C3C5D94040400129			173+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00066C	009900000000			174+	DC XL6'009900000000'	00950000
				175	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00800000
000672	C1C5D94040400129			176+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00067A	009900000000			177+	DC XL6'009900000000'	00950000
				178	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00810000
000680	E2C5D94040400129			179+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000688	009900000000			180+	DC XL6'009900000000'	00950000
				181	OPCODE 3C,MER,\$OPRR1,MASK=0099	GP10018 00820000
00068E	D4C5D94040400121			182+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000696	009900000000			183+	DC XL6'009900000000'	00950000
				184	OPCODE 3D,DER,\$OPRR1,MASK=0099	GP10018 00830000
00069C	C4C5D94040400121			185+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0006A4	009900000000			186+	DC XL6'009900000000'	00950000
				187	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00840000
0006AA	C1E4D94040400129			188+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006B2	009900000000			189+	DC XL6'009900000000'	00950000
				190	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00850000
0006B8	E2E4D94040400129			191+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006C0	009900000000			192+	DC XL6'009900000000'	00950000
				193	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00860000
0006C6	E2E3C84040400730			194+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				195	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00870000
0006CE	D3C1404040400730			196+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				197	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00880000
0006D6	E2E3C34040400730			198+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				199	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00890000
0006DE	C9C3404040400730			200+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				201	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00900000
0006E6	C5E7404040400730			202+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				203	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00910000
0006EE	C2C1D34040400710			204+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
0006F6	C3C1D3D340404040			205+	DC CL12'CALL'	00980000
				206	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00920000
000702	C2C3E34040400710			207+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
00070A	D3D6D6D740404040			208+	DC CL12'LOOP'	00980000
				209	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00930000
000716	C2C34040404007B0			210+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				211	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00940000
00071E	D3C8404040400730			212+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				213	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00950000
000726	C3C8404040400734			214+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				215	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00960000
00072E	C1C8404040400738			216+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				217	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00970000
000736	E2C8404040400738			218+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				219	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF	00980000
00073E	D4C8404040400730			220+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				221 *37B*	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF	00990000
				222	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF	01000000
000746	C3E5C44040400730			223+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				224	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF	01010000
00074E	C3E5C24040400730			225+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				226	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF	01020000
000756	E2E3404040400730			227+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				228	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01030000
00075E	D540404040400732			229+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				230	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01040000
000766	C3D3404040400734			231+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				232	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01050000
00076E	D640404040400732			233+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				234	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01060000
000776	E740404040400732			235+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				236	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF	01070000
00077E	D340404040400730			237+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				238	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01080000
000786	C340404040400734			239+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				240	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01090000
00078E	C140404040400738			241+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				242	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01100000
000796	E240404040400738			243+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				244	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01110000
00079E	D440404040400731			245+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007A6	0010000000000			246+	DC XL6'001000000000'	00950000
				247	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01120000
0007AC	C440404040400731			248+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007B4	0010000000000			249+	DC XL6'001000000000'	00950000
				250	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01130000
0007BA	C1D3404040400738			251+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				252	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01140000
0007C2	E2D3404040400738			253+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				254	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01150000
0007CA	E2E3C44040400731			255+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007D2	0090000000000			256+	DC XL6'009000000000'	00950000
				257	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01160000
0007D8	D4E7C44040400731			258+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007E0	0090000000000			259+	DC XL6'009000000000'	00950000
				260	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01170000
0007E6	D3C4404040400731			261+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007EE	0090000000000			262+	DC XL6'009000000000'	00950000
				263	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01180000
0007F4	C3C4404040400735			264+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
0007FC	0090000000000			265+	DC XL6'009000000000'	00950000
				266	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01190000
000802	C1C4404040400739			267+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00080A	0090000000000			268+	DC XL6'009000000000'	00950000
				269	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01200000
000810	E2C4404040400739			270+MACH6B	DC CL6'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000818	0090000000000			271+	DC XL6'009000000000'	00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM	0201	00.48	07/11/18
				272	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01210000	
00081E	D4C4404040400731			273+MACH6C	DC CL6'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
000826	0090000000000			274+	DC XL6'0090000000000'			00950000	
				275	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01220000	
00082C	C4C4404040400731			276+MACH6D	DC CL6'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
000834	0090000000000			277+	DC XL6'0090000000000'			00950000	
				278	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01230000	
00083A	C1E6404040400731			279+MACH6E	DC CL6'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
000842	0090000000000			280+	DC XL6'0090000000000'			00950000	
				281	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000		GP10018	01240000	
000848	E2E6404040400739			282+MACH6F	DC CL6'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)			00910000	
000850	0090000000000			283+	DC XL6'0090000000000'			00950000	
				284	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01250000	
000856	E2E3C54040400731			285+MACH70	DC CL6'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
00085E	0090000000000			286+	DC XL6'0090000000000'			00950000	
				287	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01260000	
000864	D3C5404040400731			288+MACH78	DC CL6'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
00086C	0090000000000			289+	DC XL6'0090000000000'			00950000	
				290	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000		GP10018	01270000	
000872	C3C5404040400735			291+MACH79	DC CL6'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)			00910000	
00087A	0090000000000			292+	DC XL6'0090000000000'			00950000	
				293	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000		GP10018	01280000	
000880	C1C5404040400739			294+MACH7A	DC CL6'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)			00910000	
000888	0090000000000			295+	DC XL6'0090000000000'			00950000	
				296	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000		GP10018	01290000	
00088E	E2C5404040400739			297+MACH7B	DC CL6'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)			00910000	
000896	0090000000000			298+	DC XL6'0090000000000'			00950000	
				299	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01300000	
00089C	D4C5404040400731			300+MACH7C	DC CL6'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
0008A4	0090000000000			301+	DC XL6'0090000000000'			00950000	
				302	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF,MASK=00900000		GP10018	01310000	
0008AA	C4C5404040400731			303+MACH7D	DC CL6'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
0008B2	0090000000000			304+	DC XL6'0090000000000'			00950000	
				305	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000		GP10018	01320000	
0008B8	C1E4404040400739			306+MACH7E	DC CL6'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)			00910000	
0008C0	0090000000000			307+	DC XL6'0090000000000'			00950000	
				308	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000		GP10018	01330000	
0008C6	E2E4404040400739			309+MACH7F	DC CL6'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)			00910000	
0008CE	0090000000000			310+	DC XL6'0090000000000'			00950000	
				311 *	SSM PRODUCES MANY FALSE INSTRUCTIONS FOR 31-BIT ADCONS			01340000	
				312 *	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF,MASK=00FF0000		GP10018	01350000	
				313	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000		GP10018	01360000	
0008D4	D3D7E2E640400931			314+MACH82	DC CL6'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)			00910000	
0008DC	00FF000000000			315+	DC XL6'00FF000000000'			00950000	
				316	OPCODE 83,DIAG,\$OPRSI			01370000	
0008E2	C4C9C1C740400B20			317+MACH83	DC CL6'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)			00910000	
				318 *360*	OPCODE 84,WRD,\$OPRSI,MASK=00FF		GP10018	01380000	
				319 *360*	OPCODE 85,RDD,\$OPRSI,MASK=00FF		GP10018	01390000	
				320	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF			01400000	
0008EA	C2E7C84040400D30			321+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)			00910000	
				322	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF			01410000	
0008F2	C2E7D3C540400D30			323+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)			00910000	
				324	OPCODE 88,SRL,\$OPRS1,MASK=000F0000		GP10018	01420000	
0008FA	E2D9D34040400C21			325+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)			00910000	
000902	000F000000000			326+	DC XL6'000F000000000'			00950000	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				327	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 01430000
000908	E2D3D34040400C21			328+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000910	000F00000000			329+	DC XL6'000F00000000'	00950000
				330	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01440000
000916	E2D9C14040400C29			331+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00091E	000F00000000			332+	DC XL6'000F00000000'	00950000
				333	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01450000
000924	E2D3C14040400C29			334+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00092C	000F00000000			335+	DC XL6'000F00000000'	00950000
				336	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 01460000
000932	E2D9C4D340400C21			337+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
00093A	000F00000000			338+	DC XL6'000F00000000'	00950000
				339	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 01470000
000940	E2D3C4D340400C21			340+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000948	000F00000000			341+	DC XL6'000F00000000'	00950000
				342	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01480000
00094E	E2D9C4C140400C29			343+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000956	000F00000000			344+	DC XL6'000F00000000'	00950000
				345	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01490000
00095C	E2D3C4C140400C29			346+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000964	000F00000000			347+	DC XL6'000F00000000'	00950000
				348	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF	01500000
00096A	E2E3D44040400D30			349+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				350	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01510000
000972	E3D4404040400A32			351+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				352	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	01520000
00097A	D4E5C94040400A30			353+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				354	OPCODE 93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000	GP10018 01530000
000982	E3E2404040400939			355+MACH93	DC CL6'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00098A	00FF00000000			356+	DC XL6'00FF00000000'	00950000
				357	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01540000
000990	D5C9404040400A32			358+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				359	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	01550000
000998	C3D3C94040400A34			360+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				361	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01560000
0009A0	D6C9404040400A32			362+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				363	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01570000
0009A8	E7C9404040400A32			364+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				365	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF	01580000
0009B0	D3D4404040400D30			366+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				367	OPCODE AC,STNSM,\$OPSI,FLAGS=\$OPREF	01590000
0009B8	E2E3D5E2D4400A30			368+MACHAC	DC CL6'STNSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				369	OPCODE AD,STOSM,\$OPSI,FLAGS=\$OPREF	01600000
0009C0	E2E3D6E2D4400A30			370+MACHAD	DC CL6'STOSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				371	OPCODE AE,SIGP,\$OPRS2,FLAGS=\$OPCCA	01610000
0009C8	E2C9C7D740400D28			372+MACHAE	DC CL6'SIGP',AL1(\$OPRS2,\$OPCCA+\$OPNCMNT)	00910000
				373	OPCODE AF,MC,\$OPSI	01620000
0009D0	D4C3404040400A20			374+MACHAF	DC CL6'MC',AL1(\$OPSI,0+\$OPNCMNT)	00910000
				375	OPCODE B1,LRA,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01630000
0009D8	D3D9C14040400738			376+MACHB1	DC CL6'LRA',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				377 TABLEB2	OPCODE B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	01640000
0009E0	5CFF00FF			378+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
0009E4	0000000000000000			379+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				380	OPCODE B202,STIDP,\$OPS,FLAGS=\$OPREF	GP05204 01650000
000DE4		009EC		381+	ORG OPTBB2+4+4*X'02'	GP99137 00740000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0009EC	00000DE4			382+	DC AL4(OP2B202)	GP99137 00750000
0009F0			00DE4	383+	ORG ,	GP99137 00760000
000DE4	E2E3C9C4D7400930			384+OP2B202	DC CL6'STIDP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				385	OPCODE B204,SCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP05204 01660000
000DEC			009F4	386+	ORG OPTBB2+4+4*X'04'	GP99137 00740000
0009F4	00000DEC			387+	DC AL4(OP2B204)	GP99137 00750000
0009F8			00DEC	388+	ORG ,	GP99137 00760000
000DEC	E2C3D24040400932			389+OP2B204	DC CL6'SCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				390	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP99137 01670000
000DF4			009F8	391+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
0009F8	00000DF4			392+	DC AL4(OP2B205)	GP99137 00750000
0009FC			00DF4	393+	ORG ,	GP99137 00760000
000DF4	E2E3C3D240400932			394+OP2B205	DC CL6'SCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				395	OPCODE B206,SCKC,\$OPS,FLAGS=\$OPREF	GP05204 01680000
000DFC			009FC	396+	ORG OPTBB2+4+4*X'06'	GP99137 00740000
0009FC	00000DFC			397+	DC AL4(OP2B206)	GP99137 00750000
000A00			00DFC	398+	ORG ,	GP99137 00760000
000DFC	E2C3D2C340400930			399+OP2B206	DC CL6'SCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				400	OPCODE B207,STCKC,\$OPS,FLAGS=\$OPREF	GP05204 01690000
000E04			00A00	401+	ORG OPTBB2+4+4*X'07'	GP99137 00740000
000A00	00000E04			402+	DC AL4(OP2B207)	GP99137 00750000
000A04			00E04	403+	ORG ,	GP99137 00760000
000E04	E2E3C3D2C3400930			404+OP2B207	DC CL6'SCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				405	OPCODE B208,SPT,\$OPS,FLAGS=\$OPREF	GP05204 01700000
000E0C			00A04	406+	ORG OPTBB2+4+4*X'08'	GP99137 00740000
000A04	00000E0C			407+	DC AL4(OP2B208)	GP99137 00750000
000A08			00E0C	408+	ORG ,	GP99137 00760000
000E0C	E2D7E34040400930			409+OP2B208	DC CL6'SPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				410	OPCODE B209,STPT,\$OPS,FLAGS=\$OPREF	GP05204 01710000
000E14			00A08	411+	ORG OPTBB2+4+4*X'09'	GP99137 00740000
000A08	00000E14			412+	DC AL4(OP2B209)	GP99137 00750000
000A0C			00E14	413+	ORG ,	GP99137 00760000
000E14	E2E3D7E340400930			414+OP2B209	DC CL6'SPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				415	OPCODE B20A,SPKA,\$OPS,FLAGS=\$OPREF	GP05204 01720000
000E1C			00A0C	416+	ORG OPTBB2+4+4*X'0A'	GP99137 00740000
000A0C	00000E1C			417+	DC AL4(OP2B20A)	GP99137 00750000
000A10			00E1C	418+	ORG ,	GP99137 00760000
000E1C	E2D7D2C140400930			419+OP2B20A	DC CL6'SPKA',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				420	OPCODE B20B,IPK,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01730000
000E24			00A10	421+	ORG OPTBB2+4+4*X'0B'	GP99137 00740000
000A10	00000E24			422+	DC AL4(OP2B20B)	GP99137 00750000
000A14			00E24	423+	ORG ,	GP99137 00760000
000E24	C9D7D24040400931			424+OP2B20B	DC CL6'IPK',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E2C	0000FFFF0000			425+	DC XL6'0000FFFF0000'	00950000
				426	OPCODE B20D,PTLB,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01740000
000E32			00A18	427+	ORG OPTBB2+4+4*X'0D'	GP99137 00740000
000A18	00000E32			428+	DC AL4(OP2B20D)	GP99137 00750000
000A1C			00E32	429+	ORG ,	GP99137 00760000
000E32	D7E3D3C240400931			430+OP2B20D	DC CL6'PTLB',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E3A	0000FFFF0000			431+	DC XL6'0000FFFF0000'	00950000
				432	OPCODE B210,SPX,\$OPS,FLAGS=\$OPREF	GP05204 01750000
000E40			00A24	433+	ORG OPTBB2+4+4*X'10'	GP99137 00740000
000A24	00000E40			434+	DC AL4(OP2B210)	GP99137 00750000
000A28			00E40	435+	ORG ,	GP99137 00760000
000E40	E2D7E74040400930			436+OP2B210	DC CL6'SPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				437	OPCODE B211,STPX,\$OPS,FLAGS=\$OPREF	GP05204	01760000
000E48			00A28	438+	ORG OPTBB2+4+4*X'11'	GP99137	00740000
000A28	00000E48			439+	DC AL4(OP2B211)	GP99137	00750000
000A2C			00E48	440+	ORG ,	GP99137	00760000
000E48	E2E3D7E740400930			441+OP2B211	DC CL6'STPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				442	OPCODE B212,STAP,\$OPS,FLAGS=\$OPREF	GP05204	01770000
000E50			00A2C	443+	ORG OPTBB2+4+4*X'12'	GP99137	00740000
000A2C	00000E50			444+	DC AL4(OP2B212)	GP99137	00750000
000A30			00E50	445+	ORG ,	GP99137	00760000
000E50	E2E3C1D740400930			446+OP2B212	DC CL6'STAP',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				447	OPCODE B213,RRB,\$OPS,FLAGS=\$OPREF	GP05204	01780000
000E58			00A30	448+	ORG OPTBB2+4+4*X'13'	GP99137	00740000
000A30	00000E58			449+	DC AL4(OP2B213)	GP99137	00750000
000A34			00E58	450+	ORG ,	GP99137	00760000
000E58	D9D9C24040400930			451+OP2B213	DC CL6'RRB',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				452	OPCODE B6,STCTL,\$OPRS2,FLAGS=\$OPREF		01790000
000E60	E2E3C3E3D3400D30			453+MACHB6	DC CL6'STCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)		00910000
				454	OPCODE B7,LCTL,\$OPRS2,FLAGS=\$OPREF		01800000
000E68	D3C3E3D340400D30			455+MACHB7	DC CL6'LCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)		00910000
				456	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC		01810000
000E70	C3E2404040400D34			457+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				458	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC		01820000
000E78	C3C4E24040400D34			459+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				460	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC		01830000
000E80	C3D3D44040400E34			461+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				462	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF		01840000
000E88	E2E3C3D440400E30			463+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)		00910000
				464	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA		01850000
000E90	C9C3D44040400E38			465+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				466	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF		01860000
000E98	D4E5D54040400F30			467+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				468	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF		01870000
000EA0	D4E5C34040400F30			469+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				470	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF		01880000
000EA8	D4E5E94040400F30			471+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				472	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01890000
000EB0	D5C3404040400F32			473+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				474	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC		01900000
000EB8	C3D3C34040400F34			475+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				476	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01910000
000EC0	D6C3404040400F32			477+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				478	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01920000
000EC8	E7C3404040400F32			479+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				480	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF		01930000
000ED0	E3D9404040400F30			481+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				482	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA		01940000
000ED8	E3D9E34040400F38			483+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				484	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA		01950000
000EE0	C5C4404040400F38			485+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				486	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181	01960000
000EE8	C5C4D4D240400F38			487+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				488 *			01970000
				489 *	TO AVOID GETTING SRP EXPANSION THAT WON'T ASSEMBLE, WE CHEAT A		01980000
				490 *	BIT AND DEFINE IT AS 10 DISTINCT INSTRUCTIONS, EXCLUDING THE		01990000
				491 *	INVALID ONES (ROUND NYBBLE > 9)		02000000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM	0201	00.48	07/11/18
				492 *					02010000
				493 *CHEAT*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	GP10155	02020000		
				494 TABLEF0	OPCODE F0,X'0F',0,16,TYPE=TABLE	GP10155	02030000		
000EF0	5C0F0010			495+OPTBF0	DC C'*,AL1(X'0F',0,16)	GP05204	01040000		
000EF4	0000000000000000			496+	DC (16+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137	01050000		
				497	OPCODE F000,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02040000		
000F38		00EF4		498+	ORG OPTBF0+4+4*X'00'	GP99137	00740000		
000EF4	00000F38			499+	DC AL4(OP2F000)	GP99137	00750000		
000EF8		00F38		500+	ORG ,	GP99137	00760000		
000F38	E2D9D74040401239			501+OP2F000	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F40	00000000FF00			502+	DC XL6'00000000FF00'		00950000		
				503	OPCODE F001,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02050000		
000F46		00EF8		504+	ORG OPTBF0+4+4*X'01'	GP99137	00740000		
000EF8	00000F46			505+	DC AL4(OP2F001)	GP99137	00750000		
000EFC		00F46		506+	ORG ,	GP99137	00760000		
000F46	E2D9D74040401239			507+OP2F001	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F4E	00000000FF00			508+	DC XL6'00000000FF00'		00950000		
				509	OPCODE F002,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02060000		
000F54		00EFC		510+	ORG OPTBF0+4+4*X'02'	GP99137	00740000		
000EFC	00000F54			511+	DC AL4(OP2F002)	GP99137	00750000		
000F00		00F54		512+	ORG ,	GP99137	00760000		
000F54	E2D9D74040401239			513+OP2F002	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F5C	00000000FF00			514+	DC XL6'00000000FF00'		00950000		
				515	OPCODE F003,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02070000		
000F62		00F00		516+	ORG OPTBF0+4+4*X'03'	GP99137	00740000		
000F00	00000F62			517+	DC AL4(OP2F003)	GP99137	00750000		
000F04		00F62		518+	ORG ,	GP99137	00760000		
000F62	E2D9D74040401239			519+OP2F003	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F6A	00000000FF00			520+	DC XL6'00000000FF00'		00950000		
				521	OPCODE F004,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02080000		
000F70		00F04		522+	ORG OPTBF0+4+4*X'04'	GP99137	00740000		
000F04	00000F70			523+	DC AL4(OP2F004)	GP99137	00750000		
000F08		00F70		524+	ORG ,	GP99137	00760000		
000F70	E2D9D74040401239			525+OP2F004	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F78	00000000FF00			526+	DC XL6'00000000FF00'		00950000		
				527	OPCODE F005,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02090000		
000F7E		00F08		528+	ORG OPTBF0+4+4*X'05'	GP99137	00740000		
000F08	00000F7E			529+	DC AL4(OP2F005)	GP99137	00750000		
000F0C		00F7E		530+	ORG ,	GP99137	00760000		
000F7E	E2D9D74040401239			531+OP2F005	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F86	00000000FF00			532+	DC XL6'00000000FF00'		00950000		
				533	OPCODE F006,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02100000		
000F8C		00F0C		534+	ORG OPTBF0+4+4*X'06'	GP99137	00740000		
000F0C	00000F8C			535+	DC AL4(OP2F006)	GP99137	00750000		
000F10		00F8C		536+	ORG ,	GP99137	00760000		
000F8C	E2D9D74040401239			537+OP2F006	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000F94	00000000FF00			538+	DC XL6'00000000FF00'		00950000		
				539	OPCODE F007,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02110000		
000F9A		00F10		540+	ORG OPTBF0+4+4*X'07'	GP99137	00740000		
000F10	00000F9A			541+	DC AL4(OP2F007)	GP99137	00750000		
000F14		00F9A		542+	ORG ,	GP99137	00760000		
000F9A	E2D9D74040401239			543+OP2F007	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000		
000FA2	00000000FF00			544+	DC XL6'00000000FF00'		00950000		
				545	OPCODE F008,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02120000		
000FA8		00F14		546+	ORG OPTBF0+4+4*X'08'	GP99137	00740000		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000F14	00000FA8			547+	DC AL4(OP2F008)	GP99137 00750000
000F18			00FA8	548+	ORG ,	GP99137 00760000
000FA8	E2D9D74040401239			549+OP2F008	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FB0	00000000FF00			550+	DC XL6'00000000FF00'	00950000
				551	OPCODE F009,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 02130000
000FB6			00F18	552+	ORG OPTBF0+4+4*X'09'	GP99137 00740000
000F18	00000FB6			553+	DC AL4(OP2F009)	GP99137 00750000
000F1C			00FB6	554+	ORG ,	GP99137 00760000
000FB6	E2D9D74040401239			555+OP2F009	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FBE	00000000FF00			556+	DC XL6'00000000FF00'	00950000
				557	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	02140000
000FC4	D4E5D64040401030			558+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				559	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	02150000
000FCC	D7C1C3D240401030			560+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				561	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	02160000
000FD4	E4D5D7D240401030			562+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				563	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02170000
000FDC	E9C1D74040401038			564+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				565	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	02180000
000FE4	C3D7404040401034			566+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				567	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02190000
000FEC	C1D7404040401038			568+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				569	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02200000
000FF4	E2D7404040401038			570+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				571	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	02210000
000FFC	D4D7404040401030			572+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				573	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	02220000
001004	C4D7404040401030			574+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				575 *	-----	* 02230000
				576 *		* 02240000
				577 *	INDEX TO OP CODE TABLE	* 02250000
				578 *		* 02260000
				579 *	-----	* 02270000
00100C			00000	580	ORG DISASMOP+0	02280000
000000				581 OPINDEX	DS OA	02290000
				582	OPCODE TYPE=INDEX	02300000
000000	00000400			583+	DC A(MACH00)	01100000
000004	00000000			584+	DC A(0)	01100000
000008	00000000			585+	DC A(0)	01100000
00000C	00000000			586+	DC A(0)	01100000
000010	00000408			587+	DC A(MACH04)	01100000
000014	00000416			588+	DC A(MACH05)	01100000
000018	0000042A			589+	DC A(MACH06)	01100000
00001C	0000043E			590+	DC A(MACH07)	01100000
000020	00000446			591+	DC A(MACH08)	01100000
000024	0000044E			592+	DC A(MACH09)	01100000
000028	00000456			593+	DC A(MACH0A)	01100000
00002C	00000000			594+	DC A(0)	01100000
000030	00000000			595+	DC A(0)	01100000
000034	00000000			596+	DC A(0)	01100000
000038	0000046A			597+	DC A(MACH0E)	01100000
00003C	00000472			598+	DC A(MACH0F)	01100000
000040	0000047A			599+	DC A(MACH10)	01100000
000044	00000482			600+	DC A(MACH11)	01100000
000048	0000048A			601+	DC A(MACH12)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00004C	00000492			602+	DC	A(MACH13)	01100000
000050	0000049A			603+	DC	A(MACH14)	01100000
000054	000004A2			604+	DC	A(MACH15)	01100000
000058	000004AA			605+	DC	A(MACH16)	01100000
00005C	000004B2			606+	DC	A(MACH17)	01100000
000060	000004BA			607+	DC	A(MACH18)	01100000
000064	000004C2			608+	DC	A(MACH19)	01100000
000068	000004CA			609+	DC	A(MACH1A)	01100000
00006C	000004D2			610+	DC	A(MACH1B)	01100000
000070	000004DA			611+	DC	A(MACH1C)	01100000
000074	000004E8			612+	DC	A(MACH1D)	01100000
000078	000004F6			613+	DC	A(MACH1E)	01100000
00007C	000004FE			614+	DC	A(MACH1F)	01100000
000080	00000506			615+	DC	A(MACH20)	01100000
000084	00000514			616+	DC	A(MACH21)	01100000
000088	00000522			617+	DC	A(MACH22)	01100000
00008C	00000530			618+	DC	A(MACH23)	01100000
000090	0000053E			619+	DC	A(MACH24)	01100000
000094	0000054C			620+	DC	A(MACH25)	01100000
000098	0000055A			621+	DC	A(MACH26)	01100000
00009C	00000568			622+	DC	A(MACH27)	01100000
0000A0	00000576			623+	DC	A(MACH28)	01100000
0000A4	00000584			624+	DC	A(MACH29)	01100000
0000A8	00000592			625+	DC	A(MACH2A)	01100000
0000AC	000005A0			626+	DC	A(MACH2B)	01100000
0000B0	000005AE			627+	DC	A(MACH2C)	01100000
0000B4	000005BC			628+	DC	A(MACH2D)	01100000
0000B8	000005CA			629+	DC	A(MACH2E)	01100000
0000BC	000005D8			630+	DC	A(MACH2F)	01100000
0000C0	000005E6			631+	DC	A(MACH30)	01100000
0000C4	000005F4			632+	DC	A(MACH31)	01100000
0000C8	00000602			633+	DC	A(MACH32)	01100000
0000CC	00000610			634+	DC	A(MACH33)	01100000
0000D0	0000061E			635+	DC	A(MACH34)	01100000
0000D4	0000062C			636+	DC	A(MACH35)	01100000
0000D8	0000063A			637+	DC	A(MACH36)	01100000
0000DC	00000648			638+	DC	A(MACH37)	01100000
0000E0	00000656			639+	DC	A(MACH38)	01100000
0000E4	00000664			640+	DC	A(MACH39)	01100000
0000E8	00000672			641+	DC	A(MACH3A)	01100000
0000EC	00000680			642+	DC	A(MACH3B)	01100000
0000F0	0000068E			643+	DC	A(MACH3C)	01100000
0000F4	0000069C			644+	DC	A(MACH3D)	01100000
0000F8	000006AA			645+	DC	A(MACH3E)	01100000
0000FC	000006B8			646+	DC	A(MACH3F)	01100000
000100	000006C6			647+	DC	A(MACH40)	01100000
000104	000006CE			648+	DC	A(MACH41)	01100000
000108	000006D6			649+	DC	A(MACH42)	01100000
00010C	000006DE			650+	DC	A(MACH43)	01100000
000110	000006E6			651+	DC	A(MACH44)	01100000
000114	000006EE			652+	DC	A(MACH45)	01100000
000118	00000702			653+	DC	A(MACH46)	01100000
00011C	00000716			654+	DC	A(MACH47)	01100000
000120	0000071E			655+	DC	A(MACH48)	01100000
000124	00000726			656+	DC	A(MACH49)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000128	0000072E			657+	DC	A(MACH4A)	01100000
00012C	00000736			658+	DC	A(MACH4B)	01100000
000130	0000073E			659+	DC	A(MACH4C)	01100000
000134	00000000			660+	DC	A(0)	01100000
000138	00000746			661+	DC	A(MACH4E)	01100000
00013C	0000074E			662+	DC	A(MACH4F)	01100000
000140	00000756			663+	DC	A(MACH50)	01100000
000144	00000000			664+	DC	A(0)	01100000
000148	00000000			665+	DC	A(0)	01100000
00014C	00000000			666+	DC	A(0)	01100000
000150	0000075E			667+	DC	A(MACH54)	01100000
000154	00000766			668+	DC	A(MACH55)	01100000
000158	0000076E			669+	DC	A(MACH56)	01100000
00015C	00000776			670+	DC	A(MACH57)	01100000
000160	0000077E			671+	DC	A(MACH58)	01100000
000164	00000786			672+	DC	A(MACH59)	01100000
000168	0000078E			673+	DC	A(MACH5A)	01100000
00016C	00000796			674+	DC	A(MACH5B)	01100000
000170	0000079E			675+	DC	A(MACH5C)	01100000
000174	000007AC			676+	DC	A(MACH5D)	01100000
000178	000007BA			677+	DC	A(MACH5E)	01100000
00017C	000007C2			678+	DC	A(MACH5F)	01100000
000180	000007CA			679+	DC	A(MACH60)	01100000
000184	00000000			680+	DC	A(0)	01100000
000188	00000000			681+	DC	A(0)	01100000
00018C	00000000			682+	DC	A(0)	01100000
000190	00000000			683+	DC	A(0)	01100000
000194	00000000			684+	DC	A(0)	01100000
000198	00000000			685+	DC	A(0)	01100000
00019C	000007D8			686+	DC	A(MACH67)	01100000
0001A0	000007E6			687+	DC	A(MACH68)	01100000
0001A4	000007F4			688+	DC	A(MACH69)	01100000
0001A8	00000802			689+	DC	A(MACH6A)	01100000
0001AC	00000810			690+	DC	A(MACH6B)	01100000
0001B0	0000081E			691+	DC	A(MACH6C)	01100000
0001B4	0000082C			692+	DC	A(MACH6D)	01100000
0001B8	0000083A			693+	DC	A(MACH6E)	01100000
0001BC	00000848			694+	DC	A(MACH6F)	01100000
0001C0	00000856			695+	DC	A(MACH70)	01100000
0001C4	00000000			696+	DC	A(0)	01100000
0001C8	00000000			697+	DC	A(0)	01100000
0001CC	00000000			698+	DC	A(0)	01100000
0001D0	00000000			699+	DC	A(0)	01100000
0001D4	00000000			700+	DC	A(0)	01100000
0001D8	00000000			701+	DC	A(0)	01100000
0001DC	00000000			702+	DC	A(0)	01100000
0001E0	00000864			703+	DC	A(MACH78)	01100000
0001E4	00000872			704+	DC	A(MACH79)	01100000
0001E8	00000880			705+	DC	A(MACH7A)	01100000
0001EC	0000088E			706+	DC	A(MACH7B)	01100000
0001F0	0000089C			707+	DC	A(MACH7C)	01100000
0001F4	000008AA			708+	DC	A(MACH7D)	01100000
0001F8	000008B8			709+	DC	A(MACH7E)	01100000
0001FC	000008C6			710+	DC	A(MACH7F)	01100000
000200	00000000			711+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000204	00000000			712+	DC	A(0)	01100000
000208	000008D4			713+	DC	A(MACH82)	01100000
00020C	000008E2			714+	DC	A(MACH83)	01100000
000210	00000000			715+	DC	A(0)	01100000
000214	00000000			716+	DC	A(0)	01100000
000218	000008EA			717+	DC	A(MACH86)	01100000
00021C	000008F2			718+	DC	A(MACH87)	01100000
000220	000008FA			719+	DC	A(MACH88)	01100000
000224	00000908			720+	DC	A(MACH89)	01100000
000228	00000916			721+	DC	A(MACH8A)	01100000
00022C	00000924			722+	DC	A(MACH8B)	01100000
000230	00000932			723+	DC	A(MACH8C)	01100000
000234	00000940			724+	DC	A(MACH8D)	01100000
000238	0000094E			725+	DC	A(MACH8E)	01100000
00023C	0000095C			726+	DC	A(MACH8F)	01100000
000240	0000096A			727+	DC	A(MACH90)	01100000
000244	00000972			728+	DC	A(MACH91)	01100000
000248	0000097A			729+	DC	A(MACH92)	01100000
00024C	00000982			730+	DC	A(MACH93)	01100000
000250	00000990			731+	DC	A(MACH94)	01100000
000254	00000998			732+	DC	A(MACH95)	01100000
000258	000009A0			733+	DC	A(MACH96)	01100000
00025C	000009A8			734+	DC	A(MACH97)	01100000
000260	000009B0			735+	DC	A(MACH98)	01100000
000264	00000000			736+	DC	A(0)	01100000
000268	00000000			737+	DC	A(0)	01100000
00026C	00000000			738+	DC	A(0)	01100000
000270	00000000			739+	DC	A(0)	01100000
000274	00000000			740+	DC	A(0)	01100000
000278	00000000			741+	DC	A(0)	01100000
00027C	00000000			742+	DC	A(0)	01100000
000280	00000000			743+	DC	A(0)	01100000
000284	00000000			744+	DC	A(0)	01100000
000288	00000000			745+	DC	A(0)	01100000
00028C	00000000			746+	DC	A(0)	01100000
000290	00000000			747+	DC	A(0)	01100000
000294	00000000			748+	DC	A(0)	01100000
000298	00000000			749+	DC	A(0)	01100000
00029C	00000000			750+	DC	A(0)	01100000
0002A0	00000000			751+	DC	A(0)	01100000
0002A4	00000000			752+	DC	A(0)	01100000
0002A8	00000000			753+	DC	A(0)	01100000
0002AC	00000000			754+	DC	A(0)	01100000
0002B0	000009B8			755+	DC	A(MACHAC)	01100000
0002B4	000009C0			756+	DC	A(MACHAD)	01100000
0002B8	000009C8			757+	DC	A(MACHAE)	01100000
0002BC	000009D0			758+	DC	A(MACHAF)	01100000
0002C0	00000000			759+	DC	A(0)	01100000
0002C4	000009D8			760+	DC	A(MACHB1)	01100000
0002C8	800009E0			761+	DC	A(X'80000000'+OPTBB2)	01100000
0002CC	00000000			762+	DC	A(0)	01100000
0002D0	00000000			763+	DC	A(0)	01100000
0002D4	00000000			764+	DC	A(0)	01100000
0002D8	00000E60			765+	DC	A(MACHB6)	01100000
0002DC	00000E68			766+	DC	A(MACHB7)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002E0	00000000			767+	DC	A(0)	01100000
0002E4	00000000			768+	DC	A(0)	01100000
0002E8	00000E70			769+	DC	A(MACHBA)	01100000
0002EC	00000E78			770+	DC	A(MACHBB)	01100000
0002F0	00000000			771+	DC	A(0)	01100000
0002F4	00000E80			772+	DC	A(MACHBD)	01100000
0002F8	00000E88			773+	DC	A(MACHBE)	01100000
0002FC	00000E90			774+	DC	A(MACHBF)	01100000
000300	00000000			775+	DC	A(0)	01100000
000304	00000000			776+	DC	A(0)	01100000
000308	00000000			777+	DC	A(0)	01100000
00030C	00000000			778+	DC	A(0)	01100000
000310	00000000			779+	DC	A(0)	01100000
000314	00000000			780+	DC	A(0)	01100000
000318	00000000			781+	DC	A(0)	01100000
00031C	00000000			782+	DC	A(0)	01100000
000320	00000000			783+	DC	A(0)	01100000
000324	00000000			784+	DC	A(0)	01100000
000328	00000000			785+	DC	A(0)	01100000
00032C	00000000			786+	DC	A(0)	01100000
000330	00000000			787+	DC	A(0)	01100000
000334	00000000			788+	DC	A(0)	01100000
000338	00000000			789+	DC	A(0)	01100000
00033C	00000000			790+	DC	A(0)	01100000
000340	00000000			791+	DC	A(0)	01100000
000344	00000E98			792+	DC	A(MACHD1)	01100000
000348	00000EA0			793+	DC	A(MACHD2)	01100000
00034C	00000EA8			794+	DC	A(MACHD3)	01100000
000350	00000EB0			795+	DC	A(MACHD4)	01100000
000354	00000EB8			796+	DC	A(MACHD5)	01100000
000358	00000EC0			797+	DC	A(MACHD6)	01100000
00035C	00000EC8			798+	DC	A(MACHD7)	01100000
000360	00000000			799+	DC	A(0)	01100000
000364	00000000			800+	DC	A(0)	01100000
000368	00000000			801+	DC	A(0)	01100000
00036C	00000000			802+	DC	A(0)	01100000
000370	00000ED0			803+	DC	A(MACHDC)	01100000
000374	00000ED8			804+	DC	A(MACHDD)	01100000
000378	00000EE0			805+	DC	A(MACHDE)	01100000
00037C	00000EE8			806+	DC	A(MACHDF)	01100000
000380	00000000			807+	DC	A(0)	01100000
000384	00000000			808+	DC	A(0)	01100000
000388	00000000			809+	DC	A(0)	01100000
00038C	00000000			810+	DC	A(0)	01100000
000390	00000000			811+	DC	A(0)	01100000
000394	00000000			812+	DC	A(0)	01100000
000398	00000000			813+	DC	A(0)	01100000
00039C	00000000			814+	DC	A(0)	01100000
0003A0	00000000			815+	DC	A(0)	01100000
0003A4	00000000			816+	DC	A(0)	01100000
0003A8	00000000			817+	DC	A(0)	01100000
0003AC	00000000			818+	DC	A(0)	01100000
0003B0	00000000			819+	DC	A(0)	01100000
0003B4	00000000			820+	DC	A(0)	01100000
0003B8	00000000			821+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003BC	00000000			822+	DC	A(0)	01100000
0003C0	80000EF0			823+	DC	A(X'80000000'+OPTBF0)	01100000
0003C4	00000FC4			824+	DC	A(MACHF1)	01100000
0003C8	00000FCC			825+	DC	A(MACHF2)	01100000
0003CC	00000FD4			826+	DC	A(MACHF3)	01100000
0003D0	00000000			827+	DC	A(0)	01100000
0003D4	00000000			828+	DC	A(0)	01100000
0003D8	00000000			829+	DC	A(0)	01100000
0003DC	00000000			830+	DC	A(0)	01100000
0003E0	00000FDC			831+	DC	A(MACHF8)	01100000
0003E4	00000FE4			832+	DC	A(MACHF9)	01100000
0003E8	00000FEC			833+	DC	A(MACHFA)	01100000
0003EC	00000FF4			834+	DC	A(MACHFB)	01100000
0003F0	00000FFC			835+	DC	A(MACHFC)	01100000
0003F4	00001004			836+	DC	A(MACHFD)	01100000
0003F8	00000000			837+	DC	A(0)	01100000
0003FC	00000000			838+	DC	A(0)	01100000
				839	COPY	DISASMDA	02310000
				840	AIF	('&DAPRT' EQ 'ON').DA010	00010000
				841	PRINT	OFF	00020000
				1052	PRINT	ON	02130000
				1053	.DA020	ANOP	02140000
				1054	*-----*		02320000
				1055	*		* 02330000
				1056	*	COMMON DATA MAP	* 02340000
				1057	*		* 02350000
				1058	*-----*		* 02360000
				1059	DISASM00	DISASMCM TYPE=DSECT GP99137	02370000
				1060+	PRINT	OFF	00280000
				1691+	PRINT	ON	06440000
				1692+	*-----*		* 06460000
				1693+	*		* 06470000
				1694+	*	ABEND REASON CODES	* 06480000
				1695+	*		* 06490000
				1696+	*-----*		* 06500000
		00001	1697+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
		00002	1698+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
		00003	1699+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
		00004	1700+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
		00005	1701+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000	1704+R0	EQU	0		00070000
		00001	1705+R1	EQU	1		00080000
		00002	1706+R2	EQU	2		00090000
		00003	1707+R3	EQU	3		00100000
		00004	1708+R4	EQU	4		00110000
		00005	1709+R5	EQU	5		00120000
		00006	1710+R6	EQU	6		00130000
		00007	1711+R7	EQU	7		00140000
		00008	1712+R8	EQU	8		00150000
		00009	1713+R9	EQU	9		00160000
		0000A	1714+R10	EQU	10		00170000
		0000B	1715+R11	EQU	11		00180000
		0000C	1716+R12	EQU	12		00190000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
			0000D	1717+R13	EQU	13				00200000
			0000E	1718+R14	EQU	14				00210000
			0000F	1719+R15	EQU	15				00220000
000000				1721	END	DISASMOP				02380000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000010	
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0001	0001	OC	000074	
0001	0001	OC	000078	
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0001	0001	OC	000084	
0001	0001	OC	000088	
0001	0001	OC	00008C	
0001	0001	OC	000090	
0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
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0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
0001	0001	OC	0000BC	
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0001	0001	OC	0000C4	
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0001	0001	OC	0000D0	
0001	0001	OC	0000D4	
0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	
0001	0001	OC	0000EC	
0001	0001	OC	0000F0	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
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0001	0001	OC	0001A8	
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POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000224	
0001	0001	OC	000228	
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0001	0001	OC	000230	
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0001	0001	OC	000238	
0001	0001	OC	00023C	
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0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
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0001	0001	OC	00034C	
0001	0001	OC	000350	
0001	0001	OC	000354	
0001	0001	OC	000358	
0001	0001	OC	00035C	
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0001	0001	OC	0003E8	
0001	0001	OC	0003EC	
0001	0001	OC	0003F0	
0001	0001	OC	0003F4	
0001	0001	OC	0009EC	
0001	0001	OC	0009F4	
0001	0001	OC	0009F8	
0001	0001	OC	0009FC	
0001	0001	OC	000A00	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000A04	
0001	0001	OC	000A08	
0001	0001	OC	000A0C	
0001	0001	OC	000A10	
0001	0001	OC	000A18	
0001	0001	OC	000A24	
0001	0001	OC	000A28	
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0001	0001	OC	000EF8	
0001	0001	OC	000EFC	
0001	0001	OC	000F00	
0001	0001	OC	000F04	
0001	0001	OC	000F08	
0001	0001	OC	000F0C	
0001	0001	OC	000F10	
0001	0001	OC	000F14	
0001	0001	OC	000F18	

OP370				CROSS-REFERENCE														PAGE 23	
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18	
\$OPCCA	00001	00000008	01683	00060	00062	00064	00066	00068	00070	00084	00086	00094	00096	00098	00101	00104	00107	00128	
				00131	00140	00143	00146	00149	00152	00155	00164	00167	00173	00176	00179	00188	00191	00216	
				00218	00241	00243	00251	00253	00267	00270	00282	00294	00297	00306	00309	00331	00334	00343	
				00346	00355	00372	00376	00465	00483	00485	00487	00501	00507	00513	00519	00525	00531	00537	
				00543	00549	00555	00564	00568	00570										
\$OPCCC	00001	00000004	01684	00074	00082	00125	00214	00231	00239	00264	00291	00360	00457	00459	00461	00475	00566		
\$OPCCL	00001	00000002	01685	00072	00076	00078	00229	00233	00235	00351	00358	00362	00364	00389	00394	00473	00477	00479	
\$OPEXT	00001	00000080	01679	00050	00210														
\$OPMASK	00001	00000001	01686	00041	00088	00091	00098	00101	00104	00107	00110	00113	00116	00119	00122	00125	00128	00131	
				00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	00173	00176	
				00179	00182	00185	00188	00191	00245	00248	00255	00258	00261	00264	00267	00270	00273	00276	
				00279	00282	00285	00288	00291	00294	00297	00300	00303	00306	00309	00314	00325	00328	00331	
				00334	00337	00340	00343	00346	00355	00424	00430	00501	00507	00513	00519	00525	00531	00537	
\$OPNCMNT	00001	00000020	01681	00543	00549	00555	01342												
				00039	00041	00050	00052	00054	00060	00062	00064	00066	00068	00070	00072	00074	00076	00078	
				00080	00082	00084	00086	00088	00091	00094	00096	00098	00101	00104	00107	00110	00113	00116	
				00119	00122	00125	00128	00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	
				00164	00167	00170	00173	00176	00179	00182	00185	00188	00191	00194	00196	00198	00200	00202	
				00210	00212	00214	00216	00218	00220	00223	00225	00227	00229	00231	00233	00235	00237	00239	
				00241	00243	00245	00248	00251	00253	00255	00258	00261	00264	00267	00270	00273	00276	00279	
				00282	00285	00288	00291	00294	00297	00300	00303	00306	00309	00314	00317	00321	00323	00325	
				00328	00331	00334	00337	00340	00343	00346	00349	00351	00353	00355	00358	00360	00362	00364	
				00366	00368	00370	00372	00374	00376	00384	00389	00394	00399	00404	00409	00414	00419	00424	
				00430	00436	00441	00446	00451	00453	00455	00457	00459	00461	00463	00465	00467	00469	00471	
				00473	00475	00477	00479	00481	00483	00485	00487	00501	00507	00513	00519	00525	00531	00537	
				00543	00549	00555	00558	00560	00562	00564	00566	00568	00570	00572	00574				
				00194	00196	00198	00200	00202	00204	00207	00210	00212	00214	00216	00218	00220	00223	00225	
				00227	00229	00231	00233	00235	00237	00239	00241	00243	00245	00248	00251	00253	00255	00258	
\$OPREF	00001	00000010	01682	00261	00264	00267	00270	00273	00276	00279	00282	00285	00288	00291	00294	00297	00300	00303	
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				00370	00376	00384	00389	00394	00399	00404	00409	00414	00419	00424	00430	00436	00441	00446	
				00451	00453	00455	00457	00459	00461	00463	00465	00467	00469	00471	00473	00475	00477	00479	
				00481	00483	00485	00487	00501	00507	00513	00519	00525	00531	00537	00543	00549	00555	00558	
\$OPRR1	00001	00000001	01656	00560	00562	00564	00566	00568	00570	00572	00574								
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				00082	00084	00086	00088	00091	00094	00096	00098	00101	00104	00107	00110	00113	00116	00119	
				00122	00125	00128	00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	
				00167	00170	00173	00176	00179	00182	00185	00188	00191							
\$OPRR2	00001	00000002	01657	00056															
\$OPRR3	00001	00000003	01658	00050															
\$OPRR4	00001	00000004	01659	00041															
\$OPRSI	00001	0000000B	01667	00317															
\$OPRS1	00001	0000000C	01668	00325	00328	00331	00334	00337	00340	00343	00346								
\$OPRS2	00001	0000000D	01669	00321	00323	00349	00366	00372	00453	00455	00457	00459							
\$OPRS3	00001	0000000E	01670	00461	00463	00465													
\$OPRX	00001	00000007	01662	00194	00196	00198	00200	00202	00204	00207	00210	00212	00214	00216	00218	00220	00223	00225	
				00227	00229	00231	00233	00235	00237	00239	00241	00243	00245	00248	00251	00253	00255	00258	
				00261	00264	00267	00270	00273	00276	00279	00282	00285	00288	00291	00294	00297	00300	00303	
				00306	00309	00376													
				00314	00355	00384	00389	00394	00399	00404	00409	00414	00419	00424	00430	00436	00441	00446	
\$OPS	00001	00000009	01664	00451															
\$OPSI	00001	0000000A	01665	00351	00353	00358	00360	00362	00364	00368	00370	00374							
\$OPSS1	00001	0000000F	01671	00467	00469	00471	00473	00475	00477	00479	00481	00483	00485	00487					
\$OPSS2	00001	00000010	01672	00558	00560	00562	00564	00566	00568	00570	00572	00574							
\$OPSS4	00001	00000012	01674	00501	00507	00513	00519	00525	00531	00537	00543	00549	00555						

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18												
\$OP SVC	00001	00000040	01680	00056													
\$P F T R C	00001	00000001	01194	01429	01431												
\$P R T P R T	00001	000000D7	01553	01539	01560												
\$P R T S U B H	00001	000000E2	01552	01435													
A O P	00004	000000AC	01100	01323													
A P R	00004	000000B8	01102	01542													
A P U	00004	000000BC	01103	01563													
B A S E D S C T	00001	00000000	00859	00867													
B L K T R T	00001	00000A68	01600	01601	01603	01605	01607	01609	01611	01613	01615	01617	01619	01621	01623	01625	
C O M M C L R	00004	000000F8	01129	01149	01153												
C O M M D W R D	00008	00000000	01067	01454	01455												
C O M M F I L L	00001	00000161	01170	01499													
C O M M H X C H	00016	00000275	01219	01220													
C O M M H X T R	00016	00000185	01220	01446	01449	01452	01456										
C O M M N P R T	00001	000003C7	01275	01276	01278	01280	01282	01284	01286	01288	01290	01292	01294	01296	01298	01300	
C O M M P O O L	00001	00000162	01171	01491	01506												
C O M M P R T	00001	000002C7	01246	01247	01249	01251	01253	01255	01257	01259	01261	01263	01265	01267	01269		
C O M M S U B H	00133	0000016D	01214	01432													
C O M M S U B L	00002	00000154	01164	01433	01433	01434											
D A T A D S C T	00001	00000000	00874	00895													
D I S A S M O P	00001	00000000	00033	00034	00580	01721											
D I S A S M 00	00001	00000000	01061	01074	01313	01390	01427	01488	01524								
D S C T D S C T	00001	00000000	00902	00908													
E S D D A T A	00001	00000000	00915	00938													
E S D N A M E	00008	0000000E	00919	00934													
E X G E T O P C	00006	00000554	01354	01347													
G E T O P E X T	00004	00000546	01350	01343													
G E T O P L E N	00001	0000055A	01355	01321													
G E T O P N O T	00004	0000054E	01352	01326	01336	01341	01349										
G E T O P T M K	00004	00000526	01342	01327													
G E T O P W R K	00006	0000055E	01356	01346	01346	01348	01354										
H E X T R T	00001	00000868	01582	01583	01585	01587	01589	01591									
I N T T R T	00001	00000968	01593	01594	01596	01598											
L A B L D S C T	00001	00000000	00945	00961													
M A C H A C	00006	000009B8	00368	00755													
M A C H A D	00006	000009C0	00370	00756													
M A C H A E	00006	000009C8	00372	00757													
M A C H A F	00006	000009D0	00374	00758													
M A C H B A	00006	00000E70	00457	00769													
M A C H B B	00006	00000E78	00459	00770													
M A C H B D	00006	00000E80	00461	00772													
M A C H B E	00006	00000E88	00463	00773													
M A C H B F	00006	00000E90	00465	00774													
M A C H B 1	00006	000009D8	00376	00760													
M A C H B 6	00006	00000E60	00453	00765													
M A C H B 7	00006	00000E68	00455	00766													
M A C H D C	00006	00000ED0	00481	00803													
M A C H D D	00006	00000ED8	00483	00804													
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M A C H D F	00006	00000EE8	00487	00806													
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M A C H D 2	00006	00000EA0	00469	00793													
M A C H D 3	00006	00000EA8	00471	00794													
M A C H D 4	00006	00000EB0	00473	00795													
M A C H D 5	00006	00000EB8	00475	00796													

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACHD6	00006	00000EC0	00477	00797	
MACHD7	00006	00000EC8	00479	00798	
MACHFA	00006	00000FEC	00568	00833	
MACHFB	00006	00000FF4	00570	00834	
MACHFC	00006	00000FFC	00572	00835	
MACHFD	00006	00001004	00574	00836	
MACHF1	00006	00000FC4	00558	00824	
MACHF2	00006	00000FCC	00560	00825	
MACHF3	00006	00000FD4	00562	00826	
MACHF8	00006	00000FDC	00564	00831	
MACHF9	00006	00000FE4	00566	00832	
MACH0A	00006	00000456	00056	00593	
MACH0E	00006	0000046A	00060	00597	
MACH0F	00006	00000472	00062	00598	
MACH00	00006	00000400	00039	00583	
MACH04	00006	00000408	00041	00587	
MACH05	00006	00000416	00044	00588	
MACH06	00006	0000042A	00047	00589	
MACH07	00006	0000043E	00050	00590	
MACH08	00006	00000446	00052	00591	
MACH09	00006	0000044E	00054	00592	
MACH1A	00006	000004CA	00084	00609	
MACH1B	00006	000004D2	00086	00610	
MACH1C	00006	000004DA	00088	00611	
MACH1D	00006	000004E8	00091	00612	
MACH1E	00006	000004F6	00094	00613	
MACH1F	00006	000004FE	00096	00614	
MACH10	00006	0000047A	00064	00599	
MACH11	00006	00000482	00066	00600	
MACH12	00006	0000048A	00068	00601	
MACH13	00006	00000492	00070	00602	
MACH14	00006	0000049A	00072	00603	
MACH15	00006	000004A2	00074	00604	
MACH16	00006	000004AA	00076	00605	
MACH17	00006	000004B2	00078	00606	
MACH18	00006	000004BA	00080	00607	
MACH19	00006	000004C2	00082	00608	
MACH2A	00006	00000592	00128	00625	
MACH2B	00006	000005A0	00131	00626	
MACH2C	00006	000005AE	00134	00627	
MACH2D	00006	000005BC	00137	00628	
MACH2E	00006	000005CA	00140	00629	
MACH2F	00006	000005D8	00143	00630	
MACH20	00006	00000506	00098	00615	
MACH21	00006	00000514	00101	00616	
MACH22	00006	00000522	00104	00617	
MACH23	00006	00000530	00107	00618	
MACH24	00006	0000053E	00110	00619	
MACH25	00006	0000054C	00113	00620	
MACH26	00006	0000055A	00116	00621	
MACH27	00006	00000568	00119	00622	
MACH28	00006	00000576	00122	00623	
MACH29	00006	00000584	00125	00624	
MACH3A	00006	00000672	00176	00641	
MACH3B	00006	00000680	00179	00642	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH3C	00006	0000068E	00182	00643	
MACH3D	00006	0000069C	00185	00644	
MACH3E	00006	000006AA	00188	00645	
MACH3F	00006	000006B8	00191	00646	
MACH30	00006	000005E6	00146	00631	
MACH31	00006	000005F4	00149	00632	
MACH32	00006	00000602	00152	00633	
MACH33	00006	00000610	00155	00634	
MACH34	00006	0000061E	00158	00635	
MACH35	00006	0000062C	00161	00636	
MACH36	00006	0000063A	00164	00637	
MACH37	00006	00000648	00167	00638	
MACH38	00006	00000656	00170	00639	
MACH39	00006	00000664	00173	00640	
MACH4A	00006	0000072E	00216	00657	
MACH4B	00006	00000736	00218	00658	
MACH4C	00006	0000073E	00220	00659	
MACH4E	00006	00000746	00223	00661	
MACH4F	00006	0000074E	00225	00662	
MACH40	00006	000006C6	00194	00647	
MACH41	00006	000006CE	00196	00648	
MACH42	00006	000006D6	00198	00649	
MACH43	00006	000006DE	00200	00650	
MACH44	00006	000006E6	00202	00651	
MACH45	00006	000006EE	00204	00652	
MACH46	00006	00000702	00207	00653	
MACH47	00006	00000716	00210	00654	
MACH48	00006	0000071E	00212	00655	
MACH49	00006	00000726	00214	00656	
MACH5A	00006	0000078E	00241	00673	
MACH5B	00006	00000796	00243	00674	
MACH5C	00006	0000079E	00245	00675	
MACH5D	00006	000007AC	00248	00676	
MACH5E	00006	000007BA	00251	00677	
MACH5F	00006	000007C2	00253	00678	
MACH50	00006	00000756	00227	00663	
MACH54	00006	0000075E	00229	00667	
MACH55	00006	00000766	00231	00668	
MACH56	00006	0000076E	00233	00669	
MACH57	00006	00000776	00235	00670	
MACH58	00006	0000077E	00237	00671	
MACH59	00006	00000786	00239	00672	
MACH6A	00006	00000802	00267	00689	
MACH6B	00006	00000810	00270	00690	
MACH6C	00006	0000081E	00273	00691	
MACH6D	00006	0000082C	00276	00692	
MACH6E	00006	0000083A	00279	00693	
MACH6F	00006	00000848	00282	00694	
MACH60	00006	000007CA	00255	00679	
MACH67	00006	000007D8	00258	00686	
MACH68	00006	000007E6	00261	00687	
MACH69	00006	000007F4	00264	00688	
MACH7A	00006	00000880	00294	00705	
MACH7B	00006	0000088E	00297	00706	
MACH7C	00006	0000089C	00300	00707	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH7D	00006	000008AA	00303	00708	
MACH7E	00006	000008B8	00306	00709	
MACH7F	00006	000008C6	00309	00710	
MACH70	00006	00000856	00285	00695	
MACH78	00006	00000864	00288	00703	
MACH79	00006	00000872	00291	00704	
MACH8A	00006	00000916	00331	00721	
MACH8B	00006	00000924	00334	00722	
MACH8C	00006	00000932	00337	00723	
MACH8D	00006	00000940	00340	00724	
MACH8E	00006	0000094E	00343	00725	
MACH8F	00006	0000095C	00346	00726	
MACH82	00006	000008D4	00314	00713	
MACH83	00006	000008E2	00317	00714	
MACH86	00006	000008EA	00321	00717	
MACH87	00006	000008F2	00323	00718	
MACH88	00006	000008FA	00325	00719	
MACH89	00006	00000908	00328	00720	
MACH90	00006	0000096A	00349	00727	
MACH91	00006	00000972	00351	00728	
MACH92	00006	0000097A	00353	00729	
MACH93	00006	00000982	00355	00730	
MACH94	00006	00000990	00358	00731	
MACH95	00006	00000998	00360	00732	
MACH96	00006	000009A0	00362	00733	
MACH97	00006	000009A8	00364	00734	
MACH98	00006	000009B0	00366	00735	
MAINRSV	00004	00000858	01580	01489 01495 01497 01501 01504 01510	
NBLTRT	00001	00000B68	01627	01628 01630	
OPDSECT	00001	00000000	01649	01324 01687	
OPFLAGS	00001	00000007	01678	01342	
OPFLAG1	00001	00000001	01651	01331	
OPFLAG2	00001	00000002	01652	01333	
OPFLAG3	00001	00000003	01653	01335	
OPMASK	00006	00000008	01688	01348	
OPMNEM	00006	00000000	01650	01651 01652 01653	
OPTBB2	00001	000009E0	00378	00381 00386 00391 00396 00401 00406 00411 00416 00421 00427 00433 00438 00443 00448 00761	
OPTBF0	00001	00000EF0	00495	00498 00504 00510 00516 00522 00528 00534 00540 00546 00552 00823	
OP2B20A	00006	00000E1C	00419	00417	
OP2B20B	00006	00000E24	00424	00422	
OP2B20D	00006	00000E32	00430	00428	
OP2B202	00006	00000DE4	00384	00382	
OP2B204	00006	00000DEC	00389	00387	
OP2B205	00006	00000DF4	00394	00392	
OP2B206	00006	00000DFC	00399	00397	
OP2B207	00006	00000E04	00404	00402	
OP2B208	00006	00000E0C	00409	00407	
OP2B209	00006	00000E14	00414	00412	
OP2B210	00006	00000E40	00436	00434	
OP2B211	00006	00000E48	00441	00439	
OP2B212	00006	00000E50	00446	00444	
OP2B213	00006	00000E58	00451	00449	
OP2F000	00006	00000F38	00501	00499	
OP2F001	00006	00000F46	00507	00505	
OP2F002	00006	00000F54	00513	00511	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
OP2F003	00006	00000F62	00519	00517															
OP2F004	00006	00000F70	00525	00523															
OP2F005	00006	00000F7E	00531	00529															
OP2F006	00006	00000F8C	00537	00535															
OP2F007	00006	00000F9A	00543	00541															
OP2F008	00006	00000FA8	00549	00547															
OP2F009	00006	00000FB6	00555	00553															
PRINTDAT	00004	000006F0	01540	01436															
PRINTFG1	00001	00000165	01187	01429	01431														
PRINTMVR	00006	000006E6	01537	01534															
PRINTREC	00004	000006EC	01539	01458	01536														
PRINTREX	00004	000006FE	01544	01528															
PRINTRSV	00004	00000848	01579	01525	01535	01540	01544	01561	01565										
PRTBLOK	00001	0000070E	01549	01541															
PRTCC	00001	0000070F	01556	01545															
PRTCMD	00001	0000070E	01550	01435	01539	01560													
PRTDATA	00132	00000710	01557	01443	01444	01445	01446	01447	01448	01449	01450	01451	01452	01453	01455	01456	01457	01529	
				01537	01546	01546													
PUNBLOK	00001	000007B2	01568	01562															
PUNDATA	00080	000007B4	01574	01559															
REFDSCT	00001	00000000	00968	00978															
RLDDATA	00001	00000000	00985	01003															
R0	00001	00000000	01704	01314	01320	01320	01321	01344	01392	01411	01428	01467	01491	01496	01500	01506	01529	01530	
				01532	01535														
R1	00001	00000001	01705	01316	01330	01350	01352	01354	01391	01393	01397	01397	01398	01400	01402	01489	01495	01496	
				01497	01501	01525	01527	01537	01540	01541	01544	01559	01561	01562	01565				
R11	00001	0000000B	01715	01313	01390	01427	01488	01524											
R12	00001	0000000C	01716	01404															
R14	00001	0000000E	01718	01317	01318	01319	01321	01328	01328	01330	01332	01334	01335	01337	01337	01338	01339	01350	
				01351	01353	01405	01412	01436	01458	01468	01489	01500	01501	01502	01504	01510	01511	01525	
				01535	01540	01543	01544	01547	01561	01564	01565	01566							
R15	00001	0000000F	01719	01314	01315	01315	01316	01318	01322	01323	01324	01325	01325	01339	01340	01340	01352	01392	
				01411	01428	01467	01498	01498	01499	01504	01510	01526	01526	01527	01530	01532	01533	01534	
				01542	01543	01563	01564												
R2	00001	00000002	01706	01329	01329	01331	01332	01333	01334										
R4	00001	00000004	01708	01344	01345	01347													
R5	00001	00000005	01709	01437	01440	01460	01460	01461	01463	01465									
SYMDATA	00001	00000000	01010	01015															
TPODA1A	00008	00000017	01472	01445	01445	01446	01446	01447	01447										
TPODA1B	00008	00000020	01473	01448	01448	01449	01449	01450	01450										
TPODA2A	00008	0000002A	01474	01451	01451	01452	01452	01453	01453										
TPODA2B	00008	00000033	01475	01455	01455	01456	01456	01457	01457										
TPOMOD	00008	00000003	01470	01443	01443														
TPOTID	00008	0000000D	01471	01444	01444														
TRACEPEN	00004	00000662	01467	01430	01439	01462													
TRACEPIN	00004	00000646	01460	01438	01442														
TRACEPPR	00004	000005E2	01441	01464	01466														
TRACESHD	00027	00000668	01476	01432	01432	01433													
TRACE010	00002	00000580	01401	01399															
TRACE020	00002	000005A8	01410	01394															
TRCESAVE	00004	00000808	01578	01314	01350	01352	01392	01411	01428	01467									
TRCURR	00004	000000D4	01115	01393	01402	01437	01461												
TRDATA1	00008	000000E0	01118	01406	01408	01408													
TRDATA2	00008	000000E8	01119	01407	01409	01409													
TREDATA1	00008	00000010	01640	01406	01445	01448													

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TREDATA2	00008	00000018	01641	01407 01451 01454	
TREID	00008	00000008	01639	01405 01444	
TREMOD	00008	00000000	01638	01404 01441 01443	
TRETRY	00001	00000000	01637	01391 01440 01459 01459 01642	
TRETRYL	00001	00000020	01642	01397 01459 01460	
TRLAST	00004	000000CC	01113	01398 01463	
TR1ST	00004	000000C4	01111	01400 01465	
USNGD SCT	00001	00000000	01022	01036	
VERPSECT	00001	00000000	01043	01049	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 238

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 134

TOTAL RECORDS PRINTED 1481

ASM 0201 00.48 07/11/18

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DISASMPR SD 0001 000000 0005F8
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASMPR - PRINTING MODULE	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	DISASM WAS WRITTEN IN MULTIPLE CSECTS TO KEEP ANY ONE MODULE FROM	00070000
				8 *	BEING EXCESSIVELY LARGE AND AVOID SOME BASE REGISTER CONCERNS DUE	00080000
				9 *	TO SIZE, AND TO FUNCTIONALLY DIVIDE UP THE OVER-ALL LOGIC. SINCE	00090000
				10 *	PRINTING WAS TO BE NECESSARY FROM MANY MODULES, IT SEEMED BEST TO	00100000
				11 *	HAVE A SEPARATE PRINT MODULE. ALL PRINTING EXCEPT DISDEBUG IS	00110000
				12 *	DONE HERE.	00120000
				13 *		00130000
				14 *	THE INTERFACE BLOCK IS PRTBLOK (HERE REFERENCED AS PRMBLOK)	00140000
				15 *		00150000
				16 *	NOTE: ALL ITRACE STATEMENTS REMOVED TO PREVENT ABEND. THIS PRINT	00160000
				17 *	ROUTINE IS CALLED BY DISASM01 TO PRINT THE TRACE TABLE.	00170000
				18 *		00180000
				19 *	-----*	00190000
				20	COPY DISASMGB	00200000
				21 *	-----*	00010000
				22 *		00020000
				23 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				24 *		00040000
				25 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				26 *		00060000
				27 *	-----*	00070000
				28	GBLA &TRNBRG,&MAXL,&MINL	00080000
				29	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				30	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				31	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
				32	LCLC &DAY,&DAM,&DAD DATE COMPONENTS GP10058	00210000
				33 DISASMPR	MODHEAD , ENTRY HOUSEKEEPING GP99140	00220000
000000				34+DISASMPR	START 0	00070000
000000	47F0 F064	00064		35+	B MODENT-DISASMPR(,R15) BRANCH AROUND	00100000
000004	17			36+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4D7D9			37+MODHEAD	DC C'DISASMPR 07/11/18 00.48'	00120000
00001C	0000000000000000			38+MODSAVE	DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		39+MODENT	STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			40+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
		00000		41+	USING DISASMPR,R12	00330000
		00000		42+	USING DISASM00,R11	00360000
00006A	41E0 C01C	0001C		43+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008	00008		44+	ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0 E004	00004		45+	ST R13,4(,R14) CHAIN UP	00390000
000076	18DE			46+	LR R13,R14 NEW SAVE AREA	00400000
000078	18A1			47	LR R10,R1 COPY PARM BLOCK ADDRESS	00230000
		00000		48	USING PRMBLOK,R10 DEFINE PARAMETER BLOCK BASE	00240000
00007A	95C3 A000	00000		49	CLI PRMCMD,\$PRMCLS CLOSE FILES? GP99138	00250000
00007E	4780 C21C	0021C		50	BE PRT0300 YES	00260000
000082	9110 C4A8	004A8		51	TM DCBOFLGS-IHADCB+DISPRINT,DCBOFOPN IS PRINT FILE OPEN?	00270000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000086	4710	C0BE	000BE		52	BO	PRT0010 YES	00280000
					53		DEVTYPE DISPRINT+DCBDDNAM-IHADCB,LINEWORK	GP10047 00290000
00008A	4110	C4A0	004A0		54+	LA	1,DISPRINT+DCBDDNAM-IHADCB	LOAD PARAMETER REG 1 01900002
00008E	4100	C358	00358		55+	LA	0,LINEWORK	LOAD PARAMETER REG 0 02500002
000092	0A18				56+	SVC	24	00180000
000094	D203	C4D8 C358	004D8 00358		57	MVC	MAXLRECL,LINEWORK	COPY INFO FOR OPEN GP10047 00300000
					58	OPEN	(DISPRINT,OUTPUT)	OPEN DISPRINT 00310000
00009A	0700				59+	CNOP	0,4	ALIGN LIST TO FULLWORD 01740001
00009C	4510	C0A4	000A4		60+	BAL	1,*+8	LOAD REG1 W/LIST ADDR. 01780000
0000A0	8F				61+	DC	AL1(143)	OPTION BYTE 01900000
0000A1	000478				62+	DC	AL3(DISPRINT)	DCB ADDRESS 01920000
0000A4	0A13				63+	SVC	19	ISSUE OPEN SVC 04000000
0000A6	9110	C4A8	004A8		64	TM	DCBOFLGS-IHADCB+DISPRINT,DCBOFOPN	IS IT OPEN NOW? 00320000
0000AA	4710	C0BE	000BE		65	BO	PRT0010 YES	GP99138 00330000
					66	ABEND	1403,DUMP OOPS?	GP99138 00340000
0000AE					67+	DS	OH	00400002
0000AE	4110	057B	0057B		68+	LA	1,1403	LOAD PARAMETER REG 1 01900002
0000B2	4100	0080	00080		69+	LA	0,128(0,0)	PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
0000B6	8900	0018	00018		70+	SLL	0,24(0)	SHIFT TO HIGH ORDER 01850002
0000BA	1610				71+	OR	1,0	OR IN WITH COMPCODE 01900002
0000BC	0A0D				72+	SVC	13	LINK TO ABEND ROUTINE 02050002
0000BE					74	PRT0010 DS	OH	00360000
0000BE	95C8	A000	00000		75	CLI	PRMCMD,\$PRMHEAD	PRINT HEADING? GP99138 00370000
0000C2	4780	C166	00166		76	BE	PRT0100	YES 00380000
0000C6	95E2	A000	00000		77	CLI	PRMCMD,\$PRMSUBH	PRINT SUB-HEADING? GP99138 00390000
0000CA	4780	C16E	0016E		78	BE	PRT0110	YES 00400000
0000CE	95D7	A000	00000		79	CLI	PRMCMD,\$PRMPRT	PRINT DATA? GP99138 00410000
0000D2	4780	C0E6	000E6		80	BE	PRT0020	YES 00420000
					81	ABEND	3211,DUMP,,USER	ABEND 00430000
0000D6					82+	DS	OH	00400002
0000D6	4110	0C8B	00C8B		83+	LA	1,3211	LOAD PARAMETER REG 1 01900002
0000DA	4100	0080	00080		84+	LA	0,128(0,0)	PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
0000DE	8900	0018	00018		85+	SLL	0,24(0)	SHIFT TO HIGH ORDER 01850002
0000E2	1610				86+	OR	1,0	OR IN WITH COMPCODE 01900002
0000E4	0A0D				87+	SVC	13	LINK TO ABEND ROUTINE 02050002
					89	* -----		* 00450000
					90	* PROCESS SINGLE PRINT LINE		* 00460000
					91	* -----		* 00470000
0000E6	4130	0001	00001		92	PRT0020 LA	R3,1	SET FOR SINGLE LINE GP10047 00480000
0000EA	9540	A001	00001		93	CLI	PRMCC,C' '	SINGLE SPACE? GP99138 00490000
0000EE	4780	C128	00128		94	BE	PRT0030	YES 00500000
0000F2	4130	0002	00002		95	LA	R3,2	DOUBLE-SPACE GP10047 00510000
0000F6	95F0	A001	00001		96	CLI	PRMCC,C'0'	DOUBLE SPACE GP99138 00520000
0000FA	4780	C128	00128		97	BE	PRT0030	YES 00530000
0000FE	4130	0003	00003		98	LA	R3,3	TRIPLE-SPACE GP10047 00540000
000102	9560	A001	00001		99	CLI	PRMCC,C'-'	TRIPLE SPACE? GP99132 00550000
000106	4780	C128	00128		100	BE	PRT0030	YES GP99132 00560000
00010A	1B33				101	SR	R3,R3	OVERPRINT? GP10047 00570000
00010C	954E	A001	00001		102	CLI	PRMCC,C'+'	OVERPRINT ? GP99132 00580000
000110	4780	C128	00128		103	BE	PRT0030	YES GP99132 00590000
000114	4130	03E8	003E8		104	LA	R3,1000	FORCE NEW PAGE GP10047 00600000
000118	95F1	A001	00001		105	CLI	PRMCC,C'1'	NEW PAGE REQUEST? GP99141 00610000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00011C	4780	C13C	0013C		106	BE	PRT0035 YES; DO IT	GP99141 00620000
000120	4130	0001	00001		107	LA	R3,1 ELSE CLOBBER	GP10047 00630000
000124	9240	A001	00001		108	MVI	PRMCC,C' ' CHANGE UNKNOWN TO SINGLE	GP99132 00640000
000128	4E30	C358	00358		109	PRT0030	CVD R3,LINework	GP10047 00650000
00012C	FA72	C358	C361 00358	00361	110	AP	LINework,LINECT NEW LINE COUNT	00660000
000132	F972	C358	B15E 00358	0015E	111	CP	LINework,COMMmaxL WILL PAGE OVERFLOW?	00670000
000138	47D0	C148	00148		112	BNH	PRT0040 NO	00680000
00013C	4590	C18C	0018C		113	PRT0035	BAL R9,PRT0200 PRINT HEADING	GP99141 00690000
000140	9240	A001	00001		114	MVI	PRMCC,C' ' KILL USER'S REQUEST; MAKE REGULAR	GP99139 00700000
000144	4130	0001	00001		115	LA	R3,1	00710000
000148	4E30	C358	00358		116	PRT0040	CVD R3,LINework	GP10047 00720000
00014C	FA27	C361	C358 00361	00358	117	AP	LINECT,LINework NEW LINE COUNT	GP10047 00730000
000152	4100	0085	00085		118	LA	R0,L'PRMCC+L'PRMDATA	GP10047 00740000
000156	4110	A001	00001		119	LA	R1,PRMCC PRINT LINE W/CC	GP10047 00750000
00015A	45E0	C272	00272		120	BAL	R14,MSG#PUT PRINT	GP10047 00760000
00015E	9240	A001	00001		121	MVI	PRMCC,C' ' INITIALIZE PRINT LINE	GP10047 00770000
					122	*CALLER*	MVC PRMDATA,PRMCC	GP10047 00780000
000162	47F0	C260	00260		123	B	PRT9900 EXIT	00790000
					124	*	----- * 00800000	
					125	*	FORCED HEADINGS	* 00810000
					126	*	----- * 00820000	
000166					127	PRT0100	DS OH	00830000
000166	4590	C18C	0018C		128	BAL	R9,PRT0200 PRINT HEADING	00840000
00016A	47F0	C260	00260		129	B	PRT9900 AND EXIT	00850000
					130	*	----- * 00860000	
					131	*	FORCED SUB-HEADINGS	* 00870000
					132	*	----- * 00880000	
00016E					133	PRT0110	DS OH	00890000
00016E	F871	C358	C5F4 00358	005F4	134	ZAP	LINework,=P'20' ALLOWANCE FOR TEXT AND STUFF	GP99138 00900000
000174	FA72	C358	C361 00358	00361	135	AP	LINework,LINECT PLUS CURRENT	GP99138 00910000
00017A	F972	C358	B15E 00358	0015E	136	CP	LINework,COMMmaxL WILL IT FIT?	GP99138 00920000
000180	4720	C166	00166		137	BH	PRT0100 NO; FORCE A NEW PAGE	GP99138 00930000
000184	4590	C1B4	001B4		138	BAL	R9,PRT0210 PRINT HEADING	00940000
000188	47F0	C260	00260		139	B	PRT9900 AND EXIT	00950000
					140	*	----- * 00960000	
					141	*	PRINT HEADING	* 00970000
					142	*	----- * 00980000	
00018C	92F1	C36D	0036D		143	PRT0200	MVI HEADING,C'1' RESTORE ASA EJECT	GP10047 00990000
000190	FA20	C364	C360 00364	00360	144	AP	PAGECT,P1 ADD 1 TO PAGE COUNT	01000000
000196	D205	C3EA	C367 003EA	00367	145	MVC	HEADPAGE,PAGEEDWD SET EDIT WORD	01010000
00019C	DE05	C3EA	C364 003EA	00364	146	ED	HEADPAGE,PAGECT EDIT PAGE NUMBER	01020000
0001A2	4100	0083	00083		147	LA	R0,L'HEADING	GP10047 01030000
0001A6	4110	C36D	0036D		148	LA	R1,HEADING	GP10047 01040000
0001AA	45E0	C272	00272		149	BAL	R14,MSG#PUT WRITE HEADLINE	GP10047 01050000
0001AE	F820	C361	C360 00361	00360	150	ZAP	LINECT,P1 SET LINE COUNT TO 1	01060000
0001B4					151	PRT0210	DS OH	01070000
0001B4	1B11				152	SR	R1,R1 CLEAR REGISTER	01080000
0001B6	BF11	B155	00155		153	ICM	R1,1,COMMSUBL+1 SUBHEADING LENGTH	01090000
0001BA	4780	C1FE	001FE		154	BZ	PRT0240 NO SUB-HEADING	GP99139 01100000
0001BE	4120	C3F1	003F1		155	LA	R2,SUBHWORK LEFT JUSTIFIED SUBHEAD	GP10047 01110000
0001C2	95FF	B154	00154		156	CLI	COMMSUBL,X'FF' NON-CENTERED HEADING?	01120000
0001C6	4780	C1E2	001E2		157	BE	PRT0220 YES	01130000
0001CA	4120	0084	00084		158	LA	R2,L'SUBHWORK WORK AREA SIZE	01140000
0001CE	1B21				159	SR	R2,R1 MINUS SUBHEADING LENGTH	01150000
0001D0	8820	0001	00001		160	SRL	R2,1 DIVIDED BY 2	01160000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001D4	9260	C3F1		003F1	161		MVI SUBHWORK,C'-'	INITIALIZE WITH HYPHEN 01170000
0001D8	D282	C3F2	C3F1	003F2	003F1	162	MVC SUBHWORK+1(L'SUBHWORK-1),SUBHWORK	01180000
0001DE	4122	C3F1		003F1	163		LA R2,SUBHWORK(R2)	ADDRESS FOR CENTERED SUB-HEADING 01190000
0001E2					164	PRT0220	DS OH	01200000
0001E2	0610				165		BCTR R1,0	MINUS 1 01210000
0001E4	4410	C26C		0026C	166		EX R1,EXMVCSUB	MOVE SUBHEAD GP10047 01220000
0001E8	92F0	C3F0		003F0	167	PRT0230	MVI SUBHCC,C'0'	RESTORE DOUBLE-SPACE GP99138 01230000
0001EC	4100	0085		00085	168		LA R0,L'SUBHEAD	GP10047 01240000
0001F0	4110	C3F0		003F0	169		LA R1,SUBHEAD	GP10047 01250000
0001F4	45E0	C272		00272	170		BAL R14,MSG#PUT	WRITE HEADLINE GP10047 01260000
0001F8	FA20	C361	C5F6	00361	005F6	171	AP LINECT,=P'2'	ADD 2 TO LINE COUNT 01270000
0001FE	9240	C3F0		003F0	172	PRT0240	MVI SUBHCC,C' '	CLEAR WORK AREA GP10047 01280000
000202	D283	C3F1	C3F0	003F1	003F0	173	MVC SUBHWORK,SUBHCC	CLEAR ALL GP10047 01290000
000208	4100	0085		00085	174		LA R0,L'SUBHEAD	GP10047 01300000
00020C	4110	C3F0		003F0	175		LA R1,SUBHEAD	GP10047 01310000
000210	45E0	C272		00272	176		BAL R14,MSG#PUT	WRITE HEADLINE GP10047 01320000
000214	FA20	C361	C5F7	00361	005F7	177	AP LINECT,=P'1'	ADD 1 TO LINE COUNT 01330000
00021A	07F9				178		BR R9	01340000
					179	*	-----	* 01350000
					180	*	CLOSE PRINTER	* 01360000
					181	*	-----	* 01370000
00021C	9110	C4A8		004A8	182	PRT0300	TM DCBOFLGS-IHADCB+DISPRINT,DCBOFOPN	PRINTER OPEN? 01380000
000220	47E0	C260		00260	183		BNO PRT9900	NO.. EXIT 01390000
					184		CLOSE DISPRINT	CLOSE PRINTER 01400000
000224					185+		CNOP 0,4	ALIGN LIST TO FULLWORD 02420002
000224	4510	C22C		0022C	186+		BAL 1,*+8	LOAD REG1 W/LIST ADDR 02460002
000228	80				187+		DC AL1(128)	OPTION BYTE 02580000
000229	000478				188+		DC AL3(DISPRINT)	DCB ADDRESS 02600000
00022C	0A14				189+		SVC 20	ISSUE CLOSE SVC 01640000
					190		FREPOOL DISPRINT	AAND RELEASE BUFFERS GP10047 01410000
00022E	4110	C478		00478	191+		LA 1,DISPRINT	LOAD PARAMETER REG 1 01900002
000232	58F0	1014		00014	192+		L 15,20(0,1)	LOAD BUFCB ADDRESS 00100000
000236	9601	1017		00017	193+		OI 23(1),1	INDICATE NO BUFCB ADDR 00150000
00023A	1BEE				194+		SR 14,14	CLEAR REGISTER 00200000
00023C	1B11				195+		SR 1,1	CLEAR REGISTER @ZA79785 00225000
00023E	BF13	F006		00006	196+		ICM 1,3,6(15)	LOAD LENGTH OF BUFFERS @ZA86199 00275000
000242	43E0	F005		00005	197+		IC 14,5(0,15)	NUMBER OF BUFFERS @ZA79785 00325000
000246	1C0E				198+		MR 0,14	AREA TO BE FREED @ZA79785 00350000
000248	4110	1008		00008	199+		LA 1,8(0,1)	ACCOUNT FOR BCB @ZA86199 00375000
00024C	9140	F004		00004	200+		TM 4(15),X'40'	IS BUFCB 16 BYTES @ZA19719 00400000
000250	47E0	C258		00258	201+		BNO *+8	BRANCH IF BUFCB = 8 BYTES 00430000
000254	4110	1008		00008	202+		LA 1,8(0,1)	ADJUST SIZE PLUS 8 @ZA87508 00460000
000258	1801				203+		LR 0,1	LOAD LENGTH TO BE FREED @ZA86199 00505000
00025A	4110	F000		00000	204+		LA 1,0(0,15)	LOAD AREA ADDRESS 00550000
00025E	0A0A				205+		SVC 10	ISSUE FREEMAIN SVC 00600000
					206	*	-----	* 01420000
					207	*	EXIT	* 01430000
					208	*	-----	* 01440000
000260					209	PRT9900	DS OH	01450000
000260	58D0	D004		00004	210		L R13,4(,R13)	RESTORE REGISTER 13 01460000
000264	98EC	D00C		0000C	211		LM R14,R12,12(R13)	RESTORE ALL OTHER REGISTERS 01470000
000268	1BFF				212		SR R15,R15	GIVE GOOD RETURN CODE 01480000
00026A	07FE				213		BR R14	RETURN TO CALLER 01490000
00026C	D200	2000	B16D	00000	0016D	214	EXMVCSUB MVC	0(0,R2),COMMSUBH COPY SUBHEADING GP10047 01500000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
					216 *	-----	* 01520000
					217 *	PRINT PROCESSING ROUTINE	* 01530000
					218 *	-----	* 01540000
					219	PUSH USING	GP10047 01550000
000272	900F	C314	00314		220 MSG#PUT	STM R0,R15,MRSAVE	GP10047 01560000
000276	4180	C478	00478		221	LA R8,DISPRINT	GP10047 01570000
			00000		222	USING IHADCB,R8	GP10047 01580000
00027A	9110	8030	00030		223	TM DCBOFLGS,DCBOFOPN	GP10047 01590000
00027E	47E0	C30E	0030E		224	BNO MRRET RETURN IF NO MESSAGE FILE	GP10047 01600000
000282	1841				225 MRTEST	LR R4,R1 PASSED TEXT ADDRESS	GP10047 01610000
000284	1250				226	LTR R5,R0 AND LENGTH	GP10047 01620000
000286	47D0	C30E	0030E		227	BNP MRRET	GP10047 01630000
00028A	9106	8024	00024		228	TM DCBRECFM,DCBRECCA+DCBRECCM	GP10047 01640000
00028E	4770	C29C	0029C		229	BNZ MRTESTCC	GP10047 01650000
000292	0650				230	BCTR R5,0 ADJUST LENGTH SANS CC	GP10047 01660000
000294	4140	4001	00001		231	LA R4,1(,R4) SKIP OVER CC	GP10047 01670000
000298	47F0	C2A8	002A8		232	B MRTESTNC	GP10047 01680000
00029C	9104	8024	00024		233 MRTESTCC	TM DCBRECFM,DCBRECCA	GP10047 01690000
0002A0	4710	C2A8	002A8		234	BO MRTESTNC	GP10047 01700000
0002A4	9209	4000	00000		235	MVI 0(R4),X'09' ***** TEMP - SINGLE SPACE *****	GP10047 01710000
0002A8	91C0	8024	00024		236 MRTESTNC	TM DCBRECFM,DCBRECU	GP10047 01720000
0002AC	4710	C2B8	002B8		237	BO MRU	GP10047 01730000
0002B0	9180	8024	00024		238	TM DCBRECFM,DCBRECF	GP10047 01740000
0002B4	4710	C302	00302		239	BO MRF	GP10047 01750000
0002B8	4950	803E	0003E		240 MRU	CH R5,DCBBLKSI	GP10047 01760000
0002BC	47D0	C2C4	002C4		241	BNH *+8	GP10047 01770000
0002C0	4850	803E	0003E		242	LH R5,DCBBLKSI	GP10047 01780000
0002C4	9108	802B	0002B		243	TM DCBMACF2,DCBMRLCP LOCATE MODE?	GP10047 01790000
0002C8	4780	C2FE	002FE		244	BZ MRULEN	GP10047 01800000
0002CC	5950	8060	00060		245	C R5,MAXLRECL-DISPRINT(,R8) FITS?	GP10047 01810000
0002D0	47D0	C2D8	002D8		246	BNH *+8 YES	GP10047 01820000
0002D4	5850	8060	00060		247	L R5,MAXLRECL-DISPRINT(,R8) TRUNCATE	GP10047 01830000
0002D8	4130	5004	00004		248	LA R3,4(,R5) DATA + RDW LENGTH	GP10047 01840000
0002DC	4030	8052	00052		249	STH R3,DCBLRECL	GP10047 01850000
					250	PUT IHADCB GET A RECORD	GP10047 01860000
0002E0	4110	8000	00000		251+	LA 1,IHADCB LOAD PARAMETER REG 1	01900002
0002E4	58F0	1030	00030		252+	L 15,48(0,1) LOAD PUT ROUTINE ADDR	00550000
0002E8	05EF				253+	BALR 14,15 LINK TO PUT ROUTINE	00600000
0002EA	8930	0010	00010		254	SLL R3,16	GP10047 01870000
0002EE	BE3F	1000	00000		255	STCM R3,15,0(R1) BUILD RDW	GP10047 01880000
0002F2	4100	1004	00004		256	LA R0,4(,R1)	GP10047 01890000
0002F6	1815				257	LR R1,R5	GP10047 01900000
0002F8	0E04				258	MVCL R0,R4 MOVE DATA TO BUFFER	GP10047 01910000
0002FA	47F0	C30E	0030E		259	B MRRET	GP10047 01920000
0002FE	4050	8052	00052		260 MRULEN	STH R5,DCBLRECL	GP10047 01930000
000302	1804				261 MRF	LR R0,R4 RECORD ADDRESS	GP10047 01940000
					262	PUT IHADCB,(0)	GP10047 01950000
000304	4110	8000	00000		263+	LA 1,IHADCB LOAD PARAMETER REG 1	01900002
000308	58F0	1030	00030		264+	L 15,48(0,1) LOAD PUT ROUTINE ADDR	00550000
00030C	05EF				265+	BALR 14,15 LINK TO PUT ROUTINE	00600000
00030E	980F	C314	00314		266 MRRET	LM R0,R15,MRSAVE	GP10047 01960000
000312	07FE				267	BR R14	GP10047 01970000
000314	0000000000000000				268 MRSAVE	DC 16A(0)	GP10047 01980000
					269	POP USING	GP10047 01990000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				271 *	-----	* 02010000
				272 *		* 02020000
				273 *	WORK AREAS	* 02030000
				274 *		* 02040000
				275 *	-----	* 02050000
000354	00000000					
000358	0000000000000000C			277	LINEWORK DC OD'0',PL8'0' LINES ADDED BY THIS I/O GP10047 02070000	
000360	1C			278	P1 DC P'1' CONSTANT GP99132 02080000	
000361	00000C			279	LINECT DC PL3'0' LINE COUNT 02090000	
000364	00000C			280	PAGECT DC PL3'0' PAGE COUNT 02100000	
000367	402020202120			281	PAGEEDWD DC X'402020202120' CONSTANT 02110000	
				283	&DAY SETC '&SYSDATE'(7,2) YEAR GP10058 02130000	
				284	&DAM SETC '&SYSDATE'(1,2) MONTH GP10058 02140000	
				285	&DAD SETC '&SYSDATE'(4,2) DAY GP10058 02150000	
00036D	F1			286	HEADCC DC CL01'1' 02160000	
00036E	4040404040404040			287	DC CL45' ' GP10058 02170000	
00039B	C4C9E2C1E2E2C5D4			288	DC CL13'DISASSEMBLER' GP10058 02180000	
				289	DC C'VERSION &DAY..&DAM..&DAD' GP10058 02190000	
0003A8	E58599A289969540			290+	DC C'VERSION 18.07.11' GP10058 02190000	
0003B8	4040404040404040			291	DC CL46' ' GP10058 02200000	
0003E6	D7C1C7C5			292	DC CL04'PAGE' 02210000	
0003EA	404040404040			293	HEADPAGE DC CL06' ' 02220000	
		0036D		294	HEADING EQU HEADCC,*-HEADCC,C'C' GP10047 02230000	
0003F0	F0			296	SUBHCC DC C'0' 02250000	
0003F1	4040404040404040			297	SUBHWORK DC CL132' ' GP10047 02260000	
		003F0		298	SUBHEAD EQU SUBHCC,*-SUBHCC,C'C' GP10047 02270000	
				300	DISPRINT DCB DDNAME=DISPRINT,DSORG=PS,MACRF=PM,EXLST=EXLSTPRT GP10047 02290000	
				302+*	DATA CONTROL BLOCK	22770000
				303+*		22860000
000475	000000			304+	DISPRINT DC OF'0' ORIGIN ON WORD BOUNDARY 22914000	
000478				306+*	DIRECT ACCESS DEVICE INTERFACE	27360000
000478	0000000000000000			308+	DC BL16'0' FDAD,DVTBL 27540000	
000488	00000000			309+	DC A(0) KEYLE,DEVT,TRBAL 27720000	
				311+*	COMMON ACCESS METHOD INTERFACE	48690000
00048C	00			313+	DC AL1(0) BUFNO 49050000	
00048D	000001			314+	DC AL3(1) BUFCB 54720000	
000490	0000			315+	DC AL2(0) BUFL 55170000	
000492	4000			316+	DC BL2'0100000000000000' *55800000	
				+	DSORG 55890000	
000494	00000001			317+	DC A(1) IOBAD 56340000	
				319+*	FOUNDATION EXTENSION	56610000
000498	00			321+	DC BL1'00000000' BFTEK,BFLN,HIARCHY 59850000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000499	000001				322+	DC	AL3(1)	EODAD 65970000
00049C	00				323+	DC	BL1'00000000'	*66150000
					+			66240000
00049D	0004DC				324+	DC	AL3(EXLSTPRT)	EXLST 66330000
					326+*		FOUNDATION BLOCK	66690000
0004A0	C4C9E2D7D9C9D5E3				328+	DC	CL8'DISPRINT'	DDNAME 66870000
0004A8	02				329+	DC	BL1'00000010'	OFLGS 68220000
0004A9	00				330+	DC	BL1'00000000'	IFLG 68310000
0004AA	0050				331+	DC	BL2'0000000001010000'	*68400000
					+			*68490000
					+		MACR	68580000
					333+*		BSAM-BPAM-QSAM INTERFACE	74430000
0004AC	00				335+	DC	BL1'00000000'	*74610000
					+			RER1 74700000
0004AD	000001				336+	DC	AL3(1)	CHECK, GERR, PERR 74790000
0004B0	00000001				337+	DC	A(1)	SYNAD 74880000
0004B4	0000				338+	DC	H'0'	CIND1, CIND2 74970000
0004B6	0000				339+	DC	AL2(0)	BLKSIZE 75240000
0004B8	00000000				340+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW 75870000
0004BC	00000001				341+	DC	A(1)	IOBA 75960000
0004C0	00				342+	DC	AL1(0)	NCP 76050000
0004C1	000001				343+	DC	AL3(1)	EOBR, EOBAD 76140000
					345+*		QSAM INTERFACE	81450000
0004C4	00000001				347+	DC	A(1)	RECAD 81630000
0004C8	0000				348+	DC	H'0'	QSWs 81810000
0004CA	0000				349+	DC	AL2(0)	LRECL 80730000
0004CC	00				350+	DC	BL1'00000000'	EROPT 82530000
0004CD	000001				351+	DC	AL3(1)	CNTRL 82620000
0004D0	00000000				352+	DC	F'0'	PRECL 82710000
0004D4	00000001				353+	DC	A(1)	EOB 82800000
0004D8	00000000				354	MAXLRECL DC	F'0'	LRECL AFTER OPEN; DEVTYPE BEFORE GP10047 02300000
0004DC	850004E0				355	EXLSTPRT DC	0A(0),X'85',AL3(PRTEXTIT)	GP10047 02310000
					357	*-----*		* 02330000
					358	*		* 02340000
					359	* DCB OPEN EXIT FOR OUTPUT PRINTING:		* 02350000
					360	* DEFAULT TO FBA,133,1330 USING MOVE MODE		* 02360000
					361	* IF OUTPUT IS V, CHANGE TO LOCATE MODE		* 02370000
					362	*		* 02380000
					363	*-----*		* 02390000
					364	PUSH USING		GP10047 02400000
					365	DROP ,		GP10047 02410000
				004E0	366	USING PRTEXTIT,R15		GP10047 02420000
				00000	367	USING IHADCB,R1		GP10047 02430000
0004E0	5410 F108		005E8		368	PRTEXTIT N	R1,=X'00FFFFFF'	KILL OPEN FLAGS GP10047 02440000
0004E4	1B22				369	SR	R2,R2	CLEAR FOR DIVIDE GP10047 02450000
0004E6	1B33				370	SR	R3,R3	BLOCK SIZE GP10047 02460000
0004E8	1B44				371	SR	R4,R4	RECORD LENGTH GP10047 02470000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0004EA	BF43	1052	00052		372	ICM	R4,3,DCBLRECL LOAD RECORD LENGTH	GP10047 02480000
0004EE	BF33	103E	0003E		373	ICM	R3,3,DCBBLKSI LOAD BLOCK SIZE	GP10047 02490000
0004F2	91E0	1024	00024		374	TM	DCBRECFCM,DCBRECLA ANY RECORD FORMAT ?	GP10047 02500000
0004F6	4770	F01E	004FE		375	BNZ	PRTEXITR YES; KEEP	GP10047 02510000
0004FA	9694	1024	00024		376	OI	DCBRECFCM,DCBRECFC+DCBRECBR+DCBRECCA DEFAULT FBA	GP10047 02520000
0004FE	9250	102B	0002B		377	PRTEXITR MVI	DCBMACF2,DCBMRPUT+DCBMRMVP SET MOVE MODE	GP10047 02530000
000502	9180	1024	00024		378	TM	DCBRECFCM,DCBRECFC IS IT F OR U VS. V OR D?	GP10047 02540000
000506	4770	F02E	0050E		379	BNZ	PRTEXITM YES; USE MOVE MODE	GP10047 02550000
00050A	9248	102B	0002B		380	MVI	DCBMACF2,DCBMRPUT+DCBMRLCP SET LOCATE	GP10047 02560000
00050E	1244				381	PRTEXITM LTR	R4,R4 ANY RECORD LENGTH ?	GP10047 02570000
000510	4770	F050	00530		382	BNZ	PRTEXITL YES	GP10047 02580000
000514	4140	0084	00084		383	LA	R4,132 SET DEFAULT TEXT LENGTH	GP10047 02590000
000518	9180	1024	00024		384	TM	DCBRECFCM,DCBRECFC U OR F?	GP10047 02600000
00051C	4770	F044	00524		385	BNZ	*+8 YES	GP10047 02610000
000520	4140	4004	00004		386	LA	R4,4(,R4) ALLOW FOR RDW	GP10047 02620000
000524	9106	1024	00024		387	TM	DCBRECFCM,DCBRECCC CARRIAGE CONTROL ?	GP10047 02630000
000528	4780	F050	00530		388	BZ	PRTEXITL NO	GP10047 02640000
00052C	4140	4001	00001		389	LA	R4,1(,R4) ALLOW FOR IT	GP10047 02650000
000530	1233				390	PRTEXITL LTR	R3,R3 ANY BLOCKSIZE?	GP10047 02660000
000532	4770	F0AC	0058C		391	BNZ	PRTEXITB YES; CHECK LRECL IF F	GP10047 02670000
000536	9520	1062	00062		392	CLI	MAXLRECL-DISPRINT+2(R1),X'20' DASD OUTPUT?	GP10047 02680000
00053A	4780	F086	00566		393	BE	PRTBLKDA YES; USE TABLE	GP10047 02690000
00053E	9508	1062	00062		394	CLI	MAXLRECL-DISPRINT+2(R1),X'08' UNIT REC OUTPUT?	GP10047 02700000
000542	4780	F076	00556		395	BE	PRTBLKUR YES; UNBLOCKED	GP10047 02710000
000546	9501	1062	00062		396	CLI	MAXLRECL-DISPRINT+2(R1),X'01' SPOOL OUTPUT?	GP10047 02720000
00054A	4780	F07E	0055E		397	BE	PRTBLKSP YES; USE 4K	GP10047 02730000
00054E	5830	F10C	005EC		398	L	R3,=A(32760) ELSE USE MAX ALLOWED	GP10047 02740000
000552	47F0	F0AC	0058C		399	B	PRTEXITB	GP10047 02750000
000556	4130	4004	00004		400	PRTBLKUR LA	R3,4(,R4) USE RECORD LENGTH	GP10047 02760000
00055A	47F0	F0AC	0058C		401	B	PRTEXITB	GP10047 02770000
00055E	5830	F110	005F0		402	PRTBLKSP L	R3,=A(4096) USE ONE PAGE FOR SPOOLING	GP10047 02780000
000562	47F0	F0AC	0058C		403	B	PRTEXITB	GP10047 02790000
000566	1B66				404	PRTBLKDA SR	R6,R6 CLEAR FOR IC	GP10047 02800000
000568	91F0	1063	00063		405	TM	MAXLRECL-DISPRINT+3(R1),X'F0' FUNNIES?	GP10047 02810000
00056C	4770	F0A8	00588		406	BNZ	PRTBLK10 YES; USE ARBITRARY VALUE	GP10047 02820000
000570	BF61	1063	00063		407	ICM	R6,1,MAXLRECL-DISPRINT+3(R1)	GP10047 02830000
000574	47D0	F0A8	00588		408	BNP	PRTBLK10 USE ARBITRARY VALUE	GP10047 02840000
000578	8960	0001	00001		409	SLL	R6,1 CONVERT TO OFFSET	GP10047 02850000
00057C	4166	F0E8	005C8		410	LA	R6,DASDSIZE-2(R6) POINT TO MAXBLOCK	GP10047 02860000
000580	BF43	6000	00000		411	ICM	R4,3,0(R6) GET BLOCK SIZE	GP10047 02870000
000584	47F0	F0AC	0058C		412	B	PRTEXITB	GP10047 02880000
000588	4130	055E	0055E		413	PRTBLK10 LA	R3,1374 ARBITRARY	GP10047 02890000
00058C	9180	1024	00024		414	PRTEXITB TM	DCBRECFCM,DCBRECFC F OR U ?	GP10047 02900000
000590	4780	F0CE	005AE		415	BZ	PRTEXITV NO; V OR D	GP10047 02910000
000594	91C0	1024	00024		416	TM	DCBRECFCM,DCBRECU U?	GP10047 02920000
000598	4710	F0DC	005BC		417	BO	PRTEXITX YES; KEEP IT	GP10047 02930000
00059C	1D24				418	DR	R2,R4 GET BLOCKING FACTOR	GP10047 02940000
00059E	1233				419	LTR	R3,R3 AT LEAST ONE ?	GP10047 02950000
0005A0	4720	F0C8	005A8		420	BP	*+8 YES	GP10047 02960000
0005A4	4130	0001	00001		421	LA	R3,1 SET TO ONE	GP10047 02970000
0005A8	1C24				422	MR	R2,R4 GET NEW BLOCK SIZE	GP10047 02980000
0005AA	47F0	F0DC	005BC		423	B	PRTEXITX STASH BACK	GP10047 02990000
0005AE	4120	4004	00004		424	PRTEXITV LA	R2,4(,R4) LRECL+4	GP10047 03000000
0005B2	1923				425	CR	R2,R3 COMPARE TO BLOCK	GP10047 03010000
0005B4	47D0	F0DC	005BC		426	BNH	PRTEXITX OK	GP10047 03020000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0005B8	9608 1024	00024		427	OI	DCBRECFCM,DCBRECSB NEED SPANNED OR LARGER BLOCK	GP10047 03030000
0005BC	4030 103E	0003E		428	PRTEXITX	STH R3,DCBBLKSI SET NEW BLOCK SIZE	GP10047 03040000
0005C0	4040 1052	00052		429	STH	R4,DCBLRECL AND RECORD LENGTH	GP10047 03050000
0005C4	5040 1060	00060		430	ST	R4,MAXLRECL-DISPRINT(,R1) SAVE FOR LOCATE MODE	GP10047 03060000
0005C8	07FE			431	BR	R14 AND RETURN TO OPEN	GP10047 03070000
0005CA	0E295003131C6D5E			432	DASDSIZE	DC H'3625,20483,4892,27998,6144,14136,14660,7294'	2311-2314 03080000
0005DA	32E620B04A7D44C0			433	DC	H'13030,8368,19069,17600,13030,23476,27998'	3330-3390 03090000
0005E8				434	LTORG	,	GP10047 03100000
0005E8	00FFFFFF			435		=X'00FFFFFF'	
0005EC	00007FF8			436		=A(32760)	
0005F0	00001000			437		=A(4096)	
0005F4	020C			438		=P'20'	
0005F6	2C			439		=P'2'	
0005F7	1C			440		=P'1'	
				441	POP	USING	GP10047 03110000
				443	*	-----	* 03130000
				444	*		* 03140000
				445	*	PRINT MODULE INTERFACE BLOCK	* 03150000
				446	*		* 03160000
				447	*	-----	* 03170000
				448	PRMBLOK	PRTBLOK TYPE=DSECT,PFX=PRM MAKE UNIQUE NAMES	GP99138 03180000
000000				449	+PRMBLOK	DSECT	00130000
000000	00			450	+PRMCMD	DC X'00' COMMAND	00150000
		000C8		451	+\$PRMHEAD	EQU C'H' .. PRINT HEADING	00160000
		000E2		452	+\$PRMSUBH	EQU C'S' .. PRINT SUB-HEADING	00170000
		000D7		453	+\$PRMPRT	EQU C'P' .. PRINT	00180000
		000D4		454	+\$PRMMEM	EQU C'M' .. NEW MEMBER	00190000
		000C3		455	+\$PRMCLS	EQU C'C' .. CLOSE PRINT	00200000
000001	40			456	+PRMCC	DC C' ' CARRIAGE CONTROL	00210000
000002	4040404040404040			457	+PRMDATA	DC CL132' ' PRINT DATA	00220000
				459	*	-----	* 03200000
				460	*		* 03210000
				461	*	COMMON DATA MAP	* 03220000
				462	*		* 03230000
				463	*	-----	* 03240000
				464	DISASM00	DISASMCM TYPE=DSECT	03250000
				465	+	PRINT OFF	00280000
				1096	+	PRINT ON	06440000
				1097	+	-----	* 06460000
				1098	+		* 06470000
				1099	+	ABEND REASON CODES	* 06480000
				1100	+		* 06490000
				1101	+	-----	* 06500000
		00001		1102	+ABEND001	EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000
		00002		1103	+ABEND002	EQU 2 UNKNOWN RETURN CODE FROM BLDL	06520000
		00003		1104	+ABEND003	EQU 3 UNKNOWN RLD ITEM TYPE	06530000
		00004		1105	+ABEND004	EQU 4 RLD DATA REMAINING WENT NEGATIVE	06540000
		00005		1106	+ABEND005	EQU 5 ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
				00000	1109	+R0 EQU 0	00070000
				00001	1110	+R1 EQU 1	00080000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
				00002	1111+R2	EQU	2	00090000
				00003	1112+R3	EQU	3	00100000
				00004	1113+R4	EQU	4	00110000
				00005	1114+R5	EQU	5	00120000
				00006	1115+R6	EQU	6	00130000
				00007	1116+R7	EQU	7	00140000
				00008	1117+R8	EQU	8	00150000
				00009	1118+R9	EQU	9	00160000
				0000A	1119+R10	EQU	10	00170000
				0000B	1120+R11	EQU	11	00180000
				0000C	1121+R12	EQU	12	00190000
				0000D	1122+R13	EQU	13	00200000
				0000E	1123+R14	EQU	14	00210000
				0000F	1124+R15	EQU	15	00220000
				1126		PRINT	NOGEN	GP99138 03260000
000000				1127		DCBD	DEV=DA,DSORG=PS	GP99138 03270000
				1685		END	DISASMPR	03280000

POS.ID

REL.ID

FLAGS

ADDRESS

ASM 0201 00.48 07/11/18

0001	0001	08	0000A1
0001	0001	08	000229
0001	0001	08	00049D
0001	0001	08	0004DD

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
\$OPMASK	00001	00000001	01091	00747															
\$PFTRC	00001	00000001	00599	00834	00836														
\$PRMCLS	00001	000000C3	00455	00049															
\$PRMHEAD	00001	000000C8	00451	00075															
\$PRMPRT	00001	000000D7	00453	00079															
\$PRMSUBH	00001	000000E2	00452	00077															
\$PRTPRT	00001	000000D7	00958	00944	00965														
\$PRTSUBH	00001	000000E2	00957	00840															
AOP	00004	000000AC	00505	00728															
APR	00004	000000B8	00507	00947															
APU	00004	000000BC	00508	00968															
BLKTRT	00001	00000A68	01005	01006	01008	01010	01012	01014	01016	01018	01020	01022	01024	01026	01028	01030			
COMMCLR	00004	000000F8	00534	00554	00558														
COMMDWRD	00008	00000000	00472	00859	00860														
COMMFILL	00001	00000161	00575	00904															
COMMHXCH	00016	00000275	00624	00625															
COMMHXTR	00016	00000185	00625	00851	00854	00857	00861												
COMMMAXL	00003	0000015E	00574	00111	00136														
COMMNPR	00001	000003C7	00680	00681	00683	00685	00687	00689	00691	00693	00695	00697	00699	00701	00703	00705			
COMMPOL	00001	00000162	00576	00896	00911														
COMMPRT	00001	000002C7	00651	00652	00654	00656	00658	00660	00662	00664	00666	00668	00670	00672	00674				
COMMSUBH	00133	0000016D	00619	00214	00837														
COMMSUBL	00002	00000154	00569	00153	00156	00838	00838	00839											
DASDSIZE	00002	000005CA	00432	00410															
DCBBIT0	00001	00000080	01149	01235	01243	01255	01278	01305	01307	01308	01310	01333	01336	01356	01360	01375	01412	01467	
				01498	01537	01541	01554	01654	01656	01666									
DCBBIT1	00001	00000040	01150	01236	01244	01257	01279	01280	01289	01305	01307	01309	01310	01338	01356	01358	01360	01378	
				01379	01380	01415	01416	01467	01500	01543	01545	01557	01601	01654	01658	01667			
DCBBIT2	00001	00000020	01151	01237	01245	01258	01259	01260	01279	01280	01284	01290	01305	01306	01311	01340	01361	01362	
				01383	01384	01385	01419	01420	01468	01505	01546	01562	01604	01607	01654	01668			
DCBBIT3	00001	00000010	01152	01238	01258	01260	01261	01279	01292	01312	01343	01361	01364	01387	01388	01389	01423	01424	
				01468	01507	01510	01512	01548	01563	01604	01608	01654							
DCBBIT4	00001	00000008	01153	01246	01293	01313	01344	01366	01371	01372	01392	01393	01427	01428	01430	01431	01469	01515	
				01564	01604	01609													
DCBBIT5	00001	00000004	01154	01247	01294	01316	01317	01346	01366	01368	01369	01372	01396	01398	01399	01400	01434	01435	
				01436	01437	01469	01517	01520	01550	01566	01599								
DCBBIT6	00001	00000002	01155	01239	01295	01296	01299	01316	01318	01347	01403	01404	01405	01406	01440	01441	01442	01443	
				01470	01523	01568	01610												
DCBBIT7	00001	00000001	01156	01240	01295	01297	01299	01320	01351	01408	01409	01446	01447	01449	01450	01526	01552	01569	
				01612															
DCBBLKSI	00002	0000003E	01571	00240	00242	00373	00428												
DCBDDNAM	00008	00000028	01330	00054															
DCBFDAD	00008	00000005	01176	01179															
DCBLRECL	00002	00000052	01636	00249	00260	00372	00429												
DCBMACF2	00001	0000002B	01464	00243	00377	00380													
DCBMRLCP	00001	00000008	01430	00243	00380														
DCBMRMVP	00001	00000010	01423	00377															
DCBMRPUT	00001	00000040	01415	00377	00380														
DCBOFLGS	00001	00000030	01332	00051	00064	00182	00223												
DCBOFOPN	00001	00000010	01343	00051	00064	00182	00223												
DCBRECBR	00001	00000010	01312	00376															
DCBRECCA	00001	00000004	01317	00228	00233	00376													
DCBRECCC	00001	00000006	01316	00387															
DCBRECCM	00001	00000002	01318	00228															
DCBRECF	00001	00000080	01308	00238	00376	00378	00384	00414											

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
DCBRECFM	00001	00000024	01304	00228 00233 00236 00238 00374 00376 00378 00384 00387 00414 00416 00427	
DCBRECLA	00001	000000E0	01305	00374	
DCBRECSB	00001	00000008	01313	00427	
DCBRECU	00001	000000C0	01310	00236 00416	
DISASMPR	00001	00000000	00034	00035 00041 01685	
DISASM00	00001	00000000	00466	00042 00479 00718 00795 00832 00893 00929	
DISPRINT	00004	00000478	00304	00051 00054 00062 00064 00182 00188 00191 00221 00245 00247 00392 00394 00396 00405 00407	
EXGETOPC	00006	00000554	00759	00430 00752	
EXLSTPRT	00004	000004DC	00355	00324	
EXMVCSUB	00006	0000026C	00214	00166	
GETOPEXT	00004	00000546	00755	00748	
GETOPLN	00001	0000055A	00760	00726	
GETOPNOT	00004	0000054E	00757	00731 00741 00746 00754	
GETOPTMK	00004	00000526	00747	00732	
GETOPWRK	00006	0000055E	00761	00751 00751 00753 00759	
HEADCC	00001	0000036D	00286	00294 00294	
HEADING	00131	0000036D	00294	00143 00147 00148	
HEADPAGE	00006	000003EA	00293	00145 00146	
HEXTRT	00001	00000868	00987	00988 00990 00992 00994 00996	
IHADCB	00001	00000000	01132	00051 00054 00064 00182 00222 00251 00263 00367 01217 01264 01329 01458 01473 01480 01493	
INTTRT	00001	00000968	00998	01589 01595 01622 01645	
LINECT	00003	00000361	00279	00999 01001 01003	
LINEWORK	00008	00000358	00277	00110 00117 00135 00150 00171 00177	
MAINRSV	00004	00000858	00985	00055 00057 00109 00110 00111 00116 00117 00134 00135 00136	
MAXLRECL	00004	000004D8	00354	00894 00900 00902 00906 00909 00915	
MODENT	00004	00000064	00039	00057 00245 00247 00392 00394 00396 00405 00407 00430	
MODHEAD	00023	00000005	00037	00035	
MODSAVE	00004	0000001C	00038	00036	
MRF	00002	00000302	00261	00043	
MRRET	00004	0000030E	00266	00239	
MRSAVE	00004	00000314	00268	00224 00227 00259	
MRTESTCC	00004	0000029C	00233	00220 00266	
MRTESTNC	00004	000002A8	00236	00229	
MRU	00004	000002B8	00240	00232 00234	
MRULEN	00004	000002FE	00260	00237	
MSG#PUT	00004	00000272	00220	00244	
NBLTRT	00001	00000B68	01032	00120 00149 00170 00176	
OPDSECT	00001	00000000	01054	01033 01035	
OPFLAGS	00001	00000007	01083	00729 01092	
OPFLAG1	00001	00000001	01056	00747	
OPFLAG2	00001	00000002	01057	00736	
OPFLAG3	00001	00000003	01058	00738	
OPMASK	00006	00000008	01093	00740	
OPMNEM	00006	00000000	01055	00753	
PAGECT	00003	00000364	00280	01056 01057 01058	
PAGEEDWD	00006	00000367	00281	00144 00146	
PRINTDAT	00004	000006F0	00945	00145	
PRINTFG1	00001	00000165	00592	00841	
PRINTMVR	00006	000006E6	00942	00834 00836	
PRINTREC	00004	000006EC	00944	00939	
PRINTREX	00004	000006FE	00949	00863 00941	
PRINTRSV	00004	00000848	00984	00933	
PRMBLOK	00001	00000000	00449	00930 00940 00945 00949 00966 00970	

DAPR				CROSS-REFERENCE										PAGE					15				
SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18									
PRMCC	00001	00000001	00456	00093	00096	00099	00102	00105	00108	00114	00118	00119	00121										
PRMCMD	00001	00000000	00450	00049	00075	00077	00079																
PRMDATA	00132	00000002	00457	00118																			
PRTBLKDA	00002	00000566	00404	00393																			
PRTBLKSP	00004	0000055E	00402	00397																			
PRTBLKUR	00004	00000556	00400	00395																			
PRTBLK10	00004	00000588	00413	00406	00408																		
PRTBLOK	00001	0000070E	00954	00946																			
PRTCC	00001	0000070F	00961	00950																			
PRTCMD	00001	0000070E	00955	00840	00944	00965																	
PRTDATA	00132	00000710	00962	00848	00849	00850	00851	00852	00853	00854	00855	00856	00857	00858	00860	00861	00862	00934					
				00942	00951	00951																	
PRTEXIT	00004	000004E0	00368	00355	00366																		
PRTEXITB	00004	0000058C	00414	00391	00399	00401	00403	00412															
PRTEXITL	00002	00000530	00390	00382	00388																		
PRTEXITM	00002	0000050E	00381	00379																			
PRTEXITR	00004	000004FE	00377	00375																			
PRTEXITV	00004	000005AE	00424	00415																			
PRTEXITX	00004	000005BC	00428	00417	00423	00426																	
PRT0010	00002	000000BE	00074	00052	00065																		
PRT0020	00004	000000E6	00092	00080																			
PRT0030	00004	00000128	00109	00094	00097	00100	00103																
PRT0035	00004	0000013C	00113	00106																			
PRT0040	00004	00000148	00116	00112																			
PRT0100	00002	00000166	00127	00076	00137																		
PRT0110	00002	0000016E	00133	00078																			
PRT0200	00004	0000018C	00143	00113	00128																		
PRT0210	00002	000001B4	00151	00138																			
PRT0220	00002	000001E2	00164	00157																			
PRT0240	00004	000001FE	00172	00154																			
PRT0300	00004	0000021C	00182	00050																			
PRT9900	00002	00000260	00209	00123	00129	00139	00183																
PUNBLOK	00001	000007B2	00973	00967																			
PUNDATA	00080	000007B4	00979	00964																			
P1	00001	00000360	00278	00144	00150																		
R0	00001	00000000	01109	00118	00147	00168	00174	00220	00226	00256	00258	00261	00266	00719	00725	00725	00726	00749					
				00797	00816	00833	00872	00896	00901	00905	00911	00934	00935	00937	00940								
R1	00001	00000001	01110	00047	00119	00148	00152	00152	00153	00159	00165	00166	00169	00175	00225	00255	00256	00257					
				00367	00368	00392	00394	00396	00405	00407	00430	00721	00735	00755	00757	00759	00796	00798					
				00802	00802	00803	00805	00807	00894	00900	00901	00902	00906	00930	00932	00942	00945	00946					
				00949	00964	00966	00967	00970															
R10	00001	0000000A	01119	00047	00048																		
R11	00001	0000000B	01120	00042	00718	00795	00832	00893	00929														
R12	00001	0000000C	01121	00039	00040	00041	00211	00809															
R13	00001	0000000D	01122	00039	00044	00045	00046	00210	00210	00211													
R14	00001	0000000E	01123	00039	00043	00044	00045	00046	00120	00149	00170	00176	00211	00213	00267	00431	00722	00723					
				00724	00726	00733	00733	00735	00737	00739	00740	00742	00742	00743	00744	00755	00756	00758					
				00810	00817	00841	00863	00873	00894	00905	00906	00907	00909	00915	00916	00930	00940	00945					
				00948	00949	00952	00966	00969	00970	00971													
R15	00001	0000000F	01124	00035	00040	00212	00212	00220	00266	00366	00719	00720	00720	00721	00723	00727	00728	00729					
				00730	00730	00744	00745	00745	00757	00797	00816	00833	00872	00903	00903	00904	00909	00915					
				00931	00931	00932	00935	00937	00938	00939	00947	00948	00968	00969									
R2	00001	00000002	01111	00155	00158	00159	00160	00163	00163	00214	00369	00369	00418	00422	00424	00425	00734	00734					
				00736	00737	00738	00739																
R3	00001	00000003	01112	00092	00095	00098	00101	00101	00104	00107	00109	00115	00116	00248	00249	00254	00255	00370					

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
				00370 00373 00390 00390 00398 00400 00402 00413 00419 00419 00421 00425 00428	
R4	00001	000000004	01113	00225 00231 00231 00235 00258 00261 00371 00371 00372 00381 00381 00383 00386 00386 00389	
				00389 00400 00411 00418 00422 00424 00429 00430 00749 00750 00752	
R5	00001	000000005	01114	00226 00230 00240 00242 00245 00247 00248 00257 00260 00842 00845 00865 00865 00866 00868	
				00870	
R6	00001	000000006	01115	00404 00404 00407 00409 00410 00410 00411	
R8	00001	000000008	01117	00221 00222 00245 00247	
R9	00001	000000009	01118	00113 00128 00138 00178	
SUBHCC	00001	000003F0	00296	00167 00172 00173 00298 00298	
SUBHEAD	00133	000003F0	00298	00168 00169 00174 00175	
SUBHWORK	00132	000003F1	00297	00155 00158 00161 00162 00162 00162 00163 00173	
TPODA1A	00008	00000017	00877	00850 00850 00851 00851 00852 00852	
TPODA1B	00008	00000020	00878	00853 00853 00854 00854 00855 00855	
TPODA2A	00008	0000002A	00879	00856 00856 00857 00857 00858 00858	
TPODA2B	00008	00000033	00880	00860 00860 00861 00861 00862 00862	
TPOMOD	00008	000000003	00875	00848 00848	
TPOTID	00008	00000000D	00876	00849 00849	
TRACEPEN	00004	00000662	00872	00835 00844 00867	
TRACEPIN	00004	00000646	00865	00843 00847	
TRACEPPR	00004	000005E2	00846	00869 00871	
TRACESHD	00027	00000668	00881	00837 00837 00838	
TRACE010	00002	00000580	00806	00804	
TRACE020	00002	000005A8	00815	00799	
TRCESAVE	00004	00000808	00983	00719 00755 00757 00797 00816 00833 00872	
TRCURR	00004	000000D4	00520	00798 00807 00842 00866	
TRDATA1	00008	000000E0	00523	00811 00813 00813	
TRDATA2	00008	000000E8	00524	00812 00814 00814	
TREDATA1	00008	00000010	01045	00811 00850 00853	
TREDATA2	00008	00000018	01046	00812 00856 00859	
TREID	00008	00000008	01044	00810 00849	
TREMOD	00008	00000000	01043	00809 00846 00848	
TRENTY	00001	00000000	01042	00796 00845 00864 00864 01047	
TRENTYRL	00001	00000020	01047	00802 00864 00865	
TRLAST	00004	000000CC	00518	00803 00868	
TRIST	00004	000000C4	00516	00805 00870	

SYMBOL

LEN

VALUE

DEFN

REFERENCES

ASM 0201 00.48 07/11/18

=X'00FFFFFF'

00004 000005E8 00435 00368

=A(32760)

00004 000005EC 00436 00398

=A(4096)

00004 000005F0 00437 00402

=P'20'

00002 000005F4 00438 00134

=P'2'

00001 000005F6 00439 00171

=P'1'

00001 000005F7 00440 00177

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	328
TOTAL RECORDS READ FROM SYSTEM LIBRARY	7052
TOTAL RECORDS PUNCHED	31
TOTAL RECORDS PRINTED	769

ASM 0201 00.48 07/11/18

```
DISASMPU    SD    0001 000000 000394
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISASMPU - PUNCH MODULE	00040000
				5 *	ADDED 2010-02-15 FROM DISASMPR CODE	00050000
				6 *	FUNCTION:	00060000
				7 *	DISASM WAS WRITTEN IN MULTIPLE CSECTS TO KEEP ANY ONE MODULE FROM	00070000
				8 *	BEING EXCESSIVELY LARGE AND AVOID SOME BASE REGISTER CONCERNS DUE	00080000
				9 *	TO SIZE, AND TO FUNCTIONALLY DIVIDE UP THE OVER-ALL LOGIC. SINCE	00090000
				10 *	PUNCHING IS DONE IN MULTIPLE MODULES (DISASM09, DISASM13) THE	00100000
				11 *	CODE WAS MOVED TO A SEPARATE MODULE (FROM DISASM09).	00110000
				12 *		00120000
				13 *	THE INTERFACE BLOCK IS PUNBLOK (HERE REFERENCED AS PRMBLOK)	00130000
				14 *		00140000
				15 *	-----*	00150000
				16	COPY DISASMGB	00160000
				17 *	-----*	00010000
				18 *		00020000
				19 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				20 *		00040000
				21 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				22 *		00060000
				23 *	-----*	00070000
				24	GBLA &TRNBRG,&MAXL,&MINL	00080000
				25	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				26	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				27	DISOPT COMLIST=OFF, ASSEMBLER'S NAME +00110000	
					DALIST=OFF, DON'T PRINT DATA AREA +00120000	
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE +00130000	
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10 +00140000	
					TRACE=ON, GENERATE TRACE +00150000	
					TRNBR=1000 1000 TRACE ENTRIES 00160000	
				28	DISASMPU MODHEAD , ENTRY HOUSEKEEPING GP99140	00170000
000000				29+	DISASMPU START 0	00070000
000000	47F0 F064	00064		30+	B MODENT-DISASMPU(,R15) BRANCH AROUND	00100000
000004	17			31+	DC AL1(L'MODHEAD)	00110000
000005	C4C9E2C1E2D4D7E4			32+	MODHEAD DC C'DISASMPU 07/11/18 00.48'	00120000
00001C	0000000000000000			33+	MODSAVE DC 18A(0) SAVE AREA	00130000
000064	90EC D00C	0000C		34+	MODENT STM R14,R12,12(R13) SAVE CALLER'S REGISTERS	00140000
000068	18CF			35+	LR R12,R15 MAKE FIRST OR ONLY BASE	00150000
		00000		36+	USING DISASMPU,R12	00330000
		00000		37+	USING DISASM00,R11	00360000
00006A	41E0 C01C	0001C		38+	LA R14,MODSAVE GET LOCAL SAVE AREA	00370000
00006E	50E0 D008	00008		39+	ST R14,8(,R13) CHAIN DOWN	00380000
000072	50D0 E004	00004		40+	ST R13,4(,R14) CHAIN UP	00390000
000076	18DE			41+	LR R13,R14 NEW SAVE AREA	00400000
000078	18A1			42	LR R10,R1 COPY PARM BLOCK ADDRESS	00180000
		00000		43	USING PRMBLOK,R10 DEFINE PARAMETER BLOCK BASE	00190000
00007A	95C3 A000	00000		44	CLI PRMCMD,\$PRMCLS CLOSE FILES? GP99138	00200000
00007E	4780 C0D6	000D6		45	BE PRT0300 YES	00210000
000082	9110 C248	00248		46	TM DCBOFLGS-IHADCB+DISPUNCH,DCBOFOPN IS PUNCH FILE OPEN?	00220000
000086	4710 C0BE	000BE		47	BO PRT0010 YES	00230000
				48	DEVTYPE DISPUNCH+DCBDDNAM-IHADCB,LINWORK GP10047	00240000
00008A	4110 C240	00240		49+	LA 1,DISPUNCH+DCBDDNAM-IHADCB LOAD PARAMETER REG 1	01900002
00008E	4100 C210	00210		50+	LA 0,LINWORK LOAD PARAMETER REG 0	02500002
000092	0A18			51+	SVC 24	00180000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000094	D203	C278	C210	00278	00210	52	MVC MAXLRECL,LINEWORK	COPY INFO FOR OPEN GP10047 00250000
						53	OPEN (DISPUNCH,OUTPUT)	OPEN DISPUNCH 00260000
00009A	0700					54+	CNOP 0,4	ALIGN LIST TO FULLWORD 01740001
00009C	4510	C0A4		000A4		55+	BAL 1,*+8	LOAD REG1 W/LIST ADDR. 01780000
0000A0	8F					56+	DC AL1(143)	OPTION BYTE 01900000
0000A1	000218					57+	DC AL3(DISPUNCH)	DCB ADDRESS 01920000
0000A4	0A13					58+	SVC 19	ISSUE OPEN SVC 04000000
0000A6	9110	C248		00248		59	TM DCBOFLGS-IHADCB+DISPUNCH,DCBOFOPN	IS IT OPEN NOW? 00270000
0000AA	4710	C0BE		000BE		60	BO PRT0010	YES GP99138 00280000
						61	ABEND 1440,DUMP OOPS?	GP99138 00290000
0000AE						62+	DS OH	00400002
0000AE	4110	05A0		005A0		63+	LA 1,1440	LOAD PARAMETER REG 1 01900002
0000B2	4100	0080		00080		64+	LA 0,128(0,0)	PICK UP DUMP/STEP/DUMPOPTS YM1995 01800002
0000B6	8900	0018		00018		65+	SLL 0,24(0)	SHIFT TO HIGH ORDER 01850002
0000BA	1610					66+	OR 1,0	OR IN WITH COMPCODE 01900002
0000BC	0A0D					67+	SVC 13	LINK TO ABEND ROUTINE 02050002
						69 *	-----	* 00310000
						70 *	PROCESS SINGLE PUNCH LINE	* 00320000
						71 *	-----	* 00330000
0000BE						72	PRT0010 DS OH	00340000
0000BE	9240	A001		00001		73	MVI PRMCC,C' '	CHANGE UNKNOWN TO SINGLE GP99132 00350000
0000C2	4100	0051		00051		74	LA R0,L'PRMCC+L'PRMDATA	GP10047 00360000
0000C6	4110	A001		00001		75	LA R1,PRMCC	PUNCH LINE W/CC GP10047 00370000
0000CA	45E0	C128		00128		76	BAL R14,MSG#PUT	PUNCH GP10047 00380000
0000CE	9240	A001		00001		77	MVI PRMCC,C' '	INITIALIZE PUNCH LINE GP10047 00390000
0000D2	47F0	C11C		0011C		78	B PRT9900	EXIT 00400000
						80 *	-----	* 00420000
						81 *	CLOSE PUNCHER	* 00430000
						82 *	-----	* 00440000
0000D6	9110	C248		00248		83	PRT0300 TM DCBOFLGS-IHADCB+DISPUNCH,DCBOFOPN	PUNCHER OPEN? 00450000
0000DA	47E0	C11C		0011C		84	BNO PRT9900	NO.. EXIT 00460000
						85	CLOSE DISPUNCH	CLOSE PUNCHER 00470000
0000DE	0700					86+	CNOP 0,4	ALIGN LIST TO FULLWORD 02420002
0000E0	4510	C0E8		000E8		87+	BAL 1,*+8	LOAD REG1 W/LIST ADDR 02460002
0000E4	80					88+	DC AL1(128)	OPTION BYTE 02580000
0000E5	000218					89+	DC AL3(DISPUNCH)	DCB ADDRESS 02600000
0000E8	0A14					90+	SVC 20	ISSUE CLOSE SVC 01640000
						91	FREPOOL DISPUNCH	AAND RELEASE BUFFERS GP10047 00480000
0000EA	4110	C218		00218		92+	LA 1,DISPUNCH	LOAD PARAMETER REG 1 01900002
0000EE	58F0	1014		00014		93+	L 15,20(0,1)	LOAD BUFCB ADDRESS 00100000
0000F2	9601	1017		00017		94+	OI 23(1),1	INDICATE NO BUFCB ADDR 00150000
0000F6	1BEE					95+	SR 14,14	CLEAR REGISTER 00200000
0000F8	1B11					96+	SR 1,1	CLEAR REGISTER @ZA79785 00225000
0000FA	BF13	F006		00006		97+	ICM 1,3,6(15)	LOAD LENGTH OF BUFFERS @ZA86199 00275000
0000FE	43E0	F005		00005		98+	IC 14,5(0,15)	NUMBER OF BUFFERS @ZA79785 00325000
000102	1C0E					99+	MR 0,14	AREA TO BE FREED @ZA79785 00350000
000104	4110	1008		00008		100+	LA 1,8(0,1)	ACCOUNT FOR BCB @ZA86199 00375000
000108	9140	F004		00004		101+	TM 4(15),X'40'	IS BUFCB 16 BYTES @ZA19719 00400000
00010C	47E0	C114		00114		102+	BNO *+8	BRANCH IF BUFCB = 8 BYTES 00430000
000110	4110	1008		00008		103+	LA 1,8(0,1)	ADJUST SIZE PLUS 8 @ZA87508 00460000
000114	1801					104+	LR 0,1	LOAD LENGTH TO BE FREED @ZA86199 00505000
000116	4110	F000		00000		105+	LA 1,0(0,15)	LOAD AREA ADDRESS 00550000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00011A	0A0A				106+	SVC	10	ISSUE FREEMAIN SVC 00600000
					108	*	-----	* 00500000
					109	*	EXIT	* 00510000
					110	*	-----	* 00520000
00011C					111	PRT9900	DS OH	00530000
00011C	58D0	D004	00004		112	L	R13,4(,R13) RESTORE REGISTER 13	00540000
000120	98EC	D00C	0000C		113	LM	R14,R12,12(R13) RESTORE ALL OTHER REGISTERS	00550000
000124	1BFF				114	SR	R15,R15 GIVE GOOD RETURN CODE	00560000
000126	07FE				115	BR	R14 RETURN TO CALLER	00570000
					117	*	-----	* 00600000
					118	*	PUNCH PROCESSING ROUTINE	* 00610000
					119	*	-----	* 00620000
					120		PUSH USING GP10047	00630000
000128	900F	C1CC	001CC		121	MSG#PUT	STM R0,R15,MRSAVE GP10047	00640000
00012C	4180	C218	00218		122	LA	R8,DISPUNCH GP10047	00650000
				00000	123	USING	IHADCB,R8 GP10047	00660000
000130	9110	8030	00030		124	TM	DCBOFLGS,DCBOFOPN GP10047	00670000
000134	47E0	C1C4	001C4		125	BNO	MRRET RETURN IF NO MESSAGE FILE GP10047	00680000
000138	1841				126	MRTEST	LR R4,R1 PASSED TEXT ADDRESS GP10047	00690000
00013A	1250				127	LTR	R5,R0 AND LENGTH GP10047	00700000
00013C	47D0	C1C4	001C4		128	BNP	MRRET GP10047	00710000
000140	9106	8024	00024		129	TM	DCBRECFM,DCBRECCA+DCBRECCM GP10047	00720000
000144	4770	C152	00152		130	BNZ	MRTESTCC GP10047	00730000
000148	0650				131	BCTR	R5,0 ADJUST LENGTH SANS CC GP10047	00740000
00014A	4140	4001	00001		132	LA	R4,1(,R4) SKIP OVER CC GP10047	00750000
00014E	47F0	C15E	0015E		133	B	MRTESTNC GP10047	00760000
000152	9104	8024	00024		134	MRTESTCC	TM DCBRECFM,DCBRECCA GP10047	00770000
000156	4710	C15E	0015E		135	BO	MRTESTNC GP10047	00780000
00015A	9209	4000	00000		136	MVI	0(R4),X'09' ***** SINGLE SPACE ***** GP10047	00790000
00015E	91C0	8024	00024		137	MRTESTNC	TM DCBRECFM,DCBRECU GP10047	00800000
000162	4710	C16E	0016E		138	BO	MRU GP10047	00810000
000166	9180	8024	00024		139	TM	DCBRECFM,DCBRECF GP10047	00820000
00016A	4710	C1B8	001B8		140	BO	MRU GP10047	00830000
00016E	4950	803E	0003E		141	MRU	CH R5,DCBBLKSI GP10047	00840000
000172	47D0	C17A	0017A		142	BNH	*+8 GP10047	00850000
000176	4850	803E	0003E		143	LH	R5,DCBBLKSI GP10047	00860000
00017A	9108	802B	0002B		144	TM	DCBMACF2,DCBMRLCP LOCATE MODE? GP10047	00870000
00017E	4780	C1B4	001B4		145	BZ	MRULEN GP10047	00880000
000182	5950	8060	00060		146	C	R5,MAXLRECL-DISPUNCH(,R8) FITS? GP10047	00890000
000186	47D0	C18E	0018E		147	BNH	*+8 YES GP10047	00900000
00018A	5850	8060	00060		148	L	R5,MAXLRECL-DISPUNCH(,R8) TRUNCATE GP10047	00910000
00018E	4130	5004	00004		149	LA	R3,4(,R5) DATA + RDW LENGTH GP10047	00920000
000192	4030	8052	00052		150	STH	R3,DCBLRECL GP10047	00930000
					151	PUT	IHADCB GET A RECORD GP10047	00940000
000196	4110	8000	00000		152+	LA	1,IHADCB LOAD PARAMETER REG 1 01900002	
00019A	58F0	1030	00030		153+	L	15,48(0,1) LOAD PUT ROUTINE ADDR 00550000	
00019E	05EF				154+	BALR	14,15 LINK TO PUT ROUTINE 00600000	
0001A0	8930	0010	00010		155	SLL	R3,16 GP10047	00950000
0001A4	BE3F	1000	00000		156	STCM	R3,15,0(R1) BUILD RDW GP10047	00960000
0001A8	4100	1004	00004		157	LA	R0,4(,R1) GP10047	00970000
0001AC	1815				158	LR	R1,R5 GP10047	00980000
0001AE	0E04				159	MVCL	R0,R4 MOVE DATA TO BUFFER GP10047	00990000

DAPU		DISASMPU PUNCH MODULE										PAGE	5
LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18					
0001B0	47F0	C1C4	001C4		160	B	MRRET			GP10047	01000000		
0001B4	4050	8052	00052		161	MRULEN	STH R5,DCBLRECL			GP10047	01010000		
0001B8	1804				162	MRF	LR R0,R4	RECORD ADDRESS		GP10047	01020000		
					163	PUT	IHADCB,(0)			GP10047	01030000		
0001BA	4110	8000	00000		164+	LA	1,IHADCB	LOAD PARAMETER	REG 1		01900002		
0001BE	58F0	1030	00030		165+	L	15,48(0,1)	LOAD PUT ROUTINE ADDR			00550000		
0001C2	05EF				166+	BALR	14,15	LINK TO PUT ROUTINE			00600000		
0001C4	980F	C1CC	001CC		167	MRRET	LM R0,R15,MRSAVE			GP10047	01040000		
0001C8	07FE				168	BR	R14			GP10047	01050000		
0001CA	0000												
0001CC	0000000000000000				169	MRSAVE	DC 16A(0)			GP10047	01060000		
					170	POP	USING			GP10047	01070000		
					172	*	-----		*		01090000		
					173	*			*		01100000		
					174	*	WORK AREAS		*		01110000		
					175	*			*		01120000		
					176	*	-----		*		01130000		
00020C	00000000												
000210	0000000000000000C				178	LINEWORK	DC OD'0',PL8'0'	LINES ADDED BY THIS I/O		GP10047	01150000		
					180	DISPUNCH	DCB DDNAME=DISPUNCH,DSORG=PS,MACRF=PM,EXLST=EXLSTPUN			GP10047	01330000		
					182+*		DATA CONTROL BLOCK				22770000		
					183+*						22860000		
000218					184+	DISPUNCH	DC OF'0'	ORIGIN ON WORD BOUNDARY			22914000		
					186+*		DIRECT ACCESS DEVICE INTERFACE				27360000		
000218	0000000000000000				188+	DC	BL16'0'	FDAD,DVTBL			27540000		
000228	00000000				189+	DC	A(0)	KEYLE,DEVT,TRBAL			27720000		
					191+*		COMMON ACCESS METHOD INTERFACE				48690000		
00022C	00				193+	DC	AL1(0)	BUFNO			49050000		
00022D	000001				194+	DC	AL3(1)	BUFCB			54720000		
000230	0000				195+	DC	AL2(0)	BUFL			55170000		
000232	4000				196+	DC	BL2'0100000000000000'				*55800000		
					+			DSORG			55890000		
000234	00000001				197+	DC	A(1)	IOBAD			56340000		
					199+*		FOUNDATION EXTENSION				56610000		
000238	00				201+	DC	BL1'00000000'	BFTEK,BFLN,HIARCHY			59850000		
000239	000001				202+	DC	AL3(1)	EODAD			65970000		
00023C	00				203+	DC	BL1'00000000'				*66150000		
					+			RECFM			66240000		
00023D	00027C				204+	DC	AL3(EXLSTPUN)	EXLST			66330000		
					206+*		FOUNDATION BLOCK				66690000		
000240	C4C9E2D7E4D5C3C8				208+	DC	CL8'DISPUNCH'	DDNAME			66870000		
000248	02				209+	DC	BL1'00000010'	OFLGS			68220000		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000249	00				210+	DC	BL1'00000000'	IFLG 68310000
00024A	0050				211+	DC	BL2'0000000001010000'	*68400000
					+			*68490000
					+		MACR	68580000
					213+*		BSAM-BPAM-QSAM INTERFACE	74430000
00024C	00				215+	DC	BL1'00000000'	*74610000
					+			RER1 74700000
00024D	000001				216+	DC	AL3(1)	CHECK, GERR, PERR 74790000
000250	00000001				217+	DC	A(1)	SYNAD 74880000
000254	0000				218+	DC	H'0'	CIND1, CIND2 74970000
000256	0000				219+	DC	AL2(0)	BLKSIZE 75240000
000258	00000000				220+	DC	F'0'	WCPO, WCPL, OFFSR, OFFSW 75870000
00025C	00000001				221+	DC	A(1)	IOBA 75960000
000260	00				222+	DC	AL1(0)	NCP 76050000
000261	000001				223+	DC	AL3(1)	EOBR, EOBAD 76140000
					225+*		QSAM INTERFACE	81450000
000264	00000001				227+	DC	A(1)	RECAD 81630000
000268	0000				228+	DC	H'0'	QSWs 81810000
00026A	0000				229+	DC	AL2(0)	LRECL 80730000
00026C	00				230+	DC	BL1'00000000'	EROPT 82530000
00026D	000001				231+	DC	AL3(1)	CNTRL 82620000
000270	00000000				232+	DC	F'0'	PRECL 82710000
000274	00000001				233+	DC	A(1)	EOB 82800000
000278	00000000				234	MAXLRECL DC	F'0'	LRECL AFTER OPEN; DEVTYPE BEFORE GP10047 01340000
00027C	85000280				235	EXLSTPUN DC	0A(0),X'85',AL3(PUNEXIT)	GP10047 01350000
					237	*-----*		* 01370000
					238	*		* 01380000
					239	* DCB OPEN EXIT FOR OUTPUT PUNCHING:		* 01390000
					240	* DEFAULT TO FB,80,800 USING MOVE MODE		* 01400000
					241	* IF OUTPUT IS V, CHANGE TO LOCATE MODE		* 01410000
					242	*		* 01420000
					243	*-----*		* 01430000
					244	PUSH USING		GP10047 01440000
					245	DROP ,		GP10047 01450000
			00280		246	USING PUNEXIT,R15		GP10047 01460000
			00000		247	USING IHADCB,R1		GP10047 01470000
000280	5410 F108		00388		248	PUNEXIT N	R1,=X'00FFFFFF' KILL OPEN FLAGS	GP10047 01480000
000284	1B22				249	SR	R2,R2 CLEAR FOR DIVIDE	GP10047 01490000
000286	1B33				250	SR	R3,R3 BLOCK SIZE	GP10047 01500000
000288	1B44				251	SR	R4,R4 RECORD LENGTH	GP10047 01510000
00028A	BF43 1052		00052		252	ICM	R4,3,DCBLRECL LOAD RECORD LENGTH	GP10047 01520000
00028E	BF33 103E		0003E		253	ICM	R3,3,DCBBLKSI LOAD BLOCK SIZE	GP10047 01530000
000292	91E0 1024		00024		254	TM	DCBRECFM,DCBRECLA ANY RECORD FORMAT ?	GP10047 01540000
000296	4770 F01E		0029E		255	BNZ	PUNEXITR YES; KEEP	GP10047 01550000
00029A	9694 1024		00024		256	OI	DCBRECFM,DCBRECF+DCBRECBR+DCBRECCA DEFAULT FBA	GP10047 01560000
00029E	9250 102B		0002B		257	PUNEXITR MVI	DCBMACF2,DCBMRPUT+DCBMRMVP SET MOVE MODE	GP10047 01570000
0002A2	9180 1024		00024		258	TM	DCBRECFM,DCBRECF IS IT F OR U VS. V OR D?	GP10047 01580000
0002A6	4770 F02E		002AE		259	BNZ	PUNEXITM YES; USE MOVE MODE	GP10047 01590000
0002AA	9248 102B		0002B		260	MVI	DCBMACF2,DCBMRPUT+DCBMRLCP SET LOCATE	GP10047 01600000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
0002AE	1244				261	PUNEXITM	LTR R4,R4	ANY RECORD LENGTH ?	GP10047	01610000	
0002B0	4770	F050	002D0		262		BNZ PUNEXITL	YES	GP10047	01620000	
0002B4	4140	0050	00050		263		LA R4,80	SET DEFAULT TEXT LENGTH	GP10047	01630000	
0002B8	9180	1024	00024		264		TM DCBRECFCM,DCBRECFC	U OR F?	GP10047	01640000	
0002BC	4770	F044	002C4		265		BNZ *+8	YES	GP10047	01650000	
0002C0	4140	4004	00004		266		LA R4,4(,R4)	ALLOW FOR RDW	GP10047	01660000	
0002C4	9106	1024	00024		267		TM DCBRECFCM,DCBRECCC	CARRIAGE CONTROL ?	GP10047	01670000	
0002C8	4780	F050	002D0		268		BZ PUNEXITL	NO	GP10047	01680000	
0002CC	4140	4001	00001		269		LA R4,1(,R4)	ALLOW FOR IT	GP10047	01690000	
0002D0	1233				270	PUNEXITL	LTR R3,R3	ANY BLOCKSIZE?	GP10047	01700000	
0002D2	4770	F0AC	0032C		271		BNZ PUNEXITB	YES; CHECK LRECL IF F	GP10047	01710000	
0002D6	9520	1062	00062		272		CLI MAXLRECL-DISPUNCH+2(R1),X'20'	DASD OUTPUT?	GP10047	01720000	
0002DA	4780	F086	00306		273		BE PUNBLKDA	YES; USE TABLE	GP10047	01730000	
0002DE	9508	1062	00062		274		CLI MAXLRECL-DISPUNCH+2(R1),X'08'	UNIT REC OUTPUT?	GP10047	01740000	
0002E2	4780	F076	002F6		275		BE PUNBLKUR	YES; UNBLOCKED	GP10047	01750000	
0002E6	9501	1062	00062		276		CLI MAXLRECL-DISPUNCH+2(R1),X'01'	SPOOL OUTPUT?	GP10047	01760000	
0002EA	4780	F07E	002FE		277		BE PUNBLKSP	YES; USE 4K	GP10047	01770000	
0002EE	5830	F10C	0038C		278		L R3,=A(32760)	ELSE USE MAX ALLOWED	GP10047	01780000	
0002F2	47F0	F0AC	0032C		279		B PUNEXITB		GP10047	01790000	
0002F6	4130	4004	00004		280	PUNBLKUR	LA R3,4(,R4)	USE RECORD LENGTH	GP10047	01800000	
0002FA	47F0	F0AC	0032C		281		B PUNEXITB		GP10047	01810000	
0002FE	5830	F110	00390		282	PUNBLKSP	L R3,=A(4096)	USE ONE PAGE FOR SPOOLING	GP10047	01820000	
000302	47F0	F0AC	0032C		283		B PUNEXITB		GP10047	01830000	
000306	1B66				284	PUNBLKDA	SR R6,R6	CLEAR FOR IC	GP10047	01840000	
000308	91F0	1063	00063		285		TM MAXLRECL-DISPUNCH+3(R1),X'F0'	FUNNIES?	GP10047	01850000	
00030C	4770	F0A8	00328		286		BNZ PUNBLK10	YES; USE ARBITRARY VALUE	GP10047	01860000	
000310	BF61	1063	00063		287		ICM R6,1,MAXLRECL-DISPUNCH+3(R1)		GP10047	01870000	
000314	47D0	F0A8	00328		288		BNP PUNBLK10	USE ARBITRARY VALUE	GP10047	01880000	
000318	8960	0001	00001		289		SLL R6,1	CONVERT TO OFFSET	GP10047	01890000	
00031C	4166	F0E8	00368		290		LA R6,DASDSIZE-2(R6)	POINT TO MAXBLOCK	GP10047	01900000	
000320	BF43	6000	00000		291		ICM R4,3,0(R6)	GET BLOCK SIZE	GP10047	01910000	
000324	47F0	F0AC	0032C		292		B PUNEXITB		GP10047	01920000	
000328	4130	055E	0055E		293	PUNBLK10	LA R3,1374	ARBITRARY	GP10047	01930000	
00032C	9180	1024	00024		294	PUNEXITB	TM DCBRECFCM,DCBRECFC	F OR U ?	GP10047	01940000	
000330	4780	F0CE	0034E		295		BZ PUNEXITV	NO; V OR D	GP10047	01950000	
000334	91C0	1024	00024		296		TM DCBRECFCM,DCBRECU	U?	GP10047	01960000	
000338	4710	F0DC	0035C		297		BO PUNEXITX	YES; KEEP IT	GP10047	01970000	
00033C	1D24				298		DR R2,R4	GET BLOCKING FACTOR	GP10047	01980000	
00033E	1233				299		LTR R3,R3	AT LEAST ONE ?	GP10047	01990000	
000340	4720	F0C8	00348		300		BP *+8	YES	GP10047	02000000	
000344	4130	0001	00001		301		LA R3,1	SET TO ONE	GP10047	02010000	
000348	1C24				302		MR R2,R4	GET NEW BLOCK SIZE	GP10047	02020000	
00034A	47F0	F0DC	0035C		303		B PUNEXITX	STASH BACK	GP10047	02030000	
00034E	4120	4004	00004		304	PUNEXITV	LA R2,4(,R4)	LRECL+4	GP10047	02040000	
000352	1923				305		CR R2,R3	COMPARE TO BLOCK	GP10047	02050000	
000354	47D0	F0DC	0035C		306		BNH PUNEXITX	OK	GP10047	02060000	
000358	9608	1024	00024		307		OI DCBRECFCM,DCBRECSB	NEED SPANNED OR LARGER BLOCK	GP10047	02070000	
00035C	4030	103E	0003E		308	PUNEXITX	STH R3,DCBBLKSI	SET NEW BLOCK SIZE	GP10047	02080000	
000360	4040	1052	00052		309		STH R4,DCBLRECL	AND RECORD LENGTH	GP10047	02090000	
000364	5040	1060	00060		310		ST R4,MAXLRECL-DISPUNCH(,R1)	SAVE FOR LOCATE MODE	GP10047	02100000	
000368	07FE				311		BR R14	AND RETURN TO OPEN	GP10047	02110000	
00036A	0E295003131C6D5E				312	DASDSIZE	DC H'3625,20483,4892,27998,6144,14136,14660,7294'	2311-2314	02120000		
00037A	32E620B04A7D44C0				313		DC H'13030,8368,19069,17600,13030,23476,27998'	3330-3390	02130000		
000388					314		LTORG ,		GP10047	02140000	
000388	00FFFFFF				315		=X'00FFFFFF'				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00038C	00007FF8			316	=A(32760)	
000390	00001000			317	=A(4096)	
				318	POP USING	GP10047 02150000
				320 *	-----	* 02170000
				321 *		* 02180000
				322 *	PUNCH MODULE INTERFACE BLOCK	* 02190000
				323 *		* 02200000
				324 *	-----	* 02210000
				325	PRMBLOK PUNBLOK TYPE=DSECT, PFX=PRM MAKE UNIQUE NAMES	GP99138 02220000
000000				326+	PRMBLOK DSECT	00150000
000000	00			327+	PRMCMD DC X'00' COMMAND	00170000
		000D7		328+	\$PRMPRT EQU C'P' .. PUNCH	00180000
		000D7		329+	\$PRMPUN EQU C'P' .. PUNCH	00190000
		000C3		330+	\$PRMCLS EQU C'C' .. CLOSE PRINT	00200000
000001	40			331+	PRMCC DC C' ' CARRIAGE CONTROL	00210000
000002	4040404040404040			332+	PRMDATA DC CL80' ' PRINT DATA	00220000
				334 *	-----	* 02240000
				335 *		* 02250000
				336 *	COMMON DATA MAP	* 02260000
				337 *		* 02270000
				338 *	-----	* 02280000
				339	DISASM00 DISASMCM TYPE=DSECT	02290000
				340+	PRINT OFF	00280000
				971+	PRINT ON	06440000
				972+*	-----	* 06460000
				973+*		* 06470000
				974+*	ABEND REASON CODES	* 06480000
				975+*		* 06490000
				976+*	-----	* 06500000
		00001		977+	ABEND001 EQU 1 REQUESTED VIA AN ABEND STATEMENT	06510000
		00002		978+	ABEND002 EQU 2 UNKNOWN RETURN CODE FROM BLDL	06520000
		00003		979+	ABEND003 EQU 3 UNKNOWN RLD ITEM TYPE	06530000
		00004		980+	ABEND004 EQU 4 RLD DATA REMAINING WENT NEGATIVE	06540000
		00005		981+	ABEND005 EQU 5 ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000		984+	R0 EQU 0	00070000
		00001		985+	R1 EQU 1	00080000
		00002		986+	R2 EQU 2	00090000
		00003		987+	R3 EQU 3	00100000
		00004		988+	R4 EQU 4	00110000
		00005		989+	R5 EQU 5	00120000
		00006		990+	R6 EQU 6	00130000
		00007		991+	R7 EQU 7	00140000
		00008		992+	R8 EQU 8	00150000
		00009		993+	R9 EQU 9	00160000
		0000A		994+	R10 EQU 10	00170000
		0000B		995+	R11 EQU 11	00180000
		0000C		996+	R12 EQU 12	00190000
		0000D		997+	R13 EQU 13	00200000
		0000E		998+	R14 EQU 14	00210000
		0000F		999+	R15 EQU 15	00220000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM	0201	00.48	07/11/18
				1001	PRINT NOGEN		GP99138		02300000
				1002	DCBD DEVD=DA,DSORG=PS		GP99138		02310000
000000				1560	END DISASMPU				02320000

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
\$OPMASK	00001	00000001	00966	00622															
\$PFTRC	00001	00000001	00474	00709	00711														
\$PRMCLS	00001	000000C3	00330	00044															
\$PRTPRT	00001	000000D7	00833	00819	00840														
\$PRTSUBH	00001	000000E2	00832	00715															
AQP	00004	000000AC	00380	00603															
APR	00004	000000B8	00382	00822															
APU	00004	000000BC	00383	00843															
BLKTRT	00001	00000A68	00880	00881	00883	00885	00887	00889	00891	00893	00895	00897	00899	00901	00903	00905			
COMMCLR	00004	000000F8	00409	00429	00433														
COMMMDWRD	00008	00000000	00347	00734	00735														
COMMFILL	00001	00000161	00450	00779															
COMMHXCH	00016	00000275	00499	00500															
COMMHXTR	00016	00000185	00500	00726	00729	00732	00736												
COMMNPRT	00001	000003C7	00555	00556	00558	00560	00562	00564	00566	00568	00570	00572	00574	00576	00578	00580			
COMMPOOL	00001	00000162	00451	00771	00786														
COMMPRT	00001	000002C7	00526	00527	00529	00531	00533	00535	00537	00539	00541	00543	00545	00547	00549				
COMMSUBH	00133	0000016D	00494	00712															
COMMSUBL	00002	00000154	00444	00713	00713	00714													
DASDSIZE	00002	0000036A	00312	00290															
DCBBIT0	00001	00000080	01024	01110	01118	01130	01153	01180	01182	01183	01185	01208	01211	01231	01235	01250	01287	01342	
				01373	01412	01416	01429	01529	01531	01541									
DCBBIT1	00001	00000040	01025	01111	01119	01132	01154	01155	01164	01180	01182	01184	01185	01213	01231	01233	01235	01253	
				01254	01255	01290	01291	01342	01375	01418	01420	01432	01476	01529	01533	01542			
DCBBIT2	00001	00000020	01026	01112	01120	01133	01134	01135	01154	01155	01159	01165	01180	01181	01186	01215	01236	01237	
				01258	01259	01260	01294	01295	01343	01380	01421	01437	01479	01482	01529	01543			
DCBBIT3	00001	00000010	01027	01113	01133	01135	01136	01154	01167	01187	01218	01236	01239	01262	01263	01264	01298	01299	
				01343	01382	01385	01387	01423	01438	01479	01483	01529							
DCBBIT4	00001	00000008	01028	01121	01168	01188	01219	01241	01246	01247	01267	01268	01302	01303	01305	01306	01344	01390	
				01439	01479	01484													
DCBBIT5	00001	00000004	01029	01122	01169	01191	01192	01221	01241	01243	01244	01247	01271	01273	01274	01275	01309	01310	
				01311	01312	01344	01392	01395	01425	01441	01474								
DCBBIT6	00001	00000002	01030	01114	01170	01171	01174	01191	01193	01222	01278	01279	01280	01281	01315	01316	01317	01318	
				01345	01398	01443	01485												
DCBBIT7	00001	00000001	01031	01115	01170	01172	01174	01195	01226	01283	01284	01321	01322	01324	01325	01401	01427	01444	
				01487															
DCBBLKSI	00002	0000003E	01446	00141	00143	00253	00308												
DCBDDNAM	00008	00000028	01205	00049															
DCBFDAD	00008	00000005	01051	01054															
DCBLRECL	00002	00000052	01511	00150	00161	00252	00309												
DCBMACF2	00001	0000002B	01339	00144	00257	00260													
DCBMRLCP	00001	00000008	01305	00144	00260														
DCBMRMVP	00001	00000010	01298	00257															
DCBMRPUT	00001	00000040	01290	00257	00260														
DCBOFLGS	00001	00000030	01207	00046	00059	00083	00124												
DCBOFOPN	00001	00000010	01218	00046	00059	00083	00124												
DCBRECBR	00001	00000010	01187	00256															
DCBRECCA	00001	00000004	01192	00129	00134	00256													
DCBRECCC	00001	00000006	01191	00267															
DCBRECCM	00001	00000002	01193	00129															
DCBRECF	00001	00000080	01183	00139	00256	00258	00264	00294											
DCBRECFM	00001	00000024	01179	00129	00134	00137	00139	00254	00256	00258	00264	00267	00294	00296	00307				
DCBRECLA	00001	000000E0	01180	00254															
DCBRECSB	00001	00000008	01188	00307															
DCBRECU	00001	000000C0	01185	00137	00296														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18															
DISASMPU	00001	00000000	00029	00030 00036 01560																
DISASM00	00001	00000000	00341	00037 00354 00593 00670 00707 00768 00804																
DISPUNCH	00004	00000218	00184	00046 00049 00057 00059 00083 00089 00092 00122 00146 00148 00272 00274 00276 00285 00287 00310																
EXGETOPC	00006	00000554	00634	00627																
EXLSTPUN	00004	0000027C	00235	00204																
GETOPEXT	00004	00000546	00630	00623																
GETOPLN	00001	0000055A	00635	00601																
GETOPNOT	00004	0000054E	00632	00606 00616 00621 00629																
GETOPTMK	00004	00000526	00622	00607																
GETOPWRK	00006	0000055E	00636	00626 00626 00628 00634																
HEXTRT	00001	00000868	00862	00863 00865 00867 00869 00871																
IHADCB	00001	00000000	01007	00046 00049 00059 00083 00123 00152 00164 00247 01092 01139 01204 01333 01348 01355 01368 01464 01470 01497 01520																
INTTRT	00001	00000968	00873	00874 00876 00878																
LINEWORK	00008	00000210	00178	00050 00052																
MAINRSV	00004	00000858	00860	00769 00775 00777 00781 00784 00790																
MAXLRECL	00004	00000278	00234	00052 00146 00148 00272 00274 00276 00285 00287 00310																
MODENT	00004	00000064	00034	00030																
MODHEAD	00023	00000005	00032	00031																
MODSAVE	00004	0000001C	00033	00038																
MRF	00002	000001B8	00162	00140																
MRRET	00004	000001C4	00167	00125 00128 00160																
MRSAVE	00004	000001CC	00169	00121 00167																
MRTESTCC	00004	00000152	00134	00130																
MRTESTNC	00004	0000015E	00137	00133 00135																
MRU	00004	0000016E	00141	00138																
MRULEN	00004	000001B4	00161	00145																
MSG#PUT	00004	00000128	00121	00076																
NBLTRT	00001	00000B68	00907	00908 00910																
OPDSECT	00001	00000000	00929	00604 00967																
OPFLAGS	00001	00000007	00958	00622																
OPFLAG1	00001	00000001	00931	00611																
OPFLAG2	00001	00000002	00932	00613																
OPFLAG3	00001	00000003	00933	00615																
OPMASK	00006	00000008	00968	00628																
OPMNEM	00006	00000000	00930	00931 00932 00933																
PRINTDAT	00004	000006F0	00820	00716																
PRINTFG1	00001	00000165	00467	00709 00711																
PRINTMVR	00006	000006E6	00817	00814																
PRINTREC	00004	000006EC	00819	00738 00816																
PRINTREX	00004	000006FE	00824	00808																
PRINTRSV	00004	00000848	00859	00805 00815 00820 00824 00841 00845																
PRMBLOK	00001	00000000	00326	00043																
PRMCC	00001	00000001	00331	00073 00074 00075 00077																
PRMCMD	00001	00000000	00327	00044																
PRMDATA	00080	00000002	00332	00074																
PRTBLOK	00001	0000070E	00829	00821																
PRTCC	00001	0000070F	00836	00825																
PRTCMD	00001	0000070E	00830	00715 00819 00840																
PRTDATA	00132	00000710	00837	00723 00724 00725 00726 00727 00728 00729 00730 00731 00732 00733 00735 00736 00737 00809 00817 00826 00826																
PRT0010	00002	000000BE	00072	00047 00060																
PRT0300	00004	000000D6	00083	00045																
PRT9900	00002	0000011C	00111	00078 00084																

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
PUNBLKDA	00002	00000306	00284	00273															
PUNBLKSP	00004	000002FE	00282	00277															
PUNBLKUR	00004	000002F6	00280	00275															
PUNBLK10	00004	00000328	00293	00286	00288														
PUNBLOK	00001	000007B2	00848	00842															
PUNDATA	00080	000007B4	00854	00839															
PUNEXIT	00004	00000280	00248	00235	00246														
PUNEXITB	00004	0000032C	00294	00271	00279	00281	00283	00292											
PUNEXITL	00002	000002D0	00270	00262	00268														
PUNEXITM	00002	000002AE	00261	00259															
PUNEXITR	00004	0000029E	00257	00255															
PUNEXITV	00004	0000034E	00304	00295															
PUNEXITX	00004	0000035C	00308	00297	00303	00306													
R0	00001	00000000	00984	00074	00121	00127	00157	00159	00162	00167	00594	00600	00600	00601	00624	00672	00691	00708	
				00747	00771	00776	00780	00786	00809	00810	00812	00815							
R1	00001	00000001	00985	00042	00075	00126	00156	00157	00158	00247	00248	00272	00274	00276	00285	00287	00310	00596	
				00610	00630	00632	00634	00671	00673	00677	00677	00678	00680	00682	00769	00775	00776	00777	
				00781	00805	00807	00817	00820	00821	00824	00839	00841	00842	00845					
R10	00001	0000000A	00994	00042	00043														
R11	00001	0000000B	00995	00037	00593	00670	00707	00768	00804										
R12	00001	0000000C	00996	00034	00035	00036	00113	00684											
R13	00001	0000000D	00997	00034	00039	00040	00041	00112	00112	00113									
R14	00001	0000000E	00998	00034	00038	00039	00040	00041	00076	00113	00115	00168	00311	00597	00598	00599	00601	00608	
				00608	00610	00612	00614	00615	00617	00617	00618	00619	00630	00631	00633	00685	00692	00716	
				00738	00748	00769	00780	00781	00782	00784	00790	00791	00805	00815	00820	00823	00824	00827	
				00841	00844	00845	00846												
R15	00001	0000000F	00999	00030	00035	00114	00114	00121	00167	00246	00594	00595	00595	00596	00598	00602	00603	00604	
				00605	00605	00619	00620	00620	00632	00672	00691	00708	00747	00778	00778	00779	00784	00790	
				00806	00806	00807	00810	00812	00813	00814	00822	00823	00843	00844					
R2	00001	00000002	00986	00249	00249	00298	00302	00304	00305	00609	00609	00611	00612	00613	00614				
R3	00001	00000003	00987	00149	00150	00155	00156	00250	00250	00253	00270	00270	00278	00280	00282	00293	00299	00299	
				00301	00305	00308													
R4	00001	00000004	00988	00126	00132	00132	00136	00159	00162	00251	00251	00252	00261	00261	00263	00266	00266	00269	
				00269	00280	00291	00298	00302	00304	00309	00310	00624	00625	00627					
R5	00001	00000005	00989	00127	00131	00141	00143	00146	00148	00149	00158	00161	00717	00720	00740	00740	00741	00743	
				00745															
R6	00001	00000006	00990	00284	00284	00287	00289	00290	00290	00291									
R8	00001	00000008	00992	00122	00123	00146	00148												
TPODA1A	00008	00000017	00752	00725	00725	00726	00726	00727	00727										
TPODA1B	00008	00000020	00753	00728	00728	00729	00729	00730	00730										
TPODA2A	00008	0000002A	00754	00731	00731	00732	00732	00733	00733										
TPODA2B	00008	00000033	00755	00735	00735	00736	00736	00737	00737										
TPOMOD	00008	00000003	00750	00723	00723														
TPOTID	00008	0000000D	00751	00724	00724														
TRACEPEN	00004	00000662	00747	00710	00719	00742													
TRACEPIN	00004	00000646	00740	00718	00722														
TRACEPPR	00004	000005E2	00721	00744	00746														
TRACESHD	00027	00000668	00756	00712	00712	00713													
TRACE010	00002	00000580	00681	00679															
TRACE020	00002	000005A8	00690	00674															
TRCESAVE	00004	00000808	00858	00594	00630	00632	00672	00691	00708	00747									
TRCURR	00004	000000D4	00395	00673	00682	00717	00741												
TRDATA1	00008	000000E0	00398	00686	00688	00688													
TRDATA2	00008	000000E8	00399	00687	00689	00689													
TREDATA1	00008	00000010	00920	00686	00725	00728													

[illegible]

[illegible]

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT	215
TOTAL RECORDS READ FROM SYSTEM LIBRARY	7052
TOTAL RECORDS PUNCHED	20
TOTAL RECORDS PRINTED	609

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISASM01	SD	0001	000000	000915		
DISASM00	ER	0002				
DISASMDT	ER	0003				
DISASMLS	ER	0004				
DISASM19	ER	0005				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
2					PUNCH ' ALIAS DISASM ' USE DISASMXA UNDER MVS/XA	GP05095 00020000
3	*				-----*	00030000
4	*					00040000
5	*				MODULE NAME: DISASM01	00050000
6	*					00060000
7	*				FUNCTION:	00070000
8	*				MAINLINE MODULE.	00080000
9	*					00090000
10	*				STEP	00100000
11	*				1. SET R11 TO ADDRESS OF DISASM00 (THE COMMON MODULE).	00110000
12	*				2. ACQUIRE STORAGE FOR THE TRACE TABLE AND INITIALIZE THE	00120000
13	*				CONTROL DATA IN DISASM00.	00130000
14	*				3. SCAN THE TIOT TO DETERMINE WHICH DDs ARE PRESENT.	00140000
15	*				4. VERIFY REQUIRED DD'S ARE PRESENT.	00150000
16	*				5. CALL THE PARAMETER READER MODULE, DISASM02.	00160000
17	*				6. CALL THE DEBUG MODULE, DISASMDB TO PRINT INTERNAL DATA.	00170000
18	*				7. IF ERRORS FROM DISASM02, PRINT MESSAGE, GO TO STEP 21.	00180000
19	*				8. CALL THE MODULE READER, DISASM03; MAY IN TURN CALL	00190000
20	*				DISASM13 (OBJECT DECK), DISASM04 (ESD), DISASM05 (RLD).	00200000
21	*				9. IF ERRORS FROM DISASM03, PRINT MESSAGE, GO TO STEP 21.	00210000
22	*				10. CALL DISASM06 TO APPLY VERIFY AND REPLACE STATEMENTS,	00220000
23	*				AND PRINT THE WANTED CSECTS TEXT IF REQUESTED OR VER FAILS	00230000
24	*				11. CALL THE DEBUG MODULE, DISASMDB TO PRINT INTERNAL DATA.	00240000
25	*				12. IF ERRORS FROM DISASM06, PRINT MESSAGE, GO TO STEP 21.	00250000
26	*				13. CALL ASSEMBLER INTERFACE MODULE, DISASM07 TO ASSEMBLE	00260000
27	*				DSECTS AND BUILD DSECT/DSECT LABEL CHAINS.	00270000
28	*				14. CALL THE DEBUG MODULE, DISASMDB TO PRINT INTERNAL DATA.	00280000
29	*				15. IF ERRORS FROM DISASM07, PRINT MESSAGE, GO TO STEP 21.	00290000
30	*				16. CALL MODULE DISASM08 TO BUILD THE INTERNAL LABELS AND	00300000
31	*				THE REFERENCE TABLE.	00310000
32	*				17. CALL THE DEBUG MODULE, DISASMDB TO PRINT INTERNAL DATA.	00320000
33	*				18. IF ERRORS FROM DISASM08, PRINT MESSAGE, GO TO STEP 21.	00330000
34	*				19. CALL THE SOURCE CODE GENERATOR, DISASM09.	00340000
35	*				20. IF ERRORS FROM DISASM09, PRINT MESSAGE.	00350000
36	*				21. FREE THE STORAGE FOR ALL INTERNAL CHAINS AND THE TRACE	00360000
37	*				TABLE.	00370000
38	*					00380000
39	*				-----*	00390000
40	*					00400000
41	*				CHANGES DATED 14.201 WERE MADE BY TOM ARMSTRONG AND GREG PRICE.	00410000
42	*				DISASM03 - FIXED SSI DISPLAY.	NNN14201* 00420000
43	*				DISASM09 - SHIFTED COLUMNS TO ALLOW REVOUT COLORISATION.	00430000
44	*				ADDED MISSING ESR SVC NAMES.	00440000
45	*					00450000
46	*				-----*	00460000
47					PUNCH ' ENTRY DISASM01 '	GP04234 00470000
48					PUNCH ' ORDER DISASM00(P),DISASM01,DISASM02,DISASM03'	GP04234 00480000
50					COPY DISASMGB COPY GLOBAL OPTIONS	00500000
51	*				-----*	00010000
52	*					00020000
53	*				GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
54	*					00040000
55	*				DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
56	*					00060000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18	
					57 *	-----	* 00070000	
					58	GBLA &TRNBRG,&MAXL,&MINL	00080000	
					59	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000	
					60	GBLC &TROPT,&DAPRT,&COMPRT	00100000	
					61	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000	
						DALIST=OFF, DON'T PRINT DATA AREA	+00120000	
						MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000	
						MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000	
						TRACE=ON, GENERATE TRACE	+00150000	
						TRNBR=1000 1000 TRACE ENTRIES	00160000	
					62	PRINT NOGEN SAVE A TREE	GP10083 00510000	
					63	DISASM01 MODHEAD LOADWK=YES ENTRY HOUSEKEEPING	GP99140 00520000	
					78 *	-----	* 00530000	
					79 *	INITIALIZE TRACE TABLE	* 00540000	
					80 *	-----	* 00550000	
					81	AIF ('&TROPT' EQ 'OFF').NOTR1	00560000	
00007C	5820	B0F0	000F0		82	L R2,TRSIZE TRACE TABLE'S SIZE	00570000	
000080	4100	2020	00020		83	LA R0,32(,R2) FOR BOUNDARY ROUNDING	GP99148 00580000	
000084	9258	B162	00162		84	MVI COMMPool,88 GET PERSISTENT STORAGE	GP10085 00590000	
000088	45E0	B684	00684		85	BAL R14,GETMAIN ACQUIRE STORAGE FOR TRACE TABLE	00600000	
00008C	9245	B162	00162		86	MVI COMMPool,69 RESET DEFAULT	GP10085 00610000	
000090	5010	B0D8	000D8		87	ST R1,TRADDR SAVE TRACE TABLE ADDRESS	00620000	
000094	4110	1020	00020		88	LA R1,32(,R1) PLUS 32	00630000	
000098	8810	0005	00005		89	SRL R1,5 ROUND THE ADDRESS TO...	00640000	
00009C	8910	0005	00005		90	SLL R1,5 ...NEAREST MULTIPLE OF 32	00650000	
0000A0	5010	B0C4	000C4		91	ST R1,TR1ST SET FIRST TRACE ENTRY ADDRESS	00660000	
0000A4	5010	B0D4	000D4		92	ST R1,TRCURR SET CURRENT TRACE ENTRY ADDRESS	00670000	
0000A8	5A10	B0F0	000F0		93	A R1,TRSIZE PLUS USED PORTION'S SIZE	00680000	
0000AC	4B10	B15C	0015C		94	SH R1,COMM32 MINUS 1 ENTRY	00690000	
0000B0	5010	B0CC	000CC		95	ST R1,TRLAST INITIALIZE LAST ENTRY ADDRESS	00700000	
					96	ITRACE ID=INIT, INITIAL TRACE ENTRY	+00710000	
						DATA1=TR1ST, .. FIRST TRACE TABLE ENTRY ADDR	+00720000	
						DATA2=TRLAST .. LAST TRACE TABLE ENTRY ADDR	00730000	
					103	.NOTR1 ANOP	00740000	
					104 *	-----	* 00750000	
					105 *	SCAN TIOT	* 00760000	
					106 *	-----	* 00770000	
			00000		107	USING PSA,R0 DEFINE BASE	00780000	
0000D4	5810	0218	00218		108	L R1,PSATNEW MY TCB'S ADDRESS	00790000	
			00020		109	USING TCB,R1 DEFINE TCB BASE	00800000	
0000D8	5820	100C	0002C		110	L R2,TCBTIO TIOT ADDRESS	00810000	
			00000		111	USING TIOT1,R2 DEFINE BASE	00820000	
0000DC	4130	2018	00018		112	LA R3,TIOENTRY FIRST TIOT ENTRY	00830000	
					113	DROP R2	00840000	
			00018		114	USING TIOENTRY,R3 DEFINE BASE	00850000	
0000E0	1B44				115	SR R4,R4 CLEAR FOR LENGTHS	00860000	
0000E2					116	MAIN0010 DS OH	00870000	
0000E2	BF41	3000	00018		117	ICM R4,1,TIOELNGH LENGTH OF THIS ENTRY	00880000	
0000E6	4780	C1D2	001D2		118	BZ MAIN0080 END OF TABLE	00890000	
0000EA	D507	3004	C518	0001C	00518	119	CLC TIOEDDNM,INDD DISIN DD?	00900000
0000F0	4780	C136	00136		120	BE MAIN0030 YES	00910000	
0000F4	D507	3004	C520	0001C	00520	121	CLC TIOEDDNM,PRTDD DISPRINT DD?	00920000
0000FA	4780	C14A	0014A		122	BE MAIN0040 YES	00930000	
0000FE	D507	3004	C528	0001C	00528	123	CLC TIOEDDNM,LIBDD DISMOD DD?	00940000
000104	4780	C15E	0015E		124	BE MAIN0050 YES	00950000	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000108	D507	3004 C540	0001C	00540	125		CLC TIOEDDNM,ADATADD	DISADATA DD? GP99166 00960000
00010E	4780	C172	00172		126		BE MAIN0055	YES GP99166 00970000
000112	D507	3004 C548	0001C	00548	127		CLC TIOEDDNM,LISTDD	DISLIST DD? GP99166 00980000
000118	4780	C18E	0018E		128		BE MAIN0056	YES GP99166 00990000
00011C	D507	3004 C530	0001C	00530	129		CLC TIOEDDNM,PUNCHDD	DISPUNCH DD? GP99166 01000000
000122	4780	C1AA	001AA		130		BE MAIN0060	YES 01010000
000126	D507	3004 C538	0001C	00538	131		CLC TIOEDDNM,DEBUGDD	DISDEBUG?? 01020000
00012C	4780	C1BE	001BE		132		BE MAIN0070	YES 01030000
000130					133	MAIN0020	DS OH	01040000
000130	1A34				134		AR R3,R4	NEXT TIOT ENTRY 01050000
000132	47F0	C0E2	000E2		135		B MAIN0010	LOOP 01060000
000136					136	MAIN0030	DS OH	01070000
					137		ITRACE ID=INDD	DISIN DD FOUND 01080000
000142	9640	B164	00164		140		OI COMMDD,\$INDD	INDICATE DISIN IS PRESENT 01090000
000146	47F0	C130	00130		141		B MAIN0020	01100000
00014A					142	MAIN0040	DS OH	01110000
					143		ITRACE ID=PRTDD	DISPRINT DD FOUND 01120000
000156	9680	B164	00164		146		OI COMMDD,\$PRTDD	INDICATE DISPRINT IS PRESENT 01130000
00015A	47F0	C130	00130		147		B MAIN0020	01140000
00015E					148	MAIN0050	DS OH	01150000
					149		ITRACE ID=MODDD	DISMOD DD FOUND 01160000
00016A	9620	B164	00164		152		OI COMMDD,\$MODDD	INDICATE DISMOD IS PRESENT 01170000
00016E	47F0	C130	00130		153		B MAIN0020	01180000
000172	BF07	3011	00029		154	MAIN0055	ICM R0,7,TIOEFSRT	DD DUMMY? GP99167 01190000
000176	4780	C130	00130		155		BZ MAIN0020	YES; IGNORE GP99167 01200000
					156		ITRACE ID=ADATADD	DISADATA DD FOUND GP99166 01210000
000186	9604	B164	00164		159		OI COMMDD,\$ADADD	INDICATE DISADATA PRESENT GP99166 01220000
00018A	47F0	C130	00130		160		B MAIN0020	GP99166 01230000
00018E	BF07	3011	00029		161	MAIN0056	ICM R0,7,TIOEFSRT	DD DUMMY? GP99167 01240000
000192	4780	C130	00130		162		BZ MAIN0020	YES; IGNORE GP99167 01250000
					163		ITRACE ID=LISTDD	DISLIST DD FOUND GP99166 01260000
0001A2	9602	B164	00164		166		OI COMMDD,\$LISTDD	INDICATE DISLIST PRESENT GP99166 01270000
0001A6	47F0	C130	00130		167		B MAIN0020	GP99166 01280000
0001AA					168	MAIN0060	DS OH	01290000
					169		ITRACE ID=PUNCHDD	DISPUNCH DD FOUND 01300000
0001B6	9610	B164	00164		172		OI COMMDD,\$PUNCHDD	INDICATE DISPUNCH IS PRESENT 01310000
0001BA	47F0	C130	00130		173		B MAIN0020	01320000
0001BE					174	MAIN0070	DS OH	01330000
					175		ITRACE ID=DEBUGDD	DISIN DD FOUND 01340000
0001CA	9608	B164	00164		178		OI COMMDD,\$DEBUGDD	INDICATE DISDEBUG IS PRESENT 01350000
0001CE	47F0	C130	00130		179		B MAIN0020	01360000
					180	*	-----	* 01370000
					181	*	DETERMINE DD'S PRESENT	* 01380000
					182	*	-----	* 01390000
0001D2					183	MAIN0080	DS OH	01400000
0001D2	9180	B164	00164		184		TM COMMDD,\$PRTDD	WAS PRINT DD FOUND? 01410000
0001D6	4710	C21E	0021E		185		BO MAIN0090	YES 01420000
					186		WTO 'DISPRINT DD STATEMENT MISSING, EXECUTION ABORTED'	01430000
000216	96C0	B163	00163		194		OI COMMFLAG,\$ABORT+\$ERROR	SET FLAGS 01440000
00021A	47F0	C46A	0046A		195		B EXIT0000	AND EXIT 01450000
00021E					196	MAIN0090	DS OH	01460000
00021E	92C8	B70E	0070E		197		MVI PRTCMD,\$PRTHEAD	SET COMMAND 01470000
000222	4110	B70E	0070E		198		LA R1,PRTBLOK	PRINT INTERFACE BLOCK ADDRESS 01480000
000226	58F0	B0B8	000B8		199		L R15,APR	PRINT MODULE ENTRY POINT 01490000
00022A	05EF				200		BALR R14,R15	LINK TO PRINT MODULE 01500000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00022C	9140	B164	00164		201	TM	COMMDD,\$INDD IS DISIN DD PRESENT?	01510000
000230	4710	C24A	0024A		202	BO	MAIN0100 YES	01520000
000234	9106	B164	00164		203	TM	COMMDD,\$ADADD+\$LISTDD ADATA OR LIST FUNCTION ?	GP99167 01530000
000238	4770	C24A	0024A		204	BNZ	MAIN0100 WORKS CORRECTLY WITHOUT OPTIONS	GP99167 01540000
00023C	D241	B710	C6A8 00710	006A8	205	MVC	PRTDATA(EMSG01L),EMSG01	01550000
000242	96C0	B163	00163		206	OI	COMMFLAG,\$ABORT+\$ERROR SET FLAGS	01560000
000246	45E0	B6EC	006EC		207	BAL	R14,PRINTREC PRINT MESSAGE	GP99138 01570000
00024A					208	MAIN0100 DS	OH	01580000
00024A	9120	B164	00164		209	TM	COMMDD,\$MODDD DISMOD DD PRESENT?	01590000
00024E	4710	C268	00268		210	BO	MAIN0110 YES	01600000
000252	9106	B164	00164		211	TM	COMMDD,\$LISTDD+\$ADADD CREATE SOURCE FROM ADATA/LIST?	01610000
000256	4770	C268	00268		212	BNZ	MAIN0110	GP99166 01620000
00025A	D242	B710	C6EA 00710	006EA	213	MVC	PRTDATA(EMSG02L),EMSG02	01630000
000260	96C0	B163	00163		214	OI	COMMFLAG,\$ABORT+\$ERROR SET FLAGS	01640000
000264	45E0	B6EC	006EC		215	BAL	R14,PRINTREC PRINT MESSAGE	GP99138 01650000
000268					216	MAIN0110 DS	OH	01660000
000268	9110	B164	00164		217	TM	COMMDD,\$PUNCHDD DISPUNCH DD PRESENT?	01670000
00026C	4710	C27A	0027A		218	BO	MAIN0120 YES	01680000
000270	D23E	B710	C5FF 00710	005FF	219	MVC	PRTDATA(MSG01L),MSG01 SET MESSAGE	01690000
000276	45E0	B6EC	006EC		220	BAL	R14,PRINTREC PRINT MESSAGE	GP99138 01700000
00027A					221	MAIN0120 DS	OH	01710000
00027A	9180	B163	00163		222	TM	COMMFLAG,\$ABORT ABORT FLAG SET?	01720000
00027E	4710	C452	00452		223	BO	EXITRCE YES, EXIT AFTER TRACE	GP99138 01730000
					224	*	-----	* 01740000
					225	*	CALL PARAMETER READER	* 01750000
					226	*	-----	* 01760000
000282	58F0	B028	00028		227	L	R15,A02 PARAMETER READER ENTRY POINT	01770000
000286	05EF				228	BALR	R14,R15 LINK TO PARAMETER CONVERTER	01780000
000288	D222	B1F2	C550 001F2	00550	229	MVC	COMMDBSH,A02SUB SET SUBHEADING	01790000
00028E	45A0	C45A	0045A		230	BAL	R10,DEBUG000 CALL DEBUG	01800000
000292	9180	B163	00163		231	TM	COMMFLAG,\$ABORT SERIOUS ERROR?	01810000
000296	47E0	C2AC	002AC		232	BNO	MAIN0122 NO	GP99166 01820000
00029A	92F0	B70F	0070F		233	MVI	PRTCC,C'0' DOUBLE-SPACE	GP99184 01830000
00029E	D23C	B710	C72D 00710	0072D	234	MVC	PRTDATA(EMSG03L),EMSG03 SET MESSAGE	01840000
0002A4	45E0	B6EC	006EC		235	BAL	R14,PRINTREC PRINT MESSAGE	GP99138 01850000
0002A8	47F0	C452	00452		236	B	EXITRCE AND EXIT	GP99138 01860000
					237	*	-----	* 01870000
					238	*	CALL SYSADATA PROCESSOR	* 01880000
					239	*	-----	* 01890000
0002AC	9104	B164	00164		240	MAIN0122 TM	COMMDD,\$ADADD WANTED?	GP99166 01900000
0002B0	4780	C2DA	002DA		241	BZ	MAIN0124 NO	GP99166 01910000
					242	ITRACE	ID=CALLADT TRACE LINK TO MODULE 03	GP99166 01920000
0002C0	58F0	C904	00904		245	L	R15,=V(DISASMDT) SYSADATA READER ENTRY POINT	01930000
0002C4	05EF				246	BALR	R14,R15 LINK TO MODULE READER	GP99166 01940000
0002C6	9180	B163	00163		247	TM	COMMFLAG,\$ABORT SERIOUS ERROR?	GP99166 01950000
0002CA	47E0	C42E	0042E		248	BNO	MAINDONE NO	GP99166 01960000
0002CE	4110	C7AB	007AB		249	LA	R1,EMSG04A	GP99166 01970000
0002D2	45E0	B6BE	006BE		250	BAL	R14,PRINTMSG PRINT MESSAGE	GP99166 01980000
0002D6	47F0	C452	00452		251	B	EXITRCE AND EXIT	GP99166 01990000
					252	*	-----	* 02000000
					253	*	CALL SYSPRINT PROCESSOR (READ FROM DISLIST)	* 02010000
					254	*	-----	* 02020000
0002DA	9102	B164	00164		255	MAIN0124 TM	COMMDD,\$LISTDD WANTED?	GP99166 02030000
0002DE	4780	C308	00308		256	BZ	MAIN0130 NO	GP99166 02040000
					257	ITRACE	ID=CALLALS TRACE LINK TO MODULE 03	GP99166 02050000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002EE	58F0	C908	00908		260	L	R15,=V(DISASMLS)	LISTING READER ENTRY POINT GP99166 02060000
0002F2	05EF				261	BALR	R14,R15	LINK TO MODULE READER GP99166 02070000
0002F4	9180	B163	00163		262	TM	COMMFLAG,\$ABORT	SERIOUS ERROR? GP99166 02080000
0002F8	47E0	C42E	0042E		263	BNO	MAINDONE	NO GP99166 02090000
0002FC	4110	C7DA	007DA		264	LA	R1,MSG04L	GP99166 02100000
000300	45E0	B6BE	006BE		265	BAL	R14,PRINTMSG	PRINT MESSAGE GP99166 02110000
000304	47F0	C452	00452		266	B	EXITRCE	AND EXIT GP99166 02120000
					267	*	-----	* 02130000
					268	*	CALL OBJECT MODULE READER	* 02140000
					269	*	-----	* 02150000
000308	5800	C90C	0090C		270	MAIN0130	L R0,=A(\$IOSIZE)	GP99140 02160000
00030C	BF08	C914	00914		271	ICM	R0,8,=A1(88)	GET PERSISTENT STORAGE GP10085 02170000
					272	GETMAIN	R,LV=(0) BSAM I/O AREA - BELOW THE LINE	GP99148 02180000
000316	5010	B0F4	000F4		276	ST	R1,COMMIO	SET ADDRESS IN COMM AREA 02190000
					277	ITRACE	ID=CALLA03	TRACE LINK TO MODULE 03 02200000
000326	58F0	B034	00034		280	L	R15,A03	MODULE READER ENTRY POINT 02210000
00032A	05EF				281	BALR	R14,R15	LINK TO MODULE READER 02220000
00032C	9180	B163	00163		282	TM	COMMFLAG,\$ABORT	SERIOUS ERROR? 02230000
000330	47E0	C340	00340		283	BNO	MAIND140	NO GP10025 02240000
000334	4110	C76A	0076A		284	LA	R1,MSG04	GP99166 02250000
000338	45E0	B6BE	006BE		285	BAL	R14,PRINTMSG	PRINT MESSAGE GP99166 02260000
00033C	47F0	C452	00452		286	B	EXITRCE	AND EXIT GP99138 02270000
					287	*	-----	* 02280000
					288	*	VALIDATE CONTROL BLOCK ADDRESSES AGAINST CSECT SIZE	* 02290000
					289	*	-----	* 02300000
000340	4120	B10C	0010C		290	MAIND140	LA R2,COMMDATA	POINT TO THE DATA CHAIN GP10025 02310000
			00000		291	USING	DATADSC,T2	GP10025 02320000
000344	1812				292	MAIND142	LR R1,R2	SAE PRIOR ADDRESS GP10025 02330000
000346	BF2F	2000	00000		293	MAIND143	ICM R2,15,DATANEXT	GET NEXT ELEMENT GP10025 02340000
00034A	4780	C376	00376		294	BZ	MAIN0140	ALL DONE GP10025 02350000
00034E	D503	201C	B124 0001C	00124	295	CLC	DATABEGN,COMMCSEA	BEGIN AFTER MODULE ? GP10025 02360000
000354	4740	C362	00362		296	BL	MAIND145	GP10025 02370000
000358	D203	1000	2000 00000	00000	297	MVC	DATANEXT-DATANEXT(4,R1),0(R2)	UNCHAIN GP10025 02380000
00035E	47F0	C346	00346		298	B	MAIND143	AND TRY NEXT ONE GP10025 02390000
000362	D503	2020	B124 00020	00124	299	MAIND145	CLC DATAEND,COMMCSEA	END AFTER MODULE ? GP10025 02400000
000368	47D0	C344	00344		300	BNH	MAIND142	OK GP10025 02410000
00036C	D203	2020	B124 00020	00124	301	MVC	DATANEXT,COMMCSEA	TRUNCATE GP10025 02420000
000372	47F0	C344	00344		302	B	MAIND142	AND CONTINUE GP10025 02430000
					303	DROP	R2	GP10025 02440000
					304	*	-----	* 02450000
					305	*	CALL OBJECT TEXT PRINTER; CHECK VER, APPLY REPS	* 02460000
					306	*	-----	* 02470000
000376					307	MAIN0140	DS OH	02480000
000376	58F0	B064	00064		308	L	R15,A06	MODULE TEXT PRINTER ENTRY POINT 02490000
00037A	05EF				309	BALR	R14,R15	LINK TO TEXT PRINTER 02500000
00037C	D222	B1F2	C573 001F2	00573	310	MVC	COMMDBSH,A06SUB	SET SUBHEADING 02510000
000382	45A0	C45A	0045A		311	BAL	R10,DEBUG000	CALL DEBUG 02520000
000386	9180	B163	00163		312	TM	COMMFLAG,\$ABORT	SERIOUS ERROR? 02530000
00038A	47E0	C39C	0039C		313	BNO	MAIN0150	NO 02540000
00038E	D230	B710	C808 00710	00808	314	MVC	PRTDATA(EMSG05L),EMSG05	SET MESSAGE 02550000
000394	45E0	B6EC	006EC		315	BAL	R14,PRINTREC	PRINT MESSAGE GP99138 02560000
000398	47F0	C452	00452		316	B	EXITRCE	AND EXIT GP99138 02570000
					317	*	-----	* 02580000
					318	*		* 02590000
					319	*	CALL THE ASSEMBLER INTERFACE TO ASSEMBLE DSECTS AND BUILD	* 02600000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
					320	*	THE DSECT/DSECT LABEL CHAINS.	* 02610000
					321	*		* 02620000
					322	*	-----	* 02630000
00039C	9108	B163	00163		323	MAIN0150	TM COMMFLAG,\$ASMIN ANY ASSEMBLER INPUT? \	02640000
0003A0	47E0	C3CA	003CA		324		BNO MAIN0160 NO; SKIP TRACE, ETC. \	02650000
0003A4	58F0	B070	00070		325		L R15,A07 DSECT INTERPRETER ENTRY POINT	02660000
0003A8	05EF				326		BALR R14,R15 LINK TO DSECT INTERPRETER	02670000
0003AA	D222	B1F2	C596	001F2	00596	327	MVC COMMDBSH,A07SUB SET SUBHEADING	02680000
0003B0	45A0	C45A	0045A		328		BAL R10,DEBUG000 CALL DEBUG	02690000
0003B4	9180	B163	00163		329		TM COMMFLAG,\$ABORT SERIOUS ERROR?	02700000
0003B8	47E0	C3CA	003CA		330		BNO MAIN0160 NO	02710000
0003BC	D23B	B710	C839	00710	00839	331	MVC PRTDATA(EMSG06L),EMSG06 SET MESSAGE	02720000
0003C2	45E0	B6EC	006EC		332		BAL R14,PRINTREC PRINT MESSAGE GP99138	02730000
0003C6	47F0	C452	00452		333		B EXITRCE AND EXIT GP99138	02740000
					334	*	-----	* 02750000
					335	*		* 02760000
					336	*	CALL INTERNAL LABEL AND REFERENCE TABLE GENERATOR.	* 02770000
					337	*		* 02780000
					338	*	-----	* 02790000
0003CA					339	MAIN0160	DS OH	02800000
					340		ITRACE ID=CALL08 CALLING LABEL TABLE GENERATOR	02810000
0003D6	58F0	B07C	0007C		343		L R15,A08 LABEL GENERATOR ENTRY POINT	02820000
0003DA	05EF				344		BALR R14,R15 LINK TO LABEL GENERATOR	02830000
0003DC	D222	B1F2	C5B9	001F2	005B9	345	MVC COMMDBSH,A08SUB SET SUBHEADING	02840000
0003E2	45A0	C45A	0045A		346		BAL R10,DEBUG000 CALL DEBUG	02850000
0003E6	9140	B163	00163		347		TM COMMFLAG,\$ERROR ANY ERRORS?	02860000
0003EA	47E0	C3FC	003FC		348		BNO MAIN0170 NO	02870000
0003EE	D240	B710	C875	00710	00875	349	MVC PRTDATA(EMSG07L),EMSG07	02880000
0003F4	45E0	B6EC	006EC		350		BAL R14,PRINTREC PRINT MESSAGE GP99138	02890000
0003F8	47F0	C452	00452		351		B EXITRCE AND EXIT GP99138	02900000
					352	*	-----	* 02910000
					353	*	PRODUCE SOURCE ON PRINT/PUNCH	* 02920000
					354	*	-----	* 02930000
0003FC					355	MAIN0170	DS OH	02940000
					356		ITRACE ID=CALL09 CALLING SOURCE GENERATOR	02950000
000408	58F0	B088	00088		359		L R15,A09 SOURCE GENERATOR ENTRY POINT	02960000
00040C	05EF				360		BALR R14,R15 LINK TO SOURCE GENERATOR	02970000
00040E	9140	B163	00163		361		TM COMMFLAG,\$ERROR ANY ERRORS?	02980000
000412	4710	C448	00448		362		BO MAIN0180 YES	02990000
000416	9120	B166	00166		363		TM PRINTFG2,\$PFXRF DOING CROSS-REFERENCE? GP99184	03000000
00041A	4780	C42E	0042E		364		BZ MAINDONE NO; FINISHED GP99184	03010000
					365	*	-----	* 03020000
					366	*	CROSS REFERENCE LISTING	* 03030000
					367	*	-----	* 03040000
00041E	D222	B1F2	C5DC	001F2	005DC	368	MVC COMMDBSH,A09SUB SET SUBHEADING GP99184	03050000
000424	45A0	C45A	0045A		369		BAL R10,DEBUG000 CALL DEBUG GP99184	03060000
000428	58F0	C910	00910		370		L R15,=V(DISASM19) GET CROSS-REFERENCE ROUTINE GP99184	03070000
00042C	05EF				371		BALR R14,R15 AND INVOKE IT GP99184	03080000
					372	MAINDONE	ITRACE ID=SUCCESS GP99166	03090000
00043A	D22E	B710	C679	00710	00679	375	MVC PRTDATA(MSG03L),MSG03 SET FINAL MESSAGE	03100000
000440	45E0	B6EC	006EC		376		BAL R14,PRINTREC PRINT FINAL MESSAGE GP99138	03110000
000444	47F0	C46A	0046A		377		B EXIT0000 AND EXIT	03120000
000448					378	MAIN0180	DS OH	03130000
000448	D23B	B710	C8B6	00710	008B6	379	MVC PRTDATA(EMSG08L),EMSG08	03140000
00044E	45E0	B6EC	006EC		380		BAL R14,PRINTREC PRINT MESSAGE GP99138	03150000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000452	45E0	B5B0	005B0		381	EXITTRCE	BAL R14,TRACEPRT PRINT TRACE TABLE	GP99138 03160000
000456	47F0	C46A	0046A		382	B	EXIT0000 AND EXIT	03170000
					383	*	-----	* 03180000
					384	*	LINK TO DEBUG MODULE	* 03190000
					385	*	-----	* 03200000
00045A					386	DEBUG000	DS OH	03210000
00045A	9240	C8F8	008F8		387	MVI	DEBUGCMD,\$DEBUG NORMAL DEBUG	03220000
00045E	4110	C8F4	008F4		388	LA	R1,DBUGBLOK PARAMETER BLOCK ADDRESS	03230000
000462	58F0	B0A0	000A0		389	L	R15,ADB DEBUG MODULE ENTRY POINT	03240000
000466	05EF				390	BALR	R14,R15 LINK TO DEBUG MODULE	03250000
000468	07FA				391	BR	R10 RETURN	03260000
00046A					392	EXIT0000	DS OH	03270000
00046A	9110	B163	00163		393	TM	COMMFLAG,\$ABEND ABEND REQUESTED?	03280000
00046E	47E0	C4A4	004A4		394	BNO	EXIT0010 NO	03290000
000472	45E0	B5B0	005B0		395	BAL	R14,TRACEPRT PRINT TRACE TABLE	GP10019 03300000
					396	ITRACE	ID=ABEND	03310000
000482	D23A	B710	C63E	00710	0063E	399	MVC PRTDATA(MSG02L),MSG02 SET MESSAGE	03320000
000488	45E0	B6EC	006EC		400	BAL	R14,PRINTREC PRINT MESSAGE	GP99138 03330000
00048C	4110	0001	00001		401	LA	R1,ABEND001 SET ABEND CODE (NOT ADDRESS)	GP99146 03340000
					402	ABEND	(1),DUMP,,USER GIVE 'EM WHAT THEY ASKED FOR	GP99146 03350000
					410	EXIT0010	FREEMAIN R,SP=69 FREE ALL CSECT STORAGE	GP10085 03360000
0004B0	D749	B0F8	B0F8	000F8	000F8	416	XC COMMCLR(COMMCLRL),COMMCLR SIGNAL RELEASE	GP10085 03370000
0004B6	BF1F	B0F4	000F4		417	EXIT0020	ICM R1,15,COMMIO I/O BUFFER ADDRESS	03380000
0004BA	4780	C4DA	004DA		418	BZ	EXIT0100 NO BUFFER	GP10085 03390000
					419	ITRACE	FREEIO, FREEING I/O STORAGE	+03400000
							RDATA1=R1 .. I/O AREA'S ADDRESS	03410000
0004CE	5800	C90C	0090C		423	L	R0,=A(\$IOSIZE)	GP99140 03420000
0004D2	9258	B162	00162		424	MVI	COMMPPOOL,88 SET CORRECT SUBPOOL	GP10085 03430000
0004D6	45E0	B6AA	006AA		425	BAL	R14,FREEMAIN RELEASE THE STORAGE	GP99148 03440000
0004DA	92C3	B70E	0070E		427	EXIT0100	MVI PRTCMD,\$PRTCLS CLOSE THE PRINTER	GP10085 03460000
0004DE	45E0	B6F0	006F0		428	BAL	R14,PRINTDAT CLOSE REQUEST	GP10048 03470000
0004E2	92C3	B7B2	007B2		429	MVI	PUNCMD,\$PUNCLS CLOSE THE PUNCH	GP10048 03480000
0004E6	45E0	B79E	0079E		430	BAL	R14,PUNCHDAT CLOSE REQUEST	GP10048 03490000
0004EA	1BFF				431	SR	R15,R15 GIVE GOOD RETURN CODE	GP99153 03500000
0004EC	9140	B163	00163		432	TM	COMMFLAG,\$ERROR ANY ERRORS?	GP99153 03510000
0004F0	4780	C4F8	004F8		433	BZ	EXIT0250 YES	GP99153 03520000
0004F4	41F0	0008	00008		434	LA	R15,8 SET ERROR IN EXECUTION	GP99153 03530000
0004F8	9180	B163	00163		435	EXIT0250	TM COMMFLAG,\$ABORT ANY ERRORS?	GP99153 03540000
0004FC	4780	C504	00504		436	BZ	EXIT0260 YES	GP99153 03550000
000500	41F0	000C	0000C		437	LA	R15,12 SET ERROR IN EXECUTION	GP99153 03560000
000504	58D0	D004	00004		439	EXIT0260	L R13,4(,R13) RESTORE REGISTER 13	GP99153 03580000
000508	58ED	000C	0000C		440	L	R14,12(R13) RESTORE RETURN REGISTER	GP99153 03590000
00050C	980C	D014	00014		441	LM	R0,R12,20(R13) RESTORE ALL OTHER REGISTERS	GP99153 03600000
000510	07FE				442	BR	R14 RETURN TO CALLER	03610000
					443	*	-----	* 03620000
					444	*		* 03630000
					445	*	WORK AREAS	* 03640000
					446	*		* 03650000
					447	*	-----	* 03660000
000512	0000							
000514	00000000				448	V00	DC V(DISASM00) COMMON MODULE'S ADDRESS	03670000
000518	C4C9E2C9D5404040				449	INDD	DC CL8'DISIN'	03680000
000520	C4C9E2D7D9C9D5E3				450	PRTDD	DC CL8'DISPRINT'	03690000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000528	C4C9E2D4D6C44040			451	LIBDD	DC CL8'DISMOD'	03700000
000530	C4C9E2D7E4D5C3C8			452	PUNCHDD	DC CL8'DISPUNCH'	03710000
000538	C4C9E2C4C5C2E4C7			453	DEBUGDD	DC CL8'DISDEBUG'	03720000
000540	C4C9E2C1C4C1E3C1			454	ADATADD	DC CL8'DISADATA'	GP99166 03730000
000548	C4C9E2D3C9E2E340			455	LISTDD	DC CL8'DISLIST'	GP99166 03740000
000550	C9D5E3C5D9D5C1D3			456	A02SUB	DC CL35'INTERNAL DATA AFTER MODULE DISASM02'	03750000
000573	C9D5E3C5D9D5C1D3			457	A06SUB	DC CL35'INTERNAL DATA AFTER MODULE DISASM06'	03760000
000596	C9D5E3C5D9D5C1D3			458	A07SUB	DC CL35'INTERNAL DATA AFTER MODULE DISASM07'	03770000
0005B9	C9D5E3C5D9D5C1D3			459	A08SUB	DC CL35'INTERNAL DATA AFTER MODULE DISASM08'	03780000
0005DC	C9D5E3C5D9D5C1D3			460	A09SUB	DC CL35'INTERNAL DATA AFTER MODULE DISASM09'	GP99184 03790000
0005FF	C4C9E2C1E2D4F0F1			461	MSG01	DC C'DISASM0101I NO DISPUNCH DD PRESENT, NO SOURCE WILL BE +03800000	
000607	F0F1C940D5D640C4					GENERATED'	03810000
		0003F		462	MSG01L	EQU *-MSG01	03820000
00063E	C4C9E2C1E2D4F0F1			463	MSG02	DC C'DISASM0102I ABEND REQUESTED, PROGRAM ABNORMALLY TERMIN+03830000	
000646	F0F2C940C1C2C5D5					ATING'	03840000
		0003B		464	MSG02L	EQU *-MSG02	03850000
000679	C4C9E2C1E2D4F0F1			465	MSG03	DC C'DISASM0103I ***** DISASSEMBLY COMPLETE *****'	03860000
		0002F		466	MSG03L	EQU *-MSG03	03870000
0006A8	C4C9E2C1E2D4F0F1			467	EMSG01	DC C'DISASM0104E DISIN DD STATEMENT MISSING, PROCESSING WIL+03880000	
0006B0	F0F4C540C4C9E2C9					L BE ABORTED'	03890000
		00042		468	EMSG01L	EQU *-EMSG01	03900000
0006EA	C4C9E2C1E2D4F0F1			469	EMSG02	DC C'DISASM0105E DISMOD DD STATEMENT MISSING, PROCESSING WI+03910000	
0006F2	F0F5C540C4C9E2D4					LL BE ABORTED'	03920000
		00043		470	EMSG02L	EQU *-EMSG02	03930000
00072D	C4C9E2C1E2D4F0F1			471	EMSG03	DC C'DISASM0106E ERROR(S) IN CONTROL PARAMETERS, EXECUTION +03940000	
000735	F0F6C540C5D9D9D6					ABORTED'	03950000
		0003D		472	EMSG03L	EQU *-EMSG03	03960000
00076A	40			473	EMSG04	DC AL1(L'EMSG04T)	03970000
00076B	C4C9E2C1E2D4F0F1			474	EMSG04T	DC C'DISASM0107E ERROR(S) IN LOADING OBJECT MODULE, EXECUTI+03980000	
000773	F0F7C540C5D9D9D6					ON ABORTED'	03990000
0007AB	2E			475	EMSG04A	DC AL1(L'EMSG04AT)	GP99166 04000000
0007AC	C4C9E2C1E2D4F0F1			476	EMSG04AT	DC C'DISASM0112E ERROR(S) PROCESSING DISADATA INPUT'	04010000
0007DA	2D			477	EMSG04L	DC AL1(L'EMSG04LT)	GP99166 04020000
0007DB	C4C9E2C1E2D4F0F1			478	EMSG04LT	DC C'DISASM0113E ERROR(S) PROCESSING DISLIST INPUT'	GP99166 04030000
000808	C4C9E2C1E2D4F0F1			479	EMSG05	DC C'DISASM0108E ERROR(S) IN TEXT VERIFY/REPLACE/PRINT'	04040000
		00031		480	EMSG05L	EQU *-EMSG05	04050000
000839	C4C9E2C1E2D4F0F1			481	EMSG06	DC C'DISASM0109E ERROR(S) IN ASSEMBLING DSECTS, EXECUTION A+04060000	
000841	F0F9C540C5D9D9D6					BORTED'	04070000
		0003C		482	EMSG06L	EQU *-EMSG06	04080000
000875	C4C9E2C1E2D4F0F1			483	EMSG07	DC C'DISASM0110E ERROR(S) IN GENERATING LABEL TABLE, EXECUT+04090000	
00087D	F1F0C540C5D9D9D6					ION ABORTED'	04100000
		00041		484	EMSG07L	EQU *-EMSG07	04110000
0008B6	C4C9E2C1E2D4F0F1			485	EMSG08	DC C'DISASM0111E ERROR(S) IN GENERATING SOURCE, EXECUTION A+04120000	
0008BE	F1F1C540C5D9D9D6					BORTED'	04130000
		0003C		486	EMSG08L	EQU *-EMSG08	04140000
				487	*-----*		04150000
				488	*		* 04160000
				489	*	DEBUG MODULE INTERFACE BLOCK	* 04170000
				490	*		* 04180000
				491	*-----*		* 04190000
				492	DEBUGBLOK	DEBUGBLOK TYPE=CSECT	04200000
000900				500		LTORG	04220000
000900	00000000			501		=V(DISASM00)	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000904	00000000			502	=V(DISASMDT)	
000908	00000000			503	=V(DISASMLS)	
00090C	00007FF8			504	=A(\$IOSIZE)	
000910	00000000			505	=V(DISASM19)	
000914	58			506	=AL1(88)	
				508	*-----*	04240000
				509	*	* 04250000
				510	* COMMON DATA MAP	* 04260000
				511	*	* 04270000
				512	*-----*	* 04280000
				513	DISASM00 DISASMCM TYPE=DSECT	04290000
				514+	PRINT OFF	00280000
				1145+	PRINT ON	06440000
				1175	COPY DISASMDA	04300000
				1176	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				1177	PRINT OFF	00020000
				1388	PRINT ON	02130000
				1389	.DA020 ANOP	02140000
				1391	IHAPSA ,	04320000
				1859	IKJTCTB LIST=NO	04330000
				1917+	PRINT OFF	01016002
000000				2696	SECTTIOT DSECT ,	GP99127 04340000
				2697	IEFTIOT1	04350000
000000				2842	END DISASM01	04360000

POS.ID

REL.ID

FLAGS

ADDRESS

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0001	0002	1C	000514
0001	0002	1C	000900
0001	0003	1C	000904
0001	0004	1C	000908
0001	0005	1C	000910

DA01				CROSS-REFERENCE										PAGE 12	
SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18	
\$ABEND	00001	00000010	00630	00393											
\$ABORT	00001	00000080	00627	00194	00206	00214	00222	00231	00247	00262	00282	00312	00329	00435	
\$ADADD	00001	00000004	00639	00159	00203	00211	00240								
\$ASMIN	00001	00000008	00631	00323											
\$DEBUG	00001	00000040	00496	00387											
\$DEBUGDD	00001	00000008	00638	00178											
\$ERROR	00001	00000040	00628	00194	00206	00214	00347	00361	00432						
\$INDD	00001	00000040	00635	00140	00201										
\$IOSIZE	00001	00007FF8	00579	00504											
\$LISTDD	00001	00000002	00640	00166	00203	00211	00255								
\$MODDD	00001	00000020	00636	00152	00209										
\$OPMASK	00001	00000001	01140	00796											
\$PFTRC	00001	00000001	00648	00883	00885										
\$PFXRF	00001	00000020	00652	00363											
\$PRTCLS	00001	000000C3	01009	00427											
\$PRTDD	00001	00000080	00634	00146	00184										
\$PRTHEAD	00001	000000C8	01005	00197											
\$PRTPR	00001	000000D7	01007	00993	01014										
\$PRTSUBH	00001	000000E2	01006	00889											
\$PUNCHDD	00001	00000010	00637	00172	00217										
\$PUNCLS	00001	000000C3	01026	00429											
ABEND001	00001	00000001	01151	00401											
ADATADD	00008	00000540	00454	00125											
ADB	00004	000000A0	00552	00389											
AOP	00004	000000AC	00554	00777											
APR	00004	000000B8	00556	00199	00996										
APU	00004	000000BC	00557	01017											
A02	00004	00000028	00532	00227											
A02SUB	00035	00000550	00456	00229											
A03	00004	00000034	00534	00280											
A06	00004	00000064	00542	00308											
A06SUB	00035	00000573	00457	00310											
A07	00004	00000070	00544	00325											
A07SUB	00035	00000596	00458	00327											
A08	00004	0000007C	00546	00343											
A08SUB	00035	000005B9	00459	00345											
A09	00004	00000088	00548	00359											
A09SUB	00035	000005DC	00460	00368											
BASEDSCT	00001	00000000	01195	01203											
BLKTRT	00001	00000A68	01054	01055	01057	01059	01061	01063	01065	01067	01069	01071	01073	01075	01077 01079
COMMCLR	00004	000000F8	00583	00416	00416	00603	00607								
COMMCLRL	00001	0000004A	00603	00416											
COMMSEA	00004	00000124	00595	00295	00299	00301									
COMMDATA	00004	0000010C	00589	00290											
COMMDBSH	00035	000001F2	00669	00229	00310	00327	00345	00368							
COMMDD	00001	00000164	00633	00140	00146	00152	00159	00166	00172	00178	00184	00201	00203	00209	00211 00217 00240 00255
COMMWD	00008	00000000	00521	00908	00909										
COMMFILL	00001	00000161	00624	00953											
COMMFLAG	00001	00000163	00626	00194	00206	00214	00222	00231	00247	00262	00282	00312	00323	00329	00347 00361 00393 00432
COMMHXCH	00016	00000275	00673	00674											
COMMHXTR	00016	00000185	00674	00900	00903	00906	00910								
COMM32	00002	0000015C	00622	00094											
COMMIO	00004	000000F4	00578	00276	00417										
COMMNPR	00001	000003C7	00729	00730	00732	00734	00736	00738	00740	00742	00744	00746	00748	00750	00752 00754

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18										
COMMP00L	00001	00000162	00625	00084	00086	00424	00945	00960							
COMMPRT	00001	000002C7	00700	00701	00703	00705	00707	00709	00711	00713	00715	00717	00719	00721	00723
COMMSUBH	00133	0000016D	00668	00886											
COMMSUBL	00002	00000154	00618	00887	00887	00888									
DATABEGN	00004	0000001C	01216	00295											
DATADSCT	00001	00000000	01210	00291	01231										
DATAEND	00004	00000020	01217	00299	00301										
DATANEXT	00004	00000000	01211	00293	00297	00297									
DBUGBL0K	00004	000008F4	00493	00388											
DBUGCMD	00001	000008F8	00495	00387											
DEBUGDD	00008	00000538	00453	00131											
DEBUG000	00002	0000045A	00386	00230	00311	00328	00346	00369							
DISASM00	00001	00000000	00515	00073	00528	00767	00844	00881	00942	00978					
DISASM01	00001	00000000	00064	00065	00071	02842									
DSCTDSCT	00001	00000000	01238	01244											
EMSG01	00066	000006A8	00467	00205	00468										
EMSG01L	00001	00000042	00468	00205											
EMSG02	00067	000006EA	00469	00213	00470										
EMSG02L	00001	00000043	00470	00213											
EMSG03	00061	0000072D	00471	00234	00472										
EMSG03L	00001	0000003D	00472	00234											
EMSG04	00001	0000076A	00473	00284											
EMSG04A	00001	000007AB	00475	00249											
EMSG04AT	00046	000007AC	00476	00475											
EMSG04L	00001	000007DA	00477	00264											
EMSG04LT	00045	000007DB	00478	00477											
EMSG04T	00064	0000076B	00474	00473											
EMSG05	00049	00000808	00479	00314	00480										
EMSG05L	00001	00000031	00480	00314											
EMSG06	00060	00000839	00481	00331	00482										
EMSG06L	00001	0000003C	00482	00331											
EMSG07	00065	00000875	00483	00349	00484										
EMSG07L	00001	00000041	00484	00349											
EMSG08	00060	000008B6	00485	00379	00486										
EMSG08L	00001	0000003C	00486	00379											
ESDDATA	00001	00000000	01251	01274											
ESDNAME	00008	0000000E	01255	01270											
EXGETOPC	00006	00000554	00808	00801											
EXITTRCE	00004	00000452	00381	00223	00236	00251	00266	00286	00316	00333	00351				
EXIT0000	00002	0000046A	00392	00195	00377	00382									
EXIT0010	00004	000004A4	00412	00394											
EXIT0100	00004	000004DA	00427	00418											
EXIT0250	00004	000004F8	00435	00433											
EXIT0260	00004	00000504	00439	00436											
FLCEICOD	00002	00000086	01465	01466											
FLCENPSW	00004	00000058	01444	01446											
FLCEOPSW	00008	00000018	01427	01428											
FLCINPSW	00004	00000078	01457	01459											
FLCIOPSW	00008	00000038	01435	01436											
FLCIPPSW	00008	00000000	01418	01421											
FLCMNPSW	00004	00000070	01453	01456											
FLCMOPSW	00008	00000030	01433	01434											
FLCPICOD	00002	0000008E	01485	01486											
FLCPIILC	00001	0000008D	01479	01484											
FLCPNPSW	00004	00000068	01450	01452											

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
FLCPOPSW	00008	00000028	01431	01432	
FLCSNPSW	00004	00000060	01447	01449	
FLCSOPSW	00008	00000020	01429	01430	
FLCSVCN	00002	0000008A	01475	01476	
FLCSVILC	00001	00000089	01470	01474	
FLCTIMER	00004	00000050	01441	01442	
FREEMAIN	00004	000006AA	00958	00425	
GETMAIN	00004	00000684	00943	00085	
GETOPEXT	00004	00000546	00804	00797	
GETOPLEN	00001	0000055A	00809	00775	
GETOPNOT	00004	0000054E	00806	00780 00790 00795 00803	
GETOPTMK	00004	00000526	00796	00781	
GETOPWRK	00006	0000055E	00810	00800 00800 00802 00808	
HEXTRT	00001	00000868	01036	01037 01039 01041 01043 01045	
IHB0013A	00002	00000214	00192	00188	
INDD	00008	00000518	00449	00119	
INTTRT	00001	00000968	01047	01048 01050 01052	
LABLDSCT	00001	00000000	01281	01297	
LIBDD	00008	00000528	00451	00123	
LISTDD	00008	00000548	00455	00127	
MAINDONE	00004	0000042E	00373	00248 00263 00364	
MAIND140	00004	00000340	00290	00283	
MAIND142	00002	00000344	00292	00300 00302	
MAIND143	00004	00000346	00293	00298	
MAIND145	00006	00000362	00299	00296	
MAINRSV	00004	00000858	01034	00943 00949 00951 00955 00958 00964	
MAIN0010	00002	000000E2	00116	00135	
MAIN0020	00002	00000130	00133	00141 00147 00153 00155 00160 00162 00167 00173 00179	
MAIN0030	00002	00000136	00136	00120	
MAIN0040	00002	0000014A	00142	00122	
MAIN0050	00002	0000015E	00148	00124	
MAIN0055	00004	00000172	00154	00126	
MAIN0056	00004	0000018E	00161	00128	
MAIN0060	00002	000001AA	00168	00130	
MAIN0070	00002	000001BE	00174	00132	
MAIN0080	00002	000001D2	00183	00118	
MAIN0090	00002	0000021E	00196	00185	
MAIN0100	00002	0000024A	00208	00202 00204	
MAIN0110	00002	00000268	00216	00210 00212	
MAIN0120	00002	0000027A	00221	00218	
MAIN0122	00004	000002AC	00240	00232	
MAIN0124	00004	000002DA	00255	00241	
MAIN0130	00004	00000308	00270	00256	
MAIN0140	00002	00000376	00307	00294	
MAIN0150	00004	0000039C	00323	00313	
MAIN0160	00002	000003CA	00339	00324 00330	
MAIN0170	00002	000003FC	00355	00348	
MAIN0180	00002	00000448	00378	00362	
MODENT	00004	00000064	00069	00065	
MODHEAD	00023	00000005	00067	00066	
MODSAVE	00004	0000001C	00068	00074	
MSG01	00063	000005FF	00461	00219 00462	
MSG01L	00001	0000003F	00462	00219	
MSG02	00059	0000063E	00463	00399 00464	
MSG02L	00001	0000003B	00464	00399	

DA01				CROSS-REFERENCE												PAGE 15			
SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 00.48 07/11/18			
MSG03	00047	00000679	00465	00375	00466														
MSG03L	00001	0000002F	00466	00375															
NBLTRT	00001	00000B68	01081	01082	01084														
OPDSECT	00001	00000000	01103	00778	01141														
OPFLAGS	00001	00000007	01132	00796															
OPFLAG1	00001	00000001	01105	00785															
OPFLAG2	00001	00000002	01106	00787															
OPFLAG3	00001	00000003	01107	00789															
OPMASK	00006	00000008	01142	00802															
OPMNEM	00006	00000000	01104	01105	01106	01107													
PRINTDAT	00004	000006F0	00994	00428	00890														
PRINTFG1	00001	00000165	00641	00883	00885														
PRINTFG2	00001	00000166	00649	00363															
PRINTMSG	00004	000006BE	00979	00250	00265	00285													
PRINTMVR	00006	000006E6	00991	00988															
PRINTREC	00004	000006EC	00993	00207	00215	00220	00235	00315	00332	00350	00376	00380	00400	00912	00990				
PRINTREX	00004	000006FE	00998	00982															
PRINTRSV	00004	00000848	01033	00979	00989	00994	00998	01015	01019										
PRTBLOK	00001	0000070E	01003	00198	00995														
PRTCC	00001	0000070F	01010	00233	00999														
PRTCMD	00001	0000070E	01004	00197	00427	00889	00993	01014											
PRTDATA	00132	00000710	01011	00205	00213	00219	00234	00314	00331	00349	00375	00379	00399	00897	00898	00899	00900	00901	
				00902	00903	00904	00905	00906	00907	00909	00910	00911	00983	00991	01000	01000			
PRTDD	00008	00000520	00450	00121															
PSA	00001	00000000	01416	00107	01628	01633													
PSAIPCDM	00001	0000026C	01634	01633															
PSAIPCRM	00001	00000264	01629	01628															
PSATNEW	00004	00000218	01561	00108	01562														
PUNBLOK	00001	000007B2	01022	01016															
PUNCHDAT	00004	0000079E	01015	00430															
PUNCHDD	00008	00000530	00452	00129															
PUNCMD	00001	000007B2	01023	00429															
PUNDATA	00080	000007B4	01028	01013															
REFDSCT	00001	00000000	01304	01314															
RLDDATA	00001	00000000	01321	01339															
R0	00001	00000000	01158	00083	00107	00154	00161	00270	00271	00423	00441	00768	00774	00774	00775	00798	00846	00865	
				00882	00921	00945	00950	00954	00960	00983	00984	00986	00989						
R1	00001	00000001	01159	00087	00088	00088	00089	00090	00091	00092	00093	00094	00095	00108	00109	00198	00249	00264	
				00276	00284	00292	00297	00388	00401	00417	00420	00770	00784	00804	00806	00808	00845	00847	
				00851	00851	00852	00854	00856	00943	00949	00950	00951	00955	00979	00981	00991	00994	00995	
				00998	01013	01015	01016	01019											
R10	00001	0000000A	01168	00230	00311	00328	00346	00369	00391										
R11	00001	0000000B	01169	00072	00073	00767	00844	00881	00942	00978									
R12	00001	0000000C	01170	00069	00070	00071	00441	00858											
R13	00001	0000000D	01171	00069	00075	00076	00077	00439	00439	00440	00441								
R14	00001	0000000E	01172	00069	00074	00075	00076	00077	00085	00097	00098	00099	00100	00101	00138	00144	00150	00157	
				00164	00170	00176	00200	00207	00215	00220	00228	00235	00243	00246	00250	00258	00261	00265	
				00278	00281	00285	00309	00315	00326	00332	00341	00344	00350	00357	00360	00371	00373	00376	
				00380	00381	00390	00395	00397	00400	00421	00425	00428	00430	00440	00442	00771	00772	00773	
				00775	00782	00782	00784	00786	00788	00789	00791	00791	00792	00793	00804	00805	00807	00859	
				00866	00890	00912	00922	00943	00954	00955	00956	00958	00964	00965	00979	00989	00994	00997	
				00998	01001	01015	01018	01019	01020										
R15	00001	0000000F	01173	00065	00070	00199	00200	00227	00228	00245	00246	00260	00261	00280	00281	00308	00309	00325	
				00326	00343	00344	00359	00360	00370	00371	00389	00390	00431	00431	00434	00437	00768	00769	
				00769	00770	00772	00776	00777	00778	00779	00779	00793	00794	00794	00806	00846	00865	00882	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18													
				00921 00952 00952 00953 00958 00964 00980 00980 00981 00984 00986 00987 00988 00996 00997														
				01017 01018														
R2	00001	00000002	01160	00082 00083 00110 00111 00113 00290 00291 00292 00293 00297 00303 00783 00783 00785 00786														
				00787 00788														
R3	00001	00000003	01161	00112 00114 00134														
R4	00001	00000004	01162	00115 00115 00117 00134 00798 00799 00801														
R5	00001	00000005	01163	00891 00894 00914 00914 00915 00917 00919														
SYMDATA	00001	00000000	01346	01351														
TCB	00001	00000020	01933	00109 02619														
TCBDARPN	00001	00000040	02259	02261														
TCBDARTN	00001	00000080	02256	02258														
TCBFIX	00001	00000000	01921	01928														
TCBMNLEN	00001	00000128	02619	02690														
TCBPXLEN	00001	00000020	01928	02690														
TCBTIO	00004	0000002C	01946	00110														
TCBXTNT2	00001	00000000	02624	02688														
TCBX2LEN	00001	00000020	02688	02690														
TIOEDDNM	00008	0000001C	02780	00119 00121 00123 00125 00127 00129 00131														
TIOEFSRT	00003	00000029	02820	00154 00161														
TIOELNGH	00001	00000018	02737	00117														
TIOENTRY	00001	00000018	02736	00112 00114														
TIOT1	00001	00000000	02713	00111														
TPODA1A	00008	00000017	00926	00899 00899 00900 00900 00901 00901														
TPODA1B	00008	00000020	00927	00902 00902 00903 00903 00904 00904														
TPODA2A	00008	0000002A	00928	00905 00905 00906 00906 00907 00907														
TPODA2B	00008	00000033	00929	00909 00909 00910 00910 00911 00911														
TPOMOD	00008	00000003	00924	00897 00897														
TPOTID	00008	0000000D	00925	00898 00898														
TRACEPEN	00004	00000662	00921	00884 00893 00916														
TRACEPIN	00004	00000646	00914	00892 00896														
TRACEPPR	00004	000005E2	00895	00918 00920														
TRACEPRT	00004	000005B0	00882	00381 00395														
TRACESHD	00027	00000668	00930	00886 00886 00887														
TRACE000	00002	00000564	00843	00101 00138 00144 00150 00157 00164 00170 00176 00243 00258 00278 00341 00357 00373 00397														
				00421														
TRACE010	00002	00000580	00855	00853														
TRACE020	00002	000005A8	00864	00848														
TRADDR	00004	000000D8	00570	00087														
TRCESAVE	00004	00000808	01032	00768 00804 00806 00846 00865 00882 00921														
TRCURR	00004	000000D4	00569	00092 00847 00856 00891 00915														
TRDATA1	00008	000000E0	00572	00098 00420 00860 00862 00862														
TRDATA2	00008	000000E8	00573	00100 00861 00863 00863														
TREDATA1	00008	00000010	01094	00860 00899 00902														
TREDATA2	00008	00000018	01095	00861 00905 00908														
TREID	00008	00000008	01093	00859 00898														
TREMOD	00008	00000000	01092	00858 00895 00897														
TREENTRY	00001	00000000	01091	00845 00894 00913 00913 01096														
TREENTRYL	00001	00000020	01096	00851 00913 00914														
TRLAST	00004	000000CC	00567	00095 00099 00852 00917														
TRSIZE	00004	000000F0	00574	00082 00093														
TR1ST	00004	000000C4	00565	00091 00097 00854 00919														
USNGDSCT	00001	00000000	01358	01372														
VERPSECT	00001	00000000	01379	01385														

[illegible]

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 436

TOTAL RECORDS READ FROM SYSTEM LIBRARY 4981

TOTAL RECORDS PUNCHED 50

TOTAL RECORDS PRINTED 807

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED XREF,LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)

IEW0000 ALIAS DISASM
IEW0000 ENTRY DISASM01
IEW0000 ORDER DISASM00(P),DISASM01,DISASM02,DISASM03

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
DISASM00	00	C68								
DISASM01	C68	915								
DISASM02	1580	1C76								
DISASM03	31F8	10AC								
DISASM04	42A8	456								
DISASM05	4700	988								
DISASM06	5088	4E8								
DISASM07	5570	6F4								
DISASM08	5C68	114F								
DISASM09	6DB8	25E6								
DISASM13	93A0	C5C								
DISASM19	A000	1C4								
DISASM55	A1C8	89A								
DISASMDB	AA68	E35								
DISASMDT	B8A0	772								
DISASMLS	C018	797								
DISASMOP	C7B0	100C								
DISASMPR	D7C0	5F8								
DISASMPU	DDB8	394								

LOCATION	REFERS TO	SYMBOL	IN CONTROL SECTION	LOCATION	REFERS TO	SYMBOL	IN CONTROL SECTION
1C		DISASM01	DISASM01	28		DISASM02	DISASM02
34		DISASM03	DISASM03	40		DISASM04	DISASM04
4C		DISASM05	DISASM05	58		DISASM55	DISASM55
64		DISASM06	DISASM06	70		DISASM07	DISASM07
7C		DISASM08	DISASM08	88		DISASM09	DISASM09
94		DISASM19	DISASM19	A0		DISASMDB	DISASMDB
AC		DISASMOP	DISASMOP	B8		DISASMPR	DISASMPR
BC		DISASMPU	DISASMPU	117C		DISASM00	DISASM00
1568		DISASM00	DISASM00	156C		DISASMDT	DISASMDT
1570		DISASMLS	DISASMLS	1578		DISASM19	DISASM19
1F38		DISOP360	\$UNRESOLVED(W)	1F3C		DISOP370	\$UNRESOLVED(W)
1F40		DISOP390	\$UNRESOLVED(W)	39BC		DISASM13	DISASM13

ENTRY ADDRESS C68

TOTAL LENGTH E150

****DISASM01 NOW REPLACED IN DATA SET

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISOP360	SD	0001	000000	000A48		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOP360 (MODIFIED ALIAS OF 370 TABLE FOR DEFAULT)	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES FOR SYSTEM 360	* 00070000
				8 *		* 00080000
				9 *	-----*	00090000
				10	COPY DISASMGB	00100000
				11 *	-----*	00010000
				12 *		* 00020000
				13 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				14 *		* 00040000
				15 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				16 *		* 00060000
				17 *	-----*	00070000
				18	GBLA &TRNBRG,&MAXL,&MINL	00080000
				19	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				20	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				21	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				22	DISOP360 CSECT , DEFAULT TABLE GP10015	00110000
000000		00400		23	ORG DISOP360+(256*4)	00120000
				24 *	-----*	00130000
				25 *	OPCODE TABLE FOR S/360 (WITHOUT SSM, SIO, TIO, HIO, TCH)	* 00140000
				26 *	-----*	00150000
				27	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00160000
000400	C4C3404040400020			28+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				29	OPCODE 04,SPM,\$OPRR4,MASK=000F GP10018	00170000
000408	E2D7D44040400421			30+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000410	000F00000000			31+	DC XL6'000F00000000'	00950000
				32	OPCODE 05,BALR,\$OPRR1,'CALL'	00180000
000416	C2C1D3D940400100			33+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
00041E	C3C1D3D340404040			34+	DC CL12'CALL'	00980000
				35	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00190000
00042A	C2C3E3D940400100			36+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000432	D3D6D6D740404040			37+	DC CL12'LOOP'	00980000
				38	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00200000
00043E	C2C3D940404003A0			39+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				40	OPCODE 08,SSK,\$OPRR1	00210000
000446	E2E2D24040400120			41+MACH08	DC CL6'SSK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				42	OPCODE 09,ISK,\$OPRR1	00220000
00044E	C9E2D24040400120			43+MACH09	DC CL6'ISK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				44	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OP SVC GP10035	00230000
000456	E2E5C34040400240			45+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OP SVC)	00910000
00045E	E2E5C34040404040			46+	DC CL12'SVC'	00980000
				47	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00240000
00046A	D3D7D94040400128			48+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				49	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00250000
000472	D3D5D94040400128			50+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				51	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00260000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00047A	D3E3D94040400128			52+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				53	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00270000
000482	D3C3D94040400128			54+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				55	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00280000
00048A	D5D9404040400122			56+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				57	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00290000
000492	C3D3D94040400124			58+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				59	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00300000
00049A	D6D9404040400122			60+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				61	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00310000
0004A2	E7D9404040400122			62+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				63	OPCODE 18,LR,\$OPRR1	00320000
0004AA	D3D9404040400120			64+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				65	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00330000
0004B2	C3D9404040400124			66+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				67	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00340000
0004BA	C1D9404040400128			68+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00350000
0004C2	E2D9404040400128			70+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				71	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00360000
0004CA	D4D9404040400121			72+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004D2	0010000000000			73+	DC XL6'001000000000'	00950000
				74	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00370000
0004D8	C4D9404040400121			75+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004E0	0010000000000			76+	DC XL6'001000000000'	00950000
				77	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00380000
0004E6	C1D3D94040400128			78+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				79	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00390000
0004EE	E2D3D94040400128			80+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				81	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00400000
0004F6	D3D7C4D940400129			82+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0004FE	0099000000000			83+	DC XL6'009900000000'	00950000
				84	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00410000
000504	D3D5C4D940400129			85+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00050C	0099000000000			86+	DC XL6'009900000000'	00950000
				87	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00420000
000512	D3E3C4D940400129			88+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00051A	0099000000000			89+	DC XL6'009900000000'	00950000
				90	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00430000
000520	D3C3C4D940400129			91+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000528	0099000000000			92+	DC XL6'009900000000'	00950000
				93	OPCODE 24,HDR,\$OPRR1,MASK=0099	GP10018 00440000
00052E	C8C4D94040400121			94+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000536	0099000000000			95+	DC XL6'009900000000'	00950000
				96	OPCODE 25,LRDR,\$OPRR1,MASK=0099	GP10018 00450000
00053C	D3D9C4D940400121			97+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000544	0099000000000			98+	DC XL6'009900000000'	00950000
				99	OPCODE 26,MXR,\$OPRR1,MASK=0099	GP10018 00460000
00054A	D4E7D94040400121			100+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000552	0099000000000			101+	DC XL6'009900000000'	00950000
				102	OPCODE 27,MXDR,\$OPRR1,MASK=0099	GP10018 00470000
000558	D4E7C4D940400121			103+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000560	0099000000000			104+	DC XL6'009900000000'	00950000
				105	OPCODE 28,LDR,\$OPRR1,MASK=0099	GP10018 00480000
000566	D3C4D94040400121			106+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000

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00056E	009900000000			107+	DC XL6'009900000000'	00950000
				108	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC,MASK=0099	GP10018 00490000
000574	C3C4D94040400125			109+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
00057C	009900000000			110+	DC XL6'009900000000'	00950000
				111	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00500000
000582	C1C4D94040400129			112+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00058A	009900000000			113+	DC XL6'009900000000'	00950000
				114	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00510000
000590	E2C4D94040400129			115+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000598	009900000000			116+	DC XL6'009900000000'	00950000
				117	OPCODE 2C,MDR,\$OPRR1,MASK=0099	GP10018 00520000
00059E	D4C4D94040400121			118+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005A6	009900000000			119+	DC XL6'009900000000'	00950000
				120	OPCODE 2D,DDR,\$OPRR1,MASK=0099	GP10018 00530000
0005AC	C4C4D94040400121			121+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005B4	009900000000			122+	DC XL6'009900000000'	00950000
				123	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00540000
0005BA	C1E6D94040400129			124+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005C2	009900000000			125+	DC XL6'009900000000'	00950000
				126	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00550000
0005C8	E2E6D94040400129			127+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005D0	009900000000			128+	DC XL6'009900000000'	00950000
				129	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00560000
0005D6	D3D7C5D940400129			130+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005DE	009900000000			131+	DC XL6'009900000000'	00950000
				132	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00570000
0005E4	D3D5C5D940400129			133+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005EC	009900000000			134+	DC XL6'009900000000'	00950000
				135	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00580000
0005F2	D3E3C5D940400129			136+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005FA	009900000000			137+	DC XL6'009900000000'	00950000
				138	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00590000
000600	D3C3C5D940400129			139+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000608	009900000000			140+	DC XL6'009900000000'	00950000
				141	OPCODE 34,HER,\$OPRR1,MASK=0099	GP10018 00600000
00060E	C8C5D94040400121			142+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000616	009900000000			143+	DC XL6'009900000000'	00950000
				144	OPCODE 35,LRER,\$OPRR1,MASK=0099	GP10018 00610000
00061C	D3D9C5D940400121			145+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000624	009900000000			146+	DC XL6'009900000000'	00950000
				147	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00620000
00062A	C1E7D94040400129			148+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000632	009900000000			149+	DC XL6'009900000000'	00950000
				150	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00630000
000638	E2E7D94040400129			151+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000640	009900000000			152+	DC XL6'009900000000'	00950000
				153	OPCODE 38,LER,\$OPRR1,MASK=0099	GP10018 00640000
000646	D3C5D94040400121			154+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00064E	009900000000			155+	DC XL6'009900000000'	00950000
				156	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00650000
000654	C3C5D94040400129			157+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00065C	009900000000			158+	DC XL6'009900000000'	00950000
				159	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00660000
000662	C1C5D94040400129			160+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00066A	009900000000			161+	DC XL6'009900000000'	00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				162	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00670000
000670	E2C5D94040400129			163+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000678	009900000000			164+	DC XL6'009900000000'	00950000
				165	OPCODE 3C,MER,\$OPRR1,MASK=0099	GP10018 00680000
00067E	D4C5D94040400121			166+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000686	009900000000			167+	DC XL6'009900000000'	00950000
				168	OPCODE 3D,DER,\$OPRR1,MASK=0099	GP10018 00690000
00068C	C4C5D94040400121			169+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000694	009900000000			170+	DC XL6'009900000000'	00950000
				171	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00700000
00069A	C1E4D94040400129			172+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006A2	009900000000			173+	DC XL6'009900000000'	00950000
				174	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00710000
0006A8	E2E4D94040400129			175+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006B0	009900000000			176+	DC XL6'009900000000'	00950000
				177	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00720000
0006B6	E2E3C84040400730			178+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				179	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00730000
0006BE	D3C1404040400730			180+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				181	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00740000
0006C6	E2E3C34040400730			182+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				183	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00750000
0006CE	C9C3404040400730			184+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				185	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00760000
0006D6	C5E7404040400730			186+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				187	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00770000
0006DE	C2C1D34040400710			188+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
0006E6	C3C1D3D340404040			189+	DC CL12'CALL'	00980000
				190	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00780000
0006F2	C2C3E34040400710			191+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
0006FA	D3D6D6D740404040			192+	DC CL12'LOOP'	00980000
				193	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00790000
000706	C2C34040404007B0			194+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				195	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00800000
00070E	D3C8404040400730			196+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				197	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00810000
000716	C3C8404040400734			198+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				199	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00820000
00071E	C1C8404040400738			200+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				201	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00830000
000726	E2C8404040400738			202+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				203	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF	00840000
00072E	D4C8404040400730			204+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				205	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF	00850000
000736	C3E5C44040400730			206+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				207	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF	00860000
00073E	C3E5C24040400730			208+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				209	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF	00870000
000746	E2E3404040400730			210+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				211	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL	00880000
00074E	D540404040400732			212+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				213	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00890000
000756	C3D3404040400734			214+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				215	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL	00900000
00075E	D640404040400732			216+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000

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				217	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL	00910000
000766	E740404040400732			218+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				219	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF	00920000
00076E	D340404040400730			220+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				221	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00930000
000776	C340404040400734			222+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				223	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00940000
00077E	C140404040400738			224+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				225	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00950000
000786	E240404040400738			226+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				227	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 00960000
00078E	D440404040400731			228+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000796	0010000000000			229+	DC XL6'001000000000'	00950000
				230	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 00970000
00079C	C440404040400731			231+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007A4	0010000000000			232+	DC XL6'001000000000'	00950000
				233	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00980000
0007AA	C1D3404040400738			234+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				235	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00990000
0007B2	E2D3404040400738			236+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				237	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01000000
0007BA	E2E3C44040400731			238+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007C2	0090000000000			239+	DC XL6'009000000000'	00950000
				240	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01010000
0007C8	D4E7C44040400731			241+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007D0	0090000000000			242+	DC XL6'009000000000'	00950000
				243	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01020000
0007D6	D3C4404040400731			244+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007DE	0090000000000			245+	DC XL6'009000000000'	00950000
				246	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01030000
0007E4	C3C4404040400735			247+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
0007EC	0090000000000			248+	DC XL6'009000000000'	00950000
				249	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01040000
0007F2	C1C4404040400739			250+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0007FA	0090000000000			251+	DC XL6'009000000000'	00950000
				252	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01050000
000800	E2C4404040400739			253+MACH6B	DC CL6'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000808	0090000000000			254+	DC XL6'009000000000'	00950000
				255	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01060000
00080E	D4C4404040400731			256+MACH6C	DC CL6'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000816	0090000000000			257+	DC XL6'009000000000'	00950000
				258	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01070000
00081C	C4C4404040400731			259+MACH6D	DC CL6'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000824	0090000000000			260+	DC XL6'009000000000'	00950000
				261	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01080000
00082A	C1E6404040400731			262+MACH6E	DC CL6'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000832	0090000000000			263+	DC XL6'009000000000'	00950000
				264	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01090000
000838	E2E6404040400739			265+MACH6F	DC CL6'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000840	0090000000000			266+	DC XL6'009000000000'	00950000
				267	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01100000
000846	E2E3C54040400731			268+MACH70	DC CL6'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00084E	0090000000000			269+	DC XL6'009000000000'	00950000
				270	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01110000
000854	D3C5404040400731			271+MACH78	DC CL6'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000

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00085C	009000000000			272+	DC XL6'009000000000'	00950000
				273	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01120000
000862	C3C5404040400735			274+MACH79	DC CL6'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
00086A	009000000000			275+	DC XL6'009000000000'	00950000
				276	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01130000
000870	C1C5404040400739			277+MACH7A	DC CL6'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000878	009000000000			278+	DC XL6'009000000000'	00950000
				279	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01140000
00087E	E2C5404040400739			280+MACH7B	DC CL6'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000886	009000000000			281+	DC XL6'009000000000'	00950000
				282	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01150000
00088C	D4C5404040400731			283+MACH7C	DC CL6'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000894	009000000000			284+	DC XL6'009000000000'	00950000
				285	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01160000
00089A	C4C5404040400731			286+MACH7D	DC CL6'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008A2	009000000000			287+	DC XL6'009000000000'	00950000
				288	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01170000
0008A8	C1E4404040400739			289+MACH7E	DC CL6'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008B0	009000000000			290+	DC XL6'009000000000'	00950000
				291	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01180000
0008B6	E2E4404040400739			292+MACH7F	DC CL6'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008BE	009000000000			293+	DC XL6'009000000000'	00950000
				294 *	TOO MANY FALSE POSITIVES FOR LIST ENTRIES	01190000
				295 *	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01200000
				296	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01210000
0008C4	D3D7E2E640400931			297+MACH82	DC CL6'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008CC	00FF00000000			298+	DC XL6'00FF00000000'	00950000
				299	OPCODE 83,DIAG,\$OPRSI	01220000
0008D2	C4C9C1C740400B20			300+MACH83	DC CL6'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)	00910000
				301 *36S*	OPCODE 84,WRD,\$OPSI	GP10018 01230000
				302 *36S*	OPCODE 85,RDD,\$OPSI	GP10018 01240000
				303	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF	01250000
0008DA	C2E7C84040400D30			304+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				305	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF	01260000
0008E2	C2E7D3C540400D30			306+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				307	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 01270000
0008EA	E2D9D34040400C21			308+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0008F2	000F00000000			309+	DC XL6'000F00000000'	00950000
				310	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 01280000
0008F8	E2D3D34040400C21			311+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000900	000F00000000			312+	DC XL6'000F00000000'	00950000
				313	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01290000
000906	E2D9C14040400C29			314+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00090E	000F00000000			315+	DC XL6'000F00000000'	00950000
				316	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01300000
000914	E2D3C14040400C29			317+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00091C	000F00000000			318+	DC XL6'000F00000000'	00950000
				319	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 01310000
000922	E2D9C4D340400C21			320+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
00092A	000F00000000			321+	DC XL6'000F00000000'	00950000
				322	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 01320000
000930	E2D3C4D340400C21			323+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000938	000F00000000			324+	DC XL6'000F00000000'	00950000
				325	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01330000
00093E	E2D9C4C140400C29			326+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000946	000F00000000			327+	DC XL6'000F00000000'	00950000
				328	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01340000
00094C	E2D3C4C140400C29			329+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000954	000F00000000			330+	DC XL6'000F00000000'	00950000
				331	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF	01350000
00095A	E2E3D44040400D30			332+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				333	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01360000
000962	E3D4404040400A32			334+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				335	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	01370000
00096A	D4E5C94040400A30			336+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				337	OPCODE 93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000	GP10018 01380000
000972	E3E2404040400939			338+MACH93	DC CL6'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00097A	00FF00000000			339+	DC XL6'00FF00000000'	00950000
				340	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01390000
000980	D5C9404040400A32			341+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				342	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	01400000
000988	C3D3C94040400A34			343+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				344	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01410000
000990	D6C9404040400A32			345+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				346	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01420000
000998	E7C9404040400A32			347+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				348	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF	01430000
0009A0	D3D4404040400D30			349+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				350 *36S*	OPCODE 9C,SIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01440000
				351 *36S*	OPCODE 9D,TIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01450000
				352 *36S*	OPCODE 9E,HIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01460000
				353 *36S*	OPCODE 9F,TCH,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01470000
				354	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	01480000
0009A8	D4E5D54040400F30			355+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				356	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	01490000
0009B0	D4E5C34040400F30			357+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				358	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	01500000
0009B8	D4E5E94040400F30			359+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				360	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01510000
0009C0	D5C3404040400F32			361+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				362	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	01520000
0009C8	C3D3C34040400F34			363+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				364	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01530000
0009D0	D6C3404040400F32			365+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				366	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01540000
0009D8	E7C3404040400F32			367+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				368	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	01550000
0009E0	E3D9404040400F30			369+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				370	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01560000
0009E8	E3D9E34040400F38			371+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				372	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01570000
0009F0	C5C4404040400F38			373+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				374	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 01580000
0009F8	C5C4D4D240400F38			375+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				376	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	01590000
000A00	D4E5D64040401030			377+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				378	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	01600000
000A08	D7C1C3D240401030			379+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				380	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	01610000
000A10	E4D5D7D240401030			381+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				382	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01620000
000A18	E9C1D74040401038			383+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				384	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	01630000
000A20	C3D7404040401034			385+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				386	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01640000
000A28	C1D7404040401038			387+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				388	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01650000
000A30	E2D7404040401038			389+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				390	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	01660000
000A38	D4D7404040401030			391+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				392	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	01670000
000A40	C4D7404040401030			393+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				394 *	----- *	01680000
				395 *		* 01690000
				396 *	INDEX TO OP CODE TABLE	* 01700000
				397 *		* 01710000
				398 *	----- *	01720000
000A48		00000		399	ORG DISOP360+0	01730000
000000				400 OPINDEX	DS OA	01740000
				401	OPCODE TYPE=INDEX	01750000
000000	00000400			402+	DC A(MACH00)	01100000
000004	00000000			403+	DC A(0)	01100000
000008	00000000			404+	DC A(0)	01100000
00000C	00000000			405+	DC A(0)	01100000
000010	00000408			406+	DC A(MACH04)	01100000
000014	00000416			407+	DC A(MACH05)	01100000
000018	0000042A			408+	DC A(MACH06)	01100000
00001C	0000043E			409+	DC A(MACH07)	01100000
000020	00000446			410+	DC A(MACH08)	01100000
000024	0000044E			411+	DC A(MACH09)	01100000
000028	00000456			412+	DC A(MACH0A)	01100000
00002C	00000000			413+	DC A(0)	01100000
000030	00000000			414+	DC A(0)	01100000
000034	00000000			415+	DC A(0)	01100000
000038	00000000			416+	DC A(0)	01100000
00003C	00000000			417+	DC A(0)	01100000
000040	0000046A			418+	DC A(MACH10)	01100000
000044	00000472			419+	DC A(MACH11)	01100000
000048	0000047A			420+	DC A(MACH12)	01100000
00004C	00000482			421+	DC A(MACH13)	01100000
000050	0000048A			422+	DC A(MACH14)	01100000
000054	00000492			423+	DC A(MACH15)	01100000
000058	0000049A			424+	DC A(MACH16)	01100000
00005C	000004A2			425+	DC A(MACH17)	01100000
000060	000004AA			426+	DC A(MACH18)	01100000
000064	000004B2			427+	DC A(MACH19)	01100000
000068	000004BA			428+	DC A(MACH1A)	01100000
00006C	000004C2			429+	DC A(MACH1B)	01100000
000070	000004CA			430+	DC A(MACH1C)	01100000
000074	000004D8			431+	DC A(MACH1D)	01100000
000078	000004E6			432+	DC A(MACH1E)	01100000
00007C	000004EE			433+	DC A(MACH1F)	01100000
000080	000004F6			434+	DC A(MACH20)	01100000
000084	00000504			435+	DC A(MACH21)	01100000
000088	00000512			436+	DC A(MACH22)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00008C	00000520			437+	DC	A(MACH23)	01100000
000090	0000052E			438+	DC	A(MACH24)	01100000
000094	0000053C			439+	DC	A(MACH25)	01100000
000098	0000054A			440+	DC	A(MACH26)	01100000
00009C	00000558			441+	DC	A(MACH27)	01100000
0000A0	00000566			442+	DC	A(MACH28)	01100000
0000A4	00000574			443+	DC	A(MACH29)	01100000
0000A8	00000582			444+	DC	A(MACH2A)	01100000
0000AC	00000590			445+	DC	A(MACH2B)	01100000
0000B0	0000059E			446+	DC	A(MACH2C)	01100000
0000B4	000005AC			447+	DC	A(MACH2D)	01100000
0000B8	000005BA			448+	DC	A(MACH2E)	01100000
0000BC	000005C8			449+	DC	A(MACH2F)	01100000
0000C0	000005D6			450+	DC	A(MACH30)	01100000
0000C4	000005E4			451+	DC	A(MACH31)	01100000
0000C8	000005F2			452+	DC	A(MACH32)	01100000
0000CC	00000600			453+	DC	A(MACH33)	01100000
0000D0	0000060E			454+	DC	A(MACH34)	01100000
0000D4	0000061C			455+	DC	A(MACH35)	01100000
0000D8	0000062A			456+	DC	A(MACH36)	01100000
0000DC	00000638			457+	DC	A(MACH37)	01100000
0000E0	00000646			458+	DC	A(MACH38)	01100000
0000E4	00000654			459+	DC	A(MACH39)	01100000
0000E8	00000662			460+	DC	A(MACH3A)	01100000
0000EC	00000670			461+	DC	A(MACH3B)	01100000
0000F0	0000067E			462+	DC	A(MACH3C)	01100000
0000F4	0000068C			463+	DC	A(MACH3D)	01100000
0000F8	0000069A			464+	DC	A(MACH3E)	01100000
0000FC	000006A8			465+	DC	A(MACH3F)	01100000
000100	000006B6			466+	DC	A(MACH40)	01100000
000104	000006BE			467+	DC	A(MACH41)	01100000
000108	000006C6			468+	DC	A(MACH42)	01100000
00010C	000006CE			469+	DC	A(MACH43)	01100000
000110	000006D6			470+	DC	A(MACH44)	01100000
000114	000006DE			471+	DC	A(MACH45)	01100000
000118	000006F2			472+	DC	A(MACH46)	01100000
00011C	00000706			473+	DC	A(MACH47)	01100000
000120	0000070E			474+	DC	A(MACH48)	01100000
000124	00000716			475+	DC	A(MACH49)	01100000
000128	0000071E			476+	DC	A(MACH4A)	01100000
00012C	00000726			477+	DC	A(MACH4B)	01100000
000130	0000072E			478+	DC	A(MACH4C)	01100000
000134	00000000			479+	DC	A(0)	01100000
000138	00000736			480+	DC	A(MACH4E)	01100000
00013C	0000073E			481+	DC	A(MACH4F)	01100000
000140	00000746			482+	DC	A(MACH50)	01100000
000144	00000000			483+	DC	A(0)	01100000
000148	00000000			484+	DC	A(0)	01100000
00014C	00000000			485+	DC	A(0)	01100000
000150	0000074E			486+	DC	A(MACH54)	01100000
000154	00000756			487+	DC	A(MACH55)	01100000
000158	0000075E			488+	DC	A(MACH56)	01100000
00015C	00000766			489+	DC	A(MACH57)	01100000
000160	0000076E			490+	DC	A(MACH58)	01100000
000164	00000776			491+	DC	A(MACH59)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000168	0000077E			492+	DC	A(MACH5A)	01100000
00016C	00000786			493+	DC	A(MACH5B)	01100000
000170	0000078E			494+	DC	A(MACH5C)	01100000
000174	0000079C			495+	DC	A(MACH5D)	01100000
000178	000007AA			496+	DC	A(MACH5E)	01100000
00017C	000007B2			497+	DC	A(MACH5F)	01100000
000180	000007BA			498+	DC	A(MACH60)	01100000
000184	00000000			499+	DC	A(0)	01100000
000188	00000000			500+	DC	A(0)	01100000
00018C	00000000			501+	DC	A(0)	01100000
000190	00000000			502+	DC	A(0)	01100000
000194	00000000			503+	DC	A(0)	01100000
000198	00000000			504+	DC	A(0)	01100000
00019C	000007C8			505+	DC	A(MACH67)	01100000
0001A0	000007D6			506+	DC	A(MACH68)	01100000
0001A4	000007E4			507+	DC	A(MACH69)	01100000
0001A8	000007F2			508+	DC	A(MACH6A)	01100000
0001AC	00000800			509+	DC	A(MACH6B)	01100000
0001B0	0000080E			510+	DC	A(MACH6C)	01100000
0001B4	0000081C			511+	DC	A(MACH6D)	01100000
0001B8	0000082A			512+	DC	A(MACH6E)	01100000
0001BC	00000838			513+	DC	A(MACH6F)	01100000
0001C0	00000846			514+	DC	A(MACH70)	01100000
0001C4	00000000			515+	DC	A(0)	01100000
0001C8	00000000			516+	DC	A(0)	01100000
0001CC	00000000			517+	DC	A(0)	01100000
0001D0	00000000			518+	DC	A(0)	01100000
0001D4	00000000			519+	DC	A(0)	01100000
0001D8	00000000			520+	DC	A(0)	01100000
0001DC	00000000			521+	DC	A(0)	01100000
0001E0	00000854			522+	DC	A(MACH78)	01100000
0001E4	00000862			523+	DC	A(MACH79)	01100000
0001E8	00000870			524+	DC	A(MACH7A)	01100000
0001EC	0000087E			525+	DC	A(MACH7B)	01100000
0001F0	0000088C			526+	DC	A(MACH7C)	01100000
0001F4	0000089A			527+	DC	A(MACH7D)	01100000
0001F8	000008A8			528+	DC	A(MACH7E)	01100000
0001FC	000008B6			529+	DC	A(MACH7F)	01100000
000200	00000000			530+	DC	A(0)	01100000
000204	00000000			531+	DC	A(0)	01100000
000208	000008C4			532+	DC	A(MACH82)	01100000
00020C	000008D2			533+	DC	A(MACH83)	01100000
000210	00000000			534+	DC	A(0)	01100000
000214	00000000			535+	DC	A(0)	01100000
000218	000008DA			536+	DC	A(MACH86)	01100000
00021C	000008E2			537+	DC	A(MACH87)	01100000
000220	000008EA			538+	DC	A(MACH88)	01100000
000224	000008F8			539+	DC	A(MACH89)	01100000
000228	00000906			540+	DC	A(MACH8A)	01100000
00022C	00000914			541+	DC	A(MACH8B)	01100000
000230	00000922			542+	DC	A(MACH8C)	01100000
000234	00000930			543+	DC	A(MACH8D)	01100000
000238	0000093E			544+	DC	A(MACH8E)	01100000
00023C	0000094C			545+	DC	A(MACH8F)	01100000
000240	0000095A			546+	DC	A(MACH90)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000244	00000962			547+	DC	A(MACH91)	01100000
000248	0000096A			548+	DC	A(MACH92)	01100000
00024C	00000972			549+	DC	A(MACH93)	01100000
000250	00000980			550+	DC	A(MACH94)	01100000
000254	00000988			551+	DC	A(MACH95)	01100000
000258	00000990			552+	DC	A(MACH96)	01100000
00025C	00000998			553+	DC	A(MACH97)	01100000
000260	000009A0			554+	DC	A(MACH98)	01100000
000264	00000000			555+	DC	A(0)	01100000
000268	00000000			556+	DC	A(0)	01100000
00026C	00000000			557+	DC	A(0)	01100000
000270	00000000			558+	DC	A(0)	01100000
000274	00000000			559+	DC	A(0)	01100000
000278	00000000			560+	DC	A(0)	01100000
00027C	00000000			561+	DC	A(0)	01100000
000280	00000000			562+	DC	A(0)	01100000
000284	00000000			563+	DC	A(0)	01100000
000288	00000000			564+	DC	A(0)	01100000
00028C	00000000			565+	DC	A(0)	01100000
000290	00000000			566+	DC	A(0)	01100000
000294	00000000			567+	DC	A(0)	01100000
000298	00000000			568+	DC	A(0)	01100000
00029C	00000000			569+	DC	A(0)	01100000
0002A0	00000000			570+	DC	A(0)	01100000
0002A4	00000000			571+	DC	A(0)	01100000
0002A8	00000000			572+	DC	A(0)	01100000
0002AC	00000000			573+	DC	A(0)	01100000
0002B0	00000000			574+	DC	A(0)	01100000
0002B4	00000000			575+	DC	A(0)	01100000
0002B8	00000000			576+	DC	A(0)	01100000
0002BC	00000000			577+	DC	A(0)	01100000
0002C0	00000000			578+	DC	A(0)	01100000
0002C4	00000000			579+	DC	A(0)	01100000
0002C8	00000000			580+	DC	A(0)	01100000
0002CC	00000000			581+	DC	A(0)	01100000
0002D0	00000000			582+	DC	A(0)	01100000
0002D4	00000000			583+	DC	A(0)	01100000
0002D8	00000000			584+	DC	A(0)	01100000
0002DC	00000000			585+	DC	A(0)	01100000
0002E0	00000000			586+	DC	A(0)	01100000
0002E4	00000000			587+	DC	A(0)	01100000
0002E8	00000000			588+	DC	A(0)	01100000
0002EC	00000000			589+	DC	A(0)	01100000
0002F0	00000000			590+	DC	A(0)	01100000
0002F4	00000000			591+	DC	A(0)	01100000
0002F8	00000000			592+	DC	A(0)	01100000
0002FC	00000000			593+	DC	A(0)	01100000
000300	00000000			594+	DC	A(0)	01100000
000304	00000000			595+	DC	A(0)	01100000
000308	00000000			596+	DC	A(0)	01100000
00030C	00000000			597+	DC	A(0)	01100000
000310	00000000			598+	DC	A(0)	01100000
000314	00000000			599+	DC	A(0)	01100000
000318	00000000			600+	DC	A(0)	01100000
00031C	00000000			601+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000320	00000000			602+	DC	A(0)	01100000
000324	00000000			603+	DC	A(0)	01100000
000328	00000000			604+	DC	A(0)	01100000
00032C	00000000			605+	DC	A(0)	01100000
000330	00000000			606+	DC	A(0)	01100000
000334	00000000			607+	DC	A(0)	01100000
000338	00000000			608+	DC	A(0)	01100000
00033C	00000000			609+	DC	A(0)	01100000
000340	00000000			610+	DC	A(0)	01100000
000344	000009A8			611+	DC	A(MACHD1)	01100000
000348	000009B0			612+	DC	A(MACHD2)	01100000
00034C	000009B8			613+	DC	A(MACHD3)	01100000
000350	000009C0			614+	DC	A(MACHD4)	01100000
000354	000009C8			615+	DC	A(MACHD5)	01100000
000358	000009D0			616+	DC	A(MACHD6)	01100000
00035C	000009D8			617+	DC	A(MACHD7)	01100000
000360	00000000			618+	DC	A(0)	01100000
000364	00000000			619+	DC	A(0)	01100000
000368	00000000			620+	DC	A(0)	01100000
00036C	00000000			621+	DC	A(0)	01100000
000370	000009E0			622+	DC	A(MACHDC)	01100000
000374	000009E8			623+	DC	A(MACHDD)	01100000
000378	000009F0			624+	DC	A(MACHDE)	01100000
00037C	000009F8			625+	DC	A(MACHDF)	01100000
000380	00000000			626+	DC	A(0)	01100000
000384	00000000			627+	DC	A(0)	01100000
000388	00000000			628+	DC	A(0)	01100000
00038C	00000000			629+	DC	A(0)	01100000
000390	00000000			630+	DC	A(0)	01100000
000394	00000000			631+	DC	A(0)	01100000
000398	00000000			632+	DC	A(0)	01100000
00039C	00000000			633+	DC	A(0)	01100000
0003A0	00000000			634+	DC	A(0)	01100000
0003A4	00000000			635+	DC	A(0)	01100000
0003A8	00000000			636+	DC	A(0)	01100000
0003AC	00000000			637+	DC	A(0)	01100000
0003B0	00000000			638+	DC	A(0)	01100000
0003B4	00000000			639+	DC	A(0)	01100000
0003B8	00000000			640+	DC	A(0)	01100000
0003BC	00000000			641+	DC	A(0)	01100000
0003C0	00000000			642+	DC	A(0)	01100000
0003C4	00000A00			643+	DC	A(MACHF1)	01100000
0003C8	00000A08			644+	DC	A(MACHF2)	01100000
0003CC	00000A10			645+	DC	A(MACHF3)	01100000
0003D0	00000000			646+	DC	A(0)	01100000
0003D4	00000000			647+	DC	A(0)	01100000
0003D8	00000000			648+	DC	A(0)	01100000
0003DC	00000000			649+	DC	A(0)	01100000
0003E0	00000A18			650+	DC	A(MACHF8)	01100000
0003E4	00000A20			651+	DC	A(MACHF9)	01100000
0003E8	00000A28			652+	DC	A(MACHFA)	01100000
0003EC	00000A30			653+	DC	A(MACHFB)	01100000
0003F0	00000A38			654+	DC	A(MACHFC)	01100000
0003F4	00000A40			655+	DC	A(MACHFD)	01100000
0003F8	00000000			656+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0003FC	00000000			657+	DC A(0)	01100000
				658	COPY DISASMDA	01760000
				659	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				660	PRINT OFF	00020000
				871	PRINT ON	02130000
				872	.DA020 ANOP	02140000
				873	*-----*	01770000
				874	*	* 01780000
				875	* COMMON DATA MAP	* 01790000
				876	*	* 01800000
				877	*-----*	01810000
				878	DISASM00 DISASMCM TYPE=DSECT GP99137	01820000
				879+	PRINT OFF	00280000
				1510+	PRINT ON	06440000
				1511+	*-----*	06460000
				1512+	*	* 06470000
				1513+	* ABEND REASON CODES	* 06480000
				1514+	*	* 06490000
				1515+	*-----*	06500000
	00001	1516+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1517+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1518+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1519+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1520+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1523+R0	EQU	0		00070000
	00001	1524+R1	EQU	1		00080000
	00002	1525+R2	EQU	2		00090000
	00003	1526+R3	EQU	3		00100000
	00004	1527+R4	EQU	4		00110000
	00005	1528+R5	EQU	5		00120000
	00006	1529+R6	EQU	6		00130000
	00007	1530+R7	EQU	7		00140000
	00008	1531+R8	EQU	8		00150000
	00009	1532+R9	EQU	9		00160000
	0000A	1533+R10	EQU	10		00170000
	0000B	1534+R11	EQU	11		00180000
	0000C	1535+R12	EQU	12		00190000
	0000D	1536+R13	EQU	13		00200000
	0000E	1537+R14	EQU	14		00210000
	0000F	1538+R15	EQU	15		00220000
000000		1540	END		DISOP360	01830000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000010	
0001	0001	OC	000014	
0001	0001	OC	000018	
0001	0001	OC	00001C	
0001	0001	OC	000020	
0001	0001	OC	000024	
0001	0001	OC	000028	
0001	0001	OC	000040	
0001	0001	OC	000044	
0001	0001	OC	000048	
0001	0001	OC	00004C	
0001	0001	OC	000050	
0001	0001	OC	000054	
0001	0001	OC	000058	
0001	0001	OC	00005C	
0001	0001	OC	000060	
0001	0001	OC	000064	
0001	0001	OC	000068	
0001	0001	OC	00006C	
0001	0001	OC	000070	
0001	0001	OC	000074	
0001	0001	OC	000078	
0001	0001	OC	00007C	
0001	0001	OC	000080	
0001	0001	OC	000084	
0001	0001	OC	000088	
0001	0001	OC	00008C	
0001	0001	OC	000090	
0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
0001	0001	OC	0000A0	
0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
0001	0001	OC	0000BC	
0001	0001	OC	0000C0	
0001	0001	OC	0000C4	
0001	0001	OC	0000C8	
0001	0001	OC	0000CC	
0001	0001	OC	0000D0	
0001	0001	OC	0000D4	
0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	
0001	0001	OC	0000EC	
0001	0001	OC	0000F0	
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
0001	0001	OC	000110	
0001	0001	OC	000114	
0001	0001	OC	000118	
0001	0001	OC	00011C	
0001	0001	OC	000120	
0001	0001	OC	000124	
0001	0001	OC	000128	
0001	0001	OC	00012C	
0001	0001	OC	000130	
0001	0001	OC	000138	
0001	0001	OC	00013C	
0001	0001	OC	000140	
0001	0001	OC	000150	
0001	0001	OC	000154	
0001	0001	OC	000158	
0001	0001	OC	00015C	
0001	0001	OC	000160	
0001	0001	OC	000164	
0001	0001	OC	000168	
0001	0001	OC	00016C	
0001	0001	OC	000170	
0001	0001	OC	000174	
0001	0001	OC	000178	
0001	0001	OC	00017C	
0001	0001	OC	000180	
0001	0001	OC	00019C	
0001	0001	OC	0001A0	
0001	0001	OC	0001A4	
0001	0001	OC	0001A8	
0001	0001	OC	0001AC	
0001	0001	OC	0001B0	
0001	0001	OC	0001B4	
0001	0001	OC	0001B8	
0001	0001	OC	0001BC	
0001	0001	OC	0001C0	
0001	0001	OC	0001E0	
0001	0001	OC	0001E4	
0001	0001	OC	0001E8	
0001	0001	OC	0001EC	
0001	0001	OC	0001F0	
0001	0001	OC	0001F4	
0001	0001	OC	0001F8	
0001	0001	OC	0001FC	
0001	0001	OC	000208	
0001	0001	OC	00020C	
0001	0001	OC	000218	
0001	0001	OC	00021C	
0001	0001	OC	000220	
0001	0001	OC	000224	
0001	0001	OC	000228	

POS.ID REL.ID FLAGS ADDRESS ASM 0201 00.48 07/11/18

0001	0001	OC	00022C
0001	0001	OC	000230
0001	0001	OC	000234
0001	0001	OC	000238
0001	0001	OC	00023C
0001	0001	OC	000240
0001	0001	OC	000244
0001	0001	OC	000248
0001	0001	OC	00024C
0001	0001	OC	000250
0001	0001	OC	000254
0001	0001	OC	000258
0001	0001	OC	00025C
0001	0001	OC	000260
0001	0001	OC	000344
0001	0001	OC	000348
0001	0001	OC	00034C
0001	0001	OC	000350
0001	0001	OC	000354
0001	0001	OC	000358
0001	0001	OC	00035C
0001	0001	OC	000370
0001	0001	OC	000374
0001	0001	OC	000378
0001	0001	OC	00037C
0001	0001	OC	0003C4
0001	0001	OC	0003C8
0001	0001	OC	0003CC
0001	0001	OC	0003E0
0001	0001	OC	0003E4
0001	0001	OC	0003E8
0001	0001	OC	0003EC
0001	0001	OC	0003F0
0001	0001	OC	0003F4

OP360				CROSS-REFERENCE														PAGE 18			
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18			
\$OPCCA	00001	00000008	01502	00048	00050	00052	00054	00068	00070	00078	00080	00082	00085	00088	00091	00112	00115	00124			
				00127	00130	00133	00136	00139	00148	00151	00157	00160	00163	00172	00175	00200	00202	00224			
				00226	00234	00236	00250	00253	00265	00277	00280	00289	00292	00314	00317	00326	00329	00338			
				00371	00373	00375	00383	00387	00389												
\$OPCCC	00001	00000004	01503	00058	00066	00109	00198	00214	00222	00247	00274	00343	00363	00385							
\$OPCCL	00001	00000002	01504	00056	00060	00062	00212	00216	00218	00334	00341	00345	00347	00361	00365	00367					
\$OPEXT	00001	00000080	01498	00039	00194																
\$OPMASK	00001	00000001	01505	00030	00072	00075	00082	00085	00088	00091	00094	00097	00100	00103	00106	00109	00112	00115			
				00118	00121	00124	00127	00130	00133	00136	00139	00142	00145	00148	00151	00154	00157	00160			
				00163	00166	00169	00172	00175	00228	00231	00238	00241	00244	00247	00250	00253	00256	00259			
				00262	00265	00268	00271	00274	00277	00280	00283	00286	00289	00292	00297	00308	00311	00314			
\$OPNCMNT	00001	00000020	01500	00317	00320	00323	00326	00329	00338	01161											
				00028	00030	00039	00041	00043	00048	00050	00052	00054	00056	00058	00060	00062	00064	00066			
				00068	00070	00072	00075	00078	00080	00082	00085	00088	00091	00094	00097	00100	00103	00106			
				00109	00112	00115	00118	00121	00124	00127	00130	00133	00136	00139	00142	00145	00148	00151			
				00154	00157	00160	00163	00166	00169	00172	00175	00178	00180	00182	00184	00186	00194	00196			
				00198	00200	00202	00204	00206	00208	00210	00212	00214	00216	00218	00220	00222	00224	00226			
				00228	00231	00234	00236	00238	00241	00244	00247	00250	00253	00256	00259	00262	00265	00268			
				00271	00274	00277	00280	00283	00286	00289	00292	00297	00300	00304	00306	00308	00311	00314			
				00317	00320	00323	00326	00329	00332	00334	00336	00338	00341	00343	00345	00347	00349	00355			
				00357	00359	00361	00363	00365	00367	00369	00371	00373	00375	00377	00379	00381	00383	00385			
				00387	00389	00391	00393														
\$OPREF	00001	00000010	01501	00178	00180	00182	00184	00186	00188	00191	00194	00196	00198	00200	00202	00204	00206	00208			
				00210	00212	00214	00216	00218	00220	00222	00224	00226	00228	00231	00234	00236	00238	00241			
				00244	00247	00250	00253	00256	00259	00262	00265	00268	00271	00274	00277	00280	00283	00286			
				00289	00292	00297	00304	00306	00332	00334	00336	00338	00341	00343	00345	00347	00349	00355			
				00357	00359	00361	00363	00365	00367	00369	00371	00373	00375	00377	00379	00381	00383	00385			
				00387	00389	00391	00393														
\$OPRR1	00001	00000001	01475	00033	00036	00041	00043	00048	00050	00052	00054	00056	00058	00060	00062	00064	00066	00068			
				00070	00072	00075	00078	00080	00082	00085	00088	00091	00094	00097	00100	00103	00106	00109			
				00112	00115	00118	00121	00124	00127	00130	00133	00136	00139	00142	00145	00148	00151	00154			
				00157	00160	00163	00166	00169	00172	00175											
\$OPRR2	00001	00000002	01476	00045																	
\$OPRR3	00001	00000003	01477	00039																	
\$OPRR4	00001	00000004	01478	00030																	
\$OPRSI	00001	0000000B	01486	00300																	
\$OPRS1	00001	0000000C	01487	00308	00311	00314	00317	00320	00323	00326	00329										
\$OPRS2	00001	0000000D	01488	00304	00306	00332	00349														
\$OPRX	00001	00000007	01481	00178	00180	00182	00184	00186	00188	00191	00194	00196	00198	00200	00202	00204	00206	00208			
				00210	00212	00214	00216	00218	00220	00222	00224	00226	00228	00231	00234	00236	00238	00241			
				00244	00247	00250	00253	00256	00259	00262	00265	00268	00271	00274	00277	00280	00283	00286			
				00289	00292																
\$OPS	00001	00000009	01483	00297	00338																
\$OPSI	00001	0000000A	01484	00334	00336	00341	00343	00345	00347												
\$OPSS1	00001	0000000F	01490	00355	00357	00359	00361	00363	00365	00367	00369	00371	00373	00375							
\$OPSS2	00001	00000010	01491	00377	00379	00381	00383	00385	00387	00389	00391	00393									
\$OP SVC	00001	00000040	01499	00045																	
\$PFTRC	00001	00000001	01013	01248	01250																
\$PRT PRT	00001	000000D7	01372	01358	01379																
\$PRT SUBH	00001	000000E2	01371	01254																	
AOP	00004	000000AC	00919	01142																	
APR	00004	000000B8	00921	01361																	
APU	00004	000000BC	00922	01382																	
BASEDSCT	00001	00000000	00678	00686																	
BLKTRT	00001	00000A68	01419	01420	01422	01424	01426	01428	01430	01432	01434	01436	01438	01440	01442	01444					

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
COMMCLR	00004	000000F8	00948	00968 00972	
COMMDWRD	00008	00000000	00886	01273 01274	
COMMFILL	00001	00000161	00989	01318	
COMMHXCH	00016	00000275	01038	01039	
COMMHXTR	00016	00000185	01039	01265 01268 01271 01275	
COMMNPR	00001	000003C7	01094	01095 01097 01099 01101 01103 01105 01107 01109 01111 01113 01115 01117 01119	
COMMPOL	00001	00000162	00990	01310 01325	
COMMPRT	00001	000002C7	01065	01066 01068 01070 01072 01074 01076 01078 01080 01082 01084 01086 01088	
COMMSUBH	00133	0000016D	01033	01251	
COMMSUBL	00002	00000154	00983	01252 01252 01253	
DATADSCT	00001	00000000	00693	00714	
DISASM00	00001	00000000	00880	00893 01132 01209 01246 01307 01343	
DISOP360	00001	00000000	00022	00023 00399 01540	
DSCTDSCT	00001	00000000	00721	00727	
ESDDATA	00001	00000000	00734	00757	
ESDNAME	00008	0000000E	00738	00753	
EXGETOPC	00006	00000554	01173	01166	
GETOPEXT	00004	00000546	01169	01162	
GETOPLN	00001	0000055A	01174	01140	
GETOPNOT	00004	0000054E	01171	01145 01155 01160 01168	
GETOPTMK	00004	00000526	01161	01146	
GETOPWRK	00006	0000055E	01175	01165 01165 01167 01173	
HEXTRT	00001	00000868	01401	01402 01404 01406 01408 01410	
INTTRT	00001	00000968	01412	01413 01415 01417	
LABLDSCT	00001	00000000	00764	00780	
MACHDC	00006	000009E0	00369	00622	
MACHDD	00006	000009E8	00371	00623	
MACHDE	00006	000009F0	00373	00624	
MACHDF	00006	000009F8	00375	00625	
MACHD1	00006	000009A8	00355	00611	
MACHD2	00006	000009B0	00357	00612	
MACHD3	00006	000009B8	00359	00613	
MACHD4	00006	000009C0	00361	00614	
MACHD5	00006	000009C8	00363	00615	
MACHD6	00006	000009D0	00365	00616	
MACHD7	00006	000009D8	00367	00617	
MACHFA	00006	00000A28	00387	00652	
MACHFB	00006	00000A30	00389	00653	
MACHFC	00006	00000A38	00391	00654	
MACHFD	00006	00000A40	00393	00655	
MACHF1	00006	00000A00	00377	00643	
MACHF2	00006	00000A08	00379	00644	
MACHF3	00006	00000A10	00381	00645	
MACHF8	00006	00000A18	00383	00650	
MACHF9	00006	00000A20	00385	00651	
MACH0A	00006	00000456	00045	00412	
MACH00	00006	00000400	00028	00402	
MACH04	00006	00000408	00030	00406	
MACH05	00006	00000416	00033	00407	
MACH06	00006	0000042A	00036	00408	
MACH07	00006	0000043E	00039	00409	
MACH08	00006	00000446	00041	00410	
MACH09	00006	0000044E	00043	00411	
MACH1A	00006	000004BA	00068	00428	
MACH1B	00006	000004C2	00070	00429	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH1C	00006	000004CA	00072	00430	
MACH1D	00006	000004D8	00075	00431	
MACH1E	00006	000004E6	00078	00432	
MACH1F	00006	000004EE	00080	00433	
MACH10	00006	0000046A	00048	00418	
MACH11	00006	00000472	00050	00419	
MACH12	00006	0000047A	00052	00420	
MACH13	00006	00000482	00054	00421	
MACH14	00006	0000048A	00056	00422	
MACH15	00006	00000492	00058	00423	
MACH16	00006	0000049A	00060	00424	
MACH17	00006	000004A2	00062	00425	
MACH18	00006	000004AA	00064	00426	
MACH19	00006	000004B2	00066	00427	
MACH2A	00006	00000582	00112	00444	
MACH2B	00006	00000590	00115	00445	
MACH2C	00006	0000059E	00118	00446	
MACH2D	00006	000005AC	00121	00447	
MACH2E	00006	000005BA	00124	00448	
MACH2F	00006	000005C8	00127	00449	
MACH20	00006	000004F6	00082	00434	
MACH21	00006	00000504	00085	00435	
MACH22	00006	00000512	00088	00436	
MACH23	00006	00000520	00091	00437	
MACH24	00006	0000052E	00094	00438	
MACH25	00006	0000053C	00097	00439	
MACH26	00006	0000054A	00100	00440	
MACH27	00006	00000558	00103	00441	
MACH28	00006	00000566	00106	00442	
MACH29	00006	00000574	00109	00443	
MACH3A	00006	00000662	00160	00460	
MACH3B	00006	00000670	00163	00461	
MACH3C	00006	0000067E	00166	00462	
MACH3D	00006	0000068C	00169	00463	
MACH3E	00006	0000069A	00172	00464	
MACH3F	00006	000006A8	00175	00465	
MACH30	00006	000005D6	00130	00450	
MACH31	00006	000005E4	00133	00451	
MACH32	00006	000005F2	00136	00452	
MACH33	00006	00000600	00139	00453	
MACH34	00006	0000060E	00142	00454	
MACH35	00006	0000061C	00145	00455	
MACH36	00006	0000062A	00148	00456	
MACH37	00006	00000638	00151	00457	
MACH38	00006	00000646	00154	00458	
MACH39	00006	00000654	00157	00459	
MACH4A	00006	0000071E	00200	00476	
MACH4B	00006	00000726	00202	00477	
MACH4C	00006	0000072E	00204	00478	
MACH4E	00006	00000736	00206	00480	
MACH4F	00006	0000073E	00208	00481	
MACH40	00006	000006B6	00178	00466	
MACH41	00006	000006BE	00180	00467	
MACH42	00006	000006C6	00182	00468	
MACH43	00006	000006CE	00184	00469	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH44	00006	000006D6	00186	00470	
MACH45	00006	000006DE	00188	00471	
MACH46	00006	000006F2	00191	00472	
MACH47	00006	00000706	00194	00473	
MACH48	00006	0000070E	00196	00474	
MACH49	00006	00000716	00198	00475	
MACH5A	00006	0000077E	00224	00492	
MACH5B	00006	00000786	00226	00493	
MACH5C	00006	0000078E	00228	00494	
MACH5D	00006	0000079C	00231	00495	
MACH5E	00006	000007AA	00234	00496	
MACH5F	00006	000007B2	00236	00497	
MACH50	00006	00000746	00210	00482	
MACH54	00006	0000074E	00212	00486	
MACH55	00006	00000756	00214	00487	
MACH56	00006	0000075E	00216	00488	
MACH57	00006	00000766	00218	00489	
MACH58	00006	0000076E	00220	00490	
MACH59	00006	00000776	00222	00491	
MACH6A	00006	000007F2	00250	00508	
MACH6B	00006	00000800	00253	00509	
MACH6C	00006	0000080E	00256	00510	
MACH6D	00006	0000081C	00259	00511	
MACH6E	00006	0000082A	00262	00512	
MACH6F	00006	00000838	00265	00513	
MACH60	00006	000007BA	00238	00498	
MACH67	00006	000007C8	00241	00505	
MACH68	00006	000007D6	00244	00506	
MACH69	00006	000007E4	00247	00507	
MACH7A	00006	00000870	00277	00524	
MACH7B	00006	0000087E	00280	00525	
MACH7C	00006	0000088C	00283	00526	
MACH7D	00006	0000089A	00286	00527	
MACH7E	00006	000008A8	00289	00528	
MACH7F	00006	000008B6	00292	00529	
MACH70	00006	00000846	00268	00514	
MACH78	00006	00000854	00271	00522	
MACH79	00006	00000862	00274	00523	
MACH8A	00006	00000906	00314	00540	
MACH8B	00006	00000914	00317	00541	
MACH8C	00006	00000922	00320	00542	
MACH8D	00006	00000930	00323	00543	
MACH8E	00006	0000093E	00326	00544	
MACH8F	00006	0000094C	00329	00545	
MACH82	00006	000008C4	00297	00532	
MACH83	00006	000008D2	00300	00533	
MACH86	00006	000008DA	00304	00536	
MACH87	00006	000008E2	00306	00537	
MACH88	00006	000008EA	00308	00538	
MACH89	00006	000008F8	00311	00539	
MACH90	00006	0000095A	00332	00546	
MACH91	00006	00000962	00334	00547	
MACH92	00006	0000096A	00336	00548	
MACH93	00006	00000972	00338	00549	
MACH94	00006	00000980	00341	00550	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH95	00006	00000988	00343	00551	
MACH96	00006	00000990	00345	00552	
MACH97	00006	00000998	00347	00553	
MACH98	00006	000009A0	00349	00554	
MAINRSV	00004	00000858	01399	01308 01314 01316 01320 01323 01329	
NBLTRT	00001	00000B68	01446	01447 01449	
OPDSECT	00001	00000000	01468	01143 01506	
OPFLAGS	00001	00000007	01497	01161	
OPFLAG1	00001	00000001	01470	01150	
OPFLAG2	00001	00000002	01471	01152	
OPFLAG3	00001	00000003	01472	01154	
OPMASK	00006	00000008	01507	01167	
OPMNEM	00006	00000000	01469	01470 01471 01472	
PRINTDAT	00004	000006F0	01359	01255	
PRINTFG1	00001	00000165	01006	01248 01250	
PRINTMVR	00006	000006E6	01356	01353	
PRINTREC	00004	000006EC	01358	01277 01355	
PRINTREX	00004	000006FE	01363	01347	
PRINTRSV	00004	00000848	01398	01344 01354 01359 01363 01380 01384	
PRTBLOK	00001	0000070E	01368	01360	
PRTCC	00001	0000070F	01375	01364	
PRTCMD	00001	0000070E	01369	01254 01358 01379	
PRTDATA	00132	00000710	01376	01262 01263 01264 01265 01266 01267 01268 01269 01270 01271 01272 01274 01275 01276 01348	
				01356 01365 01365	
PUNBLOK	00001	000007B2	01387	01381	
PUNDATA	00080	000007B4	01393	01378	
REFDSCT	00001	00000000	00787	00797	
RLDDATA	00001	00000000	00804	00822	
R0	00001	00000000	01523	01133 01139 01139 01140 01163 01211 01230 01247 01286 01310 01315 01319 01325 01348 01349	
				01351 01354	
R1	00001	00000001	01524	01135 01149 01169 01171 01173 01210 01212 01216 01216 01217 01219 01221 01308 01314 01315	
				01316 01320 01344 01346 01356 01359 01360 01363 01378 01380 01381 01384	
R11	00001	0000000B	01534	01132 01209 01246 01307 01343	
R12	00001	0000000C	01535	01223	
R14	00001	0000000E	01537	01136 01137 01138 01140 01147 01147 01149 01151 01153 01154 01156 01156 01157 01158 01169	
				01170 01172 01224 01231 01255 01277 01287 01308 01319 01320 01321 01323 01329 01330 01344	
				01354 01359 01362 01363 01366 01380 01383 01384 01385	
R15	00001	0000000F	01538	01133 01134 01134 01135 01137 01141 01142 01143 01144 01144 01158 01159 01159 01171 01211	
				01230 01247 01286 01317 01317 01318 01323 01329 01345 01345 01346 01349 01351 01352 01353	
				01361 01362 01382 01383	
R2	00001	00000002	01525	01148 01148 01150 01151 01152 01153	
R4	00001	00000004	01527	01163 01164 01166	
R5	00001	00000005	01528	01256 01259 01279 01279 01280 01282 01284	
SYMDATA	00001	00000000	00829	00834	
TPODA1A	00008	00000017	01291	01264 01264 01265 01265 01266 01266	
TPODA1B	00008	00000020	01292	01267 01267 01268 01268 01269 01269	
TPODA2A	00008	0000002A	01293	01270 01270 01271 01271 01272 01272	
TPODA2B	00008	00000033	01294	01274 01274 01275 01275 01276 01276	
TPOMOD	00008	00000003	01289	01262 01262	
TPOTID	00008	0000000D	01290	01263 01263	
TRACEPEN	00004	00000662	01286	01249 01258 01281	
TRACEPIN	00004	00000646	01279	01257 01261	
TRACEPPR	00004	000005E2	01260	01283 01285	
TRACESHD	00027	00000668	01295	01251 01251 01252	
TRACE010	00002	00000580	01220	01218	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TRACE020	00002	000005A8	01229	01213	
TRCESAVE	00004	00000808	01397	01133 01169 01171 01211 01230 01247 01286	
TRCURR	00004	000000D4	00934	01212 01221 01256 01280	
TRDATA1	00008	000000E0	00937	01225 01227 01227	
TRDATA2	00008	000000E8	00938	01226 01228 01228	
TREDATA1	00008	00000010	01459	01225 01264 01267	
TREDATA2	00008	00000018	01460	01226 01270 01273	
TREID	00008	00000008	01458	01224 01263	
TREMOD	00008	00000000	01457	01223 01260 01262	
TRENTY	00001	00000000	01456	01210 01259 01278 01278 01461	
TRENTYRL	00001	00000020	01461	01216 01278 01279	
TRLAST	00004	000000CC	00932	01217 01282	
TR1ST	00004	000000C4	00930	01219 01284	
USNGDSCT	00001	00000000	00841	00855	
VERPSECT	00001	00000000	00862	00868	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 183

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 62

TOTAL RECORDS PRINTED 1199

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOP360 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISOP370	SD	0001	000000	001018		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOP370 (MODIFIED ALIAS OF 370 TABLE FOR DEFAULT)	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES FOR SYSTEM 370	* 00070000
				8 *		* 00080000
				9 *	TWO-BYTE OPCODE SUPPORT ADDED:	* 00090000
				10 *		* 00100000
				11 *	ADDRESS FOR EACH TWO-BYTE OPCODE IS IN A SECONDARY TABLE,	* 00110000
				12 *	GENERATED WITH A TYPE=DEFINE. OPERANDS ARE:	* 00120000
				13 *	1) MACHINE CODE IN HEX	* 00130000
				14 *	2) AND FLAG FOR SECOND BYTE	* 00140000
				15 *	3) RIGHT SHIFT AMOUNT FOR MASKED VALUE	* 00150000
				16 *	4) LARGEST MASKED/SHIFTED VALUE	* 00160000
				17 *		* 00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	* 00180000
				19 *		* 00190000
				20 *	-----*	00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	00010000
				23 *		* 00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				25 *		* 00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				27 *		* 00060000
				28 *	-----*	00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				31	GBLC &TROPT,&DAPRT,&COMPT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISOP370 CSECT , DEFAULT TABLE GP10015	00220000
000000				34	ORG DISOP370+(256*4)	00230000
				35 *	-----*	00240000
				36 *	OPCODE TABLE FOR S/370 (WITHOUT SSM)	* 00250000
				37 *	-----*	00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40	OPCODE 04,SPM,\$OPRR4,MASK=000F GP10018	00280000
000408	E2D7D44040400421			41+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000410	000F00000000			42+	DC XL6'000F00000000'	00950000
				43	OPCODE 05,BALR,\$OPRR1,'CALL'	00290000
000416	C2C1D3D940400100			44+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
00041E	C3C1D3D340404040			45+	DC CL12'CALL'	00980000
				46	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00300000
00042A	C2C3E3D940400100			47+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000432	D3D6D6D740404040			48+	DC CL12'LOOP'	00980000
				49	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00310000
00043E	C2C3D940404003A0			50+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				51	OPCODE 08,SSK,\$OPRR1	00320000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000446	E2E2D24040400120			52+MACH08	DC CL6'SSK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				53	OPCODE 09,ISK,\$OPRR1	00330000
00044E	C9E2D24040400120			54+MACH09	DC CL6'ISK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				55	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OP SVC	GP10035 00340000
000456	E2E5C34040400240			56+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OP SVC)	00910000
00045E	E2E5C34040404040			57+	DC CL12'SVC'	00980000
				58 *37B*	OPCODE 0D,BASR,\$OPRR1	00350000
				59	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00360000
00046A	D4E5C3D340400129			60+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000472	0011000000000			61+	DC XL6'0011000000000'	00950000
				62	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00370000
000478	C3D3C3D340400129			63+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000480	0011000000000			64+	DC XL6'0011000000000'	00950000
				65	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00380000
000486	D3D7D94040400128			66+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				67	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00390000
00048E	D3D5D94040400128			68+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00400000
000496	D3E3D94040400128			70+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				71	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00410000
00049E	D3C3D94040400128			72+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				73	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00420000
0004A6	D5D9404040400122			74+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				75	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00430000
0004AE	C3D3D94040400124			76+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				77	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00440000
0004B6	D6D9404040400122			78+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				79	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00450000
0004BE	E7D9404040400122			80+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				81	OPCODE 18,LR,\$OPRR1	00460000
0004C6	D3D9404040400120			82+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				83	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00470000
0004CE	C3D9404040400124			84+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				85	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00480000
0004D6	C1D9404040400128			86+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				87	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00490000
0004DE	E2D9404040400128			88+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				89	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00500000
0004E6	D4D9404040400121			90+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004EE	0010000000000			91+	DC XL6'0010000000000'	00950000
				92	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00510000
0004F4	C4D9404040400121			93+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004FC	0010000000000			94+	DC XL6'0010000000000'	00950000
				95	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00520000
000502	C1D3D94040400128			96+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				97	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00530000
00050A	E2D3D94040400128			98+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				99	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00540000
000512	D3D7C4D940400129			100+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00051A	0099000000000			101+	DC XL6'0099000000000'	00950000
				102	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00550000
000520	D3D5C4D940400129			103+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000528	0099000000000			104+	DC XL6'0099000000000'	00950000
				105	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00560000
00052E	D3E3C4D940400129			106+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000536	009900000000			107+	DC XL6'009900000000'	00950000
				108	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00570000
00053C	D3C3C4D940400129			109+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000544	009900000000			110+	DC XL6'009900000000'	00950000
				111	OPCODE 24,HDR,\$OPRR1,MASK=0099	GP10018 00580000
00054A	C8C4D94040400121			112+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000552	009900000000			113+	DC XL6'009900000000'	00950000
				114	OPCODE 25,LRDR,\$OPRR1,MASK=0099	GP10018 00590000
000558	D3D9C4D940400121			115+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000560	009900000000			116+	DC XL6'009900000000'	00950000
				117	OPCODE 26,MXR,\$OPRR1,MASK=0099	GP10018 00600000
000566	D4E7D94040400121			118+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00056E	009900000000			119+	DC XL6'009900000000'	00950000
				120	OPCODE 27,MXDR,\$OPRR1,MASK=0099	GP10018 00610000
000574	D4E7C4D940400121			121+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00057C	009900000000			122+	DC XL6'009900000000'	00950000
				123	OPCODE 28,LDR,\$OPRR1,MASK=0099	GP10018 00620000
000582	D3C4D94040400121			124+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00058A	009900000000			125+	DC XL6'009900000000'	00950000
				126	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC,MASK=0099	GP10018 00630000
000590	C3C4D94040400125			127+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000598	009900000000			128+	DC XL6'009900000000'	00950000
				129	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00640000
00059E	C1C4D94040400129			130+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005A6	009900000000			131+	DC XL6'009900000000'	00950000
				132	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00650000
0005AC	E2C4D94040400129			133+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005B4	009900000000			134+	DC XL6'009900000000'	00950000
				135	OPCODE 2C,MDR,\$OPRR1,MASK=0099	GP10018 00660000
0005BA	D4C4D94040400121			136+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005C2	009900000000			137+	DC XL6'009900000000'	00950000
				138	OPCODE 2D,DDR,\$OPRR1,MASK=0099	GP10018 00670000
0005C8	C4C4D94040400121			139+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005D0	009900000000			140+	DC XL6'009900000000'	00950000
				141	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00680000
0005D6	C1E6D94040400129			142+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005DE	009900000000			143+	DC XL6'009900000000'	00950000
				144	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00690000
0005E4	E2E6D94040400129			145+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005EC	009900000000			146+	DC XL6'009900000000'	00950000
				147	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00700000
0005F2	D3D7C5D940400129			148+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005FA	009900000000			149+	DC XL6'009900000000'	00950000
				150	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00710000
000600	D3D5C5D940400129			151+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000608	009900000000			152+	DC XL6'009900000000'	00950000
				153	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00720000
00060E	D3E3C5D940400129			154+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000616	009900000000			155+	DC XL6'009900000000'	00950000
				156	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00730000
00061C	D3C3C5D940400129			157+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000624	009900000000			158+	DC XL6'009900000000'	00950000
				159	OPCODE 34,HER,\$OPRR1,MASK=0099	GP10018 00740000
00062A	C8C5D94040400121			160+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000632	009900000000			161+	DC XL6'009900000000'	00950000

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				162	OPCODE 35,LRER,\$OPRR1,MASK=0099	GP10018 00750000
000638	D3D9C5D940400121			163+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000640	0099000000000			164+	DC XL6'0099000000000'	00950000
				165	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00760000
000646	C1E7D94040400129			166+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00064E	0099000000000			167+	DC XL6'0099000000000'	00950000
				168	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00770000
000654	E2E7D94040400129			169+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00065C	0099000000000			170+	DC XL6'0099000000000'	00950000
				171	OPCODE 38,LER,\$OPRR1,MASK=0099	GP10018 00780000
000662	D3C5D94040400121			172+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00066A	0099000000000			173+	DC XL6'0099000000000'	00950000
				174	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00790000
000670	C3C5D94040400129			175+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000678	0099000000000			176+	DC XL6'0099000000000'	00950000
				177	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00800000
00067E	C1C5D94040400129			178+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000686	0099000000000			179+	DC XL6'0099000000000'	00950000
				180	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00810000
00068C	E2C5D94040400129			181+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000694	0099000000000			182+	DC XL6'0099000000000'	00950000
				183	OPCODE 3C,MER,\$OPRR1,MASK=0099	GP10018 00820000
00069A	D4C5D94040400121			184+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0006A2	0099000000000			185+	DC XL6'0099000000000'	00950000
				186	OPCODE 3D,DER,\$OPRR1,MASK=0099	GP10018 00830000
0006A8	C4C5D94040400121			187+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0006B0	0099000000000			188+	DC XL6'0099000000000'	00950000
				189	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00840000
0006B6	C1E4D94040400129			190+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006BE	0099000000000			191+	DC XL6'0099000000000'	00950000
				192	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00850000
0006C4	E2E4D94040400129			193+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006CC	0099000000000			194+	DC XL6'0099000000000'	00950000
				195	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00860000
0006D2	E2E3C84040400730			196+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				197	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00870000
0006DA	D3C1404040400730			198+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				199	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00880000
0006E2	E2E3C34040400730			200+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				201	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00890000
0006EA	C9C3404040400730			202+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				203	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00900000
0006F2	C5E7404040400730			204+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				205	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00910000
0006FA	C2C1D34040400710			206+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
000702	C3C1D3D340404040			207+	DC CL12'CALL'	00980000
				208	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00920000
00070E	C2C3E34040400710			209+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
000716	D3D6D6D740404040			210+	DC CL12'LOOP'	00980000
				211	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00930000
000722	C2C34040404007B0			212+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				213	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00940000
00072A	D3C8404040400730			214+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				215	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00950000
000732	C3C8404040400734			216+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000

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				217	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00960000
00073A	C1C8404040400738			218+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				219	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00970000
000742	E2C8404040400738			220+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				221	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF	00980000
00074A	D4C8404040400730			222+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				223 *37B*	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF	00990000
				224	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF	01000000
000752	C3E5C44040400730			225+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				226	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF	01010000
00075A	C3E5C24040400730			227+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				228	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF	01020000
000762	E2E3404040400730			229+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				230	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01030000
00076A	D540404040400732			231+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				232	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01040000
000772	C3D3404040400734			233+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				234	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01050000
00077A	D640404040400732			235+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				236	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01060000
000782	E740404040400732			237+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				238	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF	01070000
00078A	D340404040400730			239+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				240	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01080000
000792	C340404040400734			241+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				242	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01090000
00079A	C140404040400738			243+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				244	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01100000
0007A2	E240404040400738			245+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				246	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01110000
0007AA	D440404040400731			247+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007B2	001000000000			248+	DC XL6'001000000000'	00950000
				249	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01120000
0007B8	C440404040400731			250+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007C0	001000000000			251+	DC XL6'001000000000'	00950000
				252	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01130000
0007C6	C1D3404040400738			253+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				254	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01140000
0007CE	E2D3404040400738			255+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				256	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01150000
0007D6	E2E3C44040400731			257+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007DE	009000000000			258+	DC XL6'009000000000'	00950000
				259	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01160000
0007E4	D4E7C44040400731			260+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007EC	009000000000			261+	DC XL6'009000000000'	00950000
				262	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01170000
0007F2	D3C4404040400731			263+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0007FA	009000000000			264+	DC XL6'009000000000'	00950000
				265	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01180000
000800	C3C4404040400735			266+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000808	009000000000			267+	DC XL6'009000000000'	00950000
				268	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01190000
00080E	C1C4404040400739			269+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000816	009000000000			270+	DC XL6'009000000000'	00950000
				271	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01200000

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00081C	E2C4404040400739			272+MACH6B	DC CL6 'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000824	0090000000000			273+	DC XL6 '009000000000'	00950000
				274	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01210000
00082A	D4C4404040400731			275+MACH6C	DC CL6 'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000832	0090000000000			276+	DC XL6 '009000000000'	00950000
				277	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01220000
000838	C4C4404040400731			278+MACH6D	DC CL6 'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000840	0090000000000			279+	DC XL6 '009000000000'	00950000
				280	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01230000
000846	C1E6404040400731			281+MACH6E	DC CL6 'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00084E	0090000000000			282+	DC XL6 '009000000000'	00950000
				283	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01240000
000854	E2E6404040400739			284+MACH6F	DC CL6 'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00085C	0090000000000			285+	DC XL6 '009000000000'	00950000
				286	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01250000
000862	E2E3C54040400731			287+MACH70	DC CL6 'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00086A	0090000000000			288+	DC XL6 '009000000000'	00950000
				289	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01260000
000870	D3C5404040400731			290+MACH78	DC CL6 'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000878	0090000000000			291+	DC XL6 '009000000000'	00950000
				292	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01270000
00087E	C3C5404040400735			293+MACH79	DC CL6 'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000886	0090000000000			294+	DC XL6 '009000000000'	00950000
				295	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01280000
00088C	C1C5404040400739			296+MACH7A	DC CL6 'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000894	0090000000000			297+	DC XL6 '009000000000'	00950000
				298	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01290000
00089A	E2C5404040400739			299+MACH7B	DC CL6 'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008A2	0090000000000			300+	DC XL6 '009000000000'	00950000
				301	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01300000
0008A8	D4C5404040400731			302+MACH7C	DC CL6 'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008B0	0090000000000			303+	DC XL6 '009000000000'	00950000
				304	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01310000
0008B6	C4C5404040400731			305+MACH7D	DC CL6 'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008BE	0090000000000			306+	DC XL6 '009000000000'	00950000
				307	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01320000
0008C4	C1E4404040400739			308+MACH7E	DC CL6 'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008CC	0090000000000			309+	DC XL6 '009000000000'	00950000
				310	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01330000
0008D2	E2E4404040400739			311+MACH7F	DC CL6 'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008DA	0090000000000			312+	DC XL6 '009000000000'	00950000
				313 *	SSM PRODUCES MANY FALSE INSTRUCTIONS FOR 31-BIT ADCONS	01340000
				314 *	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01350000
				315	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01360000
0008E0	D3D7E2E640400931			316+MACH82	DC CL6 'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008E8	00FF000000000			317+	DC XL6 '00FF00000000'	00950000
				318	OPCODE 83,DIAG,\$OPRSI	01370000
0008EE	C4C9C1C740400B20			319+MACH83	DC CL6 'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)	00910000
				320 *360*	OPCODE 84,WRD,\$OPRSI,MASK=00FF	GP10018 01380000
				321 *360*	OPCODE 85,RDD,\$OPRSI,MASK=00FF	GP10018 01390000
				322	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF	01400000
0008F6	C2E7C84040400D30			323+MACH86	DC CL6 'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				324	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF	01410000
0008FE	C2E7D3C540400D30			325+MACH87	DC CL6 'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				326	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 01420000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000906	E2D9D34040400C21			327+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
00090E	000F00000000			328+	DC XL6'000F00000000'	00950000
				329	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 01430000
000914	E2D3D34040400C21			330+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
00091C	000F00000000			331+	DC XL6'000F00000000'	00950000
				332	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01440000
000922	E2D9C14040400C29			333+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00092A	000F00000000			334+	DC XL6'000F00000000'	00950000
				335	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01450000
000930	E2D3C14040400C29			336+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000938	000F00000000			337+	DC XL6'000F00000000'	00950000
				338	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 01460000
00093E	E2D9C4D340400C21			339+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000946	000F00000000			340+	DC XL6'000F00000000'	00950000
				341	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 01470000
00094C	E2D3C4D340400C21			342+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000954	000F00000000			343+	DC XL6'000F00000000'	00950000
				344	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01480000
00095A	E2D9C4C140400C29			345+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000962	000F00000000			346+	DC XL6'000F00000000'	00950000
				347	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01490000
000968	E2D3C4C140400C29			348+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000970	000F00000000			349+	DC XL6'000F00000000'	00950000
				350	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF	01500000
000976	E2E3D44040400D30			351+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				352	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01510000
00097E	E3D4404040400A32			353+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				354	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	01520000
000986	D4E5C94040400A30			355+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				356	OPCODE 93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000	GP10018 01530000
00098E	E3E2404040400939			357+MACH93	DC CL6'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000996	00FF00000000			358+	DC XL6'00FF00000000'	00950000
				359	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01540000
00099C	D5C9404040400A32			360+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				361	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	01550000
0009A4	C3D3C94040400A34			362+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				363	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01560000
0009AC	D6C9404040400A32			364+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				365	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01570000
0009B4	E7C9404040400A32			366+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				367	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF	01580000
0009BC	D3D4404040400D30			368+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				369	OPCODE AC,STNSM,\$OPSI,FLAGS=\$OPREF	01590000
0009C4	E2E3D5E2D4400A30			370+MACHAC	DC CL6'STNSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				371	OPCODE AD,STOSM,\$OPSI,FLAGS=\$OPREF	01600000
0009CC	E2E3D6E2D4400A30			372+MACHAD	DC CL6'STOSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				373	OPCODE AE,SIGP,\$OPRS2,FLAGS=\$OPCCA	01610000
0009D4	E2C9C7D740400D28			374+MACHAE	DC CL6'SIGP',AL1(\$OPRS2,\$OPCCA+\$OPNCMNT)	00910000
				375	OPCODE AF,MC,\$OPSI	01620000
0009DC	D4C3404040400A20			376+MACHAF	DC CL6'MC',AL1(\$OPSI,0+\$OPNCMNT)	00910000
				377	OPCODE B1,LRA,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01630000
0009E4	D3D9C14040400738			378+MACHB1	DC CL6'LRA',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				379 TABLEB2	OPCODE B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	01640000
0009EC	5CFF00FF			380+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
0009F0	0000000000000000			381+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				382	OPCODE B202,STIDP,\$OPS,FLAGS=\$OPREF	GP05204 01650000
000DF0			009F8	383+	ORG OPTBB2+4+4*X'02'	GP99137 00740000
0009F8	00000DF0			384+	DC AL4(OP2B202)	GP99137 00750000
0009FC			00DF0	385+	ORG ,	GP99137 00760000
000DF0	E2E3C9C4D7400930			386+OP2B202	DC CL6'STIDP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				387	OPCODE B204,SCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP05204 01660000
000DF8			00A00	388+	ORG OPTBB2+4+4*X'04'	GP99137 00740000
000A00	00000DF8			389+	DC AL4(OP2B204)	GP99137 00750000
000A04			00DF8	390+	ORG ,	GP99137 00760000
000DF8	E2C3D24040400932			391+OP2B204	DC CL6'SCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				392	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP99137 01670000
000E00			00A04	393+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
000A04	00000E00			394+	DC AL4(OP2B205)	GP99137 00750000
000A08			00E00	395+	ORG ,	GP99137 00760000
000E00	E2E3C3D240400932			396+OP2B205	DC CL6'STCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				397	OPCODE B206,SCKC,\$OPS,FLAGS=\$OPREF	GP05204 01680000
000E08			00A08	398+	ORG OPTBB2+4+4*X'06'	GP99137 00740000
000A08	00000E08			399+	DC AL4(OP2B206)	GP99137 00750000
000A0C			00E08	400+	ORG ,	GP99137 00760000
000E08	E2C3D2C340400930			401+OP2B206	DC CL6'SCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				402	OPCODE B207,STCKC,\$OPS,FLAGS=\$OPREF	GP05204 01690000
000E10			00A0C	403+	ORG OPTBB2+4+4*X'07'	GP99137 00740000
000A0C	00000E10			404+	DC AL4(OP2B207)	GP99137 00750000
000A10			00E10	405+	ORG ,	GP99137 00760000
000E10	E2E3C3D2C3400930			406+OP2B207	DC CL6'STCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				407	OPCODE B208,SPT,\$OPS,FLAGS=\$OPREF	GP05204 01700000
000E18			00A10	408+	ORG OPTBB2+4+4*X'08'	GP99137 00740000
000A10	00000E18			409+	DC AL4(OP2B208)	GP99137 00750000
000A14			00E18	410+	ORG ,	GP99137 00760000
000E18	E2D7E34040400930			411+OP2B208	DC CL6'SPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				412	OPCODE B209,STPT,\$OPS,FLAGS=\$OPREF	GP05204 01710000
000E20			00A14	413+	ORG OPTBB2+4+4*X'09'	GP99137 00740000
000A14	00000E20			414+	DC AL4(OP2B209)	GP99137 00750000
000A18			00E20	415+	ORG ,	GP99137 00760000
000E20	E2E3D7E340400930			416+OP2B209	DC CL6'STPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				417	OPCODE B20A,SPKA,\$OPS,FLAGS=\$OPREF	GP05204 01720000
000E28			00A18	418+	ORG OPTBB2+4+4*X'0A'	GP99137 00740000
000A18	00000E28			419+	DC AL4(OP2B20A)	GP99137 00750000
000A1C			00E28	420+	ORG ,	GP99137 00760000
000E28	E2D7D2C140400930			421+OP2B20A	DC CL6'SPKA',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				422	OPCODE B20B,IPK,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01730000
000E30			00A1C	423+	ORG OPTBB2+4+4*X'0B'	GP99137 00740000
000A1C	00000E30			424+	DC AL4(OP2B20B)	GP99137 00750000
000A20			00E30	425+	ORG ,	GP99137 00760000
000E30	C9D7D24040400931			426+OP2B20B	DC CL6'IPK',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E38	0000FFFF0000			427+	DC XL6'0000FFFF0000'	00950000
				428	OPCODE B20D,PTLB,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01740000
000E3E			00A24	429+	ORG OPTBB2+4+4*X'0D'	GP99137 00740000
000A24	00000E3E			430+	DC AL4(OP2B20D)	GP99137 00750000
000A28			00E3E	431+	ORG ,	GP99137 00760000
000E3E	D7E3D3C240400931			432+OP2B20D	DC CL6'PTLB',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E46	0000FFFF0000			433+	DC XL6'0000FFFF0000'	00950000
				434	OPCODE B210,SPX,\$OPS,FLAGS=\$OPREF	GP05204 01750000
000E4C			00A30	435+	ORG OPTBB2+4+4*X'10'	GP99137 00740000
000A30	00000E4C			436+	DC AL4(OP2B210)	GP99137 00750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000A34			00E4C	437+	ORG ,	GP99137 00760000
000E4C	E2D7E74040400930			438+OP2B210	DC CL6'SPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				439	OPCODE B211,STPX,\$OPS,FLAGS=\$OPREF	GP05204 01760000
000E54			00A34	440+	ORG OPTBB2+4+4*X'11'	GP99137 00740000
000A34	00000E54			441+	DC AL4(OP2B211)	GP99137 00750000
000A38			00E54	442+	ORG ,	GP99137 00760000
000E54	E2E3D7E740400930			443+OP2B211	DC CL6'STPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				444	OPCODE B212,STAP,\$OPS,FLAGS=\$OPREF	GP05204 01770000
000E5C			00A38	445+	ORG OPTBB2+4+4*X'12'	GP99137 00740000
000A38	00000E5C			446+	DC AL4(OP2B212)	GP99137 00750000
000A3C			00E5C	447+	ORG ,	GP99137 00760000
000E5C	E2E3C1D740400930			448+OP2B212	DC CL6'STAP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				449	OPCODE B213,RRB,\$OPS,FLAGS=\$OPREF	GP05204 01780000
000E64			00A3C	450+	ORG OPTBB2+4+4*X'13'	GP99137 00740000
000A3C	00000E64			451+	DC AL4(OP2B213)	GP99137 00750000
000A40			00E64	452+	ORG ,	GP99137 00760000
000E64	D9D9C24040400930			453+OP2B213	DC CL6'RRB',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				454	OPCODE B6,STCTL,\$OPRS2,FLAGS=\$OPREF	01790000
000E6C	E2E3C3E3D3400D30			455+MACHB6	DC CL6'STCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				456	OPCODE B7,LCTL,\$OPRS2,FLAGS=\$OPREF	01800000
000E74	D3C3E3D340400D30			457+MACHB7	DC CL6'LCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				458	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC	01810000
000E7C	C3E2404040400D34			459+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				460	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC	01820000
000E84	C3C4E24040400D34			461+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				462	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC	01830000
000E8C	C3D3D44040400E34			463+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				464	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF	01840000
000E94	E2E3C3D440400E30			465+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)	00910000
				466	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA	01850000
000E9C	C9C3D44040400E38			467+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				468	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	01860000
000EA4	D4E5D54040400F30			469+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				470	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	01870000
000EAC	D4E5C34040400F30			471+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				472	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	01880000
000EB4	D4E5E94040400F30			473+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				474	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01890000
000EBC	D5C3404040400F32			475+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				476	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	01900000
000EC4	C3D3C34040400F34			477+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				478	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01910000
000ECC	D6C3404040400F32			479+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				480	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01920000
000ED4	E7C3404040400F32			481+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				482	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	01930000
000EDC	E3D9404040400F30			483+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				484	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01940000
000EE4	E3D9E34040400F38			485+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				486	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01950000
000EEC	C5C4404040400F38			487+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				488	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 01960000
000EF4	C5C4D4D240400F38			489+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				490 *		01970000
				491 *	TO AVOID GETTING SRP EXPANSION THAT WON'T ASSEMBLE, WE CHEAT A	01980000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				492 *	BIT AND DEFINE IT AS 10 DISTINCT INSTRUCTIONS, EXCLUDING THE		01990000
				493 *	INVALID ONES (ROUND NYBBLE > 9)		02000000
				494 *			02010000
				495 *CHEAT*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	GP10155	02020000
				496 TABLEF0	OPCODE F0,X'0F',0,16,TYPE=TABLE	GP10155	02030000
000EFC	5C0F0010			497+OPTBF0	DC C'*,AL1(X'0F',0,16)	GP05204	01040000
000F00	0000000000000000			498+	DC (16+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137	01050000
				499	OPCODE F000,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02040000
000F44		00F00		500+	ORG OPTBF0+4+4*X'00'	GP99137	00740000
000F00	00000F44			501+	DC AL4(OP2F000)	GP99137	00750000
000F04		00F44		502+	ORG ,	GP99137	00760000
000F44	E2D9D74040401239			503+OP2F000	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F4C	00000000FF00			504+	DC XL6'00000000FF00'		00950000
				505	OPCODE F001,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02050000
000F52		00F04		506+	ORG OPTBF0+4+4*X'01'	GP99137	00740000
000F04	00000F52			507+	DC AL4(OP2F001)	GP99137	00750000
000F08		00F52		508+	ORG ,	GP99137	00760000
000F52	E2D9D74040401239			509+OP2F001	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F5A	00000000FF00			510+	DC XL6'00000000FF00'		00950000
				511	OPCODE F002,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02060000
000F60		00F08		512+	ORG OPTBF0+4+4*X'02'	GP99137	00740000
000F08	00000F60			513+	DC AL4(OP2F002)	GP99137	00750000
000F0C		00F60		514+	ORG ,	GP99137	00760000
000F60	E2D9D74040401239			515+OP2F002	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F68	00000000FF00			516+	DC XL6'00000000FF00'		00950000
				517	OPCODE F003,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02070000
000F6E		00F0C		518+	ORG OPTBF0+4+4*X'03'	GP99137	00740000
000F0C	00000F6E			519+	DC AL4(OP2F003)	GP99137	00750000
000F10		00F6E		520+	ORG ,	GP99137	00760000
000F6E	E2D9D74040401239			521+OP2F003	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F76	00000000FF00			522+	DC XL6'00000000FF00'		00950000
				523	OPCODE F004,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02080000
000F7C		00F10		524+	ORG OPTBF0+4+4*X'04'	GP99137	00740000
000F10	00000F7C			525+	DC AL4(OP2F004)	GP99137	00750000
000F14		00F7C		526+	ORG ,	GP99137	00760000
000F7C	E2D9D74040401239			527+OP2F004	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F84	00000000FF00			528+	DC XL6'00000000FF00'		00950000
				529	OPCODE F005,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02090000
000F8A		00F14		530+	ORG OPTBF0+4+4*X'05'	GP99137	00740000
000F14	00000F8A			531+	DC AL4(OP2F005)	GP99137	00750000
000F18		00F8A		532+	ORG ,	GP99137	00760000
000F8A	E2D9D74040401239			533+OP2F005	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F92	00000000FF00			534+	DC XL6'00000000FF00'		00950000
				535	OPCODE F006,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02100000
000F98		00F18		536+	ORG OPTBF0+4+4*X'06'	GP99137	00740000
000F18	00000F98			537+	DC AL4(OP2F006)	GP99137	00750000
000F1C		00F98		538+	ORG ,	GP99137	00760000
000F98	E2D9D74040401239			539+OP2F006	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000FA0	00000000FF00			540+	DC XL6'00000000FF00'		00950000
				541	OPCODE F007,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02110000
000FA6		00F1C		542+	ORG OPTBF0+4+4*X'07'	GP99137	00740000
000F1C	00000FA6			543+	DC AL4(OP2F007)	GP99137	00750000
000F20		00FA6		544+	ORG ,	GP99137	00760000
000FA6	E2D9D74040401239			545+OP2F007	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000FAE	00000000FF00			546+	DC XL6'00000000FF00'		00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				547	OPCODE F008,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 02120000
000FB4			00F20	548+	ORG OPTBF0+4+4*X'08'	GP99137 00740000
000F20	00000FB4			549+	DC AL4(OP2F008)	GP99137 00750000
000F24			00FB4	550+	ORG ,	GP99137 00760000
000FB4	E2D9D74040401239			551+OP2F008	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FBC	00000000FF00			552+	DC XL6'00000000FF00'	00950000
				553	OPCODE F009,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 02130000
000FC2			00F24	554+	ORG OPTBF0+4+4*X'09'	GP99137 00740000
000F24	00000FC2			555+	DC AL4(OP2F009)	GP99137 00750000
000F28			00FC2	556+	ORG ,	GP99137 00760000
000FC2	E2D9D74040401239			557+OP2F009	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FCA	00000000FF00			558+	DC XL6'00000000FF00'	00950000
				559	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	02140000
000FD0	D4E5D64040401030			560+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				561	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	02150000
000FD8	D7C1C3D240401030			562+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				563	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	02160000
000FE0	E4D5D7D240401030			564+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				565	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02170000
000FE8	E9C1D74040401038			566+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				567	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	02180000
000FF0	C3D7404040401034			568+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				569	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02190000
000FF8	C1D7404040401038			570+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				571	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02200000
001000	E2D7404040401038			572+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				573	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	02210000
001008	D4D7404040401030			574+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				575	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	02220000
001010	C4D7404040401030			576+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				577 *	----- *	02230000
				578 *		* 02240000
				579 *	INDEX TO OP CODE TABLE	* 02250000
				580 *		* 02260000
				581 *	----- *	* 02270000
001018			00000	582	ORG DISOP370+0	02280000
000000				583 OPINDEX	DS OA	02290000
				584	OPCODE TYPE=INDEX	02300000
000000	00000400			585+	DC A(MACH00)	01100000
000004	00000000			586+	DC A(0)	01100000
000008	00000000			587+	DC A(0)	01100000
00000C	00000000			588+	DC A(0)	01100000
000010	00000408			589+	DC A(MACH04)	01100000
000014	00000416			590+	DC A(MACH05)	01100000
000018	0000042A			591+	DC A(MACH06)	01100000
00001C	0000043E			592+	DC A(MACH07)	01100000
000020	00000446			593+	DC A(MACH08)	01100000
000024	0000044E			594+	DC A(MACH09)	01100000
000028	00000456			595+	DC A(MACH0A)	01100000
00002C	00000000			596+	DC A(0)	01100000
000030	00000000			597+	DC A(0)	01100000
000034	00000000			598+	DC A(0)	01100000
000038	0000046A			599+	DC A(MACH0E)	01100000
00003C	00000478			600+	DC A(MACH0F)	01100000
000040	00000486			601+	DC A(MACH10)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000044	0000048E			602+	DC	A(MACH11)	01100000
000048	00000496			603+	DC	A(MACH12)	01100000
00004C	0000049E			604+	DC	A(MACH13)	01100000
000050	000004A6			605+	DC	A(MACH14)	01100000
000054	000004AE			606+	DC	A(MACH15)	01100000
000058	000004B6			607+	DC	A(MACH16)	01100000
00005C	000004BE			608+	DC	A(MACH17)	01100000
000060	000004C6			609+	DC	A(MACH18)	01100000
000064	000004CE			610+	DC	A(MACH19)	01100000
000068	000004D6			611+	DC	A(MACH1A)	01100000
00006C	000004DE			612+	DC	A(MACH1B)	01100000
000070	000004E6			613+	DC	A(MACH1C)	01100000
000074	000004F4			614+	DC	A(MACH1D)	01100000
000078	00000502			615+	DC	A(MACH1E)	01100000
00007C	0000050A			616+	DC	A(MACH1F)	01100000
000080	00000512			617+	DC	A(MACH20)	01100000
000084	00000520			618+	DC	A(MACH21)	01100000
000088	0000052E			619+	DC	A(MACH22)	01100000
00008C	0000053C			620+	DC	A(MACH23)	01100000
000090	0000054A			621+	DC	A(MACH24)	01100000
000094	00000558			622+	DC	A(MACH25)	01100000
000098	00000566			623+	DC	A(MACH26)	01100000
00009C	00000574			624+	DC	A(MACH27)	01100000
0000A0	00000582			625+	DC	A(MACH28)	01100000
0000A4	00000590			626+	DC	A(MACH29)	01100000
0000A8	0000059E			627+	DC	A(MACH2A)	01100000
0000AC	000005AC			628+	DC	A(MACH2B)	01100000
0000B0	000005BA			629+	DC	A(MACH2C)	01100000
0000B4	000005C8			630+	DC	A(MACH2D)	01100000
0000B8	000005D6			631+	DC	A(MACH2E)	01100000
0000BC	000005E4			632+	DC	A(MACH2F)	01100000
0000C0	000005F2			633+	DC	A(MACH30)	01100000
0000C4	00000600			634+	DC	A(MACH31)	01100000
0000C8	0000060E			635+	DC	A(MACH32)	01100000
0000CC	0000061C			636+	DC	A(MACH33)	01100000
0000D0	0000062A			637+	DC	A(MACH34)	01100000
0000D4	00000638			638+	DC	A(MACH35)	01100000
0000D8	00000646			639+	DC	A(MACH36)	01100000
0000DC	00000654			640+	DC	A(MACH37)	01100000
0000E0	00000662			641+	DC	A(MACH38)	01100000
0000E4	00000670			642+	DC	A(MACH39)	01100000
0000E8	0000067E			643+	DC	A(MACH3A)	01100000
0000EC	0000068C			644+	DC	A(MACH3B)	01100000
0000F0	0000069A			645+	DC	A(MACH3C)	01100000
0000F4	000006A8			646+	DC	A(MACH3D)	01100000
0000F8	000006B6			647+	DC	A(MACH3E)	01100000
0000FC	000006C4			648+	DC	A(MACH3F)	01100000
000100	000006D2			649+	DC	A(MACH40)	01100000
000104	000006DA			650+	DC	A(MACH41)	01100000
000108	000006E2			651+	DC	A(MACH42)	01100000
00010C	000006EA			652+	DC	A(MACH43)	01100000
000110	000006F2			653+	DC	A(MACH44)	01100000
000114	000006FA			654+	DC	A(MACH45)	01100000
000118	0000070E			655+	DC	A(MACH46)	01100000
00011C	00000722			656+	DC	A(MACH47)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000120	0000072A			657+	DC	A(MACH48)	01100000
000124	00000732			658+	DC	A(MACH49)	01100000
000128	0000073A			659+	DC	A(MACH4A)	01100000
00012C	00000742			660+	DC	A(MACH4B)	01100000
000130	0000074A			661+	DC	A(MACH4C)	01100000
000134	00000000			662+	DC	A(0)	01100000
000138	00000752			663+	DC	A(MACH4E)	01100000
00013C	0000075A			664+	DC	A(MACH4F)	01100000
000140	00000762			665+	DC	A(MACH50)	01100000
000144	00000000			666+	DC	A(0)	01100000
000148	00000000			667+	DC	A(0)	01100000
00014C	00000000			668+	DC	A(0)	01100000
000150	0000076A			669+	DC	A(MACH54)	01100000
000154	00000772			670+	DC	A(MACH55)	01100000
000158	0000077A			671+	DC	A(MACH56)	01100000
00015C	00000782			672+	DC	A(MACH57)	01100000
000160	0000078A			673+	DC	A(MACH58)	01100000
000164	00000792			674+	DC	A(MACH59)	01100000
000168	0000079A			675+	DC	A(MACH5A)	01100000
00016C	000007A2			676+	DC	A(MACH5B)	01100000
000170	000007AA			677+	DC	A(MACH5C)	01100000
000174	000007B8			678+	DC	A(MACH5D)	01100000
000178	000007C6			679+	DC	A(MACH5E)	01100000
00017C	000007CE			680+	DC	A(MACH5F)	01100000
000180	000007D6			681+	DC	A(MACH60)	01100000
000184	00000000			682+	DC	A(0)	01100000
000188	00000000			683+	DC	A(0)	01100000
00018C	00000000			684+	DC	A(0)	01100000
000190	00000000			685+	DC	A(0)	01100000
000194	00000000			686+	DC	A(0)	01100000
000198	00000000			687+	DC	A(0)	01100000
00019C	000007E4			688+	DC	A(MACH67)	01100000
0001A0	000007F2			689+	DC	A(MACH68)	01100000
0001A4	00000800			690+	DC	A(MACH69)	01100000
0001A8	0000080E			691+	DC	A(MACH6A)	01100000
0001AC	0000081C			692+	DC	A(MACH6B)	01100000
0001B0	0000082A			693+	DC	A(MACH6C)	01100000
0001B4	00000838			694+	DC	A(MACH6D)	01100000
0001B8	00000846			695+	DC	A(MACH6E)	01100000
0001BC	00000854			696+	DC	A(MACH6F)	01100000
0001C0	00000862			697+	DC	A(MACH70)	01100000
0001C4	00000000			698+	DC	A(0)	01100000
0001C8	00000000			699+	DC	A(0)	01100000
0001CC	00000000			700+	DC	A(0)	01100000
0001D0	00000000			701+	DC	A(0)	01100000
0001D4	00000000			702+	DC	A(0)	01100000
0001D8	00000000			703+	DC	A(0)	01100000
0001DC	00000000			704+	DC	A(0)	01100000
0001E0	00000870			705+	DC	A(MACH78)	01100000
0001E4	0000087E			706+	DC	A(MACH79)	01100000
0001E8	0000088C			707+	DC	A(MACH7A)	01100000
0001EC	0000089A			708+	DC	A(MACH7B)	01100000
0001F0	000008A8			709+	DC	A(MACH7C)	01100000
0001F4	000008B6			710+	DC	A(MACH7D)	01100000
0001F8	000008C4			711+	DC	A(MACH7E)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001FC	000008D2			712+	DC	A(MACH7F)	01100000
000200	00000000			713+	DC	A(0)	01100000
000204	00000000			714+	DC	A(0)	01100000
000208	000008E0			715+	DC	A(MACH82)	01100000
00020C	000008EE			716+	DC	A(MACH83)	01100000
000210	00000000			717+	DC	A(0)	01100000
000214	00000000			718+	DC	A(0)	01100000
000218	000008F6			719+	DC	A(MACH86)	01100000
00021C	000008FE			720+	DC	A(MACH87)	01100000
000220	00000906			721+	DC	A(MACH88)	01100000
000224	00000914			722+	DC	A(MACH89)	01100000
000228	00000922			723+	DC	A(MACH8A)	01100000
00022C	00000930			724+	DC	A(MACH8B)	01100000
000230	0000093E			725+	DC	A(MACH8C)	01100000
000234	0000094C			726+	DC	A(MACH8D)	01100000
000238	0000095A			727+	DC	A(MACH8E)	01100000
00023C	00000968			728+	DC	A(MACH8F)	01100000
000240	00000976			729+	DC	A(MACH90)	01100000
000244	0000097E			730+	DC	A(MACH91)	01100000
000248	00000986			731+	DC	A(MACH92)	01100000
00024C	0000098E			732+	DC	A(MACH93)	01100000
000250	0000099C			733+	DC	A(MACH94)	01100000
000254	000009A4			734+	DC	A(MACH95)	01100000
000258	000009AC			735+	DC	A(MACH96)	01100000
00025C	000009B4			736+	DC	A(MACH97)	01100000
000260	000009BC			737+	DC	A(MACH98)	01100000
000264	00000000			738+	DC	A(0)	01100000
000268	00000000			739+	DC	A(0)	01100000
00026C	00000000			740+	DC	A(0)	01100000
000270	00000000			741+	DC	A(0)	01100000
000274	00000000			742+	DC	A(0)	01100000
000278	00000000			743+	DC	A(0)	01100000
00027C	00000000			744+	DC	A(0)	01100000
000280	00000000			745+	DC	A(0)	01100000
000284	00000000			746+	DC	A(0)	01100000
000288	00000000			747+	DC	A(0)	01100000
00028C	00000000			748+	DC	A(0)	01100000
000290	00000000			749+	DC	A(0)	01100000
000294	00000000			750+	DC	A(0)	01100000
000298	00000000			751+	DC	A(0)	01100000
00029C	00000000			752+	DC	A(0)	01100000
0002A0	00000000			753+	DC	A(0)	01100000
0002A4	00000000			754+	DC	A(0)	01100000
0002A8	00000000			755+	DC	A(0)	01100000
0002AC	00000000			756+	DC	A(0)	01100000
0002B0	000009C4			757+	DC	A(MACHAC)	01100000
0002B4	000009CC			758+	DC	A(MACHAD)	01100000
0002B8	000009D4			759+	DC	A(MACHAE)	01100000
0002BC	000009DC			760+	DC	A(MACHAF)	01100000
0002C0	00000000			761+	DC	A(0)	01100000
0002C4	000009E4			762+	DC	A(MACHB1)	01100000
0002C8	800009EC			763+	DC	A(X'80000000'+OPTBB2)	01100000
0002CC	00000000			764+	DC	A(0)	01100000
0002D0	00000000			765+	DC	A(0)	01100000
0002D4	00000000			766+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002D8	00000E6C			767+	DC	A(MACHB6)	01100000
0002DC	00000E74			768+	DC	A(MACHB7)	01100000
0002E0	00000000			769+	DC	A(0)	01100000
0002E4	00000000			770+	DC	A(0)	01100000
0002E8	00000E7C			771+	DC	A(MACHBA)	01100000
0002EC	00000E84			772+	DC	A(MACHBB)	01100000
0002F0	00000000			773+	DC	A(0)	01100000
0002F4	00000E8C			774+	DC	A(MACHBD)	01100000
0002F8	00000E94			775+	DC	A(MACHBE)	01100000
0002FC	00000E9C			776+	DC	A(MACHBF)	01100000
000300	00000000			777+	DC	A(0)	01100000
000304	00000000			778+	DC	A(0)	01100000
000308	00000000			779+	DC	A(0)	01100000
00030C	00000000			780+	DC	A(0)	01100000
000310	00000000			781+	DC	A(0)	01100000
000314	00000000			782+	DC	A(0)	01100000
000318	00000000			783+	DC	A(0)	01100000
00031C	00000000			784+	DC	A(0)	01100000
000320	00000000			785+	DC	A(0)	01100000
000324	00000000			786+	DC	A(0)	01100000
000328	00000000			787+	DC	A(0)	01100000
00032C	00000000			788+	DC	A(0)	01100000
000330	00000000			789+	DC	A(0)	01100000
000334	00000000			790+	DC	A(0)	01100000
000338	00000000			791+	DC	A(0)	01100000
00033C	00000000			792+	DC	A(0)	01100000
000340	00000000			793+	DC	A(0)	01100000
000344	00000EA4			794+	DC	A(MACHD1)	01100000
000348	00000EAC			795+	DC	A(MACHD2)	01100000
00034C	00000EB4			796+	DC	A(MACHD3)	01100000
000350	00000EBC			797+	DC	A(MACHD4)	01100000
000354	00000EC4			798+	DC	A(MACHD5)	01100000
000358	00000ECC			799+	DC	A(MACHD6)	01100000
00035C	00000ED4			800+	DC	A(MACHD7)	01100000
000360	00000000			801+	DC	A(0)	01100000
000364	00000000			802+	DC	A(0)	01100000
000368	00000000			803+	DC	A(0)	01100000
00036C	00000000			804+	DC	A(0)	01100000
000370	00000EDC			805+	DC	A(MACHDC)	01100000
000374	00000EE4			806+	DC	A(MACHDD)	01100000
000378	00000EEC			807+	DC	A(MACHDE)	01100000
00037C	00000EF4			808+	DC	A(MACHDF)	01100000
000380	00000000			809+	DC	A(0)	01100000
000384	00000000			810+	DC	A(0)	01100000
000388	00000000			811+	DC	A(0)	01100000
00038C	00000000			812+	DC	A(0)	01100000
000390	00000000			813+	DC	A(0)	01100000
000394	00000000			814+	DC	A(0)	01100000
000398	00000000			815+	DC	A(0)	01100000
00039C	00000000			816+	DC	A(0)	01100000
0003A0	00000000			817+	DC	A(0)	01100000
0003A4	00000000			818+	DC	A(0)	01100000
0003A8	00000000			819+	DC	A(0)	01100000
0003AC	00000000			820+	DC	A(0)	01100000
0003B0	00000000			821+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003B4	00000000			822+	DC	A(0)	01100000
0003B8	00000000			823+	DC	A(0)	01100000
0003BC	00000000			824+	DC	A(0)	01100000
0003C0	80000EFC			825+	DC	A(X'80000000'+OPTBF0)	01100000
0003C4	00000FD0			826+	DC	A(MACHF1)	01100000
0003C8	00000FD8			827+	DC	A(MACHF2)	01100000
0003CC	00000FE0			828+	DC	A(MACHF3)	01100000
0003D0	00000000			829+	DC	A(0)	01100000
0003D4	00000000			830+	DC	A(0)	01100000
0003D8	00000000			831+	DC	A(0)	01100000
0003DC	00000000			832+	DC	A(0)	01100000
0003E0	00000FE8			833+	DC	A(MACHF8)	01100000
0003E4	00000FF0			834+	DC	A(MACHF9)	01100000
0003E8	00000FF8			835+	DC	A(MACHFA)	01100000
0003EC	00001000			836+	DC	A(MACHFB)	01100000
0003F0	00001008			837+	DC	A(MACHFC)	01100000
0003F4	00001010			838+	DC	A(MACHFD)	01100000
0003F8	00000000			839+	DC	A(0)	01100000
0003FC	00000000			840+	DC	A(0)	01100000
				841	COPY	DISASMDA	02310000
				842	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				843	PRINT OFF		00020000
				1054	PRINT ON		02130000
				1055	.DA020 ANOP		02140000
				1056	*-----*		02320000
				1057	*		* 02330000
				1058	*	COMMON DATA MAP	* 02340000
				1059	*		* 02350000
				1060	*-----*		* 02360000
				1061	DISASM00	DISASMCM TYPE=DSECT GP99137	02370000
				1062+	PRINT OFF		00280000
				1693+	PRINT ON		06440000
				1694+	*-----*		* 06460000
				1695+	*		* 06470000
				1696+	*	ABEND REASON CODES	* 06480000
				1697+	*		* 06490000
				1698+	*-----*		* 06500000
		00001	1699+	ABEND001	EQU 1	REQUESTED VIA AN ABEND STATEMENT	06510000
		00002	1700+	ABEND002	EQU 2	UNKNOWN RETURN CODE FROM BLDL	06520000
		00003	1701+	ABEND003	EQU 3	UNKNOWN RLD ITEM TYPE	06530000
		00004	1702+	ABEND004	EQU 4	RLD DATA REMAINING WENT NEGATIVE	06540000
		00005	1703+	ABEND005	EQU 5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
		00000	1706+	R0	EQU 0		00070000
		00001	1707+	R1	EQU 1		00080000
		00002	1708+	R2	EQU 2		00090000
		00003	1709+	R3	EQU 3		00100000
		00004	1710+	R4	EQU 4		00110000
		00005	1711+	R5	EQU 5		00120000
		00006	1712+	R6	EQU 6		00130000
		00007	1713+	R7	EQU 7		00140000
		00008	1714+	R8	EQU 8		00150000
		00009	1715+	R9	EQU 9		00160000
		0000A	1716+	R10	EQU 10		00170000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
				0000B	1717+R11		EQU 11				00180000
				0000C	1718+R12		EQU 12				00190000
				0000D	1719+R13		EQU 13				00200000
				0000E	1720+R14		EQU 14				00210000
				0000F	1721+R15		EQU 15				00220000
000000					1723		END DISOP370				02380000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000010	
0001	0001	OC	000014	
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0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
0001	0001	OC	0000A0	
0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
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0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	
0001	0001	OC	0000EC	
0001	0001	OC	0000F0	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
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0001	0001	OC	000128	
0001	0001	OC	00012C	
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0001	0001	OC	0001B8	
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0001	0001	OC	0001FC	
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0001	0001	OC	000218	
0001	0001	OC	00021C	
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POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000224	
0001	0001	OC	000228	
0001	0001	OC	00022C	
0001	0001	OC	000230	
0001	0001	OC	000234	
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0001	0001	OC	0002B4	
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0001	0001	OC	0002EC	
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0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
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0001	0001	OC	00035C	
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0001	0001	OC	0003C4	
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0001	0001	OC	0003EC	
0001	0001	OC	0003F0	
0001	0001	OC	0003F4	
0001	0001	OC	0009F8	
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0001	0001	OC	000A04	
0001	0001	OC	000A08	
0001	0001	OC	000A0C	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000A10	
0001	0001	OC	000A14	
0001	0001	OC	000A18	
0001	0001	OC	000A1C	
0001	0001	OC	000A24	
0001	0001	OC	000A30	
0001	0001	OC	000A34	
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0001	0001	OC	000F08	
0001	0001	OC	000F0C	
0001	0001	OC	000F10	
0001	0001	OC	000F14	
0001	0001	OC	000F18	
0001	0001	OC	000F1C	
0001	0001	OC	000F20	
0001	0001	OC	000F24	

OP370				CROSS-REFERENCE														PAGE 23	
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18	
\$OPCCA	00001	00000008	01685	00060	00063	00066	00068	00070	00072	00086	00088	00096	00098	00100	00103	00106	00109	00130	
				00133	00142	00145	00148	00151	00154	00157	00166	00169	00175	00178	00181	00190	00193	00218	
				00220	00243	00245	00253	00255	00269	00272	00284	00296	00299	00308	00311	00333	00336	00345	
				00348	00357	00374	00378	00467	00485	00487	00489	00503	00509	00515	00521	00527	00533	00539	
				00545	00551	00557	00566	00570	00572										
\$OPCCC	00001	00000004	01686	00076	00084	00127	00216	00233	00241	00266	00293	00362	00459	00461	00463	00477	00568		
\$OPCCL	00001	00000002	01687	00074	00078	00080	00231	00235	00237	00353	00360	00364	00366	00391	00396	00475	00479	00481	
\$OPEXT	00001	00000080	01681	00050	00212														
\$OPMASK	00001	00000001	01688	00041	00060	00063	00090	00093	00100	00103	00106	00109	00112	00115	00118	00121	00124	00127	
				00130	00133	00136	00139	00142	00145	00148	00151	00154	00157	00160	00163	00166	00169	00172	
				00175	00178	00181	00184	00187	00190	00193	00247	00250	00257	00260	00263	00266	00269	00272	
				00275	00278	00281	00284	00287	00290	00293	00296	00299	00302	00305	00308	00311	00316	00327	
				00330	00333	00336	00339	00342	00345	00348	00357	00426	00432	00503	00509	00515	00521	00527	
				00533	00539	00545	00551	00557	01344										
\$OPNCMNT	00001	00000020	01683	00039	00041	00050	00052	00054	00060	00063	00066	00068	00070	00072	00074	00076	00078	00080	
				00082	00084	00086	00088	00090	00093	00096	00098	00100	00103	00106	00109	00112	00115	00118	
				00121	00124	00127	00130	00133	00136	00139	00142	00145	00148	00151	00154	00157	00160	00163	
				00166	00169	00172	00175	00178	00181	00184	00187	00190	00193	00196	00198	00200	00202	00204	
				00212	00214	00216	00218	00220	00222	00225	00227	00229	00231	00233	00235	00237	00239	00241	
				00243	00245	00247	00250	00253	00255	00257	00260	00263	00266	00269	00272	00275	00278	00281	
				00284	00287	00290	00293	00296	00299	00302	00305	00308	00311	00316	00319	00323	00325	00327	
				00330	00333	00336	00339	00342	00345	00348	00351	00353	00355	00357	00360	00362	00364	00366	
				00368	00370	00372	00374	00376	00378	00386	00391	00396	00401	00406	00411	00416	00421	00426	
				00432	00438	00443	00448	00453	00455	00457	00459	00461	00463	00465	00467	00469	00471	00473	
				00475	00477	00479	00481	00483	00485	00487	00489	00503	00509	00515	00521	00527	00533	00539	
				00545	00551	00557	00560	00562	00564	00566	00568	00570	00572	00574	00576				
\$OPREF	00001	00000010	01684	00196	00198	00200	00202	00204	00206	00209	00212	00214	00216	00218	00220	00222	00225	00227	
				00229	00231	00233	00235	00237	00239	00241	00243	00245	00247	00250	00253	00255	00257	00260	
				00263	00266	00269	00272	00275	00278	00281	00284	00287	00290	00293	00296	00299	00302	00305	
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				00562	00564	00566	00568	00570	00572	00574	00576								
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				00084	00086	00088	00090	00093	00096	00098	00100	00103	00106	00109	00112	00115	00118	00121	
				00124	00127	00130	00133	00136	00139	00142	00145	00148	00151	00154	00157	00160	00163	00166	
				00169	00172	00175	00178	00181	00184	00187	00190	00193							
\$OPRR2	00001	00000002	01659	00056															
\$OPRR3	00001	00000003	01660	00050															
\$OPRR4	00001	00000004	01661	00041															
\$OPRSI	00001	0000000B	01669	00319															
\$OPRS1	00001	0000000C	01670	00327	00330	00333	00336	00339	00342	00345	00348								
\$OPRS2	00001	0000000D	01671	00323	00325	00351	00368	00374	00455	00457	00459	00461							
\$OPRS3	00001	0000000E	01672	00463	00465	00467													
\$OPRX	00001	00000007	01664	00196	00198	00200	00202	00204	00206	00209	00212	00214	00216	00218	00220	00222	00225	00227	
				00229	00231	00233	00235	00237	00239	00241	00243	00245	00247	00250	00253	00255	00257	00260	
				00263	00266	00269	00272	00275	00278	00281	00284	00287	00290	00293	00296	00299	00302	00305	
				00308	00311	00378													
\$OPS	00001	00000009	01666	00316	00357	00386	00391	00396	00401	00406	00411	00416	00421	00426	00432	00438	00443	00448	
				00453															
\$OPSI	00001	0000000A	01667	00353	00355	00360	00362	00364	00366	00370	00372	00376							
\$OPSS1	00001	0000000F	01673	00469	00471	00473	00475	00477	00479	00481	00483	00485	00487	00489					
\$OPSS2	00001	00000010	01674	00560	00562	00564	00566	00568	00570	00572	00574	00576							
\$OPSS4	00001	00000012	01676	00503	00509	00515	00521	00527	00533	00539	00545	00551	00557						

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$OP SVC	00001	00000040	01682	00056	
\$PF TRC	00001	00000001	01196	01431 01433	
\$PR TPRT	00001	000000D7	01555	01541 01562	
\$PR TSUBH	00001	000000E2	01554	01437	
AOP	00004	000000AC	01102	01325	
APR	00004	000000B8	01104	01544	
APU	00004	000000BC	01105	01565	
BASED SCT	00001	00000000	00861	00869	
BLK TRT	00001	00000A68	01602	01603 01605 01607 01609 01611 01613 01615 01617 01619 01621 01623 01625 01627	
COMM CLR	00004	000000F8	01131	01151 01155	
COMM DWRD	00008	00000000	01069	01456 01457	
COMM FILL	00001	00000161	01172	01501	
COMM HXCH	00016	00000275	01221	01222	
COMM HXTR	00016	00000185	01222	01448 01451 01454 01458	
COMM NPRT	00001	000003C7	01277	01278 01280 01282 01284 01286 01288 01290 01292 01294 01296 01298 01300 01302	
COMM POOL	00001	00000162	01173	01493 01508	
COMM PRT	00001	000002C7	01248	01249 01251 01253 01255 01257 01259 01261 01263 01265 01267 01269 01271	
COMMSUBH	00133	0000016D	01216	01434	
COMMSUBL	00002	00000154	01166	01435 01435 01436	
DATAD SCT	00001	00000000	00876	00897	
DISASM00	00001	00000000	01063	01076 01315 01392 01429 01490 01526	
DISOP370	00001	00000000	00033	00034 00582 01723	
DSCTD SCT	00001	00000000	00904	00910	
ESDDATA	00001	00000000	00917	00940	
ESDNAME	00008	0000000E	00921	00936	
EXGETOPC	00006	00000554	01356	01349	
GETOPEXT	00004	00000546	01352	01345	
GETOPLN	00001	0000055A	01357	01323	
GETOPNOT	00004	0000054E	01354	01328 01338 01343 01351	
GETOPTMK	00004	00000526	01344	01329	
GETOPWRK	00006	0000055E	01358	01348 01348 01350 01356	
HEXTRT	00001	00000868	01584	01585 01587 01589 01591 01593	
INTTRT	00001	00000968	01595	01596 01598 01600	
LABLD SCT	00001	00000000	00947	00963	
MACHAC	00006	000009C4	00370	00757	
MACHAD	00006	000009CC	00372	00758	
MACHAE	00006	000009D4	00374	00759	
MACHAF	00006	000009DC	00376	00760	
MACHBA	00006	00000E7C	00459	00771	
MACHBB	00006	00000E84	00461	00772	
MACHBD	00006	00000E8C	00463	00774	
MACHBE	00006	00000E94	00465	00775	
MACHBF	00006	00000E9C	00467	00776	
MACHB1	00006	000009E4	00378	00762	
MACHB6	00006	00000E6C	00455	00767	
MACHB7	00006	00000E74	00457	00768	
MACHDC	00006	00000EDC	00483	00805	
MACHDD	00006	00000EE4	00485	00806	
MACHDE	00006	00000EEC	00487	00807	
MACHDF	00006	00000EF4	00489	00808	
MACHD1	00006	00000EA4	00469	00794	
MACHD2	00006	00000EAC	00471	00795	
MACHD3	00006	00000EB4	00473	00796	
MACHD4	00006	00000EBC	00475	00797	
MACHD5	00006	00000EC4	00477	00798	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACHD6	00006	00000ECC	00479	00799	
MACHD7	00006	00000ED4	00481	00800	
MACHFA	00006	00000FF8	00570	00835	
MACHFB	00006	00001000	00572	00836	
MACHFC	00006	00001008	00574	00837	
MACHFD	00006	00001010	00576	00838	
MACHF1	00006	00000FD0	00560	00826	
MACHF2	00006	00000FD8	00562	00827	
MACHF3	00006	00000FE0	00564	00828	
MACHF8	00006	00000FE8	00566	00833	
MACHF9	00006	00000FF0	00568	00834	
MACH0A	00006	00000456	00056	00595	
MACH0E	00006	0000046A	00060	00599	
MACH0F	00006	00000478	00063	00600	
MACH00	00006	00000400	00039	00585	
MACH04	00006	00000408	00041	00589	
MACH05	00006	00000416	00044	00590	
MACH06	00006	0000042A	00047	00591	
MACH07	00006	0000043E	00050	00592	
MACH08	00006	00000446	00052	00593	
MACH09	00006	0000044E	00054	00594	
MACH1A	00006	000004D6	00086	00611	
MACH1B	00006	000004DE	00088	00612	
MACH1C	00006	000004E6	00090	00613	
MACH1D	00006	000004F4	00093	00614	
MACH1E	00006	00000502	00096	00615	
MACH1F	00006	0000050A	00098	00616	
MACH10	00006	00000486	00066	00601	
MACH11	00006	0000048E	00068	00602	
MACH12	00006	00000496	00070	00603	
MACH13	00006	0000049E	00072	00604	
MACH14	00006	000004A6	00074	00605	
MACH15	00006	000004AE	00076	00606	
MACH16	00006	000004B6	00078	00607	
MACH17	00006	000004BE	00080	00608	
MACH18	00006	000004C6	00082	00609	
MACH19	00006	000004CE	00084	00610	
MACH2A	00006	0000059E	00130	00627	
MACH2B	00006	000005AC	00133	00628	
MACH2C	00006	000005BA	00136	00629	
MACH2D	00006	000005C8	00139	00630	
MACH2E	00006	000005D6	00142	00631	
MACH2F	00006	000005E4	00145	00632	
MACH20	00006	00000512	00100	00617	
MACH21	00006	00000520	00103	00618	
MACH22	00006	0000052E	00106	00619	
MACH23	00006	0000053C	00109	00620	
MACH24	00006	0000054A	00112	00621	
MACH25	00006	00000558	00115	00622	
MACH26	00006	00000566	00118	00623	
MACH27	00006	00000574	00121	00624	
MACH28	00006	00000582	00124	00625	
MACH29	00006	00000590	00127	00626	
MACH3A	00006	0000067E	00178	00643	
MACH3B	00006	0000068C	00181	00644	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH3C	00006	0000069A	00184	00645	
MACH3D	00006	000006A8	00187	00646	
MACH3E	00006	000006B6	00190	00647	
MACH3F	00006	000006C4	00193	00648	
MACH30	00006	000005F2	00148	00633	
MACH31	00006	00000600	00151	00634	
MACH32	00006	0000060E	00154	00635	
MACH33	00006	0000061C	00157	00636	
MACH34	00006	0000062A	00160	00637	
MACH35	00006	00000638	00163	00638	
MACH36	00006	00000646	00166	00639	
MACH37	00006	00000654	00169	00640	
MACH38	00006	00000662	00172	00641	
MACH39	00006	00000670	00175	00642	
MACH4A	00006	0000073A	00218	00659	
MACH4B	00006	00000742	00220	00660	
MACH4C	00006	0000074A	00222	00661	
MACH4E	00006	00000752	00225	00663	
MACH4F	00006	0000075A	00227	00664	
MACH40	00006	000006D2	00196	00649	
MACH41	00006	000006DA	00198	00650	
MACH42	00006	000006E2	00200	00651	
MACH43	00006	000006EA	00202	00652	
MACH44	00006	000006F2	00204	00653	
MACH45	00006	000006FA	00206	00654	
MACH46	00006	0000070E	00209	00655	
MACH47	00006	00000722	00212	00656	
MACH48	00006	0000072A	00214	00657	
MACH49	00006	00000732	00216	00658	
MACH5A	00006	0000079A	00243	00675	
MACH5B	00006	000007A2	00245	00676	
MACH5C	00006	000007AA	00247	00677	
MACH5D	00006	000007B8	00250	00678	
MACH5E	00006	000007C6	00253	00679	
MACH5F	00006	000007CE	00255	00680	
MACH50	00006	00000762	00229	00665	
MACH54	00006	0000076A	00231	00669	
MACH55	00006	00000772	00233	00670	
MACH56	00006	0000077A	00235	00671	
MACH57	00006	00000782	00237	00672	
MACH58	00006	0000078A	00239	00673	
MACH59	00006	00000792	00241	00674	
MACH6A	00006	0000080E	00269	00691	
MACH6B	00006	0000081C	00272	00692	
MACH6C	00006	0000082A	00275	00693	
MACH6D	00006	00000838	00278	00694	
MACH6E	00006	00000846	00281	00695	
MACH6F	00006	00000854	00284	00696	
MACH60	00006	000007D6	00257	00681	
MACH67	00006	000007E4	00260	00688	
MACH68	00006	000007F2	00263	00689	
MACH69	00006	00000800	00266	00690	
MACH7A	00006	0000088C	00296	00707	
MACH7B	00006	0000089A	00299	00708	
MACH7C	00006	000008A8	00302	00709	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH7D	00006	000008B6	00305	00710	
MACH7E	00006	000008C4	00308	00711	
MACH7F	00006	000008D2	00311	00712	
MACH70	00006	00000862	00287	00697	
MACH78	00006	00000870	00290	00705	
MACH79	00006	0000087E	00293	00706	
MACH8A	00006	00000922	00333	00723	
MACH8B	00006	00000930	00336	00724	
MACH8C	00006	0000093E	00339	00725	
MACH8D	00006	0000094C	00342	00726	
MACH8E	00006	0000095A	00345	00727	
MACH8F	00006	00000968	00348	00728	
MACH82	00006	000008E0	00316	00715	
MACH83	00006	000008EE	00319	00716	
MACH86	00006	000008F6	00323	00719	
MACH87	00006	000008FE	00325	00720	
MACH88	00006	00000906	00327	00721	
MACH89	00006	00000914	00330	00722	
MACH90	00006	00000976	00351	00729	
MACH91	00006	0000097E	00353	00730	
MACH92	00006	00000986	00355	00731	
MACH93	00006	0000098E	00357	00732	
MACH94	00006	0000099C	00360	00733	
MACH95	00006	000009A4	00362	00734	
MACH96	00006	000009AC	00364	00735	
MACH97	00006	000009B4	00366	00736	
MACH98	00006	000009BC	00368	00737	
MAINRSV	00004	00000858	01582	01491 01497 01499 01503 01506 01512	
NBLTRT	00001	00000B68	01629	01630 01632	
OPDSECT	00001	00000000	01651	01326 01689	
OPFLAGS	00001	00000007	01680	01344	
OPFLAG1	00001	00000001	01653	01333	
OPFLAG2	00001	00000002	01654	01335	
OPFLAG3	00001	00000003	01655	01337	
OPMASK	00006	00000008	01690	01350	
OPMNEM	00006	00000000	01652	01653 01654 01655	
OPTBB2	00001	000009EC	00380	00383 00388 00393 00398 00403 00408 00413 00418 00423 00429 00435 00440 00445 00450 00763	
OPTBF0	00001	00000EFC	00497	00500 00506 00512 00518 00524 00530 00536 00542 00548 00554 00825	
OP2B20A	00006	00000E28	00421	00419	
OP2B20B	00006	00000E30	00426	00424	
OP2B20D	00006	00000E3E	00432	00430	
OP2B202	00006	00000DF0	00386	00384	
OP2B204	00006	00000DF8	00391	00389	
OP2B205	00006	00000E00	00396	00394	
OP2B206	00006	00000E08	00401	00399	
OP2B207	00006	00000E10	00406	00404	
OP2B208	00006	00000E18	00411	00409	
OP2B209	00006	00000E20	00416	00414	
OP2B210	00006	00000E4C	00438	00436	
OP2B211	00006	00000E54	00443	00441	
OP2B212	00006	00000E5C	00448	00446	
OP2B213	00006	00000E64	00453	00451	
OP2F000	00006	00000F44	00503	00501	
OP2F001	00006	00000F52	00509	00507	
OP2F002	00006	00000F60	00515	00513	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TREDATA2	00008	00000018	01643	01409 01453 01456	
TREID	00008	00000008	01641	01407 01446	
TREMOD	00008	00000000	01640	01406 01443 01445	
TRENTRY	00001	00000000	01639	01393 01442 01461 01461 01644	
TRENTRYL	00001	00000020	01644	01399 01461 01462	
TRLAST	00004	000000CC	01115	01400 01465	
TR1ST	00004	000000C4	01113	01402 01467	
USNGDSCT	00001	00000000	01024	01038	
VERPSECT	00001	00000000	01045	01051	

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 238

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 134

TOTAL RECORDS PRINTED 1483

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOP370 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

ASM 0201 00.48 07/11/18

DISOP390 SD 0001 000000 001B66

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOP390	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES.	* 00070000
				8 *		* 00080000
				9 *	TWO-BYTE OPCODE SUPPORT ADDED:	* 00090000
				10 *		* 00100000
				11 *	ADDRESS FOR EACH TWO-BYTE OPCODE IS IN A SECONDARY TABLE,	* 00110000
				12 *	GENERATED WITH A TYPE=DEFINE. OPERANDS ARE:	* 00120000
				13 *	1) MACHINE CODE IN HEX	* 00130000
				14 *	2) AND FLAG FOR SECOND BYTE	* 00140000
				15 *	3) RIGHT SHIFT AMOUNT FOR MASKED VALUE	* 00150000
				16 *	4) LARGEST MASKED/SHIFTED VALUE	* 00160000
				17 *		* 00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	* 00180000
				19 *		* 00190000
				20 *	-----*	00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	00010000
				23 *		* 00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				25 *		* 00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				27 *		* 00060000
				28 *	-----*	00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				31	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISOP390 CSECT ,	GP09181 00220000
000000		00400		34	ORG DISOP390+(256*4)	00230000
				35 *	-----*	00240000
				36 *	OPCODE TABLE	* 00250000
				37 *	-----*	00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40 TABLE01	OPCODE 01,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	00280000
000408	5CFF00FF			41+OPTB01	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
00040C	0000000000000000			42+	DC (255+1)AL4(0) TWO-BYTE OPCODE POINTER	GP99137 01050000
				43	OPCODE 0101,PR,\$OPE	GP99137 00290000
00080C		00410		44+	ORG OPTB01+4+4*X'01'	GP99137 00740000
000410	0000080C			45+	DC AL4(OP20101)	GP99137 00750000
000414		0080C		46+	ORG ,	GP99137 00760000
00080C	D7D9404040400020			47+OP20101	DC CL6'PR',AL1(\$OPE,0+\$OPNCMNT)	00910000
				48	OPCODE 0102,UPT,\$OPE	GP99137 00300000
000814		00414		49+	ORG OPTB01+4+4*X'02'	GP99137 00740000
000414	00000814			50+	DC AL4(OP20102)	GP99137 00750000
000418		00814		51+	ORG ,	GP99137 00760000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000814	E4D7E34040400020			52+OP20102	DC CL6'UPT',AL1(\$OPE,0+\$OPNCMNT)	00910000
				53	OPCODE 0107,SCKPF,\$OPE	GP04234 00310000
00081C		00428		54+	ORG OPTB01+4+4*X'07'	GP99137 00740000
000428	0000081C			55+	DC AL4(OP20107)	GP99137 00750000
00042C		0081C		56+	ORG ,	GP99137 00760000
00081C	E2C3D2D7C6400020			57+OP20107	DC CL6'SCKPF',AL1(\$OPE,0+\$OPNCMNT)	00910000
				58	OPCODE 01FF,TRAP2,\$OPE	GP04234 00320000
000824		00808		59+	ORG OPTB01+4+4*X'FF'	GP99137 00740000
000808	00000824			60+	DC AL4(OP201FF)	GP99137 00750000
00080C		00824		61+	ORG ,	GP99137 00760000
000824	E3D9C1D7F2400020			62+OP201FF	DC CL6'TRAP2',AL1(\$OPE,0+\$OPNCMNT)	00910000
				63	OPCODE 04,SPM,\$OPRR4,MASK=000F	GP10018 00330000
00082C	E2D7D44040400421			64+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000834	000F00000000			65+	DC XL6'000F00000000'	00950000
				66	OPCODE 05,BALR,\$OPRR1,'CALL'	00340000
00083A	C2C1D3D940400100			67+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
000842	C3C1D3D340404040			68+	DC CL12'CALL'	00980000
				69	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00350000
00084E	C2C3E3D940400100			70+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000856	D3D6D6D740404040			71+	DC CL12'LOOP'	00980000
				72	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00360000
000862	C2C3D940404003A0			73+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				74	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OPSV	GP10035 00370000
00086A	E2E5C34040400240			75+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OPSV)	00910000
000872	E2E5C34040404040			76+	DC CL12'SVC'	00980000
				77	OPCODE 0B,BSM,\$OPRR1	00380000
00087E	C2E2D44040400120			78+MACH0B	DC CL6'BSM',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				79	OPCODE 0C,BASSM,\$OPRR1	00390000
000886	C2C1E2E2D4400120			80+MACH0C	DC CL6'BASSM',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				81	OPCODE 0D,BASR,\$OPRR1	00400000
00088E	C2C1E2D940400120			82+MACH0D	DC CL6'BASR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				83	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00410000
000896	D4E5C3D340400129			84+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00089E	001100000000			85+	DC XL6'001100000000'	00950000
				86	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00420000
0008A4	C3D3C3D340400129			87+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008AC	001100000000			88+	DC XL6'001100000000'	00950000
				89	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00430000
0008B2	D3D7D94040400128			90+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				91	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00440000
0008BA	D3D5D94040400128			92+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				93	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00450000
0008C2	D3E3D94040400128			94+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				95	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00460000
0008CA	D3C3D94040400128			96+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				97	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00470000
0008D2	D5D9404040400122			98+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				99	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00480000
0008DA	C3D3D94040400124			100+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				101	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00490000
0008E2	D6D9404040400122			102+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				103	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00500000
0008EA	E7D9404040400122			104+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				105	OPCODE 18,LR,\$OPRR1	00510000
0008F2	D3D9404040400120			106+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				107	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00520000
0008FA	C3D9404040400124			108+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				109	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00530000
000902	C1D9404040400128			110+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				111	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00540000
00090A	E2D9404040400128			112+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				113	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00550000
000912	D4D9404040400121			114+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00091A	0010000000000			115+	DC XL6'001000000000'	00950000
				116	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00560000
000920	C4D9404040400121			117+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000928	0010000000000			118+	DC XL6'001000000000'	00950000
				119	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00570000
00092E	C1D3D94040400128			120+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				121	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00580000
000936	E2D3D94040400128			122+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				123	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA	00590000
00093E	D3D7C4D940400128			124+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				125	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA	00600000
000946	D3D5C4D940400128			126+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				127	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA	00610000
00094E	D3E3C4D940400128			128+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				129	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA	00620000
000956	D3C3C4D940400128			130+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				131	OPCODE 24,HDR,\$OPRR1	00630000
00095E	C8C4D94040400120			132+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				133	OPCODE 25,LRDR,\$OPRR1	00640000
000966	D3D9C4D940400120			134+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				135	OPCODE 26,MXR,\$OPRR1	00650000
00096E	D4E7D94040400120			136+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				137	OPCODE 27,MXDR,\$OPRR1	00660000
000976	D4E7C4D940400120			138+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				139	OPCODE 28,LDR,\$OPRR1	00670000
00097E	D3C4D94040400120			140+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				141	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC	00680000
000986	C3C4D94040400124			142+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				143	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA	00690000
00098E	C1C4D94040400128			144+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				145	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA	00700000
000996	E2C4D94040400128			146+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				147	OPCODE 2C,MDR,\$OPRR1	00710000
00099E	D4C4D94040400120			148+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				149	OPCODE 2D,DDR,\$OPRR1	00720000
0009A6	C4C4D94040400120			150+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				151	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA	00730000
0009AE	C1E6D94040400128			152+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				153	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA	00740000
0009B6	E2E6D94040400128			154+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				155	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA	00750000
0009BE	D3D7C5D940400128			156+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				157	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA	00760000
0009C6	D3D5C5D940400128			158+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				159	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA	00770000
0009CE	D3E3C5D940400128			160+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				161	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA	00780000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0009D6	D3C3C5D940400128			162+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				163	OPCODE 34,HER,\$OPRR1	00790000
0009DE	C8C5D94040400120			164+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				165	OPCODE 35,LRER,\$OPRR1	00800000
0009E6	D3D9C5D940400120			166+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				167	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA	00810000
0009EE	C1E7D94040400128			168+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				169	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA	00820000
0009F6	E2E7D94040400128			170+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				171	OPCODE 38,LER,\$OPRR1	00830000
0009FE	D3C5D94040400120			172+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				173	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA	00840000
000A06	C3C5D94040400128			174+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				175	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA	00850000
000A0E	C1C5D94040400128			176+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				177	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA	00860000
000A16	E2C5D94040400128			178+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				179	OPCODE 3C,MER,\$OPRR1	00870000
000A1E	D4C5D94040400120			180+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				181	OPCODE 3D,DER,\$OPRR1	00880000
000A26	C4C5D94040400120			182+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				183	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA	00890000
000A2E	C1E4D94040400128			184+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				185	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA	00900000
000A36	E2E4D94040400128			186+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				187	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00910000
000A3E	E2E3C84040400730			188+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				189	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00920000
000A46	D3C1404040400730			190+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				191	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00930000
000A4E	E2E3C34040400730			192+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				193	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00940000
000A56	C9C3404040400730			194+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				195	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00950000
000A5E	C5E7404040400730			196+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				197	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00960000
000A66	C2C1D34040400710			198+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
000A6E	C3C1D3D340404040			199+	DC CL12'CALL'	00980000
				200	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00970000
000A7A	C2C3E34040400710			201+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
000A82	D3D6D6D740404040			202+	DC CL12'LOOP'	00980000
				203	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00980000
000A8E	C2C34040404007B0			204+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				205	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00990000
000A96	D3C8404040400730			206+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				207	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01000000
000A9E	C3C8404040400734			208+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				209	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01010000
000AA6	C1C8404040400738			210+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				211	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01020000
000AAE	E2C8404040400738			212+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				213	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF	01030000
000AB6	D4C8404040400730			214+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				215	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF	01040000
000ABE	C2C1E24040400730			216+MACH4D	DC CL6'BAS',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				217	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF	01050000
000AC6	C3E5C44040400730			218+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				219	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF	01060000
000ACE	C3E5C24040400730			220+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				221	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF	01070000
000AD6	E2E3404040400730			222+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				223	OPCODE 51,LAE,\$OPRX,FLAGS=\$OPREF	01080000
000ADE	D3C1C54040400730			224+MACH51	DC CL6'LAE',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				225	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01090000
000AE6	D540404040400732			226+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				227	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01100000
000AEE	C3D3404040400734			228+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				229	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01110000
000AF6	D640404040400732			230+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				231	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL	01120000
000AFE	E740404040400732			232+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				233	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF	01130000
000B06	D340404040400730			234+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				235	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01140000
000B0E	C340404040400734			236+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				237	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01150000
000B16	C140404040400738			238+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				239	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01160000
000B1E	E240404040400738			240+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				241	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01170000
000B26	D440404040400731			242+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000B2E	001000000000			243+	DC XL6'001000000000'	00950000
				244	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072 01180000
000B34	C440404040400731			245+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000B3C	001000000000			246+	DC XL6'001000000000'	00950000
				247	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01190000
000B42	C1D3404040400738			248+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				249	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01200000
000B4A	E2D3404040400738			250+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				251	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF	01210000
000B52	E2E3C44040400730			252+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				253	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF	01220000
000B5A	D4E7C44040400730			254+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				255	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF	01230000
000B62	D3C4404040400730			256+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				257	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01240000
000B6A	C3C4404040400734			258+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				259	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01250000
000B72	C1C4404040400738			260+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				261	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01260000
000B7A	E2C4404040400738			262+MACH6B	DC CL6'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				263	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF	01270000
000B82	D4C4404040400730			264+MACH6C	DC CL6'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				265	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF	01280000
000B8A	C4C4404040400730			266+MACH6D	DC CL6'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				267	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF	01290000
000B92	C1E6404040400730			268+MACH6E	DC CL6'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				269	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01300000
000B9A	E2E6404040400738			270+MACH6F	DC CL6'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				271	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF	01310000

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000BA2	E2E3C54040400730			272+MACH70	DC CL6'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				273	OPCODE 71,MS,\$OPRX,FLAGS=\$OPREF	01320000
000BAA	D4E2404040400730			274+MACH71	DC CL6'MS',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				275	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF	01330000
000BB2	D3C5404040400730			276+MACH78	DC CL6'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				277	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC	01340000
000BBA	C3C5404040400734			278+MACH79	DC CL6'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				279	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01350000
000BC2	C1C5404040400738			280+MACH7A	DC CL6'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				281	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01360000
000BCA	E2C5404040400738			282+MACH7B	DC CL6'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				283	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF	01370000
000BD2	D4C5404040400730			284+MACH7C	DC CL6'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				285	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF	01380000
000BDA	C4C5404040400730			286+MACH7D	DC CL6'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				287	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01390000
000BE2	C1E4404040400738			288+MACH7E	DC CL6'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				289	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01400000
000BEA	E2E4404040400738			290+MACH7F	DC CL6'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				291 *	SSM PRODUCES MANY FALSE INSTRUCTIONS FOR 31-BIT ADCONS	01410000
				292 *	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF	01420000
				293	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01430000
000BF2	D3D7E2E640400931			294+MACH82	DC CL6'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000BFA	00FF00000000			295+	DC XL6'00FF00000000'	00950000
				296	OPCODE 83,DIAG,\$OPRSI	01440000
000C00	C4C9C1C740400B20			297+MACH83	DC CL6'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)	00910000
				298	OPCODE 84,BRXH,\$OPRS2	01450000
000C08	C2D9E7C840400D20			299+MACH84	DC CL6'BRXH',AL1(\$OPRS2,0+\$OPNCMNT)	00910000
				300	OPCODE 85,BRXLE,\$OPRS2	01460000
000C10	C2D9E7D3C5400D20			301+MACH85	DC CL6'BRXLE',AL1(\$OPRS2,0+\$OPNCMNT)	00910000
				302	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF	01470000
000C18	C2E7C84040400D30			303+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				304	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF	01480000
000C20	C2E7D3C540400D30			305+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				306	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 01490000
000C28	E2D9D34040400C21			307+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000C30	000F00000000			308+	DC XL6'000F00000000'	00950000
				309	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 01500000
000C36	E2D3D34040400C21			310+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000C3E	000F00000000			311+	DC XL6'000F00000000'	00950000
				312	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01510000
000C44	E2D9C14040400C29			313+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000C4C	000F00000000			314+	DC XL6'000F00000000'	00950000
				315	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01520000
000C52	E2D3C14040400C29			316+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000C5A	000F00000000			317+	DC XL6'000F00000000'	00950000
				318	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 01530000
000C60	E2D9C4D340400C21			319+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000C68	000F00000000			320+	DC XL6'000F00000000'	00950000
				321	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 01540000
000C6E	E2D3C4D340400C21			322+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000C76	000F00000000			323+	DC XL6'000F00000000'	00950000
				324	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01550000
000C7C	E2D9C4C140400C29			325+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000C84	000F00000000			326+	DC XL6'000F00000000'	00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				327	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01560000
000C8A	E2D3C4C140400C29			328+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000C92	000F00000000			329+	DC XL6'000F00000000'	00950000
				330	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF	01570000
000C98	E2E3D44040400D30			331+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				332	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01580000
000CA0	E3D4404040400A32			333+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				334	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	01590000
000CA8	D4E5C94040400A30			335+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				336	OPCODE 93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000	GP10018 01600000
000CB0	E3E2404040400939			337+MACH93	DC CL6'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000CB8	00FF00000000			338+	DC XL6'00FF00000000'	00950000
				339	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01610000
000CBE	D5C9404040400A32			340+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				341	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	01620000
000CC6	C3D3C94040400A34			342+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				343	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01630000
000CCE	D6C9404040400A32			344+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				345	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01640000
000CD6	E7C9404040400A32			346+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				347	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF	01650000
000CDE	D3D4404040400D30			348+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				349	OPCODE 99,TRACE,\$OPRS2,FLAGS=\$OPREF	01660000
000CE6	E3D9C1C3C5400D30			350+MACH99	DC CL6'TRACE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				351	OPCODE 9A,LAM,\$OPRS2,FLAGS=\$OPREF	01670000
000CEE	D3C1D44040400D30			352+MACH9A	DC CL6'LAM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				353	OPCODE 9B,STAM,\$OPRS2,FLAGS=\$OPREF	01680000
000CF6	E2E3C1D440400D30			354+MACH9B	DC CL6'STAM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				355	TABLEA7 OPCODE A7,X'FF',0,15,TYPE=TABLE NO MASK, NO SHIFT, MAX 15	01690000
000CFE	5CFF000F			356+OPTBA7	DC C'*,AL1(X'FF',0,15)	GP05204 01040000
000D02	0000000000000000			357+	DC (15+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				358	OPCODE A700,TMH,\$OPRI,FLAGS=\$OPCCL	GP99137 01700000
000D42		00D02		359+	ORG OPTBA7+4+4*X'00'	GP99137 00740000
000D02	00000D42			360+	DC AL4(OP2A700)	GP99137 00750000
000D06		00D42		361+	ORG ,	GP99137 00760000
000D42	E3D4C84040400B22			362+OP2A700	DC CL6'TMH',AL1(\$OPRI,\$OPCCL+\$OPNCMNT)	00910000
				363	OPCODE A701,TML,\$OPRI,FLAGS=\$OPCCL	GP99137 01710000
000D4A		00D06		364+	ORG OPTBA7+4+4*X'01'	GP99137 00740000
000D06	00000D4A			365+	DC AL4(OP2A701)	GP99137 00750000
000D0A		00D4A		366+	ORG ,	GP99137 00760000
000D4A	E3D4D34040400B22			367+OP2A701	DC CL6'TML',AL1(\$OPRI,\$OPCCL+\$OPNCMNT)	00910000
				368	OPCODE A704,BRC,\$OPRI	GP99137 01720000
000D52		00D12		369+	ORG OPTBA7+4+4*X'04'	GP99137 00740000
000D12	00000D52			370+	DC AL4(OP2A704)	GP99137 00750000
000D16		00D52		371+	ORG ,	GP99137 00760000
000D52	C2D9C34040400B20			372+OP2A704	DC CL6'BRC',AL1(\$OPRI,0+\$OPNCMNT)	00910000
				373	OPCODE A705,BRAS,\$OPRI	GP99137 01730000
000D5A		00D16		374+	ORG OPTBA7+4+4*X'05'	GP99137 00740000
000D16	00000D5A			375+	DC AL4(OP2A705)	GP99137 00750000
000D1A		00D5A		376+	ORG ,	GP99137 00760000
000D5A	C2D9C1E240400B20			377+OP2A705	DC CL6'BRAS',AL1(\$OPRI,0+\$OPNCMNT)	00910000
				378	OPCODE A706,BRCT,\$OPRI	GP99137 01740000
000D62		00D1A		379+	ORG OPTBA7+4+4*X'06'	GP99137 00740000
000D1A	00000D62			380+	DC AL4(OP2A706)	GP99137 00750000
000D1E		00D62		381+	ORG ,	GP99137 00760000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000D62	C2D9C3E340400B20			382+OP2A706	DC CL6'BRCT',AL1(\$OPRI,0+\$OPNCMNT)	00910000
				383	OPCODE A708,LHI,\$OPRI	GP99137 01750000
000D6A		00D22		384+	ORG OPTBA7+4+4*X'08'	GP99137 00740000
000D22	00000D6A			385+	DC AL4(OP2A708)	GP99137 00750000
000D26		00D6A		386+	ORG ,	GP99137 00760000
000D6A	D3C8C94040400B20			387+OP2A708	DC CL6'LHI',AL1(\$OPRI,0+\$OPNCMNT)	00910000
				388	OPCODE A70A,AHI,\$OPRI,FLAGS=\$OPCCA	GP99137 01760000
000D72		00D2A		389+	ORG OPTBA7+4+4*X'0A'	GP99137 00740000
000D2A	00000D72			390+	DC AL4(OP2A70A)	GP99137 00750000
000D2E		00D72		391+	ORG ,	GP99137 00760000
000D72	C1C8C94040400B28			392+OP2A70A	DC CL6'AHI',AL1(\$OPRI,\$OPCCA+\$OPNCMNT)	00910000
				393	OPCODE A70C,MHI,\$OPRI	GP99137 01770000
000D7A		00D32		394+	ORG OPTBA7+4+4*X'0C'	GP99137 00740000
000D32	00000D7A			395+	DC AL4(OP2A70C)	GP99137 00750000
000D36		00D7A		396+	ORG ,	GP99137 00760000
000D7A	D4C8C94040400B20			397+OP2A70C	DC CL6'MHI',AL1(\$OPRI,0+\$OPNCMNT)	00910000
				398	OPCODE A70E,CHI,\$OPRI,FLAGS=\$OPCCA	GP99137 01780000
000D82		00D3A		399+	ORG OPTBA7+4+4*X'0E'	GP99137 00740000
000D3A	00000D82			400+	DC AL4(OP2A70E)	GP99137 00750000
000D3E		00D82		401+	ORG ,	GP99137 00760000
000D82	C3C8C94040400B28			402+OP2A70E	DC CL6'CHI',AL1(\$OPRI,\$OPCCA+\$OPNCMNT)	00910000
				403	OPCODE A8,MVCLE,\$OPRR2 FLAGS=\$OPREF	GP04234 01790000
000D8A	D4E5C3D3C5400220			404+MACHA8	DC CL6'MVCLE',AL1(\$OPRR2,0+\$OPNCMNT)	00910000
				405	OPCODE A9,CLCLE,\$OPRR2 FLAGS=\$OPREF	GP04234 01800000
000D92	C3D3C3D3C5400220			406+MACHA9	DC CL6'CLCLE',AL1(\$OPRR2,0+\$OPNCMNT)	00910000
				407	OPCODE AC,STNSM,\$OPSI,FLAGS=\$OPREF	01810000
000D9A	E2E3D5E2D4400A30			408+MACHAC	DC CL6'STNSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				409	OPCODE AD,STOSM,\$OPSI,FLAGS=\$OPREF	01820000
000DA2	E2E3D6E2D4400A30			410+MACHAD	DC CL6'STOSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				411	OPCODE AE,SIGP,\$OPRS2,FLAGS=\$OPCCA	01830000
000DAA	E2C9C7D740400D28			412+MACHAE	DC CL6'SIGP',AL1(\$OPRS2,\$OPCCA+\$OPNCMNT)	00910000
				413	OPCODE AF,MC,\$OPSI	01840000
000DB2	D4C3404040400A20			414+MACHAF	DC CL6'MC',AL1(\$OPSI,0+\$OPNCMNT)	00910000
				415	OPCODE B1,LRA,\$OPRX,FLAGS=\$OPREF+\$OPCCA	01850000
000DBA	D3D9C14040400738			416+MACHB1	DC CL6'LRA',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				417 TABLEB2	OPCODE B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	01860000
000DC2	5CFF00FF			418+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
000DC6	0000000000000000			419+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				420	OPCODE B202,STIDP,\$OPS,FLAGS=\$OPREF	GP05204 01870000
0011C6		00DCE		421+	ORG OPTBB2+4+4*X'02'	GP99137 00740000
000DCE	000011C6			422+	DC AL4(OP2B202)	GP99137 00750000
000DD2		011C6		423+	ORG ,	GP99137 00760000
0011C6	E2E3C9C4D7400930			424+OP2B202	DC CL6'STIDP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				425	OPCODE B204,SCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP05204 01880000
0011CE		00DD6		426+	ORG OPTBB2+4+4*X'04'	GP99137 00740000
000DD6	000011CE			427+	DC AL4(OP2B204)	GP99137 00750000
000DDA		011CE		428+	ORG ,	GP99137 00760000
0011CE	E2C3D24040400932			429+OP2B204	DC CL6'SCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				430	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP99137 01890000
0011D6		00DDA		431+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
000DDA	000011D6			432+	DC AL4(OP2B205)	GP99137 00750000
000DDE		011D6		433+	ORG ,	GP99137 00760000
0011D6	E2E3C3D240400932			434+OP2B205	DC CL6'STCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				435	OPCODE B206,SCKC,\$OPS,FLAGS=\$OPREF	GP05204 01900000
0011DE		00DDE		436+	ORG OPTBB2+4+4*X'06'	GP99137 00740000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000DDE	000011DE			437+	DC AL4(OP2B206)	GP99137 00750000
000DE2			011DE	438+	ORG ,	GP99137 00760000
0011DE	E2C3D2C340400930			439+OP2B206	DC CL6'SCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				440	OPCODE B207,STCKC,\$OPS,FLAGS=\$OPREF	GP05204 01910000
0011E6			00DE2	441+	ORG OPTBB2+4+4*X'07'	GP99137 00740000
000DE2	000011E6			442+	DC AL4(OP2B207)	GP99137 00750000
000DE6			011E6	443+	ORG ,	GP99137 00760000
0011E6	E2E3C3D2C3400930			444+OP2B207	DC CL6'STCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				445	OPCODE B208,SPT,\$OPS,FLAGS=\$OPREF	GP05204 01920000
0011EE			00DE6	446+	ORG OPTBB2+4+4*X'08'	GP99137 00740000
000DE6	000011EE			447+	DC AL4(OP2B208)	GP99137 00750000
000DEA			011EE	448+	ORG ,	GP99137 00760000
0011EE	E2D7E34040400930			449+OP2B208	DC CL6'SPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				450	OPCODE B209,STPT,\$OPS,FLAGS=\$OPREF	GP05204 01930000
0011F6			00DEA	451+	ORG OPTBB2+4+4*X'09'	GP99137 00740000
000DEA	000011F6			452+	DC AL4(OP2B209)	GP99137 00750000
000DEE			011F6	453+	ORG ,	GP99137 00760000
0011F6	E2E3D7E340400930			454+OP2B209	DC CL6'STPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				455	OPCODE B20A,SPKA,\$OPS,FLAGS=\$OPREF	GP05204 01940000
0011FE			00DEE	456+	ORG OPTBB2+4+4*X'0A'	GP99137 00740000
000DEE	000011FE			457+	DC AL4(OP2B20A)	GP99137 00750000
000DF2			011FE	458+	ORG ,	GP99137 00760000
0011FE	E2D7D2C140400930			459+OP2B20A	DC CL6'SPKA',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				460	OPCODE B20B,IPK,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01950000
001206			00DF2	461+	ORG OPTBB2+4+4*X'0B'	GP99137 00740000
000DF2	00001206			462+	DC AL4(OP2B20B)	GP99137 00750000
000DF6			01206	463+	ORG ,	GP99137 00760000
001206	C9D7D24040400931			464+OP2B20B	DC CL6'IPK',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00120E	0000FFFF0000			465+	DC XL6'0000FFFF0000'	00950000
				466	OPCODE B20D,PTLB,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01960000
001214			00DFA	467+	ORG OPTBB2+4+4*X'0D'	GP99137 00740000
000DFA	00001214			468+	DC AL4(OP2B20D)	GP99137 00750000
000DFE			01214	469+	ORG ,	GP99137 00760000
001214	D7E3D3C240400931			470+OP2B20D	DC CL6'PTLB',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00121C	0000FFFF0000			471+	DC XL6'0000FFFF0000'	00950000
				472	OPCODE B210,SPX,\$OPS,FLAGS=\$OPREF	GP05204 01970000
001222			00E06	473+	ORG OPTBB2+4+4*X'10'	GP99137 00740000
000E06	00001222			474+	DC AL4(OP2B210)	GP99137 00750000
000E0A			01222	475+	ORG ,	GP99137 00760000
001222	E2D7E74040400930			476+OP2B210	DC CL6'SPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				477	OPCODE B211,STPX,\$OPS,FLAGS=\$OPREF	GP05204 01980000
00122A			00E0A	478+	ORG OPTBB2+4+4*X'11'	GP99137 00740000
000E0A	0000122A			479+	DC AL4(OP2B211)	GP99137 00750000
000E0E			0122A	480+	ORG ,	GP99137 00760000
00122A	E2E3D7E740400930			481+OP2B211	DC CL6'STPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				482	OPCODE B212,STAP,\$OPS,FLAGS=\$OPREF	GP05204 01990000
001232			00E0E	483+	ORG OPTBB2+4+4*X'12'	GP99137 00740000
000E0E	00001232			484+	DC AL4(OP2B212)	GP99137 00750000
000E12			01232	485+	ORG ,	GP99137 00760000
001232	E2E3C1D740400930			486+OP2B212	DC CL6'STAP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				487	OPCODE B213,RRB,\$OPS,FLAGS=\$OPREF	GP05204 02000000
00123A			00E12	488+	ORG OPTBB2+4+4*X'13'	GP99137 00740000
000E12	0000123A			489+	DC AL4(OP2B213)	GP99137 00750000
000E16			0123A	490+	ORG ,	GP99137 00760000
00123A	D9D9C24040400930			491+OP2B213	DC CL6'RRB',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				492	OPCODE B214,SIE,\$OPS,FLAGS=\$OPREF	GP05204	02010000
001242			00E16	493+	ORG OPTBB2+4+4*X'14'	GP99137	00740000
000E16	00001242			494+	DC AL4(OP2B214)	GP99137	00750000
000E1A			01242	495+	ORG ,	GP99137	00760000
001242	E2C9C54040400930			496+OP2B214	DC CL6'SIE',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				497	OPCODE B218,PC,\$OPS	GP99137	02020000
00124A			00E26	498+	ORG OPTBB2+4+4*X'18'	GP99137	00740000
000E26	0000124A			499+	DC AL4(OP2B218)	GP99137	00750000
000E2A			0124A	500+	ORG ,	GP99137	00760000
00124A	D7C3404040400920			501+OP2B218	DC CL6'PC',AL1(\$OPS,0+\$OPNCMNT)		00910000
				502	OPCODE B219,SAC,\$OPS	GP99137	02030000
001252			00E2A	503+	ORG OPTBB2+4+4*X'19'	GP99137	00740000
000E2A	00001252			504+	DC AL4(OP2B219)	GP99137	00750000
000E2E			01252	505+	ORG ,	GP99137	00760000
001252	E2C1C34040400920			506+OP2B219	DC CL6'SAC',AL1(\$OPS,0+\$OPNCMNT)		00910000
				507	OPCODE B21A,CFC,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP99137	02040000
00125A			00E2E	508+	ORG OPTBB2+4+4*X'1A'	GP99137	00740000
000E2E	0000125A			509+	DC AL4(OP2B21A)	GP99137	00750000
000E32			0125A	510+	ORG ,	GP99137	00760000
00125A	C3C6C34040400932			511+OP2B21A	DC CL6'CFC',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				512	OPCODE B221,IPTC,\$OPRRE	GP05204	02050000
001262			00E4A	513+	ORG OPTBB2+4+4*X'21'	GP99137	00740000
000E4A	00001262			514+	DC AL4(OP2B221)	GP99137	00750000
000E4E			01262	515+	ORG ,	GP99137	00760000
001262	C9D7E3C540400620			516+OP2B221	DC CL6'IPTC',AL1(\$OPRRE,0+\$OPNCMNT)		00910000
				517	OPCODE B222,IPM,\$OPRRE	GP05204	02060000
00126A			00E4E	518+	ORG OPTBB2+4+4*X'22'	GP99137	00740000
000E4E	0000126A			519+	DC AL4(OP2B222)	GP99137	00750000
000E52			0126A	520+	ORG ,	GP99137	00760000
00126A	C9D7D44040400620			521+OP2B222	DC CL6'IPM',AL1(\$OPRRE,0+\$OPNCMNT)		00910000
				522	OPCODE B223,IVSK,\$OPRRE,MASK=0000FF00	GP10018	02070000
001272			00E52	523+	ORG OPTBB2+4+4*X'23'	GP99137	00740000
000E52	00001272			524+	DC AL4(OP2B223)	GP99137	00750000
000E56			01272	525+	ORG ,	GP99137	00760000
001272	C9E5E2D240400621			526+OP2B223	DC CL6'IVSK',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)		00910000
00127A	0000FF000000			527+	DC XL6'0000FF000000'		00950000
				528	OPCODE B224,IAC,\$OPRRE3,FLAGS=\$OPCCL,MASK=0000FF0F	GP10018	02080000
001280			00E56	529+	ORG OPTBB2+4+4*X'24'	GP99137	00740000
000E56	00001280			530+	DC AL4(OP2B224)	GP99137	00750000
000E5A			01280	531+	ORG ,	GP99137	00760000
001280	C9C1C34040401523			532+OP2B224	DC CL6'IAC',AL1(\$OPRRE3,\$OPCCL+\$OPNCMNT+\$OPMASK)		00910000
001288	0000FF0F0000			533+	DC XL6'0000FF0F0000'		00950000
				534	OPCODE B225,SSAR,\$OPRRE3,MASK=0000FF0F	GP99137	02090000
00128E			00E5A	535+	ORG OPTBB2+4+4*X'25'	GP99137	00740000
000E5A	0000128E			536+	DC AL4(OP2B225)	GP99137	00750000
000E5E			0128E	537+	ORG ,	GP99137	00760000
00128E	E2E2C1D940401521			538+OP2B225	DC CL6'SSAR',AL1(\$OPRRE3,0+\$OPNCMNT+\$OPMASK)		00910000
001296	0000FF0F0000			539+	DC XL6'0000FF0F0000'		00950000
				540	OPCODE B226,EPAR,\$OPRRE,MASK=0000FF00	GP10018	02100000
00129C			00E5E	541+	ORG OPTBB2+4+4*X'26'	GP99137	00740000
000E5E	0000129C			542+	DC AL4(OP2B226)	GP99137	00750000
000E62			0129C	543+	ORG ,	GP99137	00760000
00129C	C5D7C1D940400621			544+OP2B226	DC CL6'EPAR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)		00910000
0012A4	0000FF000000			545+	DC XL6'0000FF000000'		00950000
				546	OPCODE B227,ESAR,\$OPRRE,MASK=0000FF00	GP10018	02110000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0012AA			00E62	547+	ORG OPTBB2+4+4*X'27'	GP99137 00740000
000E62	000012AA			548+	DC AL4(OP2B227)	GP99137 00750000
000E66			012AA	549+	ORG ,	GP99137 00760000
0012AA	C5E2C1D940400621			550+OP2B227	DC CL6'ESAR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0012B2	0000FF000000			551+	DC XL6'0000FF000000'	00950000
				552	OPCODE B228,PT,\$OPRRE,MASK=0000FF00	GP10018 02120000
0012B8			00E66	553+	ORG OPTBB2+4+4*X'28'	GP99137 00740000
000E66	000012B8			554+	DC AL4(OP2B228)	GP99137 00750000
000E6A			012B8	555+	ORG ,	GP99137 00760000
0012B8	D7E3404040400621			556+OP2B228	DC CL6'PT',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0012C0	0000FF000000			557+	DC XL6'0000FF000000'	00950000
				558	OPCODE B229,ISKE,\$OPRRE,MASK=0000FF00	GP10018 02130000
0012C6			00E6A	559+	ORG OPTBB2+4+4*X'29'	GP99137 00740000
000E6A	000012C6			560+	DC AL4(OP2B229)	GP99137 00750000
000E6E			012C6	561+	ORG ,	GP99137 00760000
0012C6	C9E2D2C540400621			562+OP2B229	DC CL6'ISKE',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0012CE	0000FF000000			563+	DC XL6'0000FF000000'	00950000
				564	OPCODE B22A,RRBE,\$OPRRE,MASK=0000FF00	GP10018 02140000
0012D4			00E6E	565+	ORG OPTBB2+4+4*X'2A'	GP99137 00740000
000E6E	000012D4			566+	DC AL4(OP2B22A)	GP99137 00750000
000E72			012D4	567+	ORG ,	GP99137 00760000
0012D4	D9D9C2C540400621			568+OP2B22A	DC CL6'RRBE',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0012DC	0000FF000000			569+	DC XL6'0000FF000000'	00950000
				570	OPCODE B22B,SSKE,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02150000
0012E2			00E72	571+	ORG OPTBB2+4+4*X'2B'	GP99137 00740000
000E72	000012E2			572+	DC AL4(OP2B22B)	GP99137 00750000
000E76			012E2	573+	ORG ,	GP99137 00760000
0012E2	E2E2D2C540400623			574+OP2B22B	DC CL6'SSKE',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0012EA	0000FF000000			575+	DC XL6'0000FF000000'	00950000
				576	OPCODE B22C,TB,\$OPRRE,MASK=0000FF00	GP10018 02160000
0012F0			00E76	577+	ORG OPTBB2+4+4*X'2C'	GP99137 00740000
000E76	000012F0			578+	DC AL4(OP2B22C)	GP99137 00750000
000E7A			012F0	579+	ORG ,	GP99137 00760000
0012F0	E3C2404040400621			580+OP2B22C	DC CL6'TB',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0012F8	0000FF000000			581+	DC XL6'0000FF000000'	00950000
				582	OPCODE B22D,DXR,\$OPRRE	GP99137 02170000
0012FE			00E7A	583+	ORG OPTBB2+4+4*X'2D'	GP99137 00740000
000E7A	000012FE			584+	DC AL4(OP2B22D)	GP99137 00750000
000E7E			012FE	585+	ORG ,	GP99137 00760000
0012FE	C4E7D94040400620			586+OP2B22D	DC CL6'DXR',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				587	OPCODE B230,CSCH,\$OPS,MASK=0000FFFF	GP05204 02180000
001306			00E86	588+	ORG OPTBB2+4+4*X'30'	GP99137 00740000
000E86	00001306			589+	DC AL4(OP2B230)	GP99137 00750000
000E8A			01306	590+	ORG ,	GP99137 00760000
001306	C3E2C3C840400921			591+OP2B230	DC CL6'CSCH',AL1(\$OPS,0+\$OPNCMNT+\$OPMASK)	00910000
00130E	0000FFFF0000			592+	DC XL6'0000FFFF0000'	00950000
				593	OPCODE B231,HSCH,\$OPS,MASK=0000FFFF	GP05204 02190000
001314			00E8A	594+	ORG OPTBB2+4+4*X'31'	GP99137 00740000
000E8A	00001314			595+	DC AL4(OP2B231)	GP99137 00750000
000E8E			01314	596+	ORG ,	GP99137 00760000
001314	C8E2C3C840400921			597+OP2B231	DC CL6'HSCH',AL1(\$OPS,0+\$OPNCMNT+\$OPMASK)	00910000
00131C	0000FFFF0000			598+	DC XL6'0000FFFF0000'	00950000
				599	OPCODE B232,MSCH,\$OPS,FLAGS=\$OPREF	GP05204 02200000
001322			00E8E	600+	ORG OPTBB2+4+4*X'32'	GP99137 00740000
000E8E	00001322			601+	DC AL4(OP2B232)	GP99137 00750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
000E92			01322	602+		ORG ,		GP99137	00760000	
001322	D4E2C3C840400930			603+OP2B232	DC	CL6'MSCH',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				604		OPCODE B233,SSCH,\$OPS,FLAGS=\$OPREF		GP10046	02210000	
00132A		00E92		605+	ORG	OPTBB2+4+4*X'33'		GP99137	00740000	
000E92	0000132A			606+	DC	AL4(OP2B233)		GP99137	00750000	
000E96		0132A		607+	ORG	,		GP99137	00760000	
00132A	E2E2C3C840400930			608+OP2B233	DC	CL6'SSCH',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				609		OPCODE B234,STSCH,\$OPS,FLAGS=\$OPREF		GP10046	02220000	
001332		00E96		610+	ORG	OPTBB2+4+4*X'34'		GP99137	00740000	
000E96	00001332			611+	DC	AL4(OP2B234)		GP99137	00750000	
000E9A		01332		612+	ORG	,		GP99137	00760000	
001332	E2E3E2C3C8400930			613+OP2B234	DC	CL6'STSCH',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				614		OPCODE B235,TSCH,\$OPS,FLAGS=\$OPREF		GP10046	02230000	
00133A		00E9A		615+	ORG	OPTBB2+4+4*X'35'		GP99137	00740000	
000E9A	0000133A			616+	DC	AL4(OP2B235)		GP99137	00750000	
000E9E		0133A		617+	ORG	,		GP99137	00760000	
00133A	E3E2C3C840400930			618+OP2B235	DC	CL6'TSCH',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				619		OPCODE B236,TPI,\$OPS,FLAGS=\$OPREF		GP10046	02240000	
001342		00E9E		620+	ORG	OPTBB2+4+4*X'36'		GP99137	00740000	
000E9E	00001342			621+	DC	AL4(OP2B236)		GP99137	00750000	
000EA2		01342		622+	ORG	,		GP99137	00760000	
001342	E3D7C94040400930			623+OP2B236	DC	CL6'TPI',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				624		OPCODE B237,SAL,\$OPS,MASK=0000FFFF		GP10046	02250000	
00134A		00EA2		625+	ORG	OPTBB2+4+4*X'37'		GP99137	00740000	
000EA2	0000134A			626+	DC	AL4(OP2B237)		GP99137	00750000	
000EA6		0134A		627+	ORG	,		GP99137	00760000	
00134A	E2C1D34040400921			628+OP2B237	DC	CL6'SAL',AL1(\$OPS,0+\$OPNCMNT+\$OPMASK)			00910000	
001352	0000FFFF0000			629+	DC	XL6'0000FFFF0000'			00950000	
				630		OPCODE B238,RSCH,\$OPS,MASK=0000FFFF		GP10046	02260000	
001358		00EA6		631+	ORG	OPTBB2+4+4*X'38'		GP99137	00740000	
000EA6	00001358			632+	DC	AL4(OP2B238)		GP99137	00750000	
000EAA		01358		633+	ORG	,		GP99137	00760000	
001358	D9E2C3C840400921			634+OP2B238	DC	CL6'RSCH',AL1(\$OPS,0+\$OPNCMNT+\$OPMASK)			00910000	
001360	0000FFFF0000			635+	DC	XL6'0000FFFF0000'			00950000	
				636		OPCODE B239,STCRW,\$OPS,FLAGS=\$OPREF		GP10046	02270000	
001366		00EAA		637+	ORG	OPTBB2+4+4*X'39'		GP99137	00740000	
000EAA	00001366			638+	DC	AL4(OP2B239)		GP99137	00750000	
000EAE		01366		639+	ORG	,		GP99137	00760000	
001366	E2E3C3D9E6400930			640+OP2B239	DC	CL6'STCRW',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				641		OPCODE B23A,STCPS,\$OPS,FLAGS=\$OPREF		GP05204	02280000	
00136E		00EAE		642+	ORG	OPTBB2+4+4*X'3A'		GP99137	00740000	
000EAE	0000136E			643+	DC	AL4(OP2B23A)		GP99137	00750000	
000EB2		0136E		644+	ORG	,		GP99137	00760000	
00136E	E2E3C3D7E2400930			645+OP2B23A	DC	CL6'STCPS',AL1(\$OPS,\$OPREF+\$OPNCMNT)			00910000	
				646		OPCODE B23B,RCHP,\$OPS,FLAGS=\$OPCCL,MASK=0000FFFF		GP10046	02290000	
001376		00EB2		647+	ORG	OPTBB2+4+4*X'3B'		GP99137	00740000	
000EB2	00001376			648+	DC	AL4(OP2B23B)		GP99137	00750000	
000EB6		01376		649+	ORG	,		GP99137	00760000	
001376	D9C3C8D740400923			650+OP2B23B	DC	CL6'RCHP',AL1(\$OPS,\$OPCCL+\$OPNCMNT+\$OPMASK)			00910000	
00137E	0000FFFF0000			651+	DC	XL6'0000FFFF0000'			00950000	
				652		OPCODE B23C,SCHM,\$OPS,MASK=0000FFFF		GP10046	02300000	
001384		00EB6		653+	ORG	OPTBB2+4+4*X'3C'		GP99137	00740000	
000EB6	00001384			654+	DC	AL4(OP2B23C)		GP99137	00750000	
000EBA		01384		655+	ORG	,		GP99137	00760000	
001384	E2C3C8D440400921			656+OP2B23C	DC	CL6'SCHM',AL1(\$OPS,0+\$OPNCMNT+\$OPMASK)			00910000	

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00138C	0000FFFF0000			657+	DC XL6'0000FFFF0000'	00950000
				658	OPCODE B240,BAKR,\$OPRRE,MASK=0000FF00	GP10018 02310000
001392		00EC6		659+	ORG OPTBB2+4+4*X'40'	GP99137 00740000
000EC6	00001392			660+	DC AL4(OP2B240)	GP99137 00750000
000ECA		01392		661+	ORG ,	GP99137 00760000
001392	C2C1D2D940400621			662+OP2B240	DC CL6'BAKR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
00139A	0000FF000000			663+	DC XL6'0000FF000000'	00950000
				664	OPCODE B241,CKSM,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02320000
0013A0		00ECA		665+	ORG OPTBB2+4+4*X'41'	GP99137 00740000
000ECA	000013A0			666+	DC AL4(OP2B241)	GP99137 00750000
000ECE		013A0		667+	ORG ,	GP99137 00760000
0013A0	C3D2E2D440400623			668+OP2B241	DC CL6'CKSM',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0013A8	0000FF000000			669+	DC XL6'0000FF000000'	00950000
				670	OPCODE B243,MADS,\$OPRRE ARITHM. ASSIST	GP99137 02330000
0013AE		00ED2		671+	ORG OPTBB2+4+4*X'43'	GP99137 00740000
000ED2	000013AE			672+	DC AL4(OP2B243)	GP99137 00750000
000ED6		013AE		673+	ORG ,	GP99137 00760000
0013AE	D4C1C4E240400620			674+OP2B243	DC CL6'MADS',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				675	OPCODE B244,SQDR,\$OPRRE ARITHM. ASSIST	GP99137 02340000
0013B6		00ED6		676+	ORG OPTBB2+4+4*X'44'	GP99137 00740000
000ED6	000013B6			677+	DC AL4(OP2B244)	GP99137 00750000
000EDA		013B6		678+	ORG ,	GP99137 00760000
0013B6	E2D8C4D940400620			679+OP2B244	DC CL6'SQDR',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				680	OPCODE B245,SQER,\$OPRRE ARITHM. ASSIST	GP99137 02350000
0013BE		00EDA		681+	ORG OPTBB2+4+4*X'45'	GP99137 00740000
000EDA	000013BE			682+	DC AL4(OP2B245)	GP99137 00750000
000EDE		013BE		683+	ORG ,	GP99137 00760000
0013BE	E2D8C5D940400620			684+OP2B245	DC CL6'SQER',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				685	OPCODE B246,STURA,\$OPRRE,MASK=0000FF00	GP10018 02360000
0013C6		00EDE		686+	ORG OPTBB2+4+4*X'46'	GP99137 00740000
000EDE	000013C6			687+	DC AL4(OP2B246)	GP99137 00750000
000EE2		013C6		688+	ORG ,	GP99137 00760000
0013C6	E2E3E4D9C1400621			689+OP2B246	DC CL6'STURA',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0013CE	0000FF000000			690+	DC XL6'0000FF000000'	00950000
				691	OPCODE B247,MSTA,\$OPRRE3,MASK=0000FF0F	GP10018 02370000
0013D4		00EE2		692+	ORG OPTBB2+4+4*X'47'	GP99137 00740000
000EE2	000013D4			693+	DC AL4(OP2B247)	GP99137 00750000
000EE6		013D4		694+	ORG ,	GP99137 00760000
0013D4	D4E2E3C140401521			695+OP2B247	DC CL6'MSTA',AL1(\$OPRRE3,0+\$OPNCMNT+\$OPMASK)	00910000
0013DC	0000FF0F0000			696+	DC XL6'0000FF0F0000'	00950000
				697	OPCODE B248,PALB,\$OPRRE0,MASK=0000FFFF	GP10018 02380000
0013E2		00EE6		698+	ORG OPTBB2+4+4*X'48'	GP99137 00740000
000EE6	000013E2			699+	DC AL4(OP2B248)	GP99137 00750000
000EEA		013E2		700+	ORG ,	GP99137 00760000
0013E2	D7C1D3C240401421			701+OP2B248	DC CL6'PALB',AL1(\$OPRRE0,0+\$OPNCMNT+\$OPMASK)	00910000
0013EA	0000FFFF0000			702+	DC XL6'0000FFFF0000'	00950000
				703	OPCODE B249,EREG,\$OPRRE,MASK=0000FF00	GP10018 02390000
0013F0		00EEA		704+	ORG OPTBB2+4+4*X'49'	GP99137 00740000
000EEA	000013F0			705+	DC AL4(OP2B249)	GP99137 00750000
000EEE		013F0		706+	ORG ,	GP99137 00760000
0013F0	C5D9C5C740400621			707+OP2B249	DC CL6'EREG',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0013F8	0000FF000000			708+	DC XL6'0000FF000000'	00950000
				709	OPCODE B24A,ESTA,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02400000
0013FE		00EEE		710+	ORG OPTBB2+4+4*X'4A'	GP99137 00740000
000EEE	000013FE			711+	DC AL4(OP2B24A)	GP99137 00750000

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000EF2			013FE	712+	ORG ,	GP99137 00760000
0013FE	C5E2E3C140400623			713+OP2B24A	DC CL6'ESTA',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
001406	0000FF000000			714+	DC XL6'0000FF000000'	00950000
				715	OPCODE B24B,LURA,\$OPRRE,MASK=0000FF00	GP10018 02410000
00140C			00EF2	716+	ORG OPTBB2+4+4*X'4B'	GP99137 00740000
000EF2	0000140C			717+	DC AL4(OP2B24B)	GP99137 00750000
000EF6			0140C	718+	ORG ,	GP99137 00760000
00140C	D3E4D9C140400621			719+OP2B24B	DC CL6'LURA',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
001414	0000FF000000			720+	DC XL6'0000FF000000'	00950000
				721	OPCODE B24C,TAR,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02420000
00141A			00EF6	722+	ORG OPTBB2+4+4*X'4C'	GP99137 00740000
000EF6	0000141A			723+	DC AL4(OP2B24C)	GP99137 00750000
000EFA			0141A	724+	ORG ,	GP99137 00760000
00141A	E3C1D94040400623			725+OP2B24C	DC CL6'TAR',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
001422	0000FF000000			726+	DC XL6'0000FF000000'	00950000
				727	OPCODE B24D,CPYA,\$OPRRE,MASK=0000FF00	GP10018 02430000
001428			00EFA	728+	ORG OPTBB2+4+4*X'4D'	GP99137 00740000
000EFA	00001428			729+	DC AL4(OP2B24D)	GP99137 00750000
000EFE			01428	730+	ORG ,	GP99137 00760000
001428	C3D7E8C140400621			731+OP2B24D	DC CL6'CPYA',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
001430	0000FF000000			732+	DC XL6'0000FF000000'	00950000
				733	OPCODE B24E,SAR,\$OPRRE,MASK=0000FF00	GP10018 02440000
001436			00EFE	734+	ORG OPTBB2+4+4*X'4E'	GP99137 00740000
000EFE	00001436			735+	DC AL4(OP2B24E)	GP99137 00750000
000F02			01436	736+	ORG ,	GP99137 00760000
001436	E2C1D94040400621			737+OP2B24E	DC CL6'SAR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
00143E	0000FF000000			738+	DC XL6'0000FF000000'	00950000
				739	OPCODE B24F,EAR,\$OPRRE,MASK=0000FF00	GP10018 02450000
001444			00F02	740+	ORG OPTBB2+4+4*X'4F'	GP99137 00740000
000F02	00001444			741+	DC AL4(OP2B24F)	GP99137 00750000
000F06			01444	742+	ORG ,	GP99137 00760000
001444	C5C1D94040400621			743+OP2B24F	DC CL6'EAR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
00144C	0000FF000000			744+	DC XL6'0000FF000000'	00950000
				745	OPCODE B252,MSR,\$OPRRE,MASK=0000FF00	GP10018 02460000
001452			00F0E	746+	ORG OPTBB2+4+4*X'52'	GP99137 00740000
000F0E	00001452			747+	DC AL4(OP2B252)	GP99137 00750000
000F12			01452	748+	ORG ,	GP99137 00760000
001452	D4E2D94040400621			749+OP2B252	DC CL6'MSR',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
00145A	0000FF000000			750+	DC XL6'0000FF000000'	00950000
				751	OPCODE B254,MVPG,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02470000
001460			00F16	752+	ORG OPTBB2+4+4*X'54'	GP99137 00740000
000F16	00001460			753+	DC AL4(OP2B254)	GP99137 00750000
000F1A			01460	754+	ORG ,	GP99137 00760000
001460	D4E5D7C740400623			755+OP2B254	DC CL6'MVPG',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
001468	0000FF000000			756+	DC XL6'0000FF000000'	00950000
				757 *MVPG2	OPCD B254,MVPG,\$OPRRE,FLAGS=\$OPCCL SEMI-PRIV	GP99137 02480000
				758	OPCODE B255,MVST,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02490000
00146E			00F1A	759+	ORG OPTBB2+4+4*X'55'	GP99137 00740000
000F1A	0000146E			760+	DC AL4(OP2B255)	GP99137 00750000
000F1E			0146E	761+	ORG ,	GP99137 00760000
00146E	D4E5E2E340400623			762+OP2B255	DC CL6'MVST',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
001476	0000FF000000			763+	DC XL6'0000FF000000'	00950000
				764	OPCODE B257,CUSE,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 02500000
00147C			00F22	765+	ORG OPTBB2+4+4*X'57'	GP99137 00740000
000F22	0000147C			766+	DC AL4(OP2B257)	GP99137 00750000

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000F26			0147C	767+	ORG ,	GP99137 00760000
00147C	C3E4E2C540400625			768+OP2B257	DC CL6'CUSE',AL1(\$OPRRE,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
001484	0000FF000000			769+	DC XL6'0000FF000000'	00950000
				770	OPCODE B258,BSG,\$OPRRE,MASK=0000FF00	GP10018 02510000
00148A			00F26	771+	ORG OPTBB2+4+4*X'58'	GP99137 00740000
000F26	0000148A			772+	DC AL4(OP2B258)	GP99137 00750000
000F2A			0148A	773+	ORG ,	GP99137 00760000
00148A	C2E2C74040400621			774+OP2B258	DC CL6'BSG',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
001492	0000FF000000			775+	DC XL6'0000FF000000'	00950000
				776	OPCODE B25A,BSA,\$OPRRE,MASK=0000FF00	GP10018 02520000
001498			00F2E	777+	ORG OPTBB2+4+4*X'5A'	GP99137 00740000
000F2E	00001498			778+	DC AL4(OP2B25A)	GP99137 00750000
000F32			01498	779+	ORG ,	GP99137 00760000
001498	C2E2C14040400621			780+OP2B25A	DC CL6'BSA',AL1(\$OPRRE,0+\$OPNCMNT+\$OPMASK)	00910000
0014A0	0000FF000000			781+	DC XL6'0000FF000000'	00950000
				782	OPCODE B25D,CLST,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 02530000
0014A6			00F3A	783+	ORG OPTBB2+4+4*X'5D'	GP99137 00740000
000F3A	000014A6			784+	DC AL4(OP2B25D)	GP99137 00750000
000F3E			014A6	785+	ORG ,	GP99137 00760000
0014A6	C3D3E2E340400625			786+OP2B25D	DC CL6'CLST',AL1(\$OPRRE,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
0014AE	0000FF000000			787+	DC XL6'0000FF000000'	00950000
				788	OPCODE B25E,SRST,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 02540000
0014B4			00F3E	789+	ORG OPTBB2+4+4*X'5E'	GP99137 00740000
000F3E	000014B4			790+	DC AL4(OP2B25E)	GP99137 00750000
000F42			014B4	791+	ORG ,	GP99137 00760000
0014B4	E2D9E2E340400623			792+OP2B25E	DC CL6'SRST',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0014BC	0000FF000000			793+	DC XL6'0000FF000000'	00950000
				794	OPCODE B263,CMPSC,\$OPRRE,FLAGS=\$OPCCL	GP04234 02550000
0014C2			00F52	795+	ORG OPTBB2+4+4*X'63'	GP99137 00740000
000F52	000014C2			796+	DC AL4(OP2B263)	GP99137 00750000
000F56			014C2	797+	ORG ,	GP99137 00760000
0014C2	C3D4D7E2C3400622			798+OP2B263	DC CL6'CMPSC',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT)	00910000
				799	OPCODE B277,RP,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02560000
0014CA			00FA2	800+	ORG OPTBB2+4+4*X'77'	GP99137 00740000
000FA2	000014CA			801+	DC AL4(OP2B277)	GP99137 00750000
000FA6			014CA	802+	ORG ,	GP99137 00760000
0014CA	D9D7404040400932			803+OP2B277	DC CL6'RP',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				804	OPCODE B278,STCKE,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02570000
0014D2			00FA6	805+	ORG OPTBB2+4+4*X'78'	GP99137 00740000
000FA6	000014D2			806+	DC AL4(OP2B278)	GP99137 00750000
000FAA			014D2	807+	ORG ,	GP99137 00760000
0014D2	E2E3C3D2C5400932			808+OP2B278	DC CL6'STCKE',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				809	OPCODE B279,SACF,\$OPS,FLAGS=\$OPREF	GP05204 02580000
0014DA			00FAA	810+	ORG OPTBB2+4+4*X'79'	GP99137 00740000
000FAA	000014DA			811+	DC AL4(OP2B279)	GP99137 00750000
000FAE			014DA	812+	ORG ,	GP99137 00760000
0014DA	E2C1C3C640400930			813+OP2B279	DC CL6'SACF',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				814	OPCODE B27D,STSI,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02590000
0014E2			00FBA	815+	ORG OPTBB2+4+4*X'7D'	GP99137 00740000
000FBA	000014E2			816+	DC AL4(OP2B27D)	GP99137 00750000
000FBE			014E2	817+	ORG ,	GP99137 00760000
0014E2	E2E3E2C940400932			818+OP2B27D	DC CL6'STSI',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				819	OPCODE B299,SRNM,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02600000
0014EA			0102A	820+	ORG OPTBB2+4+4*X'99'	GP99137 00740000
00102A	000014EA			821+	DC AL4(OP2B299)	GP99137 00750000

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00102E			014EA	822+	ORG ,	GP99137 00760000
0014EA	E2D9D5D440400932			823+OP2B299	DC CL6'SRNM',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				824	OPCODE B29C,STFPC,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02610000
0014F2			01036	825+	ORG OPTBB2+4+4*X'9C'	GP99137 00740000
001036	000014F2			826+	DC AL4(OP2B29C)	GP99137 00750000
00103A			014F2	827+	ORG ,	GP99137 00760000
0014F2	E2E3C6D7C3400932			828+OP2B29C	DC CL6'STFPC',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				829	OPCODE B29D,LFPC,\$OPS,FLAGS=\$OPCCL+\$OPREF	GP04234 02620000
0014FA			0103A	830+	ORG OPTBB2+4+4*X'9D'	GP99137 00740000
00103A	000014FA			831+	DC AL4(OP2B29D)	GP99137 00750000
00103E			014FA	832+	ORG ,	GP99137 00760000
0014FA	D3C6D7C340400932			833+OP2B29D	DC CL6'LFPC',AL1(\$OPS,\$OPCCL+\$OPREF+\$OPNCMNT)	00910000
				834	OPCODE B2A5,TRE,\$OPRRE,FLAGS=\$OPCCL	GP04234 02630000
001502			0105A	835+	ORG OPTBB2+4+4*X'A5'	GP99137 00740000
00105A	00001502			836+	DC AL4(OP2B2A5)	GP99137 00750000
00105E			01502	837+	ORG ,	GP99137 00760000
001502	E3D9C54040400622			838+OP2B2A5	DC CL6'TRE',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT)	00910000
				839	OPCODE B2A6,CUUTF,\$OPRRE,FLAGS=\$OPCCL	GP04234 02640000
00150A			0105E	840+	ORG OPTBB2+4+4*X'A6'	GP99137 00740000
00105E	0000150A			841+	DC AL4(OP2B2A6)	GP99137 00750000
001062			0150A	842+	ORG ,	GP99137 00760000
00150A	C3E4E4E3C6400622			843+OP2B2A6	DC CL6'CUUTF',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT)	00910000
				844	OPCODE B2FF,TRAP4,\$OPRRE,FLAGS=\$OPCCL	GP04234 02650000
001512			011C2	845+	ORG OPTBB2+4+4*X'FF'	GP99137 00740000
0011C2	00001512			846+	DC AL4(OP2B2FF)	GP99137 00750000
0011C6			01512	847+	ORG ,	GP99137 00760000
001512	E3D9C1D7F4400622			848+OP2B2FF	DC CL6'TRAP4',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT)	00910000
				849 TABLEB3	OPCODE B3,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	02660000
00151A	5CFF00FF			850+OPTBB3	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
00151E	0000000000000000			851+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				852	OPCODE B6,STCTL,\$OPRS2,FLAGS=\$OPREF	02670000
00191E	E2E3C3E3D3400D30			853+MACHB6	DC CL6'STCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				854	OPCODE B7,LCTL,\$OPRS2,FLAGS=\$OPREF	02680000
001926	D3C3E3D340400D30			855+MACHB7	DC CL6'LCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				856	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC	02690000
00192E	C3E2404040400D34			857+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				858	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC	02700000
001936	C3C4E24040400D34			859+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				860	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC	02710000
00193E	C3D3D44040400E34			861+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				862	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF	02720000
001946	E2E3C3D440400E30			863+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)	00910000
				864	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA	02730000
00194E	C9C3D44040400E38			865+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				866	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	02740000
001956	D4E5D54040400F30			867+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				868	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	02750000
00195E	D4E5C34040400F30			869+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				870	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	02760000
001966	D4E5E94040400F30			871+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				872	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	02770000
00196E	D5C3404040400F32			873+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				874	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	02780000
001976	C3D3C34040400F34			875+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				876	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	02790000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00197E	D6C3404040400F32			877+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				878	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	02800000
001986	E7C3404040400F32			879+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				880	OPCODE D9,MVCK,\$OPSS3,FLAGS=\$OPCCA	02810000
00198E	D4E5C3D240401128			881+MACHD9	DC CL6'MVCK',AL1(\$OPSS3,\$OPCCA+\$OPNCMNT)	00910000
				882	OPCODE DA,MVCP,\$OPSS3,FLAGS=\$OPCCA	02820000
001996	D4E5C3D740401128			883+MACHDA	DC CL6'MVCP',AL1(\$OPSS3,\$OPCCA+\$OPNCMNT)	00910000
				884	OPCODE DB,MVCS,\$OPSS3,FLAGS=\$OPCCA	02830000
00199E	D4E5C3E240401128			885+MACHDB	DC CL6'MVCS',AL1(\$OPSS3,\$OPCCA+\$OPNCMNT)	00910000
				886	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	02840000
0019A6	E3D9404040400F30			887+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				888	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	02850000
0019AE	E3D9E34040400F38			889+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				890	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	02860000
0019B6	C5C4404040400F38			891+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				892	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 02870000
0019BE	C5C4D4D240400F38			893+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				894	OPCODE E1,PKU,\$OPSS1,FLAGS=\$OPREF	GP05204 02880000
0019C6	D7D2E44040400F30			895+MACHE1	DC CL6'PKU',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				896	OPCODE E2,UNPKU,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP05204 02890000
0019CE	E4D5D7D2E4400F38			897+MACHE2	DC CL6'UNPKU',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				898 *ABLEE3	OPCODE E3,X'FF',0,99,TYPE=TABLE NO MASK, NO SHIFT, MAX = 99	02900000
				899 *ABLEE4	OPCODE E4,X'FF',0,63,TYPE=TABLE NO MASK, NO SHIFT, MAX = 64	02910000
				900 *ABLEE5	OPCODE E5,X'FF',0,15,TYPE=TABLE NO MASK, NO SHIFT, MAX = 16	02920000
				901	OPCODE E5,X'OF',0,15,TYPE=TABLE MASK, NO SHIFT, MAX = 16	02930000
0019D6	5C0F000F			902+OPTBE5	DC C'*,AL1(X'OF',0,15)	GP05204 01040000
0019DA	0000000000000000			903+	DC (15+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				904	OPCODE E500,LASP,\$OPSSE,FLAGS=\$OPREF+\$OPCCL	GP05204 02940000
001A1A		019DA		905+	ORG OPTBE5+4+4*X'00'	GP99137 00740000
0019DA	00001A1A			906+	DC AL4(OP2E500)	GP99137 00750000
0019DE		01A1A		907+	ORG ,	GP99137 00760000
001A1A	D3C1E2D740401332			908+OP2E500	DC CL6'LASP',AL1(\$OPSSE,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				909	OPCODE E501,TPROT,\$OPSSE,FLAGS=\$OPREF+\$OPCCL	GP05204 02950000
001A22		019DE		910+	ORG OPTBE5+4+4*X'01'	GP99137 00740000
0019DE	00001A22			911+	DC AL4(OP2E501)	GP99137 00750000
0019E2		01A22		912+	ORG ,	GP99137 00760000
001A22	E3D7D9D6E3401332			913+OP2E501	DC CL6'TPROT',AL1(\$OPSSE,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				914 *Z	OPCODE E502,STRAG,\$OPSS1,FLAGS=\$OPREF	GP05204 02960000
				915	OPCODE E50E,MVCSK,\$OPSSE,FLAGS=\$OPREF	GP05204 02970000
001A2A		01A12		916+	ORG OPTBE5+4+4*X'0E'	GP99137 00740000
001A12	00001A2A			917+	DC AL4(OP2E50E)	GP99137 00750000
001A16		01A2A		918+	ORG ,	GP99137 00760000
001A2A	D4E5C3E2D2401330			919+OP2E50E	DC CL6'MVCSK',AL1(\$OPSSE,\$OPREF+\$OPNCMNT)	00910000
				920	OPCODE E50F,MVCDK,\$OPSSE,FLAGS=\$OPREF	GP05204 02980000
001A32		01A16		921+	ORG OPTBE5+4+4*X'OF'	GP99137 00740000
001A16	00001A32			922+	DC AL4(OP2E50F)	GP99137 00750000
001A1A		01A32		923+	ORG ,	GP99137 00760000
001A32	D4E5C3C4D2401330			924+OP2E50F	DC CL6'MVCDK',AL1(\$OPSSE,\$OPREF+\$OPNCMNT)	00910000
				925	OPCODE E8,MVCIN,\$OPSS1,FLAGS=\$OPREF	02990000
001A3A	D4E5C3C9D5400F30			926+MACHE8	DC CL6'MVCIN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				927 *ABLEED	OPCODE ED,X'FF',0,64,TYPE=TABLE NO MASK, NO SHIFT, MAX = 64	03000000
				928	OPCODE EE,PLO,\$OPSSE,FLAGS=\$OPREF	03010000
001A42	D7D3D64040401330			929+MACHEE	DC CL6'PLO',AL1(\$OPSSE,\$OPREF+\$OPNCMNT)	00910000
				930 *		03020000
				931 *	TO AVOID GETTING SRP EXPANSION THAT WON'T ASSEMBLE, WE CHEAT A	03030000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				932 *	BIT AND DEFINE IT AS 10 DISTINCT INSTRUCTIONS, EXCLUDING THE		03040000
				933 *	INVALID ONES (ROUND NYBBLE > 9)		03050000
				934 *			03060000
				935 *CHEAT*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	GP10155	03070000
				936 TABLEF0	OPCODE F0,X'0F',0,16,TYPE=TABLE	GP10155	03080000
001A4A	5C0F0010			937+OPTBF0	DC C'*,AL1(X'0F',0,16)	GP05204	01040000
001A4E	0000000000000000			938+	DC (16+1)AL4(0) TWO-BYTE OPCODE POINTER	GP99137	01050000
				939	OPCODE F000,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03090000
001A92			01A4E	940+	ORG OPTBF0+4+4*X'00'	GP99137	00740000
001A4E	00001A92			941+	DC AL4(OP2F000)	GP99137	00750000
001A52			01A92	942+	ORG ,	GP99137	00760000
001A92	E2D9D74040401239			943+OP2F000	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001A9A	00000000FF00			944+	DC XL6'00000000FF00'		00950000
				945	OPCODE F001,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03100000
001AA0			01A52	946+	ORG OPTBF0+4+4*X'01'	GP99137	00740000
001A52	00001AA0			947+	DC AL4(OP2F001)	GP99137	00750000
001A56			01AA0	948+	ORG ,	GP99137	00760000
001AA0	E2D9D74040401239			949+OP2F001	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AA8	00000000FF00			950+	DC XL6'00000000FF00'		00950000
				951	OPCODE F002,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03110000
001AAE			01A56	952+	ORG OPTBF0+4+4*X'02'	GP99137	00740000
001A56	00001AAE			953+	DC AL4(OP2F002)	GP99137	00750000
001A5A			01AAE	954+	ORG ,	GP99137	00760000
001AAE	E2D9D74040401239			955+OP2F002	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AB6	00000000FF00			956+	DC XL6'00000000FF00'		00950000
				957	OPCODE F003,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03120000
001ABC			01A5A	958+	ORG OPTBF0+4+4*X'03'	GP99137	00740000
001A5A	00001ABC			959+	DC AL4(OP2F003)	GP99137	00750000
001A5E			01ABC	960+	ORG ,	GP99137	00760000
001ABC	E2D9D74040401239			961+OP2F003	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AC4	00000000FF00			962+	DC XL6'00000000FF00'		00950000
				963	OPCODE F004,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03130000
001ACA			01A5E	964+	ORG OPTBF0+4+4*X'04'	GP99137	00740000
001A5E	00001ACA			965+	DC AL4(OP2F004)	GP99137	00750000
001A62			01ACA	966+	ORG ,	GP99137	00760000
001ACA	E2D9D74040401239			967+OP2F004	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AD2	00000000FF00			968+	DC XL6'00000000FF00'		00950000
				969	OPCODE F005,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03140000
001AD8			01A62	970+	ORG OPTBF0+4+4*X'05'	GP99137	00740000
001A62	00001AD8			971+	DC AL4(OP2F005)	GP99137	00750000
001A66			01AD8	972+	ORG ,	GP99137	00760000
001AD8	E2D9D74040401239			973+OP2F005	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AE0	00000000FF00			974+	DC XL6'00000000FF00'		00950000
				975	OPCODE F006,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03150000
001AE6			01A66	976+	ORG OPTBF0+4+4*X'06'	GP99137	00740000
001A66	00001AE6			977+	DC AL4(OP2F006)	GP99137	00750000
001A6A			01AE6	978+	ORG ,	GP99137	00760000
001AE6	E2D9D74040401239			979+OP2F006	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AEE	00000000FF00			980+	DC XL6'00000000FF00'		00950000
				981	OPCODE F007,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	03160000
001AF4			01A6A	982+	ORG OPTBF0+4+4*X'07'	GP99137	00740000
001A6A	00001AF4			983+	DC AL4(OP2F007)	GP99137	00750000
001A6E			01AF4	984+	ORG ,	GP99137	00760000
001AF4	E2D9D74040401239			985+OP2F007	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
001AFC	00000000FF00			986+	DC XL6'00000000FF00'		00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				987	OPCODE F008,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 03170000
001B02			01A6E	988+	ORG OPTBF0+4+4*X'08'	GP99137 00740000
001A6E	00001B02			989+	DC AL4(OP2F008)	GP99137 00750000
001A72			01B02	990+	ORG ,	GP99137 00760000
001B02	E2D9D74040401239			991+OP2F008	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
001B0A	00000000FF00			992+	DC XL6'00000000FF00'	00950000
				993	OPCODE F009,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 03180000
001B10			01A72	994+	ORG OPTBF0+4+4*X'09'	GP99137 00740000
001A72	00001B10			995+	DC AL4(OP2F009)	GP99137 00750000
001A76			01B10	996+	ORG ,	GP99137 00760000
001B10	E2D9D74040401239			997+OP2F009	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
001B18	00000000FF00			998+	DC XL6'00000000FF00'	00950000
				999	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	03190000
001B1E	D4E5D64040401030			1000+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				1001	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	03200000
001B26	D7C1C3D240401030			1002+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				1003	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	03210000
001B2E	E4D5D7D240401030			1004+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				1005	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	03220000
001B36	E9C1D74040401038			1006+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				1007	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	03230000
001B3E	C3D7404040401034			1008+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				1009	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	03240000
001B46	C1D7404040401038			1010+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				1011	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	03250000
001B4E	E2D7404040401038			1012+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				1013	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	03260000
001B56	D4D7404040401030			1014+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				1015	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	03270000
001B5E	C4D7404040401030			1016+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				1017 *	----- *	03280000
				1018 *		* 03290000
				1019 *	INDEX TO OP CODE TABLE	* 03300000
				1020 *		* 03310000
				1021 *	----- *	* 03320000
001B66		00000		1022	ORG DISOP390+0	03330000
000000				1023 OPINDEX	DS 0A	03340000
				1024	OPCODE TYPE=INDEX	03350000
000000	00000400			1025+	DC A(MACH00)	01100000
000004	80000408			1026+	DC A(X'80000000'+OPTB01)	01100000
000008	00000000			1027+	DC A(0)	01100000
00000C	00000000			1028+	DC A(0)	01100000
000010	0000082C			1029+	DC A(MACH04)	01100000
000014	0000083A			1030+	DC A(MACH05)	01100000
000018	0000084E			1031+	DC A(MACH06)	01100000
00001C	00000862			1032+	DC A(MACH07)	01100000
000020	00000000			1033+	DC A(0)	01100000
000024	00000000			1034+	DC A(0)	01100000
000028	0000086A			1035+	DC A(MACH0A)	01100000
00002C	0000087E			1036+	DC A(MACH0B)	01100000
000030	00000886			1037+	DC A(MACH0C)	01100000
000034	0000088E			1038+	DC A(MACH0D)	01100000
000038	00000896			1039+	DC A(MACH0E)	01100000
00003C	000008A4			1040+	DC A(MACH0F)	01100000
000040	000008B2			1041+	DC A(MACH10)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000044	000008BA			1042+	DC	A(MACH11)	01100000
000048	000008C2			1043+	DC	A(MACH12)	01100000
00004C	000008CA			1044+	DC	A(MACH13)	01100000
000050	000008D2			1045+	DC	A(MACH14)	01100000
000054	000008DA			1046+	DC	A(MACH15)	01100000
000058	000008E2			1047+	DC	A(MACH16)	01100000
00005C	000008EA			1048+	DC	A(MACH17)	01100000
000060	000008F2			1049+	DC	A(MACH18)	01100000
000064	000008FA			1050+	DC	A(MACH19)	01100000
000068	00000902			1051+	DC	A(MACH1A)	01100000
00006C	0000090A			1052+	DC	A(MACH1B)	01100000
000070	00000912			1053+	DC	A(MACH1C)	01100000
000074	00000920			1054+	DC	A(MACH1D)	01100000
000078	0000092E			1055+	DC	A(MACH1E)	01100000
00007C	00000936			1056+	DC	A(MACH1F)	01100000
000080	0000093E			1057+	DC	A(MACH20)	01100000
000084	00000946			1058+	DC	A(MACH21)	01100000
000088	0000094E			1059+	DC	A(MACH22)	01100000
00008C	00000956			1060+	DC	A(MACH23)	01100000
000090	0000095E			1061+	DC	A(MACH24)	01100000
000094	00000966			1062+	DC	A(MACH25)	01100000
000098	0000096E			1063+	DC	A(MACH26)	01100000
00009C	00000976			1064+	DC	A(MACH27)	01100000
0000A0	0000097E			1065+	DC	A(MACH28)	01100000
0000A4	00000986			1066+	DC	A(MACH29)	01100000
0000A8	0000098E			1067+	DC	A(MACH2A)	01100000
0000AC	00000996			1068+	DC	A(MACH2B)	01100000
0000B0	0000099E			1069+	DC	A(MACH2C)	01100000
0000B4	000009A6			1070+	DC	A(MACH2D)	01100000
0000B8	000009AE			1071+	DC	A(MACH2E)	01100000
0000BC	000009B6			1072+	DC	A(MACH2F)	01100000
0000C0	000009BE			1073+	DC	A(MACH30)	01100000
0000C4	000009C6			1074+	DC	A(MACH31)	01100000
0000C8	000009CE			1075+	DC	A(MACH32)	01100000
0000CC	000009D6			1076+	DC	A(MACH33)	01100000
0000D0	000009DE			1077+	DC	A(MACH34)	01100000
0000D4	000009E6			1078+	DC	A(MACH35)	01100000
0000D8	000009EE			1079+	DC	A(MACH36)	01100000
0000DC	000009F6			1080+	DC	A(MACH37)	01100000
0000E0	000009FE			1081+	DC	A(MACH38)	01100000
0000E4	00000A06			1082+	DC	A(MACH39)	01100000
0000E8	00000A0E			1083+	DC	A(MACH3A)	01100000
0000EC	00000A16			1084+	DC	A(MACH3B)	01100000
0000F0	00000A1E			1085+	DC	A(MACH3C)	01100000
0000F4	00000A26			1086+	DC	A(MACH3D)	01100000
0000F8	00000A2E			1087+	DC	A(MACH3E)	01100000
0000FC	00000A36			1088+	DC	A(MACH3F)	01100000
000100	00000A3E			1089+	DC	A(MACH40)	01100000
000104	00000A46			1090+	DC	A(MACH41)	01100000
000108	00000A4E			1091+	DC	A(MACH42)	01100000
00010C	00000A56			1092+	DC	A(MACH43)	01100000
000110	00000A5E			1093+	DC	A(MACH44)	01100000
000114	00000A66			1094+	DC	A(MACH45)	01100000
000118	00000A7A			1095+	DC	A(MACH46)	01100000
00011C	00000A8E			1096+	DC	A(MACH47)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000120	00000A96			1097+	DC	A(MACH48)	01100000
000124	00000A9E			1098+	DC	A(MACH49)	01100000
000128	00000AA6			1099+	DC	A(MACH4A)	01100000
00012C	00000AAE			1100+	DC	A(MACH4B)	01100000
000130	00000AB6			1101+	DC	A(MACH4C)	01100000
000134	00000ABE			1102+	DC	A(MACH4D)	01100000
000138	00000AC6			1103+	DC	A(MACH4E)	01100000
00013C	00000ACE			1104+	DC	A(MACH4F)	01100000
000140	00000AD6			1105+	DC	A(MACH50)	01100000
000144	00000ADE			1106+	DC	A(MACH51)	01100000
000148	00000000			1107+	DC	A(0)	01100000
00014C	00000000			1108+	DC	A(0)	01100000
000150	00000AE6			1109+	DC	A(MACH54)	01100000
000154	00000AEE			1110+	DC	A(MACH55)	01100000
000158	00000AF6			1111+	DC	A(MACH56)	01100000
00015C	00000AFE			1112+	DC	A(MACH57)	01100000
000160	00000B06			1113+	DC	A(MACH58)	01100000
000164	00000B0E			1114+	DC	A(MACH59)	01100000
000168	00000B16			1115+	DC	A(MACH5A)	01100000
00016C	00000B1E			1116+	DC	A(MACH5B)	01100000
000170	00000B26			1117+	DC	A(MACH5C)	01100000
000174	00000B34			1118+	DC	A(MACH5D)	01100000
000178	00000B42			1119+	DC	A(MACH5E)	01100000
00017C	00000B4A			1120+	DC	A(MACH5F)	01100000
000180	00000B52			1121+	DC	A(MACH60)	01100000
000184	00000000			1122+	DC	A(0)	01100000
000188	00000000			1123+	DC	A(0)	01100000
00018C	00000000			1124+	DC	A(0)	01100000
000190	00000000			1125+	DC	A(0)	01100000
000194	00000000			1126+	DC	A(0)	01100000
000198	00000000			1127+	DC	A(0)	01100000
00019C	00000B5A			1128+	DC	A(MACH67)	01100000
0001A0	00000B62			1129+	DC	A(MACH68)	01100000
0001A4	00000B6A			1130+	DC	A(MACH69)	01100000
0001A8	00000B72			1131+	DC	A(MACH6A)	01100000
0001AC	00000B7A			1132+	DC	A(MACH6B)	01100000
0001B0	00000B82			1133+	DC	A(MACH6C)	01100000
0001B4	00000B8A			1134+	DC	A(MACH6D)	01100000
0001B8	00000B92			1135+	DC	A(MACH6E)	01100000
0001BC	00000B9A			1136+	DC	A(MACH6F)	01100000
0001C0	00000BA2			1137+	DC	A(MACH70)	01100000
0001C4	00000BAA			1138+	DC	A(MACH71)	01100000
0001C8	00000000			1139+	DC	A(0)	01100000
0001CC	00000000			1140+	DC	A(0)	01100000
0001D0	00000000			1141+	DC	A(0)	01100000
0001D4	00000000			1142+	DC	A(0)	01100000
0001D8	00000000			1143+	DC	A(0)	01100000
0001DC	00000000			1144+	DC	A(0)	01100000
0001E0	00000BB2			1145+	DC	A(MACH78)	01100000
0001E4	00000BBA			1146+	DC	A(MACH79)	01100000
0001E8	00000BC2			1147+	DC	A(MACH7A)	01100000
0001EC	00000BCA			1148+	DC	A(MACH7B)	01100000
0001F0	00000BD2			1149+	DC	A(MACH7C)	01100000
0001F4	00000BDA			1150+	DC	A(MACH7D)	01100000
0001F8	00000BE2			1151+	DC	A(MACH7E)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001FC	00000BEA			1152+	DC	A(MACH7F)	01100000
000200	00000000			1153+	DC	A(0)	01100000
000204	00000000			1154+	DC	A(0)	01100000
000208	00000BF2			1155+	DC	A(MACH82)	01100000
00020C	00000C00			1156+	DC	A(MACH83)	01100000
000210	00000C08			1157+	DC	A(MACH84)	01100000
000214	00000C10			1158+	DC	A(MACH85)	01100000
000218	00000C18			1159+	DC	A(MACH86)	01100000
00021C	00000C20			1160+	DC	A(MACH87)	01100000
000220	00000C28			1161+	DC	A(MACH88)	01100000
000224	00000C36			1162+	DC	A(MACH89)	01100000
000228	00000C44			1163+	DC	A(MACH8A)	01100000
00022C	00000C52			1164+	DC	A(MACH8B)	01100000
000230	00000C60			1165+	DC	A(MACH8C)	01100000
000234	00000C6E			1166+	DC	A(MACH8D)	01100000
000238	00000C7C			1167+	DC	A(MACH8E)	01100000
00023C	00000C8A			1168+	DC	A(MACH8F)	01100000
000240	00000C98			1169+	DC	A(MACH90)	01100000
000244	00000CA0			1170+	DC	A(MACH91)	01100000
000248	00000CA8			1171+	DC	A(MACH92)	01100000
00024C	00000CB0			1172+	DC	A(MACH93)	01100000
000250	00000CBE			1173+	DC	A(MACH94)	01100000
000254	00000CC6			1174+	DC	A(MACH95)	01100000
000258	00000CCE			1175+	DC	A(MACH96)	01100000
00025C	00000CD6			1176+	DC	A(MACH97)	01100000
000260	00000CDE			1177+	DC	A(MACH98)	01100000
000264	00000CE6			1178+	DC	A(MACH99)	01100000
000268	00000CEE			1179+	DC	A(MACH9A)	01100000
00026C	00000CF6			1180+	DC	A(MACH9B)	01100000
000270	00000000			1181+	DC	A(0)	01100000
000274	00000000			1182+	DC	A(0)	01100000
000278	00000000			1183+	DC	A(0)	01100000
00027C	00000000			1184+	DC	A(0)	01100000
000280	00000000			1185+	DC	A(0)	01100000
000284	00000000			1186+	DC	A(0)	01100000
000288	00000000			1187+	DC	A(0)	01100000
00028C	00000000			1188+	DC	A(0)	01100000
000290	00000000			1189+	DC	A(0)	01100000
000294	00000000			1190+	DC	A(0)	01100000
000298	00000000			1191+	DC	A(0)	01100000
00029C	80000CFE			1192+	DC	A(X'80000000'+OPTBA7)	01100000
0002A0	00000D8A			1193+	DC	A(MACHA8)	01100000
0002A4	00000D92			1194+	DC	A(MACHA9)	01100000
0002A8	00000000			1195+	DC	A(0)	01100000
0002AC	00000000			1196+	DC	A(0)	01100000
0002B0	00000D9A			1197+	DC	A(MACHAC)	01100000
0002B4	00000DA2			1198+	DC	A(MACHAD)	01100000
0002B8	00000DAA			1199+	DC	A(MACHAE)	01100000
0002BC	00000DB2			1200+	DC	A(MACHAF)	01100000
0002C0	00000000			1201+	DC	A(0)	01100000
0002C4	00000DBA			1202+	DC	A(MACHB1)	01100000
0002C8	80000DC2			1203+	DC	A(X'80000000'+OPTBB2)	01100000
0002CC	8000151A			1204+	DC	A(X'80000000'+OPTBB3)	01100000
0002D0	00000000			1205+	DC	A(0)	01100000
0002D4	00000000			1206+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002D8	0000191E			1207+	DC	A(MACHB6)	01100000
0002DC	00001926			1208+	DC	A(MACHB7)	01100000
0002E0	00000000			1209+	DC	A(0)	01100000
0002E4	00000000			1210+	DC	A(0)	01100000
0002E8	0000192E			1211+	DC	A(MACHBA)	01100000
0002EC	00001936			1212+	DC	A(MACHBB)	01100000
0002F0	00000000			1213+	DC	A(0)	01100000
0002F4	0000193E			1214+	DC	A(MACHBD)	01100000
0002F8	00001946			1215+	DC	A(MACHBE)	01100000
0002FC	0000194E			1216+	DC	A(MACHBF)	01100000
000300	00000000			1217+	DC	A(0)	01100000
000304	00000000			1218+	DC	A(0)	01100000
000308	00000000			1219+	DC	A(0)	01100000
00030C	00000000			1220+	DC	A(0)	01100000
000310	00000000			1221+	DC	A(0)	01100000
000314	00000000			1222+	DC	A(0)	01100000
000318	00000000			1223+	DC	A(0)	01100000
00031C	00000000			1224+	DC	A(0)	01100000
000320	00000000			1225+	DC	A(0)	01100000
000324	00000000			1226+	DC	A(0)	01100000
000328	00000000			1227+	DC	A(0)	01100000
00032C	00000000			1228+	DC	A(0)	01100000
000330	00000000			1229+	DC	A(0)	01100000
000334	00000000			1230+	DC	A(0)	01100000
000338	00000000			1231+	DC	A(0)	01100000
00033C	00000000			1232+	DC	A(0)	01100000
000340	00000000			1233+	DC	A(0)	01100000
000344	00001956			1234+	DC	A(MACHD1)	01100000
000348	0000195E			1235+	DC	A(MACHD2)	01100000
00034C	00001966			1236+	DC	A(MACHD3)	01100000
000350	0000196E			1237+	DC	A(MACHD4)	01100000
000354	00001976			1238+	DC	A(MACHD5)	01100000
000358	0000197E			1239+	DC	A(MACHD6)	01100000
00035C	00001986			1240+	DC	A(MACHD7)	01100000
000360	00000000			1241+	DC	A(0)	01100000
000364	0000198E			1242+	DC	A(MACHD9)	01100000
000368	00001996			1243+	DC	A(MACHDA)	01100000
00036C	0000199E			1244+	DC	A(MACHDB)	01100000
000370	000019A6			1245+	DC	A(MACHDC)	01100000
000374	000019AE			1246+	DC	A(MACHDD)	01100000
000378	000019B6			1247+	DC	A(MACHDE)	01100000
00037C	000019BE			1248+	DC	A(MACHDF)	01100000
000380	00000000			1249+	DC	A(0)	01100000
000384	000019C6			1250+	DC	A(MACHE1)	01100000
000388	000019CE			1251+	DC	A(MACHE2)	01100000
00038C	00000000			1252+	DC	A(0)	01100000
000390	00000000			1253+	DC	A(0)	01100000
000394	800019D6			1254+	DC	A(X'80000000'+OPTBE5)	01100000
000398	00000000			1255+	DC	A(0)	01100000
00039C	00000000			1256+	DC	A(0)	01100000
0003A0	00001A3A			1257+	DC	A(MACHE8)	01100000
0003A4	00000000			1258+	DC	A(0)	01100000
0003A8	00000000			1259+	DC	A(0)	01100000
0003AC	00000000			1260+	DC	A(0)	01100000
0003B0	00000000			1261+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003B4	00000000			1262+	DC	A(0)	01100000
0003B8	00001A42			1263+	DC	A(MACHEE)	01100000
0003BC	00000000			1264+	DC	A(0)	01100000
0003C0	80001A4A			1265+	DC	A(X'80000000'+OPTBF0)	01100000
0003C4	00001B1E			1266+	DC	A(MACHF1)	01100000
0003C8	00001B26			1267+	DC	A(MACHF2)	01100000
0003CC	00001B2E			1268+	DC	A(MACHF3)	01100000
0003D0	00000000			1269+	DC	A(0)	01100000
0003D4	00000000			1270+	DC	A(0)	01100000
0003D8	00000000			1271+	DC	A(0)	01100000
0003DC	00000000			1272+	DC	A(0)	01100000
0003E0	00001B36			1273+	DC	A(MACHF8)	01100000
0003E4	00001B3E			1274+	DC	A(MACHF9)	01100000
0003E8	00001B46			1275+	DC	A(MACHFA)	01100000
0003EC	00001B4E			1276+	DC	A(MACHFB)	01100000
0003F0	00001B56			1277+	DC	A(MACHFC)	01100000
0003F4	00001B5E			1278+	DC	A(MACHFD)	01100000
0003F8	00000000			1279+	DC	A(0)	01100000
0003FC	00000000			1280+	DC	A(0)	01100000
				1281	COPY	DISASMDA	03360000
				1282	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				1283	PRINT OFF		00020000
				1494	PRINT ON		02130000
				1495	.DA020 ANOP		02140000
				1496	*-----*		03370000
				1497	*		* 03380000
				1498	*	COMMON DATA MAP	* 03390000
				1499	*		* 03400000
				1500	*-----*		* 03410000
				1501	DISASM00	DISASMCM TYPE=DSECT GP99137	03420000
				1502+	PRINT OFF		00280000
				2133+	PRINT ON		06440000
				2134+	*-----*		* 06460000
				2135+	*		* 06470000
				2136+	*	ABEND REASON CODES	* 06480000
				2137+	*		* 06490000
				2138+	*-----*		* 06500000
	00001	2139+	ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	2140+	ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	2141+	ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	2142+	ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	2143+	ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	2146+	R0	EQU	0		00070000
	00001	2147+	R1	EQU	1		00080000
	00002	2148+	R2	EQU	2		00090000
	00003	2149+	R3	EQU	3		00100000
	00004	2150+	R4	EQU	4		00110000
	00005	2151+	R5	EQU	5		00120000
	00006	2152+	R6	EQU	6		00130000
	00007	2153+	R7	EQU	7		00140000
	00008	2154+	R8	EQU	8		00150000
	00009	2155+	R9	EQU	9		00160000
	0000A	2156+	R10	EQU	10		00170000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
				0000B	2157+R11		EQU 11				00180000
				0000C	2158+R12		EQU 12				00190000
				0000D	2159+R13		EQU 13				00200000
				0000E	2160+R14		EQU 14				00210000
				0000F	2161+R15		EQU 15				00220000
000000					2163		END DISOP390				03430000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000004	
0001	0001	OC	000010	
0001	0001	OC	000014	
0001	0001	OC	000018	
0001	0001	OC	00001C	
0001	0001	OC	000028	
0001	0001	OC	00002C	
0001	0001	OC	000030	
0001	0001	OC	000034	
0001	0001	OC	000038	
0001	0001	OC	00003C	
0001	0001	OC	000040	
0001	0001	OC	000044	
0001	0001	OC	000048	
0001	0001	OC	00004C	
0001	0001	OC	000050	
0001	0001	OC	000054	
0001	0001	OC	000058	
0001	0001	OC	00005C	
0001	0001	OC	000060	
0001	0001	OC	000064	
0001	0001	OC	000068	
0001	0001	OC	00006C	
0001	0001	OC	000070	
0001	0001	OC	000074	
0001	0001	OC	000078	
0001	0001	OC	00007C	
0001	0001	OC	000080	
0001	0001	OC	000084	
0001	0001	OC	000088	
0001	0001	OC	00008C	
0001	0001	OC	000090	
0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
0001	0001	OC	0000A0	
0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
0001	0001	OC	0000BC	
0001	0001	OC	0000C0	
0001	0001	OC	0000C4	
0001	0001	OC	0000C8	
0001	0001	OC	0000CC	
0001	0001	OC	0000D0	
0001	0001	OC	0000D4	
0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000EC	
0001	0001	OC	0000F0	
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
0001	0001	OC	000110	
0001	0001	OC	000114	
0001	0001	OC	000118	
0001	0001	OC	00011C	
0001	0001	OC	000120	
0001	0001	OC	000124	
0001	0001	OC	000128	
0001	0001	OC	00012C	
0001	0001	OC	000130	
0001	0001	OC	000134	
0001	0001	OC	000138	
0001	0001	OC	00013C	
0001	0001	OC	000140	
0001	0001	OC	000144	
0001	0001	OC	000150	
0001	0001	OC	000154	
0001	0001	OC	000158	
0001	0001	OC	00015C	
0001	0001	OC	000160	
0001	0001	OC	000164	
0001	0001	OC	000168	
0001	0001	OC	00016C	
0001	0001	OC	000170	
0001	0001	OC	000174	
0001	0001	OC	000178	
0001	0001	OC	00017C	
0001	0001	OC	000180	
0001	0001	OC	00019C	
0001	0001	OC	0001A0	
0001	0001	OC	0001A4	
0001	0001	OC	0001A8	
0001	0001	OC	0001AC	
0001	0001	OC	0001B0	
0001	0001	OC	0001B4	
0001	0001	OC	0001B8	
0001	0001	OC	0001BC	
0001	0001	OC	0001C0	
0001	0001	OC	0001C4	
0001	0001	OC	0001E0	
0001	0001	OC	0001E4	
0001	0001	OC	0001E8	
0001	0001	OC	0001EC	
0001	0001	OC	0001F0	
0001	0001	OC	0001F4	
0001	0001	OC	0001F8	
0001	0001	OC	0001FC	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000208	
0001	0001	OC	00020C	
0001	0001	OC	000210	
0001	0001	OC	000214	
0001	0001	OC	000218	
0001	0001	OC	00021C	
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0001	0001	OC	00029C	
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0001	0001	OC	0002B0	
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0001	0001	OC	0002B8	
0001	0001	OC	0002BC	
0001	0001	OC	0002C4	
0001	0001	OC	0002C8	
0001	0001	OC	0002CC	
0001	0001	OC	0002D8	
0001	0001	OC	0002DC	
0001	0001	OC	0002E8	
0001	0001	OC	0002EC	
0001	0001	OC	0002F4	
0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
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0001	0001	OC	000348	
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0001	0001	OC	000358	
0001	0001	OC	00035C	
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POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	OC	000384	
0001	0001	OC	000388	
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0001	0001	OC	0003B8	
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0001	0001	OC	0003E0	
0001	0001	OC	0003E4	
0001	0001	OC	0003E8	
0001	0001	OC	0003EC	
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0001	0001	OC	000DCE	
0001	0001	OC	000DD6	
0001	0001	OC	000DDA	
0001	0001	OC	000DDE	
0001	0001	OC	000DE2	
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0001	0001	OC	000DEE	
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0001	0001	OC	000E0E	
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0001	0001	OC	000E2A	
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0001	0001	OC	000E4A	
0001	0001	OC	000E4E	
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0001	0001	OC	000E56	
0001	0001	OC	000E5A	
0001	0001	OC	000E5E	
0001	0001	OC	000E62	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	OC	000E6E	
0001	0001	OC	000E72	
0001	0001	OC	000E76	
0001	0001	OC	000E7A	
0001	0001	OC	000E86	
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0001	0001	OC	001036	
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0001	0001	OC	0011C2	
0001	0001	OC	0019DA	
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POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
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0001	0001	OC	001A16	
0001	0001	OC	001A4E	
0001	0001	OC	001A52	
0001	0001	OC	001A56	
0001	0001	OC	001A5A	
0001	0001	OC	001A5E	
0001	0001	OC	001A62	
0001	0001	OC	001A66	
0001	0001	OC	001A6A	
0001	0001	OC	001A6E	
0001	0001	OC	001A72	

DAOP90				CROSS-REFERENCE														PAGE 33	
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18	
\$OPCCA	00001	00000008	02125	00084	00087	00090	00092	00094	00096	00110	00112	00120	00122	00124	00126	00128	00130	00144	
				00146	00152	00154	00156	00158	00160	00162	00168	00170	00174	00176	00178	00184	00186	00210	
				00212	00238	00240	00248	00250	00260	00262	00270	00280	00282	00288	00290	00313	00316	00325	
				00328	00337	00392	00402	00412	00416	00865	00881	00883	00885	00889	00891	00893	00897	00943	
\$OPCCC	00001	00000004	02126	00949	00955	00961	00967	00973	00979	00985	00991	00997	01006	01010	01012				
				00100	00108	00142	00208	00228	00236	00258	00278	00342	00768	00786	00857	00859	00861	00875	
\$OPCCL	00001	00000002	02127	01008															
				00098	00102	00104	00226	00230	00232	00333	00340	00344	00346	00362	00367	00429	00434	00511	
				00532	00574	00650	00668	00713	00725	00755	00762	00792	00798	00803	00808	00818	00823	00828	
				00833	00838	00843	00848	00873	00877	00879	00908	00913							
\$OPE	00001	00000000	02097	00047	00052	00057	00062												
\$OPEXT	00001	00000080	02121	00073	00204														
\$OPMASK	00001	00000001	02128	00064	00084	00087	00114	00117	00242	00245	00294	00307	00310	00313	00316	00319	00322	00325	
				00328	00337	00464	00470	00526	00532	00538	00544	00550	00556	00562	00568	00574	00580	00591	
				00597	00628	00634	00650	00656	00662	00668	00689	00695	00701	00707	00713	00719	00725	00731	
				00737	00743	00749	00755	00762	00768	00774	00780	00786	00792	00943	00949	00955	00961	00967	
\$OPNCMNT	00001	00000020	02123	00973	00979	00985	00991	00997	01784										
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				00158	00160	00162	00164	00166	00168	00170	00172	00174	00176	00178	00180	00182	00184	00186	
				00188	00190	00192	00194	00196	00204	00206	00208	00210	00212	00214	00216	00218	00220	00222	
				00224	00226	00228	00230	00232	00234	00236	00238	00240	00242	00245	00248	00250	00252	00254	
				00256	00258	00260	00262	00264	00266	00268	00270	00272	00274	00276	00278	00280	00282	00284	
				00286	00288	00290	00294	00297	00299	00301	00303	00305	00307	00310	00313	00316	00319	00322	
				00325	00328	00331	00333	00335	00337	00340	00342	00344	00346	00348	00350	00352	00354	00362	
				00367	00372	00377	00382	00387	00392	00397	00402	00404	00406	00408	00410	00412	00414	00416	
				00424	00429	00434	00439	00444	00449	00454	00459	00464	00470	00476	00481	00486	00491	00496	
				00501	00506	00511	00516	00521	00526	00532	00538	00544	00550	00556	00562	00568	00574	00580	
				00586	00591	00597	00603	00608	00613	00618	00623	00628	00634	00640	00645	00650	00656	00662	
				00668	00674	00679	00684	00689	00695	00701	00707	00713	00719	00725	00731	00737	00743	00749	
				00755	00762	00768	00774	00780	00786	00792	00798	00803	00808	00813	00818	00823	00828	00833	
				00838	00843	00848	00853	00855	00857	00859	00861	00863	00865	00867	00869	00871	00873	00875	
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				00926	00929	00943	00949	00955	00961	00967	00973	00979	00985	00991	00997	01000	01002	01004	
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				00252	00254	00256	00258	00260	00262	00264	00266	00268	00270	00272	00274	00276	00278	00280	
				00282	00284	00286	00288	00290	00294	00303	00305	00331	00333	00335	00337	00340	00342	00344	
				00346	00348	00350	00352	00354	00408	00410	00416	00424	00429	00434	00439	00444	00449	00454	
				00459	00464	00470	00476	00481	00486	00491	00496	00511	00603	00608	00613	00618	00623	00640	
				00645	00803	00808	00813	00818	00823	00828	00833	00853	00855	00857	00859	00861	00863	00865	
				00867	00869	00871	00873	00875	00877	00879	00887	00889	00891	00893	00895	00897	00908	00913	
				00919	00924	00926	00929	00943	00949	00955	00961	00967	00973	00979	00985	00991	00997	01000	
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\$OPRI	00001	0000000B	02108	00362	00367	00372	00377	00382	00387	00392	00397	00402							
\$OPRRE	00001	00000006	02103	00516	00521	00526	00544	00550	00556	00562	00568	00574	00580	00586	00662	00668	00674	00679	
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				00786	00792	00798	00838	00843	00848										
\$OPRRE0	00001	00000014	02118	00701															
\$OPRRE3	00001	00000015	02119	00532	00538	00695													
\$OPRR1	00001	00000001	02098	00067	00070	00078	00080	00082	00084	00087	00090	00092	00094	00096	00098	00100	00102	00104	
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SYMBOL	LEN	VALUE	DEFN	REFERENCES										ASM 0201 00.48 07/11/18							
				00168	00170	00172	00174	00176	00178	00180	00182	00184	00186								
\$OPRR2	00001	000000002	02099	00075	00404	00406															
\$OPRR3	00001	000000003	02100	00073																	
\$OPRR4	00001	000000004	02101	00064																	
\$OPRSI	00001	00000000B	02109	00297																	
\$OPRS1	00001	00000000C	02110	00307	00310	00313	00316	00319	00322	00325	00328										
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\$OPRS3	00001	00000000E	02112	00861	00863	00865															
\$OPRX	00001	000000007	02104	00188	00190	00192	00194	00196	00198	00201	00204	00206	00208	00210	00212	00214	00216	00218			
				00220	00222	00224	00226	00228	00230	00232	00234	00236	00238	00240	00242	00245	00248	00250			
				00252	00254	00256	00258	00260	00262	00264	00266	00268	00270	00272	00274	00276	00278	00280			
				00282	00284	00286	00288	00290	00416												
\$OPS	00001	000000009	02106	00294	00337	00424	00429	00434	00439	00444	00449	00454	00459	00464	00470	00476	00481	00486			
				00491	00496	00501	00506	00511	00591	00597	00603	00608	00613	00618	00623	00628	00634	00640			
				00645	00650	00656	00803	00808	00813	00818	00823	00828	00833								
\$OPSI	00001	00000000A	02107	00333	00335	00340	00342	00344	00346	00408	00410	00414									
\$OPSSSE	00001	000000013	02117	00908	00913	00919	00924	00929													
\$OPSS1	00001	00000000F	02113	00867	00869	00871	00873	00875	00877	00879	00887	00889	00891	00893	00895	00897	00926				
\$OPSS2	00001	000000010	02114	01000	01002	01004	01006	01008	01010	01012	01014	01016									
\$OPSS3	00001	000000011	02115	00881	00883	00885															
\$OPSS4	00001	000000012	02116	00943	00949	00955	00961	00967	00973	00979	00985	00991	00997								
\$OPSVC	00001	000000040	02122	00075																	
\$PFTRC	00001	000000001	01636	01871	01873																
\$PRTPRT	00001	0000000D7	01995	01981	02002																
\$PRTSUBH	00001	0000000E2	01994	01877																	
AOP	00004	0000000AC	01542	01765																	
APR	00004	0000000B8	01544	01984																	
APU	00004	0000000BC	01545	02005																	
BASEDSCT	00001	000000000	01301	01309																	
BLKTRT	00001	00000A68	02042	02043	02045	02047	02049	02051	02053	02055	02057	02059	02061	02063	02065	02067					
COMMCLR	00004	0000000F8	01571	01591	01595																
COMM DWRD	00008	000000000	01509	01896	01897																
COMMFILL	00001	00000161	01612	01941																	
COMM HXCH	00016	00000275	01661	01662																	
COMM HXTR	00016	00000185	01662	01888	01891	01894	01898														
COMM NPRT	00001	000003C7	01717	01718	01720	01722	01724	01726	01728	01730	01732	01734	01736	01738	01740	01742					
COMMPOOL	00001	00000162	01613	01933	01948																
COMM PRT	00001	000002C7	01688	01689	01691	01693	01695	01697	01699	01701	01703	01705	01707	01709	01711						
COMMSUBH	00133	0000016D	01656	01874																	
COMMSUBL	00002	00000154	01606	01875	01875	01876															
DATADSCT	00001	000000000	01316	01337																	
DISASM00	00001	000000000	01503	01516	01755	01832	01869	01930	01966												
DISOP390	00001	000000000	00033	00034	01022	02163															
DSC TD SCT	00001	000000000	01344	01350																	
ESDDATA	00001	000000000	01357	01380																	
ESDNAME	00008	00000000E	01361	01376																	
EXGETOPC	00006	00000554	01796	01789																	
GETOPEXT	00004	00000546	01792	01785																	
GETO PLEN	00001	0000055A	01797	01763																	
GETOPNOT	00004	0000054E	01794	01768	01778	01783	01791														
GETOPTMK	00004	00000526	01784	01769																	
GETOPWRK	00006	0000055E	01798	01788	01788	01790	01796														
HEXTRT	00001	00000868	02024	02025	02027	02029	02031	02033													
INTTRT	00001	00000968	02035	02036	02038	02040															
LABLDSCT	00001	000000000	01387	01403																	

DAOP90				CROSS-REFERENCE		PAGE 35	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18		
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MACHAD	00006	00000DA2	00410	01198			
MACHAE	00006	00000DAA	00412	01199			
MACHAF	00006	00000DB2	00414	01200			
MACHA8	00006	00000D8A	00404	01193			
MACHA9	00006	00000D92	00406	01194			
MACHBA	00006	0000192E	00857	01211			
MACHBB	00006	00001936	00859	01212			
MACHBD	00006	0000193E	00861	01214			
MACHBE	00006	00001946	00863	01215			
MACHBF	00006	0000194E	00865	01216			
MACHB1	00006	00000DBA	00416	01202			
MACHB6	00006	0000191E	00853	01207			
MACHB7	00006	00001926	00855	01208			
MACHDA	00006	00001996	00883	01243			
MACHDB	00006	0000199E	00885	01244			
MACHDC	00006	000019A6	00887	01245			
MACHDD	00006	000019AE	00889	01246			
MACHDE	00006	000019B6	00891	01247			
MACHDF	00006	000019BE	00893	01248			
MACHD1	00006	00001956	00867	01234			
MACHD2	00006	0000195E	00869	01235			
MACHD3	00006	00001966	00871	01236			
MACHD4	00006	0000196E	00873	01237			
MACHD5	00006	00001976	00875	01238			
MACHD6	00006	0000197E	00877	01239			
MACHD7	00006	00001986	00879	01240			
MACHD9	00006	0000198E	00881	01242			
MACHEE	00006	00001A42	00929	01263			
MACHE1	00006	000019C6	00895	01250			
MACHE2	00006	000019CE	00897	01251			
MACHE8	00006	00001A3A	00926	01257			
MACHFA	00006	00001B46	01010	01275			
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MACHF1	00006	00001B1E	01000	01266			
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MACH0B	00006	0000087E	00078	01036			
MACH0C	00006	00000886	00080	01037			
MACH0D	00006	0000088E	00082	01038			
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MACH0F	00006	000008A4	00087	01040			
MACH00	00006	00000400	00039	01025			
MACH04	00006	0000082C	00064	01029			
MACH05	00006	0000083A	00067	01030			
MACH06	00006	0000084E	00070	01031			
MACH07	00006	00000862	00073	01032			
MACH1A	00006	00000902	00110	01051			
MACH1B	00006	0000090A	00112	01052			
MACH1C	00006	00000912	00114	01053			

DAOP90				CROSS-REFERENCE		PAGE 36	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18		
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MACH1E	00006	0000092E	00120	01055			
MACH1F	00006	00000936	00122	01056			
MACH10	00006	000008B2	00090	01041			
MACH11	00006	000008BA	00092	01042			
MACH12	00006	000008C2	00094	01043			
MACH13	00006	000008CA	00096	01044			
MACH14	00006	000008D2	00098	01045			
MACH15	00006	000008DA	00100	01046			
MACH16	00006	000008E2	00102	01047			
MACH17	00006	000008EA	00104	01048			
MACH18	00006	000008F2	00106	01049			
MACH19	00006	000008FA	00108	01050			
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MACH2C	00006	0000099E	00148	01069			
MACH2D	00006	000009A6	00150	01070			
MACH2E	00006	000009AE	00152	01071			
MACH2F	00006	000009B6	00154	01072			
MACH20	00006	0000093E	00124	01057			
MACH21	00006	00000946	00126	01058			
MACH22	00006	0000094E	00128	01059			
MACH23	00006	00000956	00130	01060			
MACH24	00006	0000095E	00132	01061			
MACH25	00006	00000966	00134	01062			
MACH26	00006	0000096E	00136	01063			
MACH27	00006	00000976	00138	01064			
MACH28	00006	0000097E	00140	01065			
MACH29	00006	00000986	00142	01066			
MACH3A	00006	00000A0E	00176	01083			
MACH3B	00006	00000A16	00178	01084			
MACH3C	00006	00000A1E	00180	01085			
MACH3D	00006	00000A26	00182	01086			
MACH3E	00006	00000A2E	00184	01087			
MACH3F	00006	00000A36	00186	01088			
MACH30	00006	000009BE	00156	01073			
MACH31	00006	000009C6	00158	01074			
MACH32	00006	000009CE	00160	01075			
MACH33	00006	000009D6	00162	01076			
MACH34	00006	000009DE	00164	01077			
MACH35	00006	000009E6	00166	01078			
MACH36	00006	000009EE	00168	01079			
MACH37	00006	000009F6	00170	01080			
MACH38	00006	000009FE	00172	01081			
MACH39	00006	00000A06	00174	01082			
MACH4A	00006	00000AA6	00210	01099			
MACH4B	00006	00000AAE	00212	01100			
MACH4C	00006	00000AB6	00214	01101			
MACH4D	00006	00000ABE	00216	01102			
MACH4E	00006	00000AC6	00218	01103			
MACH4F	00006	00000ACE	00220	01104			
MACH40	00006	00000A3E	00188	01089			
MACH41	00006	00000A46	00190	01090			
MACH42	00006	00000A4E	00192	01091			
MACH43	00006	00000A56	00194	01092			

DAOP90				CROSS-REFERENCE		PAGE 37	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18		
MACH44	00006	00000A5E	00196	01093			
MACH45	00006	00000A66	00198	01094			
MACH46	00006	00000A7A	00201	01095			
MACH47	00006	00000A8E	00204	01096			
MACH48	00006	00000A96	00206	01097			
MACH49	00006	00000A9E	00208	01098			
MACH5A	00006	00000B16	00238	01115			
MACH5B	00006	00000B1E	00240	01116			
MACH5C	00006	00000B26	00242	01117			
MACH5D	00006	00000B34	00245	01118			
MACH5E	00006	00000B42	00248	01119			
MACH5F	00006	00000B4A	00250	01120			
MACH50	00006	00000AD6	00222	01105			
MACH51	00006	00000ADE	00224	01106			
MACH54	00006	00000AE6	00226	01109			
MACH55	00006	00000AEE	00228	01110			
MACH56	00006	00000AF6	00230	01111			
MACH57	00006	00000AFE	00232	01112			
MACH58	00006	00000B06	00234	01113			
MACH59	00006	00000B0E	00236	01114			
MACH6A	00006	00000B72	00260	01131			
MACH6B	00006	00000B7A	00262	01132			
MACH6C	00006	00000B82	00264	01133			
MACH6D	00006	00000B8A	00266	01134			
MACH6E	00006	00000B92	00268	01135			
MACH6F	00006	00000B9A	00270	01136			
MACH60	00006	00000B52	00252	01121			
MACH67	00006	00000B5A	00254	01128			
MACH68	00006	00000B62	00256	01129			
MACH69	00006	00000B6A	00258	01130			
MACH7A	00006	00000BC2	00280	01147			
MACH7B	00006	00000BCA	00282	01148			
MACH7C	00006	00000BD2	00284	01149			
MACH7D	00006	00000BDA	00286	01150			
MACH7E	00006	00000BE2	00288	01151			
MACH7F	00006	00000BEA	00290	01152			
MACH70	00006	00000BA2	00272	01137			
MACH71	00006	00000BAA	00274	01138			
MACH78	00006	00000BB2	00276	01145			
MACH79	00006	00000BBA	00278	01146			
MACH8A	00006	00000C44	00313	01163			
MACH8B	00006	00000C52	00316	01164			
MACH8C	00006	00000C60	00319	01165			
MACH8D	00006	00000C6E	00322	01166			
MACH8E	00006	00000C7C	00325	01167			
MACH8F	00006	00000C8A	00328	01168			
MACH82	00006	00000BF2	00294	01155			
MACH83	00006	00000C00	00297	01156			
MACH84	00006	00000C08	00299	01157			
MACH85	00006	00000C10	00301	01158			
MACH86	00006	00000C18	00303	01159			
MACH87	00006	00000C20	00305	01160			
MACH88	00006	00000C28	00307	01161			
MACH89	00006	00000C36	00310	01162			
MACH9A	00006	00000CEE	00352	01179			

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18														
MACH9B	00006	00000CF6	00354	01180															
MACH90	00006	00000C98	00331	01169															
MACH91	00006	00000CA0	00333	01170															
MACH92	00006	00000CA8	00335	01171															
MACH93	00006	00000CB0	00337	01172															
MACH94	00006	00000CBE	00340	01173															
MACH95	00006	00000CC6	00342	01174															
MACH96	00006	00000CCE	00344	01175															
MACH97	00006	00000CD6	00346	01176															
MACH98	00006	00000CDE	00348	01177															
MACH99	00006	00000CE6	00350	01178															
MAINRSV	00004	00000858	02022	01931	01937	01939	01943	01946	01952										
NBLTRT	00001	00000B68	02069	02070	02072														
OPDSECT	00001	00000000	02091	01766	02129														
OPFLAGS	00001	00000007	02120	01784															
OPFLAG1	00001	00000001	02093	01773															
OPFLAG2	00001	00000002	02094	01775															
OPFLAG3	00001	00000003	02095	01777															
OPMASK	00006	00000008	02130	01790															
OPMNEM	00006	00000000	02092	02093	02094	02095													
OPTBA7	00001	00000CFE	00356	00359	00364	00369	00374	00379	00384	00389	00394	00399	01192						
OPTBB2	00001	00000DC2	00418	00421	00426	00431	00436	00441	00446	00451	00456	00461	00467	00473	00478	00483	00488	00493	
				00498	00503	00508	00513	00518	00523	00529	00535	00541	00547	00553	00559	00565	00571	00577	
				00583	00588	00594	00600	00605	00610	00615	00620	00625	00631	00637	00642	00647	00653	00659	
				00665	00671	00676	00681	00686	00692	00698	00704	00710	00716	00722	00728	00734	00740	00746	
				00752	00759	00765	00771	00777	00783	00789	00795	00800	00805	00810	00815	00820	00825	00830	
				00835	00840	00845	01203												
OPTBB3	00001	0000151A	00850	01204															
OPTBE5	00001	000019D6	00902	00905	00910	00916	00921	01254											
OPTBF0	00001	00001A4A	00937	00940	00946	00952	00958	00964	00970	00976	00982	00988	00994	01265					
OPTB01	00001	00000408	00041	00044	00049	00054	00059	01026											
OP2A70A	00006	00000D72	00392	00390															
OP2A70C	00006	00000D7A	00397	00395															
OP2A70E	00006	00000D82	00402	00400															
OP2A700	00006	00000D42	00362	00360															
OP2A701	00006	00000D4A	00367	00365															
OP2A704	00006	00000D52	00372	00370															
OP2A705	00006	00000D5A	00377	00375															
OP2A706	00006	00000D62	00382	00380															
OP2A708	00006	00000D6A	00387	00385															
OP2B2A5	00006	00001502	00838	00836															
OP2B2A6	00006	0000150A	00843	00841															
OP2B2FF	00006	00001512	00848	00846															
OP2B20A	00006	000011FE	00459	00457															
OP2B20B	00006	00001206	00464	00462															
OP2B20D	00006	00001214	00470	00468															
OP2B202	00006	000011C6	00424	00422															
OP2B204	00006	000011CE	00429	00427															
OP2B205	00006	000011D6	00434	00432															
OP2B206	00006	000011DE	00439	00437															
OP2B207	00006	000011E6	00444	00442															
OP2B208	00006	000011EE	00449	00447															
OP2B209	00006	000011F6	00454	00452															
OP2B21A	00006	0000125A	00511	00509															
OP2B210	00006	00001222	00476	00474															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
OP2B211	00006	0000122A	00481	00479	
OP2B212	00006	00001232	00486	00484	
OP2B213	00006	0000123A	00491	00489	
OP2B214	00006	00001242	00496	00494	
OP2B218	00006	0000124A	00501	00499	
OP2B219	00006	00001252	00506	00504	
OP2B22A	00006	000012D4	00568	00566	
OP2B22B	00006	000012E2	00574	00572	
OP2B22C	00006	000012F0	00580	00578	
OP2B22D	00006	000012FE	00586	00584	
OP2B221	00006	00001262	00516	00514	
OP2B222	00006	0000126A	00521	00519	
OP2B223	00006	00001272	00526	00524	
OP2B224	00006	00001280	00532	00530	
OP2B225	00006	0000128E	00538	00536	
OP2B226	00006	0000129C	00544	00542	
OP2B227	00006	000012AA	00550	00548	
OP2B228	00006	000012B8	00556	00554	
OP2B229	00006	000012C6	00562	00560	
OP2B23A	00006	0000136E	00645	00643	
OP2B23B	00006	00001376	00650	00648	
OP2B23C	00006	00001384	00656	00654	
OP2B230	00006	00001306	00591	00589	
OP2B231	00006	00001314	00597	00595	
OP2B232	00006	00001322	00603	00601	
OP2B233	00006	0000132A	00608	00606	
OP2B234	00006	00001332	00613	00611	
OP2B235	00006	0000133A	00618	00616	
OP2B236	00006	00001342	00623	00621	
OP2B237	00006	0000134A	00628	00626	
OP2B238	00006	00001358	00634	00632	
OP2B239	00006	00001366	00640	00638	
OP2B24A	00006	000013FE	00713	00711	
OP2B24B	00006	0000140C	00719	00717	
OP2B24C	00006	0000141A	00725	00723	
OP2B24D	00006	00001428	00731	00729	
OP2B24E	00006	00001436	00737	00735	
OP2B24F	00006	00001444	00743	00741	
OP2B240	00006	00001392	00662	00660	
OP2B241	00006	000013A0	00668	00666	
OP2B243	00006	000013AE	00674	00672	
OP2B244	00006	000013B6	00679	00677	
OP2B245	00006	000013BE	00684	00682	
OP2B246	00006	000013C6	00689	00687	
OP2B247	00006	000013D4	00695	00693	
OP2B248	00006	000013E2	00701	00699	
OP2B249	00006	000013F0	00707	00705	
OP2B25A	00006	00001498	00780	00778	
OP2B25D	00006	000014A6	00786	00784	
OP2B25E	00006	000014B4	00792	00790	
OP2B252	00006	00001452	00749	00747	
OP2B254	00006	00001460	00755	00753	
OP2B255	00006	0000146E	00762	00760	
OP2B257	00006	0000147C	00768	00766	
OP2B258	00006	0000148A	00774	00772	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18					
R5	00001	00000005	02151	01879 01882 01902 01902 01903 01905 01907						
SYMDATA	00001	00000000	01452	01457						
TPODA1A	00008	00000017	01914	01887 01887 01888 01888 01889 01889						
TPODA1B	00008	00000020	01915	01890 01890 01891 01891 01892 01892						
TPODA2A	00008	0000002A	01916	01893 01893 01894 01894 01895 01895						
TPODA2B	00008	00000033	01917	01897 01897 01898 01898 01899 01899						
TPOMOD	00008	00000003	01912	01885 01885						
TPOTID	00008	0000000D	01913	01886 01886						
TRACEPEN	00004	00000662	01909	01872 01881 01904						
TRACEPIN	00004	00000646	01902	01880 01884						
TRACEPPR	00004	000005E2	01883	01906 01908						
TRACESHD	00027	00000668	01918	01874 01874 01875						
TRACE010	00002	00000580	01843	01841						
TRACE020	00002	000005A8	01852	01836						
TRCESAVE	00004	00000808	02020	01756 01792 01794 01834 01853 01870 01909						
TRCURR	00004	000000D4	01557	01835 01844 01879 01903						
TRDATA1	00008	000000E0	01560	01848 01850 01850						
TRDATA2	00008	000000E8	01561	01849 01851 01851						
TREDATA1	00008	00000010	02082	01848 01887 01890						
TREDATA2	00008	00000018	02083	01849 01893 01896						
TREID	00008	00000008	02081	01847 01886						
TREMOD	00008	00000000	02080	01846 01883 01885						
TRENTYR	00001	00000000	02079	01833 01882 01901 01901 02084						
TRENTYRL	00001	00000020	02084	01839 01901 01902						
TRLAST	00004	000000CC	01555	01840 01905						
TR1ST	00004	000000C4	01553	01842 01907						
USNGDSCT	00001	00000000	01464	01478						
VERPSECT	00001	00000000	01485	01491						

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY
HIGHEST SEVERITY WAS 0
OPTIONS FOR THIS ASSEMBLY
ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
SYSPARM()
WORK FILE BUFFER SIZE/NUMBER =32758/ 1
TOTAL RECORDS READ FROM SYSTEM INPUT 343
TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717
TOTAL RECORDS PUNCHED 339
TOTAL RECORDS PRINTED 2179

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOP390 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID
--------	------	----	------	--------	------

ASM 0201 00.48 07/11/18

```
DISOPAPP SD 0001 000000 000C3C
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOPAPP	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES AS THEY MIGHT BE FOUND IN A	* 00070000
				8 *	SIMPLE APPLLCATION PROGRAM.	* 00080000
				9 *		* 00090000
				10 *	THIS MAY MAKE DATA AREA DETECTION EASIER.	* 00100000
				11 *	EXCLUDED ARE ALL FLOATING POINT INSTRUCTIONS, SOME DECIMALS,	* 00110000
				12 *	AND SOME RARER ONES.	* 00120000
				13 *		* 00130000
				14 *	THE SUPPLIED MASK VALUES REQUIRE ALL BASE REGISTERS TO BE ON	* 00140000
				15 *	A WORD BOUNDARY. IF THAT'S DESIRED,CHANGE THE 0003/0007 TO	* 00150000
				16 *	0001 TO REQUIRE EVEN ADDRESSES. BRANCH TARGETS MUST BE EVEN.	* 00160000
				17 *		* 00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	* 00180000
				19 *		* 00190000
				20 *	-----*	* 00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	* 00010000
				23 *		* 00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				25 *		* 00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				27 *		* 00060000
				28 *	-----*	* 00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				31	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISOPAPP CSECT ,	GP09181 00220000
000000		00400		34	ORG DISOPAPP+(256*4)	00230000
				35 *	-----*	* 00240000
				36 *	OPCODE TABLE	* 00250000
				37 *	-----*	* 00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40	OPCODE 05,BALR,\$OPRR1,'CALL'	00280000
000408	C2C1D3D940400100			41+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
000410	C3C1D3D340404040			42+	DC CL12'CALL'	00980000
				43	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00290000
00041C	C2C3E3D940400100			44+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000424	D3D6D6D740404040			45+	DC CL12'LOOP'	00980000
				46	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00300000
000430	C2C3D940404003A0			47+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				48	OPCODE 0A,SVC,\$OPRR2,'SVC DESCRIPTION',FLAGS=\$OPSV	00310000
000438	E2E5C34040400240			49+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OPSV)	00910000
000440	E2E5C340C4C5E2C3			50+	DC CL12'SVC DESCRIPTION'	00980000
				51 *380*	OPCODE 0B,BSM,\$OPRR1	00320000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				52 *380*	OPCODE 0C,BASSM,\$OPRR1	00330000
				53	OPCODE 0D,BASR,\$OPRR1	00340000
00044C	C2C1E2D940400120			54+MACH0D	DC CL6'BASR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				55	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00350000
000454	D4E5C3D340400129			56+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00045C	001100000000			57+	DC XL6'001100000000'	00950000
				58	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00360000
000462	C3D3C3D340400129			59+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00046A	001100000000			60+	DC XL6'001100000000'	00950000
				61	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00370000
000470	D3D7D94040400128			62+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				63	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00380000
000478	D3D5D94040400128			64+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				65	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00390000
000480	D3E3D94040400128			66+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				67	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00400000
000488	D3C3D94040400128			68+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00410000
000490	D5D9404040400122			70+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				71	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00420000
000498	C3D3D94040400124			72+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				73	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00430000
0004A0	D6D9404040400122			74+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				75	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00440000
0004A8	E7D9404040400122			76+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				77	OPCODE 18,LR,\$OPRR1	00450000
0004B0	D3D9404040400120			78+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				79	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00460000
0004B8	C3D9404040400124			80+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				81	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00470000
0004C0	C1D9404040400128			82+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				83	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00480000
0004C8	E2D9404040400128			84+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				85	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00490000
0004D0	D4D9404040400121			86+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004D8	001000000000			87+	DC XL6'001000000000'	00950000
				88	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00500000
0004DE	C4D9404040400121			89+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004E6	001000000000			90+	DC XL6'001000000000'	00950000
				91	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00510000
0004EC	C1D3D94040400128			92+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				93	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00520000
0004F4	E2D3D94040400128			94+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				95	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00530000
0004FC	E2E3C84040400731			96+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000504	000000010000			97+	DC XL6'000000010000'	00950000
				98	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00540000
00050A	D3C1404040400730			99+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				100	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00550000
000512	E2E3C34040400730			101+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				102	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00560000
00051A	C9C3404040400730			103+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				104	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00570000
000522	C5E7404040400731			105+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00052A	000000010000			106+	DC XL6'000000010000'	00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				107	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF,MASK=00000001	00580000
000530	C2C1D34040400711			108+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF+\$OPMASK)	00910000
000538	000000010000			109+	DC XL6'000000010000'	00950000
00053E	C3C1D3D340404040			110+	DC CL12'CALL'	00980000
				111	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF,MASK=00000001	00590000
00054A	C2C3E34040400711			112+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF+\$OPMASK)	00910000
000552	000000010000			113+	DC XL6'000000010000'	00950000
000558	D3D6D6D740404040			114+	DC CL12'LOOP'	00980000
				115	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF,MASK=00000001	00600000
000564	C2C34040404007B1			116+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00056C	000000010000			117+	DC XL6'000000010000'	00950000
				118	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00610000
000572	D3C8404040400731			119+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00057A	000000010000			120+	DC XL6'000000010000'	00950000
				121	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	00620000
000580	C3C8404040400735			122+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000588	000000010000			123+	DC XL6'000000010000'	00950000
				124	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00630000
00058E	C1C8404040400739			125+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000596	000000010000			126+	DC XL6'000000010000'	00950000
				127	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00640000
00059C	E2C8404040400739			128+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005A4	000000010000			129+	DC XL6'000000010000'	00950000
				130	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00650000
0005AA	D4C8404040400731			131+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005B2	000000010000			132+	DC XL6'000000010000'	00950000
				133	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00660000
0005B8	C2C1E24040400731			134+MACH4D	DC CL6'BAS',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005C0	000000010000			135+	DC XL6'000000010000'	00950000
				136	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF,MASK=00000007	00670000
0005C6	C3E5C44040400731			137+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005CE	000000070000			138+	DC XL6'000000070000'	00950000
				139	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF,MASK=00000007	00680000
0005D4	C3E5C24040400731			140+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005DC	000000070000			141+	DC XL6'000000070000'	00950000
				142	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF,MASK=00000003	00690000
0005E2	E2E3404040400731			143+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005EA	000000030000			144+	DC XL6'000000030000'	00950000
				145	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000003	00700000
0005F0	D540404040400733			146+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0005F8	000000030000			147+	DC XL6'000000030000'	00950000
				148	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000003	00710000
0005FE	C3D3404040400735			149+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000606	000000030000			150+	DC XL6'000000030000'	00950000
				151	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000003	00720000
00060C	D640404040400733			152+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000614	000000030000			153+	DC XL6'000000030000'	00950000
				154	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000003	00730000
00061A	E740404040400733			155+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000622	000000030000			156+	DC XL6'000000030000'	00950000
				157	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF,MASK=00000003	00740000
000628	D340404040400731			158+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000630	000000030000			159+	DC XL6'000000030000'	00950000
				160	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000003	00750000
000636	C340404040400735			161+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000

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00063E	000000030000			162+	DC XL6'000000030000'	00950000
				163	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000003	00760000
000644	C140404040400739			164+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00064C	000000030000			165+	DC XL6'000000030000'	00950000
				166	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000003	00770000
000652	E240404040400739			167+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00065A	000000030000			168+	DC XL6'000000030000'	00950000
				169	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100003	GP10072 00780000
000660	D440404040400731			170+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000668	001000030000			171+	DC XL6'001000030000'	00950000
				172	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100003	GP10072 00790000
00066E	C440404040400731			173+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000676	001000030000			174+	DC XL6'001000030000'	00950000
				175	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000003	00800000
00067C	C1D3404040400739			176+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000684	000000030000			177+	DC XL6'000000030000'	00950000
				178	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000003	00810000
00068A	E2D3404040400739			179+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000692	000000030000			180+	DC XL6'000000030000'	00950000
				181 *HERC*	OPCODE 83,DIAG,\$OPRSI	00820000
				182	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	00830000
000698	C2E7C84040400D31			183+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0006A0	000000010000			184+	DC XL6'000000010000'	00950000
				185	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	00840000
0006A6	C2E7D3C540400D31			186+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0006AE	000000010000			187+	DC XL6'000000010000'	00950000
				188	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 00850000
0006B4	E2D9D34040400C21			189+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006BC	000F00000000			190+	DC XL6'000F00000000'	00950000
				191	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 00860000
0006C2	E2D3D34040400C21			192+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006CA	000F00000000			193+	DC XL6'000F00000000'	00950000
				194	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00870000
0006D0	E2D9C14040400C29			195+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006D8	000F00000000			196+	DC XL6'000F00000000'	00950000
				197	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00880000
0006DE	E2D3C14040400C29			198+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006E6	000F00000000			199+	DC XL6'000F00000000'	00950000
				200	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 00890000
0006EC	E2D9C4D340400C21			201+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006F4	000F00000000			202+	DC XL6'000F00000000'	00950000
				203	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 00900000
0006FA	E2D3C4D340400C21			204+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000702	000F00000000			205+	DC XL6'000F00000000'	00950000
				206	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00910000
000708	E2D9C4C140400C29			207+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000710	000F00000000			208+	DC XL6'000F00000000'	00950000
				209	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00920000
000716	E2D3C4C140400C29			210+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00071E	000F00000000			211+	DC XL6'000F00000000'	00950000
				212	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF,MASK=00000003	00930000
000724	E2E3D44040400D31			213+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00072C	000000030000			214+	DC XL6'000000030000'	00950000
				215	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00940000
000732	E3D4404040400A32			216+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000

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				217	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	00950000
00073A	D4E5C94040400A30			218+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				219	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00960000
000742	D5C9404040400A32			220+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				221	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	00970000
00074A	C3D3C94040400A34			222+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				223	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00980000
000752	D6C9404040400A32			224+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				225	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00990000
00075A	E7C9404040400A32			226+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				227	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF,MASK=00000003	01000000
000762	D3D4404040400D31			228+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00076A	0000000030000			229+	DC XL6'0000000030000'	00950000
				230 TABLEB2	OPCODE B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	01010000
000770	5CFF00FF			231+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
000774	0000000000000000			232+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				233	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL,MASK=00000007	99137 01020000
000B74		00788		234+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
000788	00000B74			235+	DC AL4(OP2B205)	GP99137 00750000
00078C		00B74		236+	ORG ,	GP99137 00760000
000B74	E2E3C3D240400933			237+OP2B205	DC CL6'STCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000B7C	0000000070000			238+	DC XL6'0000000070000'	00950000
				239	OPCODE B222,IPM,\$OPRRE	GP05204 01030000
000B82		007FC		240+	ORG OPTBB2+4+4*X'22'	GP99137 00740000
0007FC	00000B82			241+	DC AL4(OP2B222)	GP99137 00750000
000800		00B82		242+	ORG ,	GP99137 00760000
000B82	C9D7D44040400620			243+OP2B222	DC CL6'IPM',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				244 *380*	OPCODE B240,BAKR,\$OPRRE,MASK=0000FF00	GP10018 01040000
				245	OPCODE B241,CKSM,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01050000
000B8A		00878		246+	ORG OPTBB2+4+4*X'41'	GP99137 00740000
000878	00000B8A			247+	DC AL4(OP2B241)	GP99137 00750000
00087C		00B8A		248+	ORG ,	GP99137 00760000
000B8A	C3D2E2D440400623			249+OP2B241	DC CL6'CKSM',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000B92	0000FF0000000			250+	DC XL6'0000FF0000000'	00950000
				251 *FTP*	OPCODE B243,MADS,\$OPRRE ARITHM. ASSIST	GP99137 01060000
				252 *FTP*	OPCODE B244,SQDR,\$OPRRE ARITHM. ASSIST	GP99137 01070000
				253 *FTP*	OPCODE B245,SQER,\$OPRRE ARITHM. ASSIST	GP99137 01080000
				254 *380*	OPCODE B249,EREG,\$OPRRE,MASK=0000FF00	GP10018 01090000
				255 *380*	OPCODE B24A,ESTA,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01100000
				256 *380*	OPCODE B24D,CPYA,\$OPRRE,MASK=0000FF00	GP10018 01110000
				257 *380*	OPCODE B24E,SAR,\$OPRRE,MASK=0000FF00	GP10018 01120000
				258 *380*	OPCODE B24F,EAR,\$OPRRE,MASK=0000FF00	GP10018 01130000
				259 *380*	OPCODE B252,MSR,\$OPRRE,MASK=0000FF00	GP10018 01140000
				260 *380*	OPCODE B257,CUSE,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 01150000
				261 *380*	OPCODE B25D,CLST,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 01160000
				262 *380*	OPCODE B25E,SRST,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01170000
				263	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC,MASK=00000003	01180000
000B98	C3E2404040400D35			264+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000BA0	0000000030000			265+	DC XL6'0000000030000'	00950000
				266	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC,MASK=00000007	01190000
000BA6	C3C4E24040400D35			267+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000BAE	0000000070000			268+	DC XL6'0000000070000'	00950000
				269	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC	01200000
000BB4	C3D3D44040400E34			270+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				271	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF	01210000

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000BBC	E2E3C3D440400E30			272+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)	00910000
				273	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA	01220000
000BC4	C9C3D44040400E38			274+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				275	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	01230000
000BCC	D4E5D54040400F30			276+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				277	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	01240000
000BD4	D4E5C34040400F30			278+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				279	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	01250000
000BDC	D4E5E94040400F30			280+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				281	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01260000
000BE4	D5C3404040400F32			282+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				283	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	01270000
000BEC	C3D3C34040400F34			284+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				285	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01280000
000BF4	D6C3404040400F32			286+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				287	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01290000
000BFC	E7C3404040400F32			288+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				289	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	01300000
000C04	E3D9404040400F30			290+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				291	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01310000
000C0C	E3D9E34040400F38			292+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				293	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01320000
000C14	C5C4404040400F38			294+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				295	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 01330000
000C1C	C5C4D4D240400F38			296+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				297 *380*	OPCODE E8,MVCIN,\$OPSS1,FLAGS=\$OPREF	01340000
				298 *380*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	01350000
				299	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	01360000
000C24	D4E5D64040401030			300+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				301	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	01370000
000C2C	D7C1C3D240401030			302+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				303	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	01380000
000C34	E4D5D7D240401030			304+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				305 *380*	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01390000
				306 *380*	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	01400000
				307 *380*	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01410000
				308 *380*	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01420000
				309 *380*	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	01430000
				310 *380*	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	01440000
				311 *	----- *	01450000
				312 *		* 01460000
				313 *	INDEX TO OP CODE TABLE	* 01470000
				314 *		* 01480000
				315 *	----- *	* 01490000
000C3C		00000		316	ORG DISOPAPP+0	01500000
000000				317 OPINDEX	DS OA	01510000
				318	OPCODE TYPE=INDEX	01520000
000000	00000400			319+	DC A(MACH00)	01100000
000004	00000000			320+	DC A(0)	01100000
000008	00000000			321+	DC A(0)	01100000
00000C	00000000			322+	DC A(0)	01100000
000010	00000000			323+	DC A(0)	01100000
000014	00000408			324+	DC A(MACH05)	01100000
000018	0000041C			325+	DC A(MACH06)	01100000
00001C	00000430			326+	DC A(MACH07)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000020	00000000			327+	DC A(0)	01100000
000024	00000000			328+	DC A(0)	01100000
000028	00000438			329+	DC A(MACH0A)	01100000
00002C	00000000			330+	DC A(0)	01100000
000030	00000000			331+	DC A(0)	01100000
000034	0000044C			332+	DC A(MACH0D)	01100000
000038	00000454			333+	DC A(MACH0E)	01100000
00003C	00000462			334+	DC A(MACH0F)	01100000
000040	00000470			335+	DC A(MACH10)	01100000
000044	00000478			336+	DC A(MACH11)	01100000
000048	00000480			337+	DC A(MACH12)	01100000
00004C	00000488			338+	DC A(MACH13)	01100000
000050	00000490			339+	DC A(MACH14)	01100000
000054	00000498			340+	DC A(MACH15)	01100000
000058	000004A0			341+	DC A(MACH16)	01100000
00005C	000004A8			342+	DC A(MACH17)	01100000
000060	000004B0			343+	DC A(MACH18)	01100000
000064	000004B8			344+	DC A(MACH19)	01100000
000068	000004C0			345+	DC A(MACH1A)	01100000
00006C	000004C8			346+	DC A(MACH1B)	01100000
000070	000004D0			347+	DC A(MACH1C)	01100000
000074	000004DE			348+	DC A(MACH1D)	01100000
000078	000004EC			349+	DC A(MACH1E)	01100000
00007C	000004F4			350+	DC A(MACH1F)	01100000
000080	00000000			351+	DC A(0)	01100000
000084	00000000			352+	DC A(0)	01100000
000088	00000000			353+	DC A(0)	01100000
00008C	00000000			354+	DC A(0)	01100000
000090	00000000			355+	DC A(0)	01100000
000094	00000000			356+	DC A(0)	01100000
000098	00000000			357+	DC A(0)	01100000
00009C	00000000			358+	DC A(0)	01100000
0000A0	00000000			359+	DC A(0)	01100000
0000A4	00000000			360+	DC A(0)	01100000
0000A8	00000000			361+	DC A(0)	01100000
0000AC	00000000			362+	DC A(0)	01100000
0000B0	00000000			363+	DC A(0)	01100000
0000B4	00000000			364+	DC A(0)	01100000
0000B8	00000000			365+	DC A(0)	01100000
0000BC	00000000			366+	DC A(0)	01100000
0000C0	00000000			367+	DC A(0)	01100000
0000C4	00000000			368+	DC A(0)	01100000
0000C8	00000000			369+	DC A(0)	01100000
0000CC	00000000			370+	DC A(0)	01100000
0000D0	00000000			371+	DC A(0)	01100000
0000D4	00000000			372+	DC A(0)	01100000
0000D8	00000000			373+	DC A(0)	01100000
0000DC	00000000			374+	DC A(0)	01100000
0000E0	00000000			375+	DC A(0)	01100000
0000E4	00000000			376+	DC A(0)	01100000
0000E8	00000000			377+	DC A(0)	01100000
0000EC	00000000			378+	DC A(0)	01100000
0000F0	00000000			379+	DC A(0)	01100000
0000F4	00000000			380+	DC A(0)	01100000
0000F8	00000000			381+	DC A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0000FC	00000000			382+	DC A(0)	01100000
000100	000004FC			383+	DC A(MACH40)	01100000
000104	0000050A			384+	DC A(MACH41)	01100000
000108	00000512			385+	DC A(MACH42)	01100000
00010C	0000051A			386+	DC A(MACH43)	01100000
000110	00000522			387+	DC A(MACH44)	01100000
000114	00000530			388+	DC A(MACH45)	01100000
000118	0000054A			389+	DC A(MACH46)	01100000
00011C	00000564			390+	DC A(MACH47)	01100000
000120	00000572			391+	DC A(MACH48)	01100000
000124	00000580			392+	DC A(MACH49)	01100000
000128	0000058E			393+	DC A(MACH4A)	01100000
00012C	0000059C			394+	DC A(MACH4B)	01100000
000130	000005AA			395+	DC A(MACH4C)	01100000
000134	000005B8			396+	DC A(MACH4D)	01100000
000138	000005C6			397+	DC A(MACH4E)	01100000
00013C	000005D4			398+	DC A(MACH4F)	01100000
000140	000005E2			399+	DC A(MACH50)	01100000
000144	00000000			400+	DC A(0)	01100000
000148	00000000			401+	DC A(0)	01100000
00014C	00000000			402+	DC A(0)	01100000
000150	000005F0			403+	DC A(MACH54)	01100000
000154	000005FE			404+	DC A(MACH55)	01100000
000158	0000060C			405+	DC A(MACH56)	01100000
00015C	0000061A			406+	DC A(MACH57)	01100000
000160	00000628			407+	DC A(MACH58)	01100000
000164	00000636			408+	DC A(MACH59)	01100000
000168	00000644			409+	DC A(MACH5A)	01100000
00016C	00000652			410+	DC A(MACH5B)	01100000
000170	00000660			411+	DC A(MACH5C)	01100000
000174	0000066E			412+	DC A(MACH5D)	01100000
000178	0000067C			413+	DC A(MACH5E)	01100000
00017C	0000068A			414+	DC A(MACH5F)	01100000
000180	00000000			415+	DC A(0)	01100000
000184	00000000			416+	DC A(0)	01100000
000188	00000000			417+	DC A(0)	01100000
00018C	00000000			418+	DC A(0)	01100000
000190	00000000			419+	DC A(0)	01100000
000194	00000000			420+	DC A(0)	01100000
000198	00000000			421+	DC A(0)	01100000
00019C	00000000			422+	DC A(0)	01100000
0001A0	00000000			423+	DC A(0)	01100000
0001A4	00000000			424+	DC A(0)	01100000
0001A8	00000000			425+	DC A(0)	01100000
0001AC	00000000			426+	DC A(0)	01100000
0001B0	00000000			427+	DC A(0)	01100000
0001B4	00000000			428+	DC A(0)	01100000
0001B8	00000000			429+	DC A(0)	01100000
0001BC	00000000			430+	DC A(0)	01100000
0001C0	00000000			431+	DC A(0)	01100000
0001C4	00000000			432+	DC A(0)	01100000
0001C8	00000000			433+	DC A(0)	01100000
0001CC	00000000			434+	DC A(0)	01100000
0001D0	00000000			435+	DC A(0)	01100000
0001D4	00000000			436+	DC A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001D8	00000000			437+	DC	A(0)	01100000
0001DC	00000000			438+	DC	A(0)	01100000
0001E0	00000000			439+	DC	A(0)	01100000
0001E4	00000000			440+	DC	A(0)	01100000
0001E8	00000000			441+	DC	A(0)	01100000
0001EC	00000000			442+	DC	A(0)	01100000
0001F0	00000000			443+	DC	A(0)	01100000
0001F4	00000000			444+	DC	A(0)	01100000
0001F8	00000000			445+	DC	A(0)	01100000
0001FC	00000000			446+	DC	A(0)	01100000
000200	00000000			447+	DC	A(0)	01100000
000204	00000000			448+	DC	A(0)	01100000
000208	00000000			449+	DC	A(0)	01100000
00020C	00000000			450+	DC	A(0)	01100000
000210	00000000			451+	DC	A(0)	01100000
000214	00000000			452+	DC	A(0)	01100000
000218	00000698			453+	DC	A(MACH86)	01100000
00021C	000006A6			454+	DC	A(MACH87)	01100000
000220	000006B4			455+	DC	A(MACH88)	01100000
000224	000006C2			456+	DC	A(MACH89)	01100000
000228	000006D0			457+	DC	A(MACH8A)	01100000
00022C	000006DE			458+	DC	A(MACH8B)	01100000
000230	000006EC			459+	DC	A(MACH8C)	01100000
000234	000006FA			460+	DC	A(MACH8D)	01100000
000238	00000708			461+	DC	A(MACH8E)	01100000
00023C	00000716			462+	DC	A(MACH8F)	01100000
000240	00000724			463+	DC	A(MACH90)	01100000
000244	00000732			464+	DC	A(MACH91)	01100000
000248	0000073A			465+	DC	A(MACH92)	01100000
00024C	00000000			466+	DC	A(0)	01100000
000250	00000742			467+	DC	A(MACH94)	01100000
000254	0000074A			468+	DC	A(MACH95)	01100000
000258	00000752			469+	DC	A(MACH96)	01100000
00025C	0000075A			470+	DC	A(MACH97)	01100000
000260	00000762			471+	DC	A(MACH98)	01100000
000264	00000000			472+	DC	A(0)	01100000
000268	00000000			473+	DC	A(0)	01100000
00026C	00000000			474+	DC	A(0)	01100000
000270	00000000			475+	DC	A(0)	01100000
000274	00000000			476+	DC	A(0)	01100000
000278	00000000			477+	DC	A(0)	01100000
00027C	00000000			478+	DC	A(0)	01100000
000280	00000000			479+	DC	A(0)	01100000
000284	00000000			480+	DC	A(0)	01100000
000288	00000000			481+	DC	A(0)	01100000
00028C	00000000			482+	DC	A(0)	01100000
000290	00000000			483+	DC	A(0)	01100000
000294	00000000			484+	DC	A(0)	01100000
000298	00000000			485+	DC	A(0)	01100000
00029C	00000000			486+	DC	A(0)	01100000
0002A0	00000000			487+	DC	A(0)	01100000
0002A4	00000000			488+	DC	A(0)	01100000
0002A8	00000000			489+	DC	A(0)	01100000
0002AC	00000000			490+	DC	A(0)	01100000
0002B0	00000000			491+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002B4	00000000			492+	DC	A(0)	01100000
0002B8	00000000			493+	DC	A(0)	01100000
0002BC	00000000			494+	DC	A(0)	01100000
0002C0	00000000			495+	DC	A(0)	01100000
0002C4	00000000			496+	DC	A(0)	01100000
0002C8	80000770			497+	DC	A(X'80000000'+OPTBB2)	01100000
0002CC	00000000			498+	DC	A(0)	01100000
0002D0	00000000			499+	DC	A(0)	01100000
0002D4	00000000			500+	DC	A(0)	01100000
0002D8	00000000			501+	DC	A(0)	01100000
0002DC	00000000			502+	DC	A(0)	01100000
0002E0	00000000			503+	DC	A(0)	01100000
0002E4	00000000			504+	DC	A(0)	01100000
0002E8	00000B98			505+	DC	A(MACHBA)	01100000
0002EC	00000BA6			506+	DC	A(MACHBB)	01100000
0002F0	00000000			507+	DC	A(0)	01100000
0002F4	00000BB4			508+	DC	A(MACHBD)	01100000
0002F8	00000BBC			509+	DC	A(MACHBE)	01100000
0002FC	00000BC4			510+	DC	A(MACHBF)	01100000
000300	00000000			511+	DC	A(0)	01100000
000304	00000000			512+	DC	A(0)	01100000
000308	00000000			513+	DC	A(0)	01100000
00030C	00000000			514+	DC	A(0)	01100000
000310	00000000			515+	DC	A(0)	01100000
000314	00000000			516+	DC	A(0)	01100000
000318	00000000			517+	DC	A(0)	01100000
00031C	00000000			518+	DC	A(0)	01100000
000320	00000000			519+	DC	A(0)	01100000
000324	00000000			520+	DC	A(0)	01100000
000328	00000000			521+	DC	A(0)	01100000
00032C	00000000			522+	DC	A(0)	01100000
000330	00000000			523+	DC	A(0)	01100000
000334	00000000			524+	DC	A(0)	01100000
000338	00000000			525+	DC	A(0)	01100000
00033C	00000000			526+	DC	A(0)	01100000
000340	00000000			527+	DC	A(0)	01100000
000344	00000BCC			528+	DC	A(MACHD1)	01100000
000348	00000BD4			529+	DC	A(MACHD2)	01100000
00034C	00000BDC			530+	DC	A(MACHD3)	01100000
000350	00000BE4			531+	DC	A(MACHD4)	01100000
000354	00000BEC			532+	DC	A(MACHD5)	01100000
000358	00000BF4			533+	DC	A(MACHD6)	01100000
00035C	00000BFC			534+	DC	A(MACHD7)	01100000
000360	00000000			535+	DC	A(0)	01100000
000364	00000000			536+	DC	A(0)	01100000
000368	00000000			537+	DC	A(0)	01100000
00036C	00000000			538+	DC	A(0)	01100000
000370	00000C04			539+	DC	A(MACHDC)	01100000
000374	00000C0C			540+	DC	A(MACHDD)	01100000
000378	00000C14			541+	DC	A(MACHDE)	01100000
00037C	00000C1C			542+	DC	A(MACHDF)	01100000
000380	00000000			543+	DC	A(0)	01100000
000384	00000000			544+	DC	A(0)	01100000
000388	00000000			545+	DC	A(0)	01100000
00038C	00000000			546+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000390	00000000			547+	DC A(0)	01100000
000394	00000000			548+	DC A(0)	01100000
000398	00000000			549+	DC A(0)	01100000
00039C	00000000			550+	DC A(0)	01100000
0003A0	00000000			551+	DC A(0)	01100000
0003A4	00000000			552+	DC A(0)	01100000
0003A8	00000000			553+	DC A(0)	01100000
0003AC	00000000			554+	DC A(0)	01100000
0003B0	00000000			555+	DC A(0)	01100000
0003B4	00000000			556+	DC A(0)	01100000
0003B8	00000000			557+	DC A(0)	01100000
0003BC	00000000			558+	DC A(0)	01100000
0003C0	00000000			559+	DC A(0)	01100000
0003C4	00000C24			560+	DC A(MACHF1)	01100000
0003C8	00000C2C			561+	DC A(MACHF2)	01100000
0003CC	00000C34			562+	DC A(MACHF3)	01100000
0003D0	00000000			563+	DC A(0)	01100000
0003D4	00000000			564+	DC A(0)	01100000
0003D8	00000000			565+	DC A(0)	01100000
0003DC	00000000			566+	DC A(0)	01100000
0003E0	00000000			567+	DC A(0)	01100000
0003E4	00000000			568+	DC A(0)	01100000
0003E8	00000000			569+	DC A(0)	01100000
0003EC	00000000			570+	DC A(0)	01100000
0003F0	00000000			571+	DC A(0)	01100000
0003F4	00000000			572+	DC A(0)	01100000
0003F8	00000000			573+	DC A(0)	01100000
0003FC	00000000			574+	DC A(0)	01100000
				575	COPY DISASMDA	01530000
				576	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				577	PRINT OFF	00020000
				788	PRINT ON	02130000
				789 .DA020	ANOP	02140000
				790	*-----*	01540000
				791 *		* 01550000
				792 *	COMMON DATA MAP	* 01560000
				793 *		* 01570000
				794	*-----*	01580000
				795 DISASM00	DISASMCM TYPE=DSECT GP99137	01590000
				796+	PRINT OFF	00280000
				1427+	PRINT ON	06440000
				1428+*	*-----*	06460000
				1429+*		* 06470000
				1430+*	ABEND REASON CODES	* 06480000
				1431+*		* 06490000
				1432+*	*-----*	06500000
	00001	1433+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1434+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1435+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1436+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1437+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1440+R0	EQU	0		00070000
	00001	1441+R1	EQU	1		00080000

[illegible]

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000014	
0001	0001	OC	000018	
0001	0001	OC	00001C	
0001	0001	OC	000028	
0001	0001	OC	000034	
0001	0001	OC	000038	
0001	0001	OC	00003C	
0001	0001	OC	000040	
0001	0001	OC	000044	
0001	0001	OC	000048	
0001	0001	OC	00004C	
0001	0001	OC	000050	
0001	0001	OC	000054	
0001	0001	OC	000058	
0001	0001	OC	00005C	
0001	0001	OC	000060	
0001	0001	OC	000064	
0001	0001	OC	000068	
0001	0001	OC	00006C	
0001	0001	OC	000070	
0001	0001	OC	000074	
0001	0001	OC	000078	
0001	0001	OC	00007C	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
0001	0001	OC	000110	
0001	0001	OC	000114	
0001	0001	OC	000118	
0001	0001	OC	00011C	
0001	0001	OC	000120	
0001	0001	OC	000124	
0001	0001	OC	000128	
0001	0001	OC	00012C	
0001	0001	OC	000130	
0001	0001	OC	000134	
0001	0001	OC	000138	
0001	0001	OC	00013C	
0001	0001	OC	000140	
0001	0001	OC	000150	
0001	0001	OC	000154	
0001	0001	OC	000158	
0001	0001	OC	00015C	
0001	0001	OC	000160	
0001	0001	OC	000164	
0001	0001	OC	000168	
0001	0001	OC	00016C	
0001	0001	OC	000170	
0001	0001	OC	000174	
0001	0001	OC	000178	
0001	0001	OC	00017C	
0001	0001	OC	000218	
0001	0001	OC	00021C	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000220	
0001	0001	OC	000224	
0001	0001	OC	000228	
0001	0001	OC	00022C	
0001	0001	OC	000230	
0001	0001	OC	000234	
0001	0001	OC	000238	
0001	0001	OC	00023C	
0001	0001	OC	000240	
0001	0001	OC	000244	
0001	0001	OC	000248	
0001	0001	OC	000250	
0001	0001	OC	000254	
0001	0001	OC	000258	
0001	0001	OC	00025C	
0001	0001	OC	000260	
0001	0001	OC	0002C8	
0001	0001	OC	0002E8	
0001	0001	OC	0002EC	
0001	0001	OC	0002F4	
0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
0001	0001	OC	000344	
0001	0001	OC	000348	
0001	0001	OC	00034C	
0001	0001	OC	000350	
0001	0001	OC	000354	
0001	0001	OC	000358	
0001	0001	OC	00035C	
0001	0001	OC	000370	
0001	0001	OC	000374	
0001	0001	OC	000378	
0001	0001	OC	00037C	
0001	0001	OC	0003C4	
0001	0001	OC	0003C8	
0001	0001	OC	0003CC	
0001	0001	OC	000788	
0001	0001	OC	0007FC	
0001	0001	OC	000878	

DOPAPP				CROSS-REFERENCE				PAGE 17	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18				
DSCTDSCT	00001	00000000	00638	00644					
ESDDATA	00001	00000000	00651	00674					
ESDNAME	00008	0000000E	00655	00670					
EXGETOPC	00006	00000554	01090	01083					
GETOPEXT	00004	00000546	01086	01079					
GETOPLN	00001	0000055A	01091	01057					
GETOPNOT	00004	0000054E	01088	01062	01072	01077	01085		
GETOPTMK	00004	00000526	01078	01063					
GETOPWRK	00006	0000055E	01092	01082	01082	01084	01090		
HEXTRT	00001	00000868	01318	01319	01321	01323	01325	01327	
INTTRT	00001	00000968	01329	01330	01332	01334			
LABLDSCT	00001	00000000	00681	00697					
MACHBA	00006	00000B98	00264	00505					
MACHBB	00006	00000BA6	00267	00506					
MACHBD	00006	00000BB4	00270	00508					
MACHBE	00006	00000BBC	00272	00509					
MACHBF	00006	00000BC4	00274	00510					
MACHDC	00006	00000C04	00290	00539					
MACHDD	00006	00000C0C	00292	00540					
MACHDE	00006	00000C14	00294	00541					
MACHDF	00006	00000C1C	00296	00542					
MACHD1	00006	00000BCC	00276	00528					
MACHD2	00006	00000BD4	00278	00529					
MACHD3	00006	00000BDC	00280	00530					
MACHD4	00006	00000BE4	00282	00531					
MACHD5	00006	00000BEC	00284	00532					
MACHD6	00006	00000BF4	00286	00533					
MACHD7	00006	00000BFC	00288	00534					
MACHF1	00006	00000C24	00300	00560					
MACHF2	00006	00000C2C	00302	00561					
MACHF3	00006	00000C34	00304	00562					
MACH0A	00006	00000438	00049	00329					
MACH0D	00006	0000044C	00054	00332					
MACH0E	00006	00000454	00056	00333					
MACH0F	00006	00000462	00059	00334					
MACH00	00006	00000400	00039	00319					
MACH05	00006	00000408	00041	00324					
MACH06	00006	0000041C	00044	00325					
MACH07	00006	00000430	00047	00326					
MACH1A	00006	000004C0	00082	00345					
MACH1B	00006	000004C8	00084	00346					
MACH1C	00006	000004D0	00086	00347					
MACH1D	00006	000004DE	00089	00348					
MACH1E	00006	000004EC	00092	00349					
MACH1F	00006	000004F4	00094	00350					
MACH10	00006	00000470	00062	00335					
MACH11	00006	00000478	00064	00336					
MACH12	00006	00000480	00066	00337					
MACH13	00006	00000488	00068	00338					
MACH14	00006	00000490	00070	00339					
MACH15	00006	00000498	00072	00340					
MACH16	00006	000004A0	00074	00341					
MACH17	00006	000004A8	00076	00342					
MACH18	00006	000004B0	00078	00343					
MACH19	00006	000004B8	00080	00344					

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH4A	00006	0000058E	00125	00393	
MACH4B	00006	0000059C	00128	00394	
MACH4C	00006	000005AA	00131	00395	
MACH4D	00006	000005B8	00134	00396	
MACH4E	00006	000005C6	00137	00397	
MACH4F	00006	000005D4	00140	00398	
MACH40	00006	000004FC	00096	00383	
MACH41	00006	0000050A	00099	00384	
MACH42	00006	00000512	00101	00385	
MACH43	00006	0000051A	00103	00386	
MACH44	00006	00000522	00105	00387	
MACH45	00006	00000530	00108	00388	
MACH46	00006	0000054A	00112	00389	
MACH47	00006	00000564	00116	00390	
MACH48	00006	00000572	00119	00391	
MACH49	00006	00000580	00122	00392	
MACH5A	00006	00000644	00164	00409	
MACH5B	00006	00000652	00167	00410	
MACH5C	00006	00000660	00170	00411	
MACH5D	00006	0000066E	00173	00412	
MACH5E	00006	0000067C	00176	00413	
MACH5F	00006	0000068A	00179	00414	
MACH50	00006	000005E2	00143	00399	
MACH54	00006	000005F0	00146	00403	
MACH55	00006	000005FE	00149	00404	
MACH56	00006	0000060C	00152	00405	
MACH57	00006	0000061A	00155	00406	
MACH58	00006	00000628	00158	00407	
MACH59	00006	00000636	00161	00408	
MACH8A	00006	000006D0	00195	00457	
MACH8B	00006	000006DE	00198	00458	
MACH8C	00006	000006EC	00201	00459	
MACH8D	00006	000006FA	00204	00460	
MACH8E	00006	00000708	00207	00461	
MACH8F	00006	00000716	00210	00462	
MACH86	00006	00000698	00183	00453	
MACH87	00006	000006A6	00186	00454	
MACH88	00006	000006B4	00189	00455	
MACH89	00006	000006C2	00192	00456	
MACH90	00006	00000724	00213	00463	
MACH91	00006	00000732	00216	00464	
MACH92	00006	0000073A	00218	00465	
MACH94	00006	00000742	00220	00467	
MACH95	00006	0000074A	00222	00468	
MACH96	00006	00000752	00224	00469	
MACH97	00006	0000075A	00226	00470	
MACH98	00006	00000762	00228	00471	
MAINRSV	00004	00000858	01316	01225	01231 01233 01237 01240 01246
NBLTRT	00001	00000B68	01363	01364	01366
OPDSECT	00001	00000000	01385	01060	01423
OPFLAGS	00001	00000007	01414	01078	
OPFLAG1	00001	00000001	01387	01067	
OPFLAG2	00001	00000002	01388	01069	
OPFLAG3	00001	00000003	01389	01071	
OPMASK	00006	00000008	01424	01084	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
TREMOD	00008	00000000	01374	01140 01177 01179	
TRENTY	00001	00000000	01373	01127 01176 01195 01195 01378	
TRENTYL	00001	00000020	01378	01133 01195 01196	
TRLAST	00004	000000CC	00849	01134 01199	
TR1ST	00004	000000C4	00847	01136 01201	
USNGDSCT	00001	00000000	00758	00772	
VERPSECT	00001	00000000	00779	00785	

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 160

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 73

TOTAL RECORDS PRINTED 997

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOPAPP DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID
--------	------	----	------	--------	------

ASM 0201 00.48 07/11/18

```
DISOPAP2 SD 0001 000000 000C3C
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOPAP2	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES AS THEY MIGHT BE FOUND IN A	* 00070000
				8 *	SIMPLE APPLLCATION PROGRAM.	* 00080000
				9 *		* 00090000
				10 *	THIS MAY MAKE DATA AREA DETECTION EASIER.	* 00100000
				11 *	EXCLUDED ARE ALL FLOATING POINT INSTRUCTIONS, SOME DECIMALS,	* 00110000
				12 *	AND SOME RARER ONES.	* 00120000
				13 *		* 00130000
				14 *	THE SUPPLIED MASK VALUES REQUIRE ALL BASE REGISTERS TO BE	* 00140000
				15 *	EVEN, AND ALL HALFWORD, WORD, AND DOUBLE WORD DISPLACEMENTS	* 00150000
				16 *	TO BE EVEN. ALSO SEE DISOPAPP FOR MORE RESTRICTIVE MASKS.	* 00160000
				17 *		* 00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	* 00180000
				19 *		* 00190000
				20 *	-----*	00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	00010000
				23 *		* 00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				25 *		* 00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				27 *		* 00060000
				28 *	-----*	00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				31	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISOPAP2 CSECT ,	GP09181 00220000
000000		00400		34	ORG DISOPAP2+(256*4)	00230000
				35 *	-----*	00240000
				36 *	OPCODE TABLE	* 00250000
				37 *	-----*	00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+	MACH00 DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40	OPCODE 05,BALR,\$OPRR1,'CALL'	00280000
000408	C2C1D3D940400100			41+	MACH05 DC CL6'BALR',AL1(\$OPRR1,0)	00910000
000410	C3C1D3D340404040			42+	DC CL12'CALL'	00980000
				43	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00290000
00041C	C2C3E3D940400100			44+	MACH06 DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000424	D3D6D6D740404040			45+	DC CL12'LOOP'	00980000
				46	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00300000
000430	C2C3D940404003A0			47+	MACH07 DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				48	OPCODE 0A,SVC,\$OPRR2,'SVC DESCRIPTION',FLAGS=\$OPSV	00310000
000438	E2E5C34040400240			49+	MACH0A DC CL6'SVC',AL1(\$OPRR2,\$OPSV)	00910000
000440	E2E5C340C4C5E2C3			50+	DC CL12'SVC DESCRIPTION'	00980000
				51	*380* OPCODE 0B,BSM,\$OPRR1	00320000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				52 *380*	OPCODE 0C,BASSM,\$OPRR1	00330000
				53	OPCODE 0D,BASR,\$OPRR1	00340000
00044C	C2C1E2D940400120			54+MACH0D	DC CL6'BASR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				55	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00350000
000454	D4E5C3D340400129			56+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00045C	001100000000			57+	DC XL6'001100000000'	00950000
				58	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00360000
000462	C3D3C3D340400129			59+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00046A	001100000000			60+	DC XL6'001100000000'	00950000
				61	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00370000
000470	D3D7D94040400128			62+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				63	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00380000
000478	D3D5D94040400128			64+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				65	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00390000
000480	D3E3D94040400128			66+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				67	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00400000
000488	D3C3D94040400128			68+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00410000
000490	D5D9404040400122			70+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				71	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00420000
000498	C3D3D94040400124			72+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				73	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00430000
0004A0	D6D9404040400122			74+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				75	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00440000
0004A8	E7D9404040400122			76+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				77	OPCODE 18,LR,\$OPRR1	00450000
0004B0	D3D9404040400120			78+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				79	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00460000
0004B8	C3D9404040400124			80+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				81	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00470000
0004C0	C1D9404040400128			82+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				83	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00480000
0004C8	E2D9404040400128			84+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				85	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00490000
0004D0	D4D9404040400121			86+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004D8	001000000000			87+	DC XL6'001000000000'	00950000
				88	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00500000
0004DE	C4D9404040400121			89+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004E6	001000000000			90+	DC XL6'001000000000'	00950000
				91	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00510000
0004EC	C1D3D94040400128			92+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				93	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00520000
0004F4	E2D3D94040400128			94+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				95	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00530000
0004FC	E2E3C84040400731			96+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000504	000000010000			97+	DC XL6'000000010000'	00950000
				98	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00540000
00050A	D3C1404040400730			99+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				100	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00550000
000512	E2E3C34040400730			101+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				102	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00560000
00051A	C9C3404040400730			103+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				104	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00570000
000522	C5E7404040400731			105+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00052A	000000010000			106+	DC XL6'000000010000'	00950000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				107	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF,MASK=00000001	00580000
000530	C2C1D34040400711			108+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF+\$OPMASK)	00910000
000538	000000010000			109+	DC XL6'000000010000'	00950000
00053E	C3C1D3D340404040			110+	DC CL12'CALL'	00980000
				111	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF,MASK=00000001	00590000
00054A	C2C3E34040400711			112+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF+\$OPMASK)	00910000
000552	000000010000			113+	DC XL6'000000010000'	00950000
000558	D3D6D6D740404040			114+	DC CL12'LOOP'	00980000
				115	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF,MASK=00000001	00600000
000564	C2C34040404007B1			116+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00056C	000000010000			117+	DC XL6'000000010000'	00950000
				118	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00610000
000572	D3C8404040400731			119+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00057A	000000010000			120+	DC XL6'000000010000'	00950000
				121	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	00620000
000580	C3C8404040400735			122+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000588	000000010000			123+	DC XL6'000000010000'	00950000
				124	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00630000
00058E	C1C8404040400739			125+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000596	000000010000			126+	DC XL6'000000010000'	00950000
				127	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00640000
00059C	E2C8404040400739			128+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005A4	000000010000			129+	DC XL6'000000010000'	00950000
				130	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00650000
0005AA	D4C8404040400731			131+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005B2	000000010000			132+	DC XL6'000000010000'	00950000
				133	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00660000
0005B8	C2C1E24040400731			134+MACH4D	DC CL6'BAS',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005C0	000000010000			135+	DC XL6'000000010000'	00950000
				136	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00670000
0005C6	C3E5C44040400731			137+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005CE	000000010000			138+	DC XL6'000000010000'	00950000
				139	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00680000
0005D4	C3E5C24040400731			140+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005DC	000000010000			141+	DC XL6'000000010000'	00950000
				142	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00690000
0005E2	E2E3404040400731			143+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0005EA	000000010000			144+	DC XL6'000000010000'	00950000
				145	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000001	00700000
0005F0	D540404040400733			146+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0005F8	000000010000			147+	DC XL6'000000010000'	00950000
				148	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	00710000
0005FE	C3D3404040400735			149+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000606	000000010000			150+	DC XL6'000000010000'	00950000
				151	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000001	00720000
00060C	D640404040400733			152+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000614	000000010000			153+	DC XL6'000000010000'	00950000
				154	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL,MASK=00000001	00730000
00061A	E740404040400733			155+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000622	000000010000			156+	DC XL6'000000010000'	00950000
				157	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF,MASK=00000001	00740000
000628	D340404040400731			158+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000630	000000010000			159+	DC XL6'000000010000'	00950000
				160	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	00750000
000636	C340404040400735			161+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00063E	0000000010000			162+	DC XL6'0000000010000'	00950000
				163	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00760000
000644	C140404040400739			164+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00064C	0000000010000			165+	DC XL6'0000000010000'	00950000
				166	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00770000
000652	E240404040400739			167+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00065A	0000000010000			168+	DC XL6'0000000010000'	00950000
				169	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100001	00780000
000660	D440404040400731			170+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000668	0010000010000			171+	DC XL6'0010000010000'	00950000
				172	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100001	00790000
00066E	C440404040400731			173+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000676	0010000010000			174+	DC XL6'0010000010000'	00950000
				175	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00800000
00067C	C1D3404040400739			176+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000684	0000000010000			177+	DC XL6'0000000010000'	00950000
				178	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00000001	00810000
00068A	E2D3404040400739			179+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000692	0000000010000			180+	DC XL6'0000000010000'	00950000
				181 *HERC*	OPCODE 83,DIAG,\$OPRSI	00820000
				182	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	00830000
000698	C2E7C84040400D31			183+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0006A0	0000000010000			184+	DC XL6'0000000010000'	00950000
				185	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	00840000
0006A6	C2E7D3C540400D31			186+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0006AE	0000000010000			187+	DC XL6'0000000010000'	00950000
				188	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 00850000
0006B4	E2D9D34040400C21			189+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006BC	000F00000000			190+	DC XL6'000F00000000'	00950000
				191	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 00860000
0006C2	E2D3D34040400C21			192+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006CA	000F00000000			193+	DC XL6'000F00000000'	00950000
				194	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00870000
0006D0	E2D9C14040400C29			195+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006D8	000F00000000			196+	DC XL6'000F00000000'	00950000
				197	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00880000
0006DE	E2D3C14040400C29			198+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006E6	000F00000000			199+	DC XL6'000F00000000'	00950000
				200	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 00890000
0006EC	E2D9C4D340400C21			201+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
0006F4	000F00000000			202+	DC XL6'000F00000000'	00950000
				203	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 00900000
0006FA	E2D3C4D340400C21			204+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000702	000F00000000			205+	DC XL6'000F00000000'	00950000
				206	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00910000
000708	E2D9C4C140400C29			207+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000710	000F00000000			208+	DC XL6'000F00000000'	00950000
				209	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 00920000
000716	E2D3C4C140400C29			210+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00071E	000F00000000			211+	DC XL6'000F00000000'	00950000
				212	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	00930000
000724	E2E3D44040400D31			213+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00072C	0000000010000			214+	DC XL6'0000000010000'	00950000
				215	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00940000
000732	E3D4404040400A32			216+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				217	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	00950000
00073A	D4E5C94040400A30			218+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				219	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00960000
000742	D5C9404040400A32			220+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				221	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	00970000
00074A	C3D3C94040400A34			222+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				223	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00980000
000752	D6C9404040400A32			224+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				225	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	00990000
00075A	E7C9404040400A32			226+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				227	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF,MASK=00000001	01000000
000762	D3D4404040400D31			228+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00076A	0000000010000			229+	DC XL6'000000010000'	00950000
				230 TABLEB2	OPCODE B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256	01010000
000770	5CFF00FF			231+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
000774	0000000000000000			232+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				233	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL,MASK=00000001	99137 01020000
000B74		00788		234+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
000788	00000B74			235+	DC AL4(OP2B205)	GP99137 00750000
00078C		00B74		236+	ORG ,	GP99137 00760000
000B74	E2E3C3D240400933			237+OP2B205	DC CL6'STCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000B7C	0000000010000			238+	DC XL6'000000010000'	00950000
				239	OPCODE B222,IPM,\$OPRRE	GP05204 01030000
000B82		007FC		240+	ORG OPTBB2+4+4*X'22'	GP99137 00740000
0007FC	00000B82			241+	DC AL4(OP2B222)	GP99137 00750000
000800		00B82		242+	ORG ,	GP99137 00760000
000B82	C9D7D44040400620			243+OP2B222	DC CL6'IPM',AL1(\$OPRRE,0+\$OPNCMNT)	00910000
				244 *380*	OPCODE B240,BAKR,\$OPRRE,MASK=0000FF00	GP10018 01040000
				245	OPCODE B241,CKSM,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01050000
000B8A		00878		246+	ORG OPTBB2+4+4*X'41'	GP99137 00740000
000878	00000B8A			247+	DC AL4(OP2B241)	GP99137 00750000
00087C		00B8A		248+	ORG ,	GP99137 00760000
000B8A	C3D2E2D440400623			249+OP2B241	DC CL6'CKSM',AL1(\$OPRRE,\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
000B92	0000FF0000000			250+	DC XL6'0000FF000000'	00950000
				251 *FTP*	OPCODE B243,MADS,\$OPRRE ARITHM. ASSIST	GP99137 01060000
				252 *FTP*	OPCODE B244,SQDR,\$OPRRE ARITHM. ASSIST	GP99137 01070000
				253 *FTP*	OPCODE B245,SQER,\$OPRRE ARITHM. ASSIST	GP99137 01080000
				254 *380*	OPCODE B249,EREG,\$OPRRE,MASK=0000FF00	GP10018 01090000
				255 *380*	OPCODE B24A,ESTA,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01100000
				256 *380*	OPCODE B24D,CPYA,\$OPRRE,MASK=0000FF00	GP10018 01110000
				257 *380*	OPCODE B24E,SAR,\$OPRRE,MASK=0000FF00	GP10018 01120000
				258 *380*	OPCODE B24F,EAR,\$OPRRE,MASK=0000FF00	GP10018 01130000
				259 *380*	OPCODE B252,MSR,\$OPRRE,MASK=0000FF00	GP10018 01140000
				260 *380*	OPCODE B257,CUSE,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 01150000
				261 *380*	OPCODE B25D,CLST,\$OPRRE,FLAGS=\$OPCCC,MASK=0000FF00	GP10018 01160000
				262 *380*	OPCODE B25E,SRST,\$OPRRE,FLAGS=\$OPCCL,MASK=0000FF00	GP10018 01170000
				263	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	01180000
000B98	C3E2404040400D35			264+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000BA0	0000000010000			265+	DC XL6'000000010000'	00950000
				266	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC,MASK=00000001	01190000
000BA6	C3C4E24040400D35			267+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000BAE	0000000010000			268+	DC XL6'000000010000'	00950000
				269	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC	01200000
000BB4	C3D3D44040400E34			270+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				271	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF	01210000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000BBC	E2E3C3D440400E30			272+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)	00910000
				273	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA	01220000
000BC4	C9C3D44040400E38			274+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				275	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	01230000
000BCC	D4E5D54040400F30			276+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				277	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	01240000
000BD4	D4E5C34040400F30			278+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				279	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	01250000
000BDC	D4E5E94040400F30			280+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				281	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01260000
000BE4	D5C3404040400F32			282+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				283	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	01270000
000BEC	C3D3C34040400F34			284+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				285	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01280000
000BF4	D6C3404040400F32			286+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				287	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01290000
000BFC	E7C3404040400F32			288+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				289	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	01300000
000C04	E3D9404040400F30			290+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				291	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01310000
000C0C	E3D9E34040400F38			292+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				293	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01320000
000C14	C5C4404040400F38			294+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				295	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 01330000
000C1C	C5C4D4D240400F38			296+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				297 *380*	OPCODE E8,MVCIN,\$OPSS1,FLAGS=\$OPREF	01340000
				298 *380*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	01350000
				299	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	01360000
000C24	D4E5D64040401030			300+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				301	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	01370000
000C2C	D7C1C3D240401030			302+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				303	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	01380000
000C34	E4D5D7D240401030			304+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				305 *380*	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01390000
				306 *380*	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	01400000
				307 *380*	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01410000
				308 *380*	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01420000
				309 *380*	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	01430000
				310 *380*	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	01440000
				311 *	----- *	01450000
				312 *		* 01460000
				313 *	INDEX TO OPCODE TABLE	* 01470000
				314 *		* 01480000
				315 *	----- *	* 01490000
000C3C		00000		316	ORG DISOPAP2+0	01500000
000000				317 OPINDEX	DS 0A	01510000
				318	OPCODE TYPE=INDEX	01520000
000000	00000400			319+	DC A(MACH00)	01100000
000004	00000000			320+	DC A(0)	01100000
000008	00000000			321+	DC A(0)	01100000
00000C	00000000			322+	DC A(0)	01100000
000010	00000000			323+	DC A(0)	01100000
000014	00000408			324+	DC A(MACH05)	01100000
000018	0000041C			325+	DC A(MACH06)	01100000
00001C	00000430			326+	DC A(MACH07)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000020	00000000			327+	DC	A(0)	01100000
000024	00000000			328+	DC	A(0)	01100000
000028	00000438			329+	DC	A(MACH0A)	01100000
00002C	00000000			330+	DC	A(0)	01100000
000030	00000000			331+	DC	A(0)	01100000
000034	0000044C			332+	DC	A(MACH0D)	01100000
000038	00000454			333+	DC	A(MACH0E)	01100000
00003C	00000462			334+	DC	A(MACH0F)	01100000
000040	00000470			335+	DC	A(MACH10)	01100000
000044	00000478			336+	DC	A(MACH11)	01100000
000048	00000480			337+	DC	A(MACH12)	01100000
00004C	00000488			338+	DC	A(MACH13)	01100000
000050	00000490			339+	DC	A(MACH14)	01100000
000054	00000498			340+	DC	A(MACH15)	01100000
000058	000004A0			341+	DC	A(MACH16)	01100000
00005C	000004A8			342+	DC	A(MACH17)	01100000
000060	000004B0			343+	DC	A(MACH18)	01100000
000064	000004B8			344+	DC	A(MACH19)	01100000
000068	000004C0			345+	DC	A(MACH1A)	01100000
00006C	000004C8			346+	DC	A(MACH1B)	01100000
000070	000004D0			347+	DC	A(MACH1C)	01100000
000074	000004DE			348+	DC	A(MACH1D)	01100000
000078	000004EC			349+	DC	A(MACH1E)	01100000
00007C	000004F4			350+	DC	A(MACH1F)	01100000
000080	00000000			351+	DC	A(0)	01100000
000084	00000000			352+	DC	A(0)	01100000
000088	00000000			353+	DC	A(0)	01100000
00008C	00000000			354+	DC	A(0)	01100000
000090	00000000			355+	DC	A(0)	01100000
000094	00000000			356+	DC	A(0)	01100000
000098	00000000			357+	DC	A(0)	01100000
00009C	00000000			358+	DC	A(0)	01100000
0000A0	00000000			359+	DC	A(0)	01100000
0000A4	00000000			360+	DC	A(0)	01100000
0000A8	00000000			361+	DC	A(0)	01100000
0000AC	00000000			362+	DC	A(0)	01100000
0000B0	00000000			363+	DC	A(0)	01100000
0000B4	00000000			364+	DC	A(0)	01100000
0000B8	00000000			365+	DC	A(0)	01100000
0000BC	00000000			366+	DC	A(0)	01100000
0000C0	00000000			367+	DC	A(0)	01100000
0000C4	00000000			368+	DC	A(0)	01100000
0000C8	00000000			369+	DC	A(0)	01100000
0000CC	00000000			370+	DC	A(0)	01100000
0000D0	00000000			371+	DC	A(0)	01100000
0000D4	00000000			372+	DC	A(0)	01100000
0000D8	00000000			373+	DC	A(0)	01100000
0000DC	00000000			374+	DC	A(0)	01100000
0000E0	00000000			375+	DC	A(0)	01100000
0000E4	00000000			376+	DC	A(0)	01100000
0000E8	00000000			377+	DC	A(0)	01100000
0000EC	00000000			378+	DC	A(0)	01100000
0000F0	00000000			379+	DC	A(0)	01100000
0000F4	00000000			380+	DC	A(0)	01100000
0000F8	00000000			381+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0000FC	00000000			382+	DC A(0)	01100000
000100	000004FC			383+	DC A(MACH40)	01100000
000104	0000050A			384+	DC A(MACH41)	01100000
000108	00000512			385+	DC A(MACH42)	01100000
00010C	0000051A			386+	DC A(MACH43)	01100000
000110	00000522			387+	DC A(MACH44)	01100000
000114	00000530			388+	DC A(MACH45)	01100000
000118	0000054A			389+	DC A(MACH46)	01100000
00011C	00000564			390+	DC A(MACH47)	01100000
000120	00000572			391+	DC A(MACH48)	01100000
000124	00000580			392+	DC A(MACH49)	01100000
000128	0000058E			393+	DC A(MACH4A)	01100000
00012C	0000059C			394+	DC A(MACH4B)	01100000
000130	000005AA			395+	DC A(MACH4C)	01100000
000134	000005B8			396+	DC A(MACH4D)	01100000
000138	000005C6			397+	DC A(MACH4E)	01100000
00013C	000005D4			398+	DC A(MACH4F)	01100000
000140	000005E2			399+	DC A(MACH50)	01100000
000144	00000000			400+	DC A(0)	01100000
000148	00000000			401+	DC A(0)	01100000
00014C	00000000			402+	DC A(0)	01100000
000150	000005F0			403+	DC A(MACH54)	01100000
000154	000005FE			404+	DC A(MACH55)	01100000
000158	0000060C			405+	DC A(MACH56)	01100000
00015C	0000061A			406+	DC A(MACH57)	01100000
000160	00000628			407+	DC A(MACH58)	01100000
000164	00000636			408+	DC A(MACH59)	01100000
000168	00000644			409+	DC A(MACH5A)	01100000
00016C	00000652			410+	DC A(MACH5B)	01100000
000170	00000660			411+	DC A(MACH5C)	01100000
000174	0000066E			412+	DC A(MACH5D)	01100000
000178	0000067C			413+	DC A(MACH5E)	01100000
00017C	0000068A			414+	DC A(MACH5F)	01100000
000180	00000000			415+	DC A(0)	01100000
000184	00000000			416+	DC A(0)	01100000
000188	00000000			417+	DC A(0)	01100000
00018C	00000000			418+	DC A(0)	01100000
000190	00000000			419+	DC A(0)	01100000
000194	00000000			420+	DC A(0)	01100000
000198	00000000			421+	DC A(0)	01100000
00019C	00000000			422+	DC A(0)	01100000
0001A0	00000000			423+	DC A(0)	01100000
0001A4	00000000			424+	DC A(0)	01100000
0001A8	00000000			425+	DC A(0)	01100000
0001AC	00000000			426+	DC A(0)	01100000
0001B0	00000000			427+	DC A(0)	01100000
0001B4	00000000			428+	DC A(0)	01100000
0001B8	00000000			429+	DC A(0)	01100000
0001BC	00000000			430+	DC A(0)	01100000
0001C0	00000000			431+	DC A(0)	01100000
0001C4	00000000			432+	DC A(0)	01100000
0001C8	00000000			433+	DC A(0)	01100000
0001CC	00000000			434+	DC A(0)	01100000
0001D0	00000000			435+	DC A(0)	01100000
0001D4	00000000			436+	DC A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001D8	00000000			437+	DC	A(0)	01100000
0001DC	00000000			438+	DC	A(0)	01100000
0001E0	00000000			439+	DC	A(0)	01100000
0001E4	00000000			440+	DC	A(0)	01100000
0001E8	00000000			441+	DC	A(0)	01100000
0001EC	00000000			442+	DC	A(0)	01100000
0001F0	00000000			443+	DC	A(0)	01100000
0001F4	00000000			444+	DC	A(0)	01100000
0001F8	00000000			445+	DC	A(0)	01100000
0001FC	00000000			446+	DC	A(0)	01100000
000200	00000000			447+	DC	A(0)	01100000
000204	00000000			448+	DC	A(0)	01100000
000208	00000000			449+	DC	A(0)	01100000
00020C	00000000			450+	DC	A(0)	01100000
000210	00000000			451+	DC	A(0)	01100000
000214	00000000			452+	DC	A(0)	01100000
000218	00000698			453+	DC	A(MACH86)	01100000
00021C	000006A6			454+	DC	A(MACH87)	01100000
000220	000006B4			455+	DC	A(MACH88)	01100000
000224	000006C2			456+	DC	A(MACH89)	01100000
000228	000006D0			457+	DC	A(MACH8A)	01100000
00022C	000006DE			458+	DC	A(MACH8B)	01100000
000230	000006EC			459+	DC	A(MACH8C)	01100000
000234	000006FA			460+	DC	A(MACH8D)	01100000
000238	00000708			461+	DC	A(MACH8E)	01100000
00023C	00000716			462+	DC	A(MACH8F)	01100000
000240	00000724			463+	DC	A(MACH90)	01100000
000244	00000732			464+	DC	A(MACH91)	01100000
000248	0000073A			465+	DC	A(MACH92)	01100000
00024C	00000000			466+	DC	A(0)	01100000
000250	00000742			467+	DC	A(MACH94)	01100000
000254	0000074A			468+	DC	A(MACH95)	01100000
000258	00000752			469+	DC	A(MACH96)	01100000
00025C	0000075A			470+	DC	A(MACH97)	01100000
000260	00000762			471+	DC	A(MACH98)	01100000
000264	00000000			472+	DC	A(0)	01100000
000268	00000000			473+	DC	A(0)	01100000
00026C	00000000			474+	DC	A(0)	01100000
000270	00000000			475+	DC	A(0)	01100000
000274	00000000			476+	DC	A(0)	01100000
000278	00000000			477+	DC	A(0)	01100000
00027C	00000000			478+	DC	A(0)	01100000
000280	00000000			479+	DC	A(0)	01100000
000284	00000000			480+	DC	A(0)	01100000
000288	00000000			481+	DC	A(0)	01100000
00028C	00000000			482+	DC	A(0)	01100000
000290	00000000			483+	DC	A(0)	01100000
000294	00000000			484+	DC	A(0)	01100000
000298	00000000			485+	DC	A(0)	01100000
00029C	00000000			486+	DC	A(0)	01100000
0002A0	00000000			487+	DC	A(0)	01100000
0002A4	00000000			488+	DC	A(0)	01100000
0002A8	00000000			489+	DC	A(0)	01100000
0002AC	00000000			490+	DC	A(0)	01100000
0002B0	00000000			491+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0002B4	00000000			492+	DC A(0)	01100000
0002B8	00000000			493+	DC A(0)	01100000
0002BC	00000000			494+	DC A(0)	01100000
0002C0	00000000			495+	DC A(0)	01100000
0002C4	00000000			496+	DC A(0)	01100000
0002C8	80000770			497+	DC A(X'80000000'+OPTBB2)	01100000
0002CC	00000000			498+	DC A(0)	01100000
0002D0	00000000			499+	DC A(0)	01100000
0002D4	00000000			500+	DC A(0)	01100000
0002D8	00000000			501+	DC A(0)	01100000
0002DC	00000000			502+	DC A(0)	01100000
0002E0	00000000			503+	DC A(0)	01100000
0002E4	00000000			504+	DC A(0)	01100000
0002E8	00000B98			505+	DC A(MACHBA)	01100000
0002EC	00000BA6			506+	DC A(MACHBB)	01100000
0002F0	00000000			507+	DC A(0)	01100000
0002F4	00000BB4			508+	DC A(MACHBD)	01100000
0002F8	00000BBC			509+	DC A(MACHBE)	01100000
0002FC	00000BC4			510+	DC A(MACHBF)	01100000
000300	00000000			511+	DC A(0)	01100000
000304	00000000			512+	DC A(0)	01100000
000308	00000000			513+	DC A(0)	01100000
00030C	00000000			514+	DC A(0)	01100000
000310	00000000			515+	DC A(0)	01100000
000314	00000000			516+	DC A(0)	01100000
000318	00000000			517+	DC A(0)	01100000
00031C	00000000			518+	DC A(0)	01100000
000320	00000000			519+	DC A(0)	01100000
000324	00000000			520+	DC A(0)	01100000
000328	00000000			521+	DC A(0)	01100000
00032C	00000000			522+	DC A(0)	01100000
000330	00000000			523+	DC A(0)	01100000
000334	00000000			524+	DC A(0)	01100000
000338	00000000			525+	DC A(0)	01100000
00033C	00000000			526+	DC A(0)	01100000
000340	00000000			527+	DC A(0)	01100000
000344	00000BCC			528+	DC A(MACHD1)	01100000
000348	00000BD4			529+	DC A(MACHD2)	01100000
00034C	00000BDC			530+	DC A(MACHD3)	01100000
000350	00000BE4			531+	DC A(MACHD4)	01100000
000354	00000BEC			532+	DC A(MACHD5)	01100000
000358	00000BF4			533+	DC A(MACHD6)	01100000
00035C	00000BFC			534+	DC A(MACHD7)	01100000
000360	00000000			535+	DC A(0)	01100000
000364	00000000			536+	DC A(0)	01100000
000368	00000000			537+	DC A(0)	01100000
00036C	00000000			538+	DC A(0)	01100000
000370	00000C04			539+	DC A(MACHDC)	01100000
000374	00000C0C			540+	DC A(MACHDD)	01100000
000378	00000C14			541+	DC A(MACHDE)	01100000
00037C	00000C1C			542+	DC A(MACHDF)	01100000
000380	00000000			543+	DC A(0)	01100000
000384	00000000			544+	DC A(0)	01100000
000388	00000000			545+	DC A(0)	01100000
00038C	00000000			546+	DC A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000390	00000000			547+	DC A(0)	01100000
000394	00000000			548+	DC A(0)	01100000
000398	00000000			549+	DC A(0)	01100000
00039C	00000000			550+	DC A(0)	01100000
0003A0	00000000			551+	DC A(0)	01100000
0003A4	00000000			552+	DC A(0)	01100000
0003A8	00000000			553+	DC A(0)	01100000
0003AC	00000000			554+	DC A(0)	01100000
0003B0	00000000			555+	DC A(0)	01100000
0003B4	00000000			556+	DC A(0)	01100000
0003B8	00000000			557+	DC A(0)	01100000
0003BC	00000000			558+	DC A(0)	01100000
0003C0	00000000			559+	DC A(0)	01100000
0003C4	00000C24			560+	DC A(MACHF1)	01100000
0003C8	00000C2C			561+	DC A(MACHF2)	01100000
0003CC	00000C34			562+	DC A(MACHF3)	01100000
0003D0	00000000			563+	DC A(0)	01100000
0003D4	00000000			564+	DC A(0)	01100000
0003D8	00000000			565+	DC A(0)	01100000
0003DC	00000000			566+	DC A(0)	01100000
0003E0	00000000			567+	DC A(0)	01100000
0003E4	00000000			568+	DC A(0)	01100000
0003E8	00000000			569+	DC A(0)	01100000
0003EC	00000000			570+	DC A(0)	01100000
0003F0	00000000			571+	DC A(0)	01100000
0003F4	00000000			572+	DC A(0)	01100000
0003F8	00000000			573+	DC A(0)	01100000
0003FC	00000000			574+	DC A(0)	01100000
				575	COPY DISASMDA	01530000
				576	AIF ('&DAPRT' EQ 'ON').DA010	00010000
				577	PRINT OFF	00020000
				788	PRINT ON	02130000
				789 .DA020	ANOP	02140000
				790	*-----*	01540000
				791 *		* 01550000
				792 *	COMMON DATA MAP	* 01560000
				793 *		* 01570000
				794	*-----*	01580000
				795 DISASM00	DISASMCM TYPE=DSECT GP99137	01590000
				796+	PRINT OFF	00280000
				1427+	PRINT ON	06440000
				1428+*	*-----*	06460000
				1429+*		* 06470000
				1430+*	ABEND REASON CODES	* 06480000
				1431+*		* 06490000
				1432+*	*-----*	06500000
	00001	1433+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1434+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1435+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1436+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1437+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1440+R0	EQU	0		00070000
	00001	1441+R1	EQU	1		00080000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
				00002	1442+R2		EQU 2				00090000
				00003	1443+R3		EQU 3				00100000
				00004	1444+R4		EQU 4				00110000
				00005	1445+R5		EQU 5				00120000
				00006	1446+R6		EQU 6				00130000
				00007	1447+R7		EQU 7				00140000
				00008	1448+R8		EQU 8				00150000
				00009	1449+R9		EQU 9				00160000
				0000A	1450+R10		EQU 10				00170000
				0000B	1451+R11		EQU 11				00180000
				0000C	1452+R12		EQU 12				00190000
				0000D	1453+R13		EQU 13				00200000
				0000E	1454+R14		EQU 14				00210000
				0000F	1455+R15		EQU 15				00220000
000000					1457		END DISOPAP2				01600000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	0C	000000	
0001	0001	0C	000014	
0001	0001	0C	000018	
0001	0001	0C	00001C	
0001	0001	0C	000028	
0001	0001	0C	000034	
0001	0001	0C	000038	
0001	0001	0C	00003C	
0001	0001	0C	000040	
0001	0001	0C	000044	
0001	0001	0C	000048	
0001	0001	0C	00004C	
0001	0001	0C	000050	
0001	0001	0C	000054	
0001	0001	0C	000058	
0001	0001	0C	00005C	
0001	0001	0C	000060	
0001	0001	0C	000064	
0001	0001	0C	000068	
0001	0001	0C	00006C	
0001	0001	0C	000070	
0001	0001	0C	000074	
0001	0001	0C	000078	
0001	0001	0C	00007C	
0001	0001	0C	000100	
0001	0001	0C	000104	
0001	0001	0C	000108	
0001	0001	0C	00010C	
0001	0001	0C	000110	
0001	0001	0C	000114	
0001	0001	0C	000118	
0001	0001	0C	00011C	
0001	0001	0C	000120	
0001	0001	0C	000124	
0001	0001	0C	000128	
0001	0001	0C	00012C	
0001	0001	0C	000130	
0001	0001	0C	000134	
0001	0001	0C	000138	
0001	0001	0C	00013C	
0001	0001	0C	000140	
0001	0001	0C	000150	
0001	0001	0C	000154	
0001	0001	0C	000158	
0001	0001	0C	00015C	
0001	0001	0C	000160	
0001	0001	0C	000164	
0001	0001	0C	000168	
0001	0001	0C	00016C	
0001	0001	0C	000170	
0001	0001	0C	000174	
0001	0001	0C	000178	
0001	0001	0C	00017C	
0001	0001	0C	000218	
0001	0001	0C	00021C	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000220	
0001	0001	OC	000224	
0001	0001	OC	000228	
0001	0001	OC	00022C	
0001	0001	OC	000230	
0001	0001	OC	000234	
0001	0001	OC	000238	
0001	0001	OC	00023C	
0001	0001	OC	000240	
0001	0001	OC	000244	
0001	0001	OC	000248	
0001	0001	OC	000250	
0001	0001	OC	000254	
0001	0001	OC	000258	
0001	0001	OC	00025C	
0001	0001	OC	000260	
0001	0001	OC	0002C8	
0001	0001	OC	0002E8	
0001	0001	OC	0002EC	
0001	0001	OC	0002F4	
0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
0001	0001	OC	000344	
0001	0001	OC	000348	
0001	0001	OC	00034C	
0001	0001	OC	000350	
0001	0001	OC	000354	
0001	0001	OC	000358	
0001	0001	OC	00035C	
0001	0001	OC	000370	
0001	0001	OC	000374	
0001	0001	OC	000378	
0001	0001	OC	00037C	
0001	0001	OC	0003C4	
0001	0001	OC	0003C8	
0001	0001	OC	0003CC	
0001	0001	OC	000788	
0001	0001	OC	0007FC	
0001	0001	OC	000878	

SYMBOL	LEN	VALUE	DEFN	REFERENCES											ASM 0201 00.48 07/11/18				
\$OPCCA	00001	00000008	01419	00056	00059	00062	00064	00066	00068	00082	00084	00092	00094	00125	00128	00164	00167	00176	
				00179	00195	00198	00207	00210	00274	00292	00294	00296							
\$OPCCC	00001	00000004	01420	00072	00080	00122	00149	00161	00222	00264	00267	00270	00284						
\$OPCCL	00001	00000002	01421	00070	00074	00076	00146	00152	00155	00216	00220	00224	00226	00237	00249	00282	00286	00288	
\$OPEXT	00001	00000080	01415	00047	00116														
\$OPMASK	00001	00000001	01422	00056	00059	00086	00089	00096	00105	00108	00112	00116	00119	00122	00125	00128	00131	00134	
				00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	00173	00176	00179	
				00183	00186	00189	00192	00195	00198	00201	00204	00207	00210	00213	00228	00237	00249	00264	
				00267	01078														
\$OPNCMNT	00001	00000020	01417	00039	00047	00054	00056	00059	00062	00064	00066	00068	00070	00072	00074	00076	00078	00080	
				00082	00084	00086	00089	00092	00094	00096	00099	00101	00103	00105	00116	00119	00122	00125	
				00128	00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	
				00173	00176	00179	00183	00186	00189	00192	00195	00198	00201	00204	00207	00210	00213	00216	
				00218	00220	00222	00224	00226	00228	00237	00243	00249	00264	00267	00270	00272	00274	00276	
				00278	00280	00282	00284	00286	00288	00290	00292	00294	00296	00300	00302	00304			
\$OPREF	00001	00000010	01418	00096	00099	00101	00103	00105	00108	00112	00116	00119	00122	00125	00128	00131	00134	00137	
				00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	00173	00176	00179	00183	
				00186	00213	00216	00218	00220	00222	00224	00226	00228	00237	00264	00267	00270	00272	00274	
				00276	00278	00280	00282	00284	00286	00288	00290	00292	00294	00296	00300	00302	00304		
\$OPRRE	00001	00000006	01397	00243	00249														
\$OPRR1	00001	00000001	01392	00041	00044	00054	00056	00059	00062	00064	00066	00068	00070	00072	00074	00076	00078	00080	
				00082	00084	00086	00089	00092	00094										
\$OPRR2	00001	00000002	01393	00049															
\$OPRR3	00001	00000003	01394	00047															
\$OPRS1	00001	0000000C	01404	00189	00192	00195	00198	00201	00204	00207	00210								
\$OPRS2	00001	0000000D	01405	00183	00186	00213	00228	00264	00267										
\$OPRS3	00001	0000000E	01406	00270	00272	00274													
\$OPRX	00001	00000007	01398	00096	00099	00101	00103	00105	00108	00112	00116	00119	00122	00125	00128	00131	00134	00137	
				00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	00173	00176	00179		
\$OPS	00001	00000009	01400	00237															
\$OPSI	00001	0000000A	01401	00216	00218	00220	00222	00224	00226										
\$OPSS1	00001	0000000F	01407	00276	00278	00280	00282	00284	00286	00288	00290	00292	00294	00296					
\$OPSS2	00001	00000010	01408	00300	00302	00304													
\$OPSVC	00001	00000040	01416	00049															
\$PFTRC	00001	00000001	00930	01165	01167														
\$PRTPRT	00001	000000D7	01289	01275	01296														
\$PRTSUBH	00001	000000E2	01288	01171															
AOP	00004	000000AC	00836	01059															
APR	00004	000000B8	00838	01278															
APU	00004	000000BC	00839	01299															
BASEDSCT	00001	00000000	00595	00603															
BLKTRT	00001	00000A68	01336	01337	01339	01341	01343	01345	01347	01349	01351	01353	01355	01357	01359	01361			
COMMCLR	00004	000000F8	00865	00885	00889														
COMMWDWRD	00008	00000000	00803	01190	01191														
COMMFILL	00001	00000161	00906	01235															
COMMHXCH	00016	00000275	00955	00956															
COMMHXTR	00016	00000185	00956	01182	01185	01188	01192												
COMMNPRT	00001	000003C7	01011	01012	01014	01016	01018	01020	01022	01024	01026	01028	01030	01032	01034	01036			
COMMPDOL	00001	00000162	00907	01227	01242														
COMMPRT	00001	000002C7	00982	00983	00985	00987	00989	00991	00993	00995	00997	00999	01001	01003	01005				
COMMSUBH	00133	0000016D	00950	01168															
COMMSUBL	00002	00000154	00900	01169	01169	01170													
DATADSCT	00001	00000000	00610	00631															
DISASM00	00001	00000000	00797	00810	01049	01126	01163	01224	01260										
DISOPAP2	00001	00000000	00033	00034	00316	01457													

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
DSCTDSCT	00001	00000000	00638	00644	
ESDDATA	00001	00000000	00651	00674	
ESDNAME	00008	0000000E	00655	00670	
EXGETOPC	00006	00000554	01090	01083	
GETOPEXT	00004	00000546	01086	01079	
GETOPLN	00001	0000055A	01091	01057	
GETOPNOT	00004	0000054E	01088	01062 01072 01077 01085	
GETOPTMK	00004	00000526	01078	01063	
GETOPWRK	00006	0000055E	01092	01082 01082 01084 01090	
HEXTRT	00001	00000868	01318	01319 01321 01323 01325 01327	
INTTRT	00001	00000968	01329	01330 01332 01334	
LABLDSCT	00001	00000000	00681	00697	
MACHBA	00006	00000B98	00264	00505	
MACHBB	00006	00000BA6	00267	00506	
MACHBD	00006	00000BB4	00270	00508	
MACHBE	00006	00000BBC	00272	00509	
MACHBF	00006	00000BC4	00274	00510	
MACHDC	00006	00000C04	00290	00539	
MACHDD	00006	00000C0C	00292	00540	
MACHDE	00006	00000C14	00294	00541	
MACHDF	00006	00000C1C	00296	00542	
MACHD1	00006	00000BCC	00276	00528	
MACHD2	00006	00000BD4	00278	00529	
MACHD3	00006	00000BDC	00280	00530	
MACHD4	00006	00000BE4	00282	00531	
MACHD5	00006	00000BEC	00284	00532	
MACHD6	00006	00000BF4	00286	00533	
MACHD7	00006	00000BFC	00288	00534	
MACHF1	00006	00000C24	00300	00560	
MACHF2	00006	00000C2C	00302	00561	
MACHF3	00006	00000C34	00304	00562	
MACH0A	00006	00000438	00049	00329	
MACH0D	00006	0000044C	00054	00332	
MACH0E	00006	00000454	00056	00333	
MACH0F	00006	00000462	00059	00334	
MACH00	00006	00000400	00039	00319	
MACH05	00006	00000408	00041	00324	
MACH06	00006	0000041C	00044	00325	
MACH07	00006	00000430	00047	00326	
MACH1A	00006	000004C0	00082	00345	
MACH1B	00006	000004C8	00084	00346	
MACH1C	00006	000004D0	00086	00347	
MACH1D	00006	000004DE	00089	00348	
MACH1E	00006	000004EC	00092	00349	
MACH1F	00006	000004F4	00094	00350	
MACH10	00006	00000470	00062	00335	
MACH11	00006	00000478	00064	00336	
MACH12	00006	00000480	00066	00337	
MACH13	00006	00000488	00068	00338	
MACH14	00006	00000490	00070	00339	
MACH15	00006	00000498	00072	00340	
MACH16	00006	000004A0	00074	00341	
MACH17	00006	000004A8	00076	00342	
MACH18	00006	000004B0	00078	00343	
MACH19	00006	000004B8	00080	00344	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH4A	00006	0000058E	00125	00393	
MACH4B	00006	0000059C	00128	00394	
MACH4C	00006	000005AA	00131	00395	
MACH4D	00006	000005B8	00134	00396	
MACH4E	00006	000005C6	00137	00397	
MACH4F	00006	000005D4	00140	00398	
MACH40	00006	000004FC	00096	00383	
MACH41	00006	0000050A	00099	00384	
MACH42	00006	00000512	00101	00385	
MACH43	00006	0000051A	00103	00386	
MACH44	00006	00000522	00105	00387	
MACH45	00006	00000530	00108	00388	
MACH46	00006	0000054A	00112	00389	
MACH47	00006	00000564	00116	00390	
MACH48	00006	00000572	00119	00391	
MACH49	00006	00000580	00122	00392	
MACH5A	00006	00000644	00164	00409	
MACH5B	00006	00000652	00167	00410	
MACH5C	00006	00000660	00170	00411	
MACH5D	00006	0000066E	00173	00412	
MACH5E	00006	0000067C	00176	00413	
MACH5F	00006	0000068A	00179	00414	
MACH50	00006	000005E2	00143	00399	
MACH54	00006	000005F0	00146	00403	
MACH55	00006	000005FE	00149	00404	
MACH56	00006	0000060C	00152	00405	
MACH57	00006	0000061A	00155	00406	
MACH58	00006	00000628	00158	00407	
MACH59	00006	00000636	00161	00408	
MACH8A	00006	000006D0	00195	00457	
MACH8B	00006	000006DE	00198	00458	
MACH8C	00006	000006EC	00201	00459	
MACH8D	00006	000006FA	00204	00460	
MACH8E	00006	00000708	00207	00461	
MACH8F	00006	00000716	00210	00462	
MACH86	00006	00000698	00183	00453	
MACH87	00006	000006A6	00186	00454	
MACH88	00006	000006B4	00189	00455	
MACH89	00006	000006C2	00192	00456	
MACH90	00006	00000724	00213	00463	
MACH91	00006	00000732	00216	00464	
MACH92	00006	0000073A	00218	00465	
MACH94	00006	00000742	00220	00467	
MACH95	00006	0000074A	00222	00468	
MACH96	00006	00000752	00224	00469	
MACH97	00006	0000075A	00226	00470	
MACH98	00006	00000762	00228	00471	
MAINRSV	00004	00000858	01316	01225	01231 01233 01237 01240 01246
NBLTRT	00001	00000B68	01363	01364	01366
OPDSECT	00001	00000000	01385	01060	01423
OPFLAGS	00001	00000007	01414	01078	
OPFLAG1	00001	00000001	01387	01067	
OPFLAG2	00001	00000002	01388	01069	
OPFLAG3	00001	00000003	01389	01071	
OPMASK	00006	00000008	01424	01084	

SYMBOL	LEN	VALUE	DEFN	REFERENCES																ASM 0201 00.48 07/11/18				
OPMNEM	00006	00000000	01386	01387	01388	01389																		
OPTBB2	00001	00000770	00231	00234	00240	00246	00497																	
OP2B205	00006	00000B74	00237	00235																				
OP2B222	00006	00000B82	00243	00241																				
OP2B241	00006	00000B8A	00249	00247																				
PRINTDAT	00004	000006F0	01276	01172																				
PRINTFG1	00001	00000165	00923	01165	01167																			
PRINTMVR	00006	000006E6	01273	01270																				
PRINTREC	00004	000006EC	01275	01194	01272																			
PRINTREX	00004	000006FE	01280	01264																				
PRINTRSV	00004	00000848	01315	01261	01271	01276	01280	01297	01301															
PRTBLOK	00001	0000070E	01285	01277																				
PRTCC	00001	0000070F	01292	01281																				
PRTCMD	00001	0000070E	01286	01171	01275	01296																		
PRTDATA	00132	00000710	01293	01179	01180	01181	01182	01183	01184	01185	01186	01187	01188	01189	01191	01192	01193	01265						
				01273	01282	01282																		
PUNBLOK	00001	000007B2	01304	01298																				
PUNDATA	00080	000007B4	01310	01295																				
REFDSCT	00001	00000000	00704	00714																				
RLDDATA	00001	00000000	00721	00739																				
R0	00001	00000000	01440	01050	01056	01056	01057	01080	01128	01147	01164	01203	01227	01232	01236	01242	01265	01266						
				01268	01271																			
R1	00001	00000001	01441	01052	01066	01086	01088	01090	01127	01129	01133	01133	01134	01136	01138	01225	01231	01232						
				01233	01237	01261	01263	01273	01276	01277	01280	01295	01297	01298	01301									
R11	00001	0000000B	01451	01049	01126	01163	01224	01260																
R12	00001	0000000C	01452	01140																				
R14	00001	0000000E	01454	01053	01054	01055	01057	01064	01064	01066	01068	01070	01071	01073	01073	01074	01075	01086						
				01087	01089	01141	01148	01172	01194	01204	01225	01236	01237	01238	01240	01246	01247	01261						
				01271	01276	01279	01280	01283	01297	01300	01301	01302												
R15	00001	0000000F	01455	01050	01051	01051	01052	01054	01058	01059	01060	01061	01061	01075	01076	01076	01088	01128						
				01147	01164	01203	01234	01234	01235	01240	01246	01262	01262	01263	01266	01268	01269	01270						
				01278	01279	01299	01300																	
R2	00001	00000002	01442	01065	01065	01067	01068	01069	01070															
R4	00001	00000004	01444	01080	01081	01083																		
R5	00001	00000005	01445	01173	01176	01196	01196	01197	01199	01201														
SYMDATA	00001	00000000	00746	00751																				
TPODA1A	00008	00000017	01208	01181	01181	01182	01182	01183	01183															
TPODA1B	00008	00000020	01209	01184	01184	01185	01185	01186	01186															
TPODA2A	00008	0000002A	01210	01187	01187	01188	01188	01189	01189															
TPODA2B	00008	00000033	01211	01191	01191	01192	01192	01193	01193															
TPOMOD	00008	00000003	01206	01179	01179																			
TPOTID	00008	0000000D	01207	01180	01180																			
TRACEPEN	00004	00000662	01203	01166	01175	01198																		
TRACEPIN	00004	00000646	01196	01174	01178																			
TRACEPPR	00004	000005E2	01177	01200	01202																			
TRACESHD	00027	00000668	01212	01168	01168	01169																		
TRACE010	00002	00000580	01137	01135																				
TRACE020	00002	000005A8	01146	01130																				
TRCESAVE	00004	00000808	01314	01050	01086	01088	01128	01147	01164	01203														
TRCURR	00004	000000D4	00851	01129	01138	01173	01197																	
TRDATA1	00008	000000E0	00854	01142	01144	01144																		
TRDATA2	00008	000000E8	00855	01143	01145	01145																		
TREDATA1	00008	00000010	01376	01142	01181	01184																		
TREDATA2	00008	00000018	01377	01143	01187	01190																		
TREID	00008	00000008	01375	01141	01180																			

SYMBOL	LEN	VALUE	DEFN	REFERENCES			ASM 0201 00.48 07/11/18		
TREMOD	00008	00000000	01374	01140	01177	01179			
TRETRY	00001	00000000	01373	01127	01176	01195	01195	01378	
TRETRYL	00001	00000020	01378	01133	01195	01196			
TRLAST	00004	000000CC	00849	01134	01199				
TR1ST	00004	000000C4	00847	01136	01201				
USNGDSCT	00001	00000000	00758	00772					
VERPSECT	00001	00000000	00779	00785					

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 160

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 73

TOTAL RECORDS PRINTED 997

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOPAP2 DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISOP36S	SD	0001	000000	000A9E		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		* 00030000
				4 *	MODULE NAME: DISOP36S (MODIFIED ALIAS OF 370 TABLE FOR DEFAULT)	* 00040000
				5 *		* 00050000
				6 *	FUNCTION:	* 00060000
				7 *	DEFINE VALID MACHINE OPCODES FOR SYSTEM 360	* 00070000
				8 *		* 00080000
				9 *	-----*	00090000
				10	COPY DISASMGB	00100000
				11 *	-----*	00010000
				12 *		* 00020000
				13 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	* 00030000
				14 *		* 00040000
				15 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	* 00050000
				16 *		* 00060000
				17 *	-----*	00070000
				18	GBLA &TRNBRG,&MAXL,&MINL	00080000
				19	GBLB &MVSXA ON IF MVS/XA OR LATER	GP04234 00090000
				20	GBLC &TROPT,&DAPRT,&COMPRT	00100000
				21	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				22 DISOP36S	CSECT , DEFAULT TABLE	GP10015 00110000
000000		00400		23	ORG DISOP36S+(256*4)	00120000
				24 *	-----*	00130000
				25 *	OPCODE TABLE FOR S/360 (WITH SSM AND xIO)	* 00140000
				26 *	-----*	00150000
				27	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00160000
000400	C4C3404040400020			28+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				29	OPCODE 04,SPM,\$OPRR4,MASK=000F	GP10018 00170000
000408	E2D7D44040400421			30+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000410	000F00000000			31+	DC XL6'000F00000000'	00950000
				32	OPCODE 05,BALR,\$OPRR1,'CALL'	00180000
000416	C2C1D3D940400100			33+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
00041E	C3C1D3D340404040			34+	DC CL12'CALL'	00980000
				35	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00190000
00042A	C2C3E3D940400100			36+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000432	D3D6D6D740404040			37+	DC CL12'LOOP'	00980000
				38	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00200000
00043E	C2C3D940404003A0			39+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				40	OPCODE 08,SSK,\$OPRR1	00210000
000446	E2E2D24040400120			41+MACH08	DC CL6'SSK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				42	OPCODE 09,ISK,\$OPRR1	00220000
00044E	C9E2D24040400120			43+MACH09	DC CL6'ISK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				44	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OP SVC	GP10035 00230000
000456	E2E5C34040400240			45+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OP SVC)	00910000
00045E	E2E5C34040404040			46+	DC CL12'SVC'	00980000
				47	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00240000
00046A	D3D7D94040400128			48+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				49	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00250000
000472	D3D5D94040400128			50+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				51	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00260000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00047A	D3E3D94040400128			52+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				53	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00270000
000482	D3C3D94040400128			54+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				55	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00280000
00048A	D5D9404040400122			56+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				57	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00290000
000492	C3D3D94040400124			58+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				59	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00300000
00049A	D6D9404040400122			60+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				61	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00310000
0004A2	E7D9404040400122			62+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				63	OPCODE 18,LR,\$OPRR1	00320000
0004AA	D3D9404040400120			64+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				65	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00330000
0004B2	C3D9404040400124			66+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				67	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00340000
0004BA	C1D9404040400128			68+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				69	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00350000
0004C2	E2D9404040400128			70+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				71	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00360000
0004CA	D4D9404040400121			72+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004D2	0010000000000			73+	DC XL6'001000000000'	00950000
				74	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00370000
0004D8	C4D9404040400121			75+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004E0	0010000000000			76+	DC XL6'001000000000'	00950000
				77	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00380000
0004E6	C1D3D94040400128			78+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				79	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00390000
0004EE	E2D3D94040400128			80+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				81	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00400000
0004F6	D3D7C4D940400129			82+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0004FE	0099000000000			83+	DC XL6'009900000000'	00950000
				84	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00410000
000504	D3D5C4D940400129			85+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00050C	0099000000000			86+	DC XL6'009900000000'	00950000
				87	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00420000
000512	D3E3C4D940400129			88+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00051A	0099000000000			89+	DC XL6'009900000000'	00950000
				90	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00430000
000520	D3C3C4D940400129			91+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000528	0099000000000			92+	DC XL6'009900000000'	00950000
				93	OPCODE 24,HDR,\$OPRR1,MASK=0099	GP10018 00440000
00052E	C8C4D94040400121			94+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000536	0099000000000			95+	DC XL6'009900000000'	00950000
				96	OPCODE 25,LRDR,\$OPRR1,MASK=0099	GP10018 00450000
00053C	D3D9C4D940400121			97+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000544	0099000000000			98+	DC XL6'009900000000'	00950000
				99	OPCODE 26,MXR,\$OPRR1,MASK=0099	GP10018 00460000
00054A	D4E7D94040400121			100+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000552	0099000000000			101+	DC XL6'009900000000'	00950000
				102	OPCODE 27,MXDR,\$OPRR1,MASK=0099	GP10018 00470000
000558	D4E7C4D940400121			103+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000560	0099000000000			104+	DC XL6'009900000000'	00950000
				105	OPCODE 28,LDR,\$OPRR1,MASK=0099	GP10018 00480000
000566	D3C4D94040400121			106+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00056E	009900000000			107+	DC XL6'009900000000'	00950000
				108	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC,MASK=0099	GP10018 00490000
000574	C3C4D94040400125			109+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
00057C	009900000000			110+	DC XL6'009900000000'	00950000
				111	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00500000
000582	C1C4D94040400129			112+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00058A	009900000000			113+	DC XL6'009900000000'	00950000
				114	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00510000
000590	E2C4D94040400129			115+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000598	009900000000			116+	DC XL6'009900000000'	00950000
				117	OPCODE 2C,MDR,\$OPRR1,MASK=0099	GP10018 00520000
00059E	D4C4D94040400121			118+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005A6	009900000000			119+	DC XL6'009900000000'	00950000
				120	OPCODE 2D,DDR,\$OPRR1,MASK=0099	GP10018 00530000
0005AC	C4C4D94040400121			121+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005B4	009900000000			122+	DC XL6'009900000000'	00950000
				123	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00540000
0005BA	C1E6D94040400129			124+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005C2	009900000000			125+	DC XL6'009900000000'	00950000
				126	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00550000
0005C8	E2E6D94040400129			127+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005D0	009900000000			128+	DC XL6'009900000000'	00950000
				129	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00560000
0005D6	D3D7C5D940400129			130+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005DE	009900000000			131+	DC XL6'009900000000'	00950000
				132	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00570000
0005E4	D3D5C5D940400129			133+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005EC	009900000000			134+	DC XL6'009900000000'	00950000
				135	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00580000
0005F2	D3E3C5D940400129			136+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005FA	009900000000			137+	DC XL6'009900000000'	00950000
				138	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00590000
000600	D3C3C5D940400129			139+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000608	009900000000			140+	DC XL6'009900000000'	00950000
				141	OPCODE 34,HER,\$OPRR1,MASK=0099	GP10018 00600000
00060E	C8C5D94040400121			142+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000616	009900000000			143+	DC XL6'009900000000'	00950000
				144	OPCODE 35,LRER,\$OPRR1,MASK=0099	GP10018 00610000
00061C	D3D9C5D940400121			145+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000624	009900000000			146+	DC XL6'009900000000'	00950000
				147	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00620000
00062A	C1E7D94040400129			148+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000632	009900000000			149+	DC XL6'009900000000'	00950000
				150	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00630000
000638	E2E7D94040400129			151+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000640	009900000000			152+	DC XL6'009900000000'	00950000
				153	OPCODE 38,LER,\$OPRR1,MASK=0099	GP10018 00640000
000646	D3C5D94040400121			154+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00064E	009900000000			155+	DC XL6'009900000000'	00950000
				156	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00650000
000654	C3C5D94040400129			157+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00065C	009900000000			158+	DC XL6'009900000000'	00950000
				159	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00660000
000662	C1C5D94040400129			160+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00066A	009900000000			161+	DC XL6'009900000000'	00950000

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				162	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00670000
000670	E2C5D94040400129			163+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000678	009900000000			164+	DC XL6'009900000000'	00950000
				165	OPCODE 3C,MER,\$OPRR1,MASK=0099	GP10018 00680000
00067E	D4C5D94040400121			166+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000686	009900000000			167+	DC XL6'009900000000'	00950000
				168	OPCODE 3D,DER,\$OPRR1,MASK=0099	GP10018 00690000
00068C	C4C5D94040400121			169+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000694	009900000000			170+	DC XL6'009900000000'	00950000
				171	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00700000
00069A	C1E4D94040400129			172+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006A2	009900000000			173+	DC XL6'009900000000'	00950000
				174	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00710000
0006A8	E2E4D94040400129			175+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006B0	009900000000			176+	DC XL6'009900000000'	00950000
				177	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00720000
0006B6	E2E3C84040400730			178+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				179	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00730000
0006BE	D3C1404040400730			180+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				181	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00740000
0006C6	E2E3C34040400730			182+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				183	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00750000
0006CE	C9C3404040400730			184+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				185	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00760000
0006D6	C5E7404040400730			186+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				187	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00770000
0006DE	C2C1D34040400710			188+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
0006E6	C3C1D3D340404040			189+	DC CL12'CALL'	00980000
				190	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00780000
0006F2	C2C3E34040400710			191+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
0006FA	D3D6D6D740404040			192+	DC CL12'LOOP'	00980000
				193	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00790000
000706	C2C34040404007B0			194+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				195	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00800000
00070E	D3C8404040400730			196+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				197	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00810000
000716	C3C8404040400734			198+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				199	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00820000
00071E	C1C8404040400738			200+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				201	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA	00830000
000726	E2C8404040400738			202+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				203	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF	00840000
00072E	D4C8404040400730			204+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				205	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF	00850000
000736	C3E5C44040400730			206+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				207	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF	00860000
00073E	C3E5C24040400730			208+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				209	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF	00870000
000746	E2E3404040400730			210+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				211	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL	00880000
00074E	D540404040400732			212+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				213	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00890000
000756	C3D3404040400734			214+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				215	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL	00900000
00075E	D640404040400732			216+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				217	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL		00910000
000766	E740404040400732			218+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				219	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF		00920000
00076E	D340404040400730			220+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				221	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC		00930000
000776	C340404040400734			222+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				223	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00940000
00077E	C140404040400738			224+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				225	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00950000
000786	E240404040400738			226+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				227	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072	00960000
00078E	D440404040400731			228+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
000796	0010000000000			229+	DC XL6'001000000000'		00950000
				230	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072	00970000
00079C	C440404040400731			231+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007A4	0010000000000			232+	DC XL6'001000000000'		00950000
				233	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00980000
0007AA	C1D3404040400738			234+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				235	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00990000
0007B2	E2D3404040400738			236+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				237	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01000000
0007BA	E2E3C44040400731			238+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007C2	0090000000000			239+	DC XL6'009000000000'		00950000
				240	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01010000
0007C8	D4E7C44040400731			241+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007D0	0090000000000			242+	DC XL6'009000000000'		00950000
				243	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01020000
0007D6	D3C4404040400731			244+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007DE	0090000000000			245+	DC XL6'009000000000'		00950000
				246	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018	01030000
0007E4	C3C4404040400735			247+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)		00910000
0007EC	0090000000000			248+	DC XL6'009000000000'		00950000
				249	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018	01040000
0007F2	C1C4404040400739			250+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
0007FA	0090000000000			251+	DC XL6'009000000000'		00950000
				252	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018	01050000
000800	E2C4404040400739			253+MACH6B	DC CL6'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000808	0090000000000			254+	DC XL6'009000000000'		00950000
				255	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01060000
00080E	D4C4404040400731			256+MACH6C	DC CL6'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
000816	0090000000000			257+	DC XL6'009000000000'		00950000
				258	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01070000
00081C	C4C4404040400731			259+MACH6D	DC CL6'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
000824	0090000000000			260+	DC XL6'009000000000'		00950000
				261	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01080000
00082A	C1E6404040400731			262+MACH6E	DC CL6'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
000832	0090000000000			263+	DC XL6'009000000000'		00950000
				264	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018	01090000
000838	E2E6404040400739			265+MACH6F	DC CL6'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000840	0090000000000			266+	DC XL6'009000000000'		00950000
				267	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01100000
000846	E2E3C54040400731			268+MACH70	DC CL6'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
00084E	0090000000000			269+	DC XL6'009000000000'		00950000
				270	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01110000
000854	D3C5404040400731			271+MACH78	DC CL6'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
00085C	009000000000			272+	DC XL6'009000000000'	00950000
				273	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01120000
000862	C3C5404040400735			274+MACH79	DC CL6'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
00086A	009000000000			275+	DC XL6'009000000000'	00950000
				276	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01130000
000870	C1C5404040400739			277+MACH7A	DC CL6'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000878	009000000000			278+	DC XL6'009000000000'	00950000
				279	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01140000
00087E	E2C5404040400739			280+MACH7B	DC CL6'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000886	009000000000			281+	DC XL6'009000000000'	00950000
				282	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01150000
00088C	D4C5404040400731			283+MACH7C	DC CL6'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000894	009000000000			284+	DC XL6'009000000000'	00950000
				285	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01160000
00089A	C4C5404040400731			286+MACH7D	DC CL6'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008A2	009000000000			287+	DC XL6'009000000000'	00950000
				288	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01170000
0008A8	C1E4404040400739			289+MACH7E	DC CL6'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008B0	009000000000			290+	DC XL6'009000000000'	00950000
				291	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01180000
0008B6	E2E4404040400739			292+MACH7F	DC CL6'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008BE	009000000000			293+	DC XL6'009000000000'	00950000
				294	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01190000
0008C4	E2E2D44040400931			295+MACH80	DC CL6'SSM',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008CC	00FF00000000			296+	DC XL6'00FF00000000'	00950000
				297	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01200000
0008D2	D3D7E2E640400931			298+MACH82	DC CL6'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008DA	00FF00000000			299+	DC XL6'00FF00000000'	00950000
				300	OPCODE 83,DIAG,\$OPRSI	01210000
0008E0	C4C9C1C740400B20			301+MACH83	DC CL6'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)	00910000
				302	OPCODE 84,WRD,\$OPSI	GP10018 01220000
0008E8	E6D9C44040400A20			303+MACH84	DC CL6'WRD',AL1(\$OPSI,0+\$OPNCMNT)	00910000
				304	OPCODE 85,RDD,\$OPSI	GP10018 01230000
0008F0	D9C4C44040400A20			305+MACH85	DC CL6'RDD',AL1(\$OPSI,0+\$OPNCMNT)	00910000
				306	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF	01240000
0008F8	C2E7C84040400D30			307+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				308	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF	01250000
000900	C2E7D3C540400D30			309+MACH87	DC CL6'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				310	OPCODE 88,SRL,\$OPRS1,MASK=000F0000	GP10018 01260000
000908	E2D9D34040400C21			311+MACH88	DC CL6'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000910	000F00000000			312+	DC XL6'000F00000000'	00950000
				313	OPCODE 89,SLL,\$OPRS1,MASK=000F0000	GP10018 01270000
000916	E2D3D34040400C21			314+MACH89	DC CL6'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
00091E	000F00000000			315+	DC XL6'000F00000000'	00950000
				316	OPCODE 8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01280000
000924	E2D9C14040400C29			317+MACH8A	DC CL6'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00092C	000F00000000			318+	DC XL6'000F00000000'	00950000
				319	OPCODE 8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01290000
000932	E2D3C14040400C29			320+MACH8B	DC CL6'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00093A	000F00000000			321+	DC XL6'000F00000000'	00950000
				322	OPCODE 8C,SRDL,\$OPRS1,MASK=000F0000	GP10018 01300000
000940	E2D9C4D340400C21			323+MACH8C	DC CL6'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000
000948	000F00000000			324+	DC XL6'000F00000000'	00950000
				325	OPCODE 8D,SLDL,\$OPRS1,MASK=000F0000	GP10018 01310000
00094E	E2D3C4D340400C21			326+MACH8D	DC CL6'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)	00910000

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000956	000F00000000			327+	DC XL6'000F00000000'	00950000
				328	OPCODE 8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01320000
00095C	E2D9C4C140400C29			329+MACH8E	DC CL6'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000964	000F00000000			330+	DC XL6'000F00000000'	00950000
				331	OPCODE 8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000	GP10018 01330000
00096A	E2D3C4C140400C29			332+MACH8F	DC CL6'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000972	000F00000000			333+	DC XL6'000F00000000'	00950000
				334	OPCODE 90,STM,\$OPRS2,FLAGS=\$OPREF	01340000
000978	E2E3D44040400D30			335+MACH90	DC CL6'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				336	OPCODE 91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01350000
000980	E3D4404040400A32			337+MACH91	DC CL6'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				338	OPCODE 92,MVI,\$OPSI,FLAGS=\$OPREF	01360000
000988	D4E5C94040400A30			339+MACH92	DC CL6'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)	00910000
				340	OPCODE 93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000	GP10018 01370000
000990	E3E2404040400939			341+MACH93	DC CL6'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000998	00FF00000000			342+	DC XL6'00FF00000000'	00950000
				343	OPCODE 94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01380000
00099E	D5C9404040400A32			344+MACH94	DC CL6'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				345	OPCODE 95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC	01390000
0009A6	C3D3C94040400A34			346+MACH95	DC CL6'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				347	OPCODE 96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01400000
0009AE	D6C9404040400A32			348+MACH96	DC CL6'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				349	OPCODE 97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL	01410000
0009B6	E7C9404040400A32			350+MACH97	DC CL6'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				351	OPCODE 98,LM,\$OPRS2,FLAGS=\$OPREF	01420000
0009BE	D3D4404040400D30			352+MACH98	DC CL6'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				353	OPCODE 9C,SIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01430000
0009C6	E2C9D64040400C33			354+MACH9C	DC CL6'SIO',AL1(\$OPRS1,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0009CE	00FF00000000			355+	DC XL6'00FF00000000'	00950000
				356	OPCODE 9D,TIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01440000
0009D4	E3C9D64040400C33			357+MACH9D	DC CL6'TIO',AL1(\$OPRS1,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0009DC	00FF00000000			358+	DC XL6'00FF00000000'	00950000
				359	OPCODE 9E,HIO,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01450000
0009E2	C8C9D64040400C33			360+MACH9E	DC CL6'HIO',AL1(\$OPRS1,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0009EA	00FF00000000			361+	DC XL6'00FF00000000'	00950000
				362	OPCODE 9F,TCH,\$OPRS1,FLAGS=\$OPREF+\$OPCCL,MASK=00FF0000	GP10018 01460000
0009F0	E3C3C84040400C33			363+MACH9F	DC CL6'TCH',AL1(\$OPRS1,\$OPREF+\$OPCCL+\$OPNCMNT+\$OPMASK)	00910000
0009F8	00FF00000000			364+	DC XL6'00FF00000000'	00950000
				365	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF	01470000
0009FE	D4E5D54040400F30			366+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				367	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF	01480000
000A06	D4E5C34040400F30			368+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				369	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF	01490000
000A0E	D4E5E94040400F30			370+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				371	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01500000
000A16	D5C3404040400F32			372+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				373	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC	01510000
000A1E	C3D3C34040400F34			374+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				375	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01520000
000A26	D6C3404040400F32			376+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				377	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL	01530000
000A2E	E7C3404040400F32			378+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				379	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF	01540000
000A36	E3D9404040400F30			380+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)	00910000
				381	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000A3E	E3D9E34040400F38			382+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				383	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	01560000
000A46	C5C4404040400F38			384+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				385	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181 01570000
000A4E	C5C4D4D240400F38			386+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				387	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	01580000
000A56	D4E5D64040401030			388+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				389	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	01590000
000A5E	D7C1C3D240401030			390+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				391	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	01600000
000A66	E4D5D7D240401030			392+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				393	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01610000
000A6E	E9C1D74040401038			394+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				395	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	01620000
000A76	C3D7404040401034			396+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				397	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01630000
000A7E	C1D7404040401038			398+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				399	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	01640000
000A86	E2D7404040401038			400+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				401	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	01650000
000A8E	D4D7404040401030			402+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				403	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	01660000
000A96	C4D7404040401030			404+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				405 *	----- *	01670000
				406 *		* 01680000
				407 *	INDEX TO OPCODE TABLE	* 01690000
				408 *		* 01700000
				409 *	----- *	* 01710000
000A9E		00000		410	ORG DISOP36S+0	01720000
000000				411 OPINDEX	DS 0A	01730000
				412	OPCODE TYPE=INDEX	01740000
000000	00000400			413+	DC A(MACH00)	01100000
000004	00000000			414+	DC A(0)	01100000
000008	00000000			415+	DC A(0)	01100000
00000C	00000000			416+	DC A(0)	01100000
000010	00000408			417+	DC A(MACH04)	01100000
000014	00000416			418+	DC A(MACH05)	01100000
000018	0000042A			419+	DC A(MACH06)	01100000
00001C	0000043E			420+	DC A(MACH07)	01100000
000020	00000446			421+	DC A(MACH08)	01100000
000024	0000044E			422+	DC A(MACH09)	01100000
000028	00000456			423+	DC A(MACH0A)	01100000
00002C	00000000			424+	DC A(0)	01100000
000030	00000000			425+	DC A(0)	01100000
000034	00000000			426+	DC A(0)	01100000
000038	00000000			427+	DC A(0)	01100000
00003C	00000000			428+	DC A(0)	01100000
000040	0000046A			429+	DC A(MACH10)	01100000
000044	00000472			430+	DC A(MACH11)	01100000
000048	0000047A			431+	DC A(MACH12)	01100000
00004C	00000482			432+	DC A(MACH13)	01100000
000050	0000048A			433+	DC A(MACH14)	01100000
000054	00000492			434+	DC A(MACH15)	01100000
000058	0000049A			435+	DC A(MACH16)	01100000
00005C	000004A2			436+	DC A(MACH17)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000060	000004AA			437+	DC	A(MACH18)	01100000
000064	000004B2			438+	DC	A(MACH19)	01100000
000068	000004BA			439+	DC	A(MACH1A)	01100000
00006C	000004C2			440+	DC	A(MACH1B)	01100000
000070	000004CA			441+	DC	A(MACH1C)	01100000
000074	000004D8			442+	DC	A(MACH1D)	01100000
000078	000004E6			443+	DC	A(MACH1E)	01100000
00007C	000004EE			444+	DC	A(MACH1F)	01100000
000080	000004F6			445+	DC	A(MACH20)	01100000
000084	00000504			446+	DC	A(MACH21)	01100000
000088	00000512			447+	DC	A(MACH22)	01100000
00008C	00000520			448+	DC	A(MACH23)	01100000
000090	0000052E			449+	DC	A(MACH24)	01100000
000094	0000053C			450+	DC	A(MACH25)	01100000
000098	0000054A			451+	DC	A(MACH26)	01100000
00009C	00000558			452+	DC	A(MACH27)	01100000
0000A0	00000566			453+	DC	A(MACH28)	01100000
0000A4	00000574			454+	DC	A(MACH29)	01100000
0000A8	00000582			455+	DC	A(MACH2A)	01100000
0000AC	00000590			456+	DC	A(MACH2B)	01100000
0000B0	0000059E			457+	DC	A(MACH2C)	01100000
0000B4	000005AC			458+	DC	A(MACH2D)	01100000
0000B8	000005BA			459+	DC	A(MACH2E)	01100000
0000BC	000005C8			460+	DC	A(MACH2F)	01100000
0000C0	000005D6			461+	DC	A(MACH30)	01100000
0000C4	000005E4			462+	DC	A(MACH31)	01100000
0000C8	000005F2			463+	DC	A(MACH32)	01100000
0000CC	00000600			464+	DC	A(MACH33)	01100000
0000D0	0000060E			465+	DC	A(MACH34)	01100000
0000D4	0000061C			466+	DC	A(MACH35)	01100000
0000D8	0000062A			467+	DC	A(MACH36)	01100000
0000DC	00000638			468+	DC	A(MACH37)	01100000
0000E0	00000646			469+	DC	A(MACH38)	01100000
0000E4	00000654			470+	DC	A(MACH39)	01100000
0000E8	00000662			471+	DC	A(MACH3A)	01100000
0000EC	00000670			472+	DC	A(MACH3B)	01100000
0000F0	0000067E			473+	DC	A(MACH3C)	01100000
0000F4	0000068C			474+	DC	A(MACH3D)	01100000
0000F8	0000069A			475+	DC	A(MACH3E)	01100000
0000FC	000006A8			476+	DC	A(MACH3F)	01100000
000100	000006B6			477+	DC	A(MACH40)	01100000
000104	000006BE			478+	DC	A(MACH41)	01100000
000108	000006C6			479+	DC	A(MACH42)	01100000
00010C	000006CE			480+	DC	A(MACH43)	01100000
000110	000006D6			481+	DC	A(MACH44)	01100000
000114	000006DE			482+	DC	A(MACH45)	01100000
000118	000006F2			483+	DC	A(MACH46)	01100000
00011C	00000706			484+	DC	A(MACH47)	01100000
000120	0000070E			485+	DC	A(MACH48)	01100000
000124	00000716			486+	DC	A(MACH49)	01100000
000128	0000071E			487+	DC	A(MACH4A)	01100000
00012C	00000726			488+	DC	A(MACH4B)	01100000
000130	0000072E			489+	DC	A(MACH4C)	01100000
000134	00000000			490+	DC	A(0)	01100000
000138	00000736			491+	DC	A(MACH4E)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00013C	0000073E			492+	DC	A(MACH4F)	01100000
000140	00000746			493+	DC	A(MACH50)	01100000
000144	00000000			494+	DC	A(0)	01100000
000148	00000000			495+	DC	A(0)	01100000
00014C	00000000			496+	DC	A(0)	01100000
000150	0000074E			497+	DC	A(MACH54)	01100000
000154	00000756			498+	DC	A(MACH55)	01100000
000158	0000075E			499+	DC	A(MACH56)	01100000
00015C	00000766			500+	DC	A(MACH57)	01100000
000160	0000076E			501+	DC	A(MACH58)	01100000
000164	00000776			502+	DC	A(MACH59)	01100000
000168	0000077E			503+	DC	A(MACH5A)	01100000
00016C	00000786			504+	DC	A(MACH5B)	01100000
000170	0000078E			505+	DC	A(MACH5C)	01100000
000174	0000079C			506+	DC	A(MACH5D)	01100000
000178	000007AA			507+	DC	A(MACH5E)	01100000
00017C	000007B2			508+	DC	A(MACH5F)	01100000
000180	000007BA			509+	DC	A(MACH60)	01100000
000184	00000000			510+	DC	A(0)	01100000
000188	00000000			511+	DC	A(0)	01100000
00018C	00000000			512+	DC	A(0)	01100000
000190	00000000			513+	DC	A(0)	01100000
000194	00000000			514+	DC	A(0)	01100000
000198	00000000			515+	DC	A(0)	01100000
00019C	000007C8			516+	DC	A(MACH67)	01100000
0001A0	000007D6			517+	DC	A(MACH68)	01100000
0001A4	000007E4			518+	DC	A(MACH69)	01100000
0001A8	000007F2			519+	DC	A(MACH6A)	01100000
0001AC	00000800			520+	DC	A(MACH6B)	01100000
0001B0	0000080E			521+	DC	A(MACH6C)	01100000
0001B4	0000081C			522+	DC	A(MACH6D)	01100000
0001B8	0000082A			523+	DC	A(MACH6E)	01100000
0001BC	00000838			524+	DC	A(MACH6F)	01100000
0001C0	00000846			525+	DC	A(MACH70)	01100000
0001C4	00000000			526+	DC	A(0)	01100000
0001C8	00000000			527+	DC	A(0)	01100000
0001CC	00000000			528+	DC	A(0)	01100000
0001D0	00000000			529+	DC	A(0)	01100000
0001D4	00000000			530+	DC	A(0)	01100000
0001D8	00000000			531+	DC	A(0)	01100000
0001DC	00000000			532+	DC	A(0)	01100000
0001E0	00000854			533+	DC	A(MACH78)	01100000
0001E4	00000862			534+	DC	A(MACH79)	01100000
0001E8	00000870			535+	DC	A(MACH7A)	01100000
0001EC	0000087E			536+	DC	A(MACH7B)	01100000
0001F0	0000088C			537+	DC	A(MACH7C)	01100000
0001F4	0000089A			538+	DC	A(MACH7D)	01100000
0001F8	000008A8			539+	DC	A(MACH7E)	01100000
0001FC	000008B6			540+	DC	A(MACH7F)	01100000
000200	000008C4			541+	DC	A(MACH80)	01100000
000204	00000000			542+	DC	A(0)	01100000
000208	000008D2			543+	DC	A(MACH82)	01100000
00020C	000008E0			544+	DC	A(MACH83)	01100000
000210	000008E8			545+	DC	A(MACH84)	01100000
000214	000008F0			546+	DC	A(MACH85)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000218	000008F8			547+	DC	A(MACH86)	01100000
00021C	00000900			548+	DC	A(MACH87)	01100000
000220	00000908			549+	DC	A(MACH88)	01100000
000224	00000916			550+	DC	A(MACH89)	01100000
000228	00000924			551+	DC	A(MACH8A)	01100000
00022C	00000932			552+	DC	A(MACH8B)	01100000
000230	00000940			553+	DC	A(MACH8C)	01100000
000234	0000094E			554+	DC	A(MACH8D)	01100000
000238	0000095C			555+	DC	A(MACH8E)	01100000
00023C	0000096A			556+	DC	A(MACH8F)	01100000
000240	00000978			557+	DC	A(MACH90)	01100000
000244	00000980			558+	DC	A(MACH91)	01100000
000248	00000988			559+	DC	A(MACH92)	01100000
00024C	00000990			560+	DC	A(MACH93)	01100000
000250	0000099E			561+	DC	A(MACH94)	01100000
000254	000009A6			562+	DC	A(MACH95)	01100000
000258	000009AE			563+	DC	A(MACH96)	01100000
00025C	000009B6			564+	DC	A(MACH97)	01100000
000260	000009BE			565+	DC	A(MACH98)	01100000
000264	00000000			566+	DC	A(0)	01100000
000268	00000000			567+	DC	A(0)	01100000
00026C	00000000			568+	DC	A(0)	01100000
000270	000009C6			569+	DC	A(MACH9C)	01100000
000274	000009D4			570+	DC	A(MACH9D)	01100000
000278	000009E2			571+	DC	A(MACH9E)	01100000
00027C	000009F0			572+	DC	A(MACH9F)	01100000
000280	00000000			573+	DC	A(0)	01100000
000284	00000000			574+	DC	A(0)	01100000
000288	00000000			575+	DC	A(0)	01100000
00028C	00000000			576+	DC	A(0)	01100000
000290	00000000			577+	DC	A(0)	01100000
000294	00000000			578+	DC	A(0)	01100000
000298	00000000			579+	DC	A(0)	01100000
00029C	00000000			580+	DC	A(0)	01100000
0002A0	00000000			581+	DC	A(0)	01100000
0002A4	00000000			582+	DC	A(0)	01100000
0002A8	00000000			583+	DC	A(0)	01100000
0002AC	00000000			584+	DC	A(0)	01100000
0002B0	00000000			585+	DC	A(0)	01100000
0002B4	00000000			586+	DC	A(0)	01100000
0002B8	00000000			587+	DC	A(0)	01100000
0002BC	00000000			588+	DC	A(0)	01100000
0002C0	00000000			589+	DC	A(0)	01100000
0002C4	00000000			590+	DC	A(0)	01100000
0002C8	00000000			591+	DC	A(0)	01100000
0002CC	00000000			592+	DC	A(0)	01100000
0002D0	00000000			593+	DC	A(0)	01100000
0002D4	00000000			594+	DC	A(0)	01100000
0002D8	00000000			595+	DC	A(0)	01100000
0002DC	00000000			596+	DC	A(0)	01100000
0002E0	00000000			597+	DC	A(0)	01100000
0002E4	00000000			598+	DC	A(0)	01100000
0002E8	00000000			599+	DC	A(0)	01100000
0002EC	00000000			600+	DC	A(0)	01100000
0002F0	00000000			601+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002F4	00000000			602+	DC	A(0)	01100000
0002F8	00000000			603+	DC	A(0)	01100000
0002FC	00000000			604+	DC	A(0)	01100000
000300	00000000			605+	DC	A(0)	01100000
000304	00000000			606+	DC	A(0)	01100000
000308	00000000			607+	DC	A(0)	01100000
00030C	00000000			608+	DC	A(0)	01100000
000310	00000000			609+	DC	A(0)	01100000
000314	00000000			610+	DC	A(0)	01100000
000318	00000000			611+	DC	A(0)	01100000
00031C	00000000			612+	DC	A(0)	01100000
000320	00000000			613+	DC	A(0)	01100000
000324	00000000			614+	DC	A(0)	01100000
000328	00000000			615+	DC	A(0)	01100000
00032C	00000000			616+	DC	A(0)	01100000
000330	00000000			617+	DC	A(0)	01100000
000334	00000000			618+	DC	A(0)	01100000
000338	00000000			619+	DC	A(0)	01100000
00033C	00000000			620+	DC	A(0)	01100000
000340	00000000			621+	DC	A(0)	01100000
000344	000009FE			622+	DC	A(MACHD1)	01100000
000348	00000A06			623+	DC	A(MACHD2)	01100000
00034C	00000A0E			624+	DC	A(MACHD3)	01100000
000350	00000A16			625+	DC	A(MACHD4)	01100000
000354	00000A1E			626+	DC	A(MACHD5)	01100000
000358	00000A26			627+	DC	A(MACHD6)	01100000
00035C	00000A2E			628+	DC	A(MACHD7)	01100000
000360	00000000			629+	DC	A(0)	01100000
000364	00000000			630+	DC	A(0)	01100000
000368	00000000			631+	DC	A(0)	01100000
00036C	00000000			632+	DC	A(0)	01100000
000370	00000A36			633+	DC	A(MACHDC)	01100000
000374	00000A3E			634+	DC	A(MACHDD)	01100000
000378	00000A46			635+	DC	A(MACHDE)	01100000
00037C	00000A4E			636+	DC	A(MACHDF)	01100000
000380	00000000			637+	DC	A(0)	01100000
000384	00000000			638+	DC	A(0)	01100000
000388	00000000			639+	DC	A(0)	01100000
00038C	00000000			640+	DC	A(0)	01100000
000390	00000000			641+	DC	A(0)	01100000
000394	00000000			642+	DC	A(0)	01100000
000398	00000000			643+	DC	A(0)	01100000
00039C	00000000			644+	DC	A(0)	01100000
0003A0	00000000			645+	DC	A(0)	01100000
0003A4	00000000			646+	DC	A(0)	01100000
0003A8	00000000			647+	DC	A(0)	01100000
0003AC	00000000			648+	DC	A(0)	01100000
0003B0	00000000			649+	DC	A(0)	01100000
0003B4	00000000			650+	DC	A(0)	01100000
0003B8	00000000			651+	DC	A(0)	01100000
0003BC	00000000			652+	DC	A(0)	01100000
0003C0	00000000			653+	DC	A(0)	01100000
0003C4	00000A56			654+	DC	A(MACHF1)	01100000
0003C8	00000A5E			655+	DC	A(MACHF2)	01100000
0003CC	00000A66			656+	DC	A(MACHF3)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003D0	00000000			657+	DC	A(0)	01100000
0003D4	00000000			658+	DC	A(0)	01100000
0003D8	00000000			659+	DC	A(0)	01100000
0003DC	00000000			660+	DC	A(0)	01100000
0003E0	00000A6E			661+	DC	A(MACHF8)	01100000
0003E4	00000A76			662+	DC	A(MACHF9)	01100000
0003E8	00000A7E			663+	DC	A(MACHFA)	01100000
0003EC	00000A86			664+	DC	A(MACHFB)	01100000
0003F0	00000A8E			665+	DC	A(MACHFC)	01100000
0003F4	00000A96			666+	DC	A(MACHFD)	01100000
0003F8	00000000			667+	DC	A(0)	01100000
0003FC	00000000			668+	DC	A(0)	01100000
				669	COPY	DISASMDA	01750000
				670	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				671	PRINT OFF		00020000
				882	PRINT ON		02130000
				883	.DA020 ANOP		02140000
				884	*-----*		01760000
				885	*		* 01770000
				886	*	COMMON DATA MAP	* 01780000
				887	*		* 01790000
				888	*-----*		* 01800000
				889	DISASM00	DISASMCM TYPE=DSECT GP99137	01810000
				890+	PRINT OFF		00280000
				1521+	PRINT ON		06440000
				1522+	*-----*		* 06460000
				1523+	*		* 06470000
				1524+	*	ABEND REASON CODES	* 06480000
				1525+	*		* 06490000
				1526+	*-----*		* 06500000
	00001	1527+	ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT	06510000
	00002	1528+	ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL	06520000
	00003	1529+	ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE	06530000
	00004	1530+	ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE	06540000
	00005	1531+	ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR	06550000
	00000	1534+	R0	EQU	0		00070000
	00001	1535+	R1	EQU	1		00080000
	00002	1536+	R2	EQU	2		00090000
	00003	1537+	R3	EQU	3		00100000
	00004	1538+	R4	EQU	4		00110000
	00005	1539+	R5	EQU	5		00120000
	00006	1540+	R6	EQU	6		00130000
	00007	1541+	R7	EQU	7		00140000
	00008	1542+	R8	EQU	8		00150000
	00009	1543+	R9	EQU	9		00160000
	0000A	1544+	R10	EQU	10		00170000
	0000B	1545+	R11	EQU	11		00180000
	0000C	1546+	R12	EQU	12		00190000
	0000D	1547+	R13	EQU	13		00200000
	0000E	1548+	R14	EQU	14		00210000
	0000F	1549+	R15	EQU	15		00220000
000000				1551	END	DISOP36S	01820000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000010	
0001	0001	OC	000014	
0001	0001	OC	000018	
0001	0001	OC	00001C	
0001	0001	OC	000020	
0001	0001	OC	000024	
0001	0001	OC	000028	
0001	0001	OC	000040	
0001	0001	OC	000044	
0001	0001	OC	000048	
0001	0001	OC	00004C	
0001	0001	OC	000050	
0001	0001	OC	000054	
0001	0001	OC	000058	
0001	0001	OC	00005C	
0001	0001	OC	000060	
0001	0001	OC	000064	
0001	0001	OC	000068	
0001	0001	OC	00006C	
0001	0001	OC	000070	
0001	0001	OC	000074	
0001	0001	OC	000078	
0001	0001	OC	00007C	
0001	0001	OC	000080	
0001	0001	OC	000084	
0001	0001	OC	000088	
0001	0001	OC	00008C	
0001	0001	OC	000090	
0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
0001	0001	OC	0000A0	
0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
0001	0001	OC	0000BC	
0001	0001	OC	0000C0	
0001	0001	OC	0000C4	
0001	0001	OC	0000C8	
0001	0001	OC	0000CC	
0001	0001	OC	0000D0	
0001	0001	OC	0000D4	
0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	
0001	0001	OC	0000EC	
0001	0001	OC	0000F0	
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
0001	0001	OC	000110	
0001	0001	OC	000114	
0001	0001	OC	000118	
0001	0001	OC	00011C	
0001	0001	OC	000120	
0001	0001	OC	000124	
0001	0001	OC	000128	
0001	0001	OC	00012C	
0001	0001	OC	000130	
0001	0001	OC	000138	
0001	0001	OC	00013C	
0001	0001	OC	000140	
0001	0001	OC	000150	
0001	0001	OC	000154	
0001	0001	OC	000158	
0001	0001	OC	00015C	
0001	0001	OC	000160	
0001	0001	OC	000164	
0001	0001	OC	000168	
0001	0001	OC	00016C	
0001	0001	OC	000170	
0001	0001	OC	000174	
0001	0001	OC	000178	
0001	0001	OC	00017C	
0001	0001	OC	000180	
0001	0001	OC	00019C	
0001	0001	OC	0001A0	
0001	0001	OC	0001A4	
0001	0001	OC	0001A8	
0001	0001	OC	0001AC	
0001	0001	OC	0001B0	
0001	0001	OC	0001B4	
0001	0001	OC	0001B8	
0001	0001	OC	0001BC	
0001	0001	OC	0001C0	
0001	0001	OC	0001E0	
0001	0001	OC	0001E4	
0001	0001	OC	0001E8	
0001	0001	OC	0001EC	
0001	0001	OC	0001F0	
0001	0001	OC	0001F4	
0001	0001	OC	0001F8	
0001	0001	OC	0001FC	
0001	0001	OC	000200	
0001	0001	OC	000208	
0001	0001	OC	00020C	
0001	0001	OC	000210	
0001	0001	OC	000214	
0001	0001	OC	000218	
0001	0001	OC	00021C	

POS.ID REL.ID FLAGS ADDRESS ASM 0201 00.48 07/11/18

0001	0001	OC	000220
0001	0001	OC	000224
0001	0001	OC	000228
0001	0001	OC	00022C
0001	0001	OC	000230
0001	0001	OC	000234
0001	0001	OC	000238
0001	0001	OC	00023C
0001	0001	OC	000240
0001	0001	OC	000244
0001	0001	OC	000248
0001	0001	OC	00024C
0001	0001	OC	000250
0001	0001	OC	000254
0001	0001	OC	000258
0001	0001	OC	00025C
0001	0001	OC	000260
0001	0001	OC	000270
0001	0001	OC	000274
0001	0001	OC	000278
0001	0001	OC	00027C
0001	0001	OC	000344
0001	0001	OC	000348
0001	0001	OC	00034C
0001	0001	OC	000350
0001	0001	OC	000354
0001	0001	OC	000358
0001	0001	OC	00035C
0001	0001	OC	000370
0001	0001	OC	000374
0001	0001	OC	000378
0001	0001	OC	00037C
0001	0001	OC	0003C4
0001	0001	OC	0003C8
0001	0001	OC	0003CC
0001	0001	OC	0003E0
0001	0001	OC	0003E4
0001	0001	OC	0003E8
0001	0001	OC	0003EC
0001	0001	OC	0003F0
0001	0001	OC	0003F4

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH1B	00006	000004C2	00070	00440	
MACH1C	00006	000004CA	00072	00441	
MACH1D	00006	000004D8	00075	00442	
MACH1E	00006	000004E6	00078	00443	
MACH1F	00006	000004EE	00080	00444	
MACH10	00006	0000046A	00048	00429	
MACH11	00006	00000472	00050	00430	
MACH12	00006	0000047A	00052	00431	
MACH13	00006	00000482	00054	00432	
MACH14	00006	0000048A	00056	00433	
MACH15	00006	00000492	00058	00434	
MACH16	00006	0000049A	00060	00435	
MACH17	00006	000004A2	00062	00436	
MACH18	00006	000004AA	00064	00437	
MACH19	00006	000004B2	00066	00438	
MACH2A	00006	00000582	00112	00455	
MACH2B	00006	00000590	00115	00456	
MACH2C	00006	0000059E	00118	00457	
MACH2D	00006	000005AC	00121	00458	
MACH2E	00006	000005BA	00124	00459	
MACH2F	00006	000005C8	00127	00460	
MACH20	00006	000004F6	00082	00445	
MACH21	00006	00000504	00085	00446	
MACH22	00006	00000512	00088	00447	
MACH23	00006	00000520	00091	00448	
MACH24	00006	0000052E	00094	00449	
MACH25	00006	0000053C	00097	00450	
MACH26	00006	0000054A	00100	00451	
MACH27	00006	00000558	00103	00452	
MACH28	00006	00000566	00106	00453	
MACH29	00006	00000574	00109	00454	
MACH3A	00006	00000662	00160	00471	
MACH3B	00006	00000670	00163	00472	
MACH3C	00006	0000067E	00166	00473	
MACH3D	00006	0000068C	00169	00474	
MACH3E	00006	0000069A	00172	00475	
MACH3F	00006	000006A8	00175	00476	
MACH30	00006	000005D6	00130	00461	
MACH31	00006	000005E4	00133	00462	
MACH32	00006	000005F2	00136	00463	
MACH33	00006	00000600	00139	00464	
MACH34	00006	0000060E	00142	00465	
MACH35	00006	0000061C	00145	00466	
MACH36	00006	0000062A	00148	00467	
MACH37	00006	00000638	00151	00468	
MACH38	00006	00000646	00154	00469	
MACH39	00006	00000654	00157	00470	
MACH4A	00006	0000071E	00200	00487	
MACH4B	00006	00000726	00202	00488	
MACH4C	00006	0000072E	00204	00489	
MACH4E	00006	00000736	00206	00491	
MACH4F	00006	0000073E	00208	00492	
MACH40	00006	000006B6	00178	00477	
MACH41	00006	000006BE	00180	00478	
MACH42	00006	000006C6	00182	00479	

OP36S				CROSS-REFERENCE		PAGE 21	
SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18		
MACH43	00006	000006CE	00184	00480			
MACH44	00006	000006D6	00186	00481			
MACH45	00006	000006DE	00188	00482			
MACH46	00006	000006F2	00191	00483			
MACH47	00006	00000706	00194	00484			
MACH48	00006	0000070E	00196	00485			
MACH49	00006	00000716	00198	00486			
MACH5A	00006	0000077E	00224	00503			
MACH5B	00006	00000786	00226	00504			
MACH5C	00006	0000078E	00228	00505			
MACH5D	00006	0000079C	00231	00506			
MACH5E	00006	000007AA	00234	00507			
MACH5F	00006	000007B2	00236	00508			
MACH50	00006	00000746	00210	00493			
MACH54	00006	0000074E	00212	00497			
MACH55	00006	00000756	00214	00498			
MACH56	00006	0000075E	00216	00499			
MACH57	00006	00000766	00218	00500			
MACH58	00006	0000076E	00220	00501			
MACH59	00006	00000776	00222	00502			
MACH6A	00006	000007F2	00250	00519			
MACH6B	00006	00000800	00253	00520			
MACH6C	00006	0000080E	00256	00521			
MACH6D	00006	0000081C	00259	00522			
MACH6E	00006	0000082A	00262	00523			
MACH6F	00006	00000838	00265	00524			
MACH60	00006	000007BA	00238	00509			
MACH67	00006	000007C8	00241	00516			
MACH68	00006	000007D6	00244	00517			
MACH69	00006	000007E4	00247	00518			
MACH7A	00006	00000870	00277	00535			
MACH7B	00006	0000087E	00280	00536			
MACH7C	00006	0000088C	00283	00537			
MACH7D	00006	0000089A	00286	00538			
MACH7E	00006	000008A8	00289	00539			
MACH7F	00006	000008B6	00292	00540			
MACH70	00006	00000846	00268	00525			
MACH78	00006	00000854	00271	00533			
MACH79	00006	00000862	00274	00534			
MACH8A	00006	00000924	00317	00551			
MACH8B	00006	00000932	00320	00552			
MACH8C	00006	00000940	00323	00553			
MACH8D	00006	0000094E	00326	00554			
MACH8E	00006	0000095C	00329	00555			
MACH8F	00006	0000096A	00332	00556			
MACH80	00006	000008C4	00295	00541			
MACH82	00006	000008D2	00298	00543			
MACH83	00006	000008E0	00301	00544			
MACH84	00006	000008E8	00303	00545			
MACH85	00006	000008F0	00305	00546			
MACH86	00006	000008F8	00307	00547			
MACH87	00006	00000900	00309	00548			
MACH88	00006	00000908	00311	00549			
MACH89	00006	00000916	00314	00550			
MACH9C	00006	000009C6	00354	00569			

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18				
TPODA2B	00008	00000033	01305	01285 01285 01286 01286 01287 01287					
TPOMOD	00008	00000003	01300	01273 01273					
TPOTID	00008	0000000D	01301	01274 01274					
TRACEPEN	00004	00000662	01297	01260 01269 01292					
TRACEPIN	00004	00000646	01290	01268 01272					
TRACEPPR	00004	000005E2	01271	01294 01296					
TRACESHD	00027	00000668	01306	01262 01262 01263					
TRACE010	00002	00000580	01231	01229					
TRACE020	00002	000005A8	01240	01224					
TRCESAVE	00004	00000808	01408	01144 01180 01182 01222 01241 01258 01297					
TRCURR	00004	000000D4	00945	01223 01232 01267 01291					
TRDATA1	00008	000000E0	00948	01236 01238 01238					
TRDATA2	00008	000000E8	00949	01237 01239 01239					
TREDATA1	00008	00000010	01470	01236 01275 01278					
TREDATA2	00008	00000018	01471	01237 01281 01284					
TREID	00008	00000008	01469	01235 01274					
TREMOD	00008	00000000	01468	01234 01271 01273					
TRENTY	00001	00000000	01467	01221 01270 01289 01289 01472					
TRENTYRL	00001	00000020	01472	01227 01289 01290					
TRLAST	00004	000000CC	00943	01228 01293					
TR1ST	00004	000000C4	00941	01230 01295					
USNGDSCT	00001	00000000	00852	00866					
VERPSECT	00001	00000000	00873	00879					

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 182

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 64

TOTAL RECORDS PRINTED 1225

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOP36S DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 00.48 07/11/18
DISOP37B	SD	0001	000000	001028		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
				2 *	-----*	00020000
				3 *		00030000
				4 *	MODULE NAME: DISOP37B (MODIFIED ALIAS OF 370 TABLE FOR DEFAULT)	00040000
				5 *		00050000
				6 *	FUNCTION:	00060000
				7 *	DEFINE VALID MACHINE OPCODES FOR SYSTEM 370	00070000
				8 *		00080000
				9 *	TWO-BYTE OPCODE SUPPORT ADDED:	00090000
				10 *		00100000
				11 *	ADDRESS FOR EACH TWO-BYTE OPCODE IS IN A SECONDARY TABLE,	00110000
				12 *	GENERATED WITH A TYPE=DEFINE. OPERANDS ARE:	00120000
				13 *	1) MACHINE CODE IN HEX	00130000
				14 *	2) AND FLAG FOR SECOND BYTE	00140000
				15 *	3) RIGHT SHIFT AMOUNT FOR MASKED VALUE	00150000
				16 *	4) LARGEST MASKED/SHIFTED VALUE	00160000
				17 *		00170000
				18 *	TABLES ARE IDENTIFIED BY X'80'+ADDRESS	00180000
				19 *		00190000
				20 *	-----*	00200000
				21	COPY DISASMGB	00210000
				22 *	-----*	00010000
				23 *		00020000
				24 *	GLOBAL OPTIONS. SEE MACRO DISOPT FOR EXPLANATION OF OPTIONS.	00030000
				25 *		00040000
				26 *	DEFAULT MAXLINE UPPED TO 58 TO ALLOW 55 ASSEMBLER LINES PER PAGE.	00050000
				27 *		00060000
				28 *	-----*	00070000
				29	GBLA &TRNBRG,&MAXL,&MINL	00080000
				30	GBLB &MVSXA ON IF MVS/XA OR LATER GP04234	00090000
				31	GBLC &TROPT,&DAPRT,&COMPT	00100000
				32	DISOPT COMLIST=OFF, ASSEMBLER'S NAME	+00110000
					DALIST=OFF, DON'T PRINT DATA AREA	+00120000
					MAXLINE=59, DEFAULT IS 55 LINES PER PAGE	+00130000
					MINLINE=10, MINIMUM LINE COUNT ALLOWABLE IS 10	+00140000
					TRACE=ON, GENERATE TRACE	+00150000
					TRNBR=1000 1000 TRACE ENTRIES	00160000
000000				33	DISOP37B CSECT , DEFAULT TABLE GP10015	00220000
000000				34	ORG DISOP37B+(256*4)	00230000
				35 *	-----*	00240000
				36 *	OPCODE TABLE FOR S/370 (WITHOUT SSM)	00250000
				37 *	-----*	00260000
				38	OPCODE 00,DC,0 DUMMY ENTRY FOR DCs	00270000
000400	C4C3404040400020			39+MACH00	DC CL6'DC',AL1(0,0+\$OPNCMNT)	00910000
				40	OPCODE 04,SPM,\$OPRR4,MASK=000F GP10018	00280000
000408	E2D7D44040400421			41+MACH04	DC CL6'SPM',AL1(\$OPRR4,0+\$OPNCMNT+\$OPMASK)	00910000
000410	000F00000000			42+	DC XL6'000F00000000'	00950000
				43	OPCODE 05,BALR,\$OPRR1,'CALL'	00290000
000416	C2C1D3D940400100			44+MACH05	DC CL6'BALR',AL1(\$OPRR1,0)	00910000
00041E	C3C1D3D340404040			45+	DC CL12'CALL'	00980000
				46	OPCODE 06,BCTR,\$OPRR1,'LOOP'	00300000
00042A	C2C3E3D940400100			47+MACH06	DC CL6'BCTR',AL1(\$OPRR1,0)	00910000
000432	D3D6D6D740404040			48+	DC CL12'LOOP'	00980000
				49	OPCODE 07,BCR,\$OPRR3,FLAGS=\$OPEXT	00310000
00043E	C2C3D940404003A0			50+MACH07	DC CL6'BCR',AL1(\$OPRR3,\$OPEXT+\$OPNCMNT)	00910000
				51	OPCODE 08,SSK,\$OPRR1	00320000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000446	E2E2D24040400120			52+MACH08	DC CL6'SSK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				53	OPCODE 09,ISK,\$OPRR1	00330000
00044E	C9E2D24040400120			54+MACH09	DC CL6'ISK',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				55	OPCODE 0A,SVC,\$OPRR2,'SVC',FLAGS=\$OP SVC	GP10035 00340000
000456	E2E5C34040400240			56+MACH0A	DC CL6'SVC',AL1(\$OPRR2,\$OP SVC)	00910000
00045E	E2E5C34040404040			57+	DC CL12'SVC'	00980000
				58	OPCODE 0D,BASR,\$OPRR1	00350000
00046A	C2C1E2D940400120			59+MACH0D	DC CL6'BASR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				60	OPCODE 0E,MVCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00360000
000472	D4E5C3D340400129			61+MACH0E	DC CL6'MVCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00047A	0011000000000			62+	DC XL6'0011000000000'	00950000
				63	OPCODE 0F,CLCL,\$OPRR1,FLAGS=\$OPCCA,MASK=0011	GP10025 00370000
000480	C3D3C3D340400129			64+MACH0F	DC CL6'CLCL',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000488	0011000000000			65+	DC XL6'0011000000000'	00950000
				66	OPCODE 10,LPR,\$OPRR1,FLAGS=\$OPCCA	00380000
00048E	D3D7D94040400128			67+MACH10	DC CL6'LPR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				68	OPCODE 11,LNR,\$OPRR1,FLAGS=\$OPCCA	00390000
000496	D3D5D94040400128			69+MACH11	DC CL6'LNR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				70	OPCODE 12,LTR,\$OPRR1,FLAGS=\$OPCCA	00400000
00049E	D3E3D94040400128			71+MACH12	DC CL6'LTR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				72	OPCODE 13,LCR,\$OPRR1,FLAGS=\$OPCCA	00410000
0004A6	D3C3D94040400128			73+MACH13	DC CL6'LCR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				74	OPCODE 14,NR,\$OPRR1,FLAGS=\$OPCCL	00420000
0004AE	D5D9404040400122			75+MACH14	DC CL6'NR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				76	OPCODE 15,CLR,\$OPRR1,FLAGS=\$OPCCC	00430000
0004B6	C3D3D94040400124			77+MACH15	DC CL6'CLR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				78	OPCODE 16,OR,\$OPRR1,FLAGS=\$OPCCL	00440000
0004BE	D6D9404040400122			79+MACH16	DC CL6'OR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				80	OPCODE 17,XR,\$OPRR1,FLAGS=\$OPCCL	00450000
0004C6	E7D9404040400122			81+MACH17	DC CL6'XR',AL1(\$OPRR1,\$OPCCL+\$OPNCMNT)	00910000
				82	OPCODE 18,LR,\$OPRR1	00460000
0004CE	D3D9404040400120			83+MACH18	DC CL6'LR',AL1(\$OPRR1,0+\$OPNCMNT)	00910000
				84	OPCODE 19,CR,\$OPRR1,FLAGS=\$OPCCC	00470000
0004D6	C3D9404040400124			85+MACH19	DC CL6'CR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT)	00910000
				86	OPCODE 1A,AR,\$OPRR1,FLAGS=\$OPCCA	00480000
0004DE	C1D9404040400128			87+MACH1A	DC CL6'AR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				88	OPCODE 1B,SR,\$OPRR1,FLAGS=\$OPCCA	00490000
0004E6	E2D9404040400128			89+MACH1B	DC CL6'SR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				90	OPCODE 1C,MR,\$OPRR1,MASK=0010	GP10072 00500000
0004EE	D4D9404040400121			91+MACH1C	DC CL6'MR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0004F6	0010000000000			92+	DC XL6'0010000000000'	00950000
				93	OPCODE 1D,DR,\$OPRR1,MASK=0010	GP10072 00510000
0004FC	C4D9404040400121			94+MACH1D	DC CL6'DR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000504	0010000000000			95+	DC XL6'0010000000000'	00950000
				96	OPCODE 1E,ALR,\$OPRR1,FLAGS=\$OPCCA	00520000
00050A	C1D3D94040400128			97+MACH1E	DC CL6'ALR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				98	OPCODE 1F,SLR,\$OPRR1,FLAGS=\$OPCCA	00530000
000512	E2D3D94040400128			99+MACH1F	DC CL6'SLR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT)	00910000
				100	OPCODE 20,LPDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00540000
00051A	D3D7C4D940400129			101+MACH20	DC CL6'LPDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000522	0099000000000			102+	DC XL6'0099000000000'	00950000
				103	OPCODE 21,LNDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00550000
000528	D3D5C4D940400129			104+MACH21	DC CL6'LNDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000530	0099000000000			105+	DC XL6'0099000000000'	00950000
				106	OPCODE 22,LTDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00560000

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000536	D3E3C4D940400129			107+MACH22	DC CL6'LTDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00053E	009900000000			108+	DC XL6'009900000000'	00950000
				109	OPCODE 23,LCDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00570000
000544	D3C3C4D940400129			110+MACH23	DC CL6'LCDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00054C	009900000000			111+	DC XL6'009900000000'	00950000
				112	OPCODE 24,HDR,\$OPRR1,MASK=0099	GP10018 00580000
000552	C8C4D94040400121			113+MACH24	DC CL6'HDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
00055A	009900000000			114+	DC XL6'009900000000'	00950000
				115	OPCODE 25,LRDR,\$OPRR1,MASK=0099	GP10018 00590000
000560	D3D9C4D940400121			116+MACH25	DC CL6'LRDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000568	009900000000			117+	DC XL6'009900000000'	00950000
				118	OPCODE 26,MXR,\$OPRR1,MASK=0099	GP10018 00600000
00056E	D4E7D94040400121			119+MACH26	DC CL6'MXR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000576	009900000000			120+	DC XL6'009900000000'	00950000
				121	OPCODE 27,MXDR,\$OPRR1,MASK=0099	GP10018 00610000
00057C	D4E7C4D940400121			122+MACH27	DC CL6'MXDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000584	009900000000			123+	DC XL6'009900000000'	00950000
				124	OPCODE 28,LDR,\$OPRR1,MASK=0099	GP10018 00620000
00058A	D3C4D94040400121			125+MACH28	DC CL6'LDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000592	009900000000			126+	DC XL6'009900000000'	00950000
				127	OPCODE 29,CDR,\$OPRR1,FLAGS=\$OPCCC,MASK=0099	GP10018 00630000
000598	C3C4D94040400125			128+MACH29	DC CL6'CDR',AL1(\$OPRR1,\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
0005A0	009900000000			129+	DC XL6'009900000000'	00950000
				130	OPCODE 2A,ADR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00640000
0005A6	C1C4D94040400129			131+MACH2A	DC CL6'ADR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005AE	009900000000			132+	DC XL6'009900000000'	00950000
				133	OPCODE 2B,SDR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00650000
0005B4	E2C4D94040400129			134+MACH2B	DC CL6'SDR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005BC	009900000000			135+	DC XL6'009900000000'	00950000
				136	OPCODE 2C,MDR,\$OPRR1,MASK=0099	GP10018 00660000
0005C2	D4C4D94040400121			137+MACH2C	DC CL6'MDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005CA	009900000000			138+	DC XL6'009900000000'	00950000
				139	OPCODE 2D,DDR,\$OPRR1,MASK=0099	GP10018 00670000
0005D0	C4C4D94040400121			140+MACH2D	DC CL6'DDR',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0005D8	009900000000			141+	DC XL6'009900000000'	00950000
				142	OPCODE 2E,AWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00680000
0005DE	C1E6D94040400129			143+MACH2E	DC CL6'AWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005E6	009900000000			144+	DC XL6'009900000000'	00950000
				145	OPCODE 2F,SWR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00690000
0005EC	E2E6D94040400129			146+MACH2F	DC CL6'SWR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0005F4	009900000000			147+	DC XL6'009900000000'	00950000
				148	OPCODE 30,LPER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00700000
0005FA	D3D7C5D940400129			149+MACH30	DC CL6'LPER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000602	009900000000			150+	DC XL6'009900000000'	00950000
				151	OPCODE 31,LNER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00710000
000608	D3D5C5D940400129			152+MACH31	DC CL6'LNER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000610	009900000000			153+	DC XL6'009900000000'	00950000
				154	OPCODE 32,LTER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00720000
000616	D3E3C5D940400129			155+MACH32	DC CL6'LTER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00061E	009900000000			156+	DC XL6'009900000000'	00950000
				157	OPCODE 33,LCER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00730000
000624	D3C3C5D940400129			158+MACH33	DC CL6'LCER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00062C	009900000000			159+	DC XL6'009900000000'	00950000
				160	OPCODE 34,HER,\$OPRR1,MASK=0099	GP10018 00740000
000632	C8C5D94040400121			161+MACH34	DC CL6'HER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000

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00063A	009900000000			162+	DC XL6'009900000000'	00950000
				163	OPCODE 35,LRER,\$OPRR1,MASK=0099	GP10018 00750000
000640	D3D9C5D940400121			164+MACH35	DC CL6'LRER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000648	009900000000			165+	DC XL6'009900000000'	00950000
				166	OPCODE 36,AXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00760000
00064E	C1E7D94040400129			167+MACH36	DC CL6'AXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000656	009900000000			168+	DC XL6'009900000000'	00950000
				169	OPCODE 37,SXR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00770000
00065C	E2E7D94040400129			170+MACH37	DC CL6'SXR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000664	009900000000			171+	DC XL6'009900000000'	00950000
				172	OPCODE 38,LER,\$OPRR1,MASK=0099	GP10018 00780000
00066A	D3C5D94040400121			173+MACH38	DC CL6'LER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
000672	009900000000			174+	DC XL6'009900000000'	00950000
				175	OPCODE 39,CER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00790000
000678	C3C5D94040400129			176+MACH39	DC CL6'CER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000680	009900000000			177+	DC XL6'009900000000'	00950000
				178	OPCODE 3A,AER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00800000
000686	C1C5D94040400129			179+MACH3A	DC CL6'AER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00068E	009900000000			180+	DC XL6'009900000000'	00950000
				181	OPCODE 3B,SER,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00810000
000694	E2C5D94040400129			182+MACH3B	DC CL6'SER',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00069C	009900000000			183+	DC XL6'009900000000'	00950000
				184	OPCODE 3C,MER,\$OPRR1,MASK=0099	GP10018 00820000
0006A2	D4C5D94040400121			185+MACH3C	DC CL6'MER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0006AA	009900000000			186+	DC XL6'009900000000'	00950000
				187	OPCODE 3D,DER,\$OPRR1,MASK=0099	GP10018 00830000
0006B0	C4C5D94040400121			188+MACH3D	DC CL6'DER',AL1(\$OPRR1,0+\$OPNCMNT+\$OPMASK)	00910000
0006B8	009900000000			189+	DC XL6'009900000000'	00950000
				190	OPCODE 3E,AUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00840000
0006BE	C1E4D94040400129			191+MACH3E	DC CL6'AUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006C6	009900000000			192+	DC XL6'009900000000'	00950000
				193	OPCODE 3F,SUR,\$OPRR1,FLAGS=\$OPCCA,MASK=0099	GP10018 00850000
0006CC	E2E4D94040400129			194+MACH3F	DC CL6'SUR',AL1(\$OPRR1,\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0006D4	009900000000			195+	DC XL6'009900000000'	00950000
				196	OPCODE 40,STH,\$OPRX,FLAGS=\$OPREF	00860000
0006DA	E2E3C84040400730			197+MACH40	DC CL6'STH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				198	OPCODE 41,LA,\$OPRX,FLAGS=\$OPREF	00870000
0006E2	D3C1404040400730			199+MACH41	DC CL6'LA',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				200	OPCODE 42,STC,\$OPRX,FLAGS=\$OPREF	00880000
0006EA	E2E3C34040400730			201+MACH42	DC CL6'STC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				202	OPCODE 43,IC,\$OPRX,FLAGS=\$OPREF	00890000
0006F2	C9C3404040400730			203+MACH43	DC CL6'IC',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				204	OPCODE 44,EX,\$OPRX,FLAGS=\$OPREF	00900000
0006FA	C5E7404040400730			205+MACH44	DC CL6'EX',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				206	OPCODE 45,BAL,\$OPRX,'CALL',FLAGS=\$OPREF	00910000
000702	C2C1D34040400710			207+MACH45	DC CL6'BAL',AL1(\$OPRX,\$OPREF)	00910000
00070A	C3C1D3D340404040			208+	DC CL12'CALL'	00980000
				209	OPCODE 46,BCT,\$OPRX,'LOOP',FLAGS=\$OPREF	00920000
000716	C2C3E34040400710			210+MACH46	DC CL6'BCT',AL1(\$OPRX,\$OPREF)	00910000
00071E	D3D6D6D740404040			211+	DC CL12'LOOP'	00980000
				212	OPCODE 47,BC,\$OPRX,FLAGS=\$OPEXT+\$OPREF	00930000
00072A	C2C34040404007B0			213+MACH47	DC CL6'BC',AL1(\$OPRX,\$OPEXT+\$OPREF+\$OPNCMNT)	00910000
				214	OPCODE 48,LH,\$OPRX,FLAGS=\$OPREF	00940000
000732	D3C8404040400730			215+MACH48	DC CL6'LH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)	00910000
				216	OPCODE 49,CH,\$OPRX,FLAGS=\$OPREF+\$OPCCC	00950000

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00073A	C3C8404040400734			217+MACH49	DC CL6'CH',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				218	OPCODE 4A,AH,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00960000
000742	C1C8404040400738			219+MACH4A	DC CL6'AH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				220	OPCODE 4B,SH,\$OPRX,FLAGS=\$OPREF+\$OPCCA		00970000
00074A	E2C8404040400738			221+MACH4B	DC CL6'SH',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				222	OPCODE 4C,MH,\$OPRX,FLAGS=\$OPREF		00980000
000752	D4C8404040400730			223+MACH4C	DC CL6'MH',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				224	OPCODE 4D,BAS,\$OPRX,FLAGS=\$OPREF		00990000
00075A	C2C1E24040400730			225+MACH4D	DC CL6'BAS',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				226	OPCODE 4E,CVD,\$OPRX,FLAGS=\$OPREF		01000000
000762	C3E5C44040400730			227+MACH4E	DC CL6'CVD',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				228	OPCODE 4F,CVB,\$OPRX,FLAGS=\$OPREF		01010000
00076A	C3E5C24040400730			229+MACH4F	DC CL6'CVB',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				230	OPCODE 50,ST,\$OPRX,FLAGS=\$OPREF		01020000
000772	E2E3404040400730			231+MACH50	DC CL6'ST',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				232	OPCODE 54,N,\$OPRX,FLAGS=\$OPREF+\$OPCCL		01030000
00077A	D540404040400732			233+MACH54	DC CL6'N',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				234	OPCODE 55,CL,\$OPRX,FLAGS=\$OPREF+\$OPCCC		01040000
000782	C3D3404040400734			235+MACH55	DC CL6'CL',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				236	OPCODE 56,O,\$OPRX,FLAGS=\$OPREF+\$OPCCL		01050000
00078A	D640404040400732			237+MACH56	DC CL6'O',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				238	OPCODE 57,X,\$OPRX,FLAGS=\$OPREF+\$OPCCL		01060000
000792	E740404040400732			239+MACH57	DC CL6'X',AL1(\$OPRX,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				240	OPCODE 58,L,\$OPRX,FLAGS=\$OPREF		01070000
00079A	D340404040400730			241+MACH58	DC CL6'L',AL1(\$OPRX,\$OPREF+\$OPNCMNT)		00910000
				242	OPCODE 59,C,\$OPRX,FLAGS=\$OPREF+\$OPCCC		01080000
0007A2	C340404040400734			243+MACH59	DC CL6'C',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				244	OPCODE 5A,A,\$OPRX,FLAGS=\$OPREF+\$OPCCA		01090000
0007AA	C140404040400738			245+MACH5A	DC CL6'A',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				246	OPCODE 5B,S,\$OPRX,FLAGS=\$OPREF+\$OPCCA		01100000
0007B2	E240404040400738			247+MACH5B	DC CL6'S',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				248	OPCODE 5C,M,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072	01110000
0007BA	D440404040400731			249+MACH5C	DC CL6'M',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007C2	001000000000			250+	DC XL6'001000000000'		00950000
				251	OPCODE 5D,D,\$OPRX,FLAGS=\$OPREF,MASK=00100000	GP10072	01120000
0007C8	C440404040400731			252+MACH5D	DC CL6'D',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007D0	001000000000			253+	DC XL6'001000000000'		00950000
				254	OPCODE 5E,AL,\$OPRX,FLAGS=\$OPREF+\$OPCCA		01130000
0007D6	C1D3404040400738			255+MACH5E	DC CL6'AL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				256	OPCODE 5F,SL,\$OPRX,FLAGS=\$OPREF+\$OPCCA		01140000
0007DE	E2D3404040400738			257+MACH5F	DC CL6'SL',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				258	OPCODE 60,STD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01150000
0007E6	E2E3C44040400731			259+MACH60	DC CL6'STD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007EE	009000000000			260+	DC XL6'009000000000'		00950000
				261	OPCODE 67,MXD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01160000
0007F4	D4E7C44040400731			262+MACH67	DC CL6'MXD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
0007FC	009000000000			263+	DC XL6'009000000000'		00950000
				264	OPCODE 68,LD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018	01170000
000802	D3C4404040400731			265+MACH68	DC CL6'LD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)		00910000
00080A	009000000000			266+	DC XL6'009000000000'		00950000
				267	OPCODE 69,CD,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018	01180000
000810	C3C4404040400735			268+MACH69	DC CL6'CD',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)		00910000
000818	009000000000			269+	DC XL6'009000000000'		00950000
				270	OPCODE 6A,AD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018	01190000
00081E	C1C4404040400739			271+MACH6A	DC CL6'AD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000

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000826	009000000000			272+	DC XL6'009000000000'	00950000
				273	OPCODE 6B,SD,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01200000
00082C	E2C4404040400739			274+MACH6B	DC CL6'SD',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000834	009000000000			275+	DC XL6'009000000000'	00950000
				276	OPCODE 6C,MD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01210000
00083A	D4C4404040400731			277+MACH6C	DC CL6'MD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000842	009000000000			278+	DC XL6'009000000000'	00950000
				279	OPCODE 6D,DD,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01220000
000848	C4C4404040400731			280+MACH6D	DC CL6'DD',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000850	009000000000			281+	DC XL6'009000000000'	00950000
				282	OPCODE 6E,AW,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01230000
000856	C1E6404040400731			283+MACH6E	DC CL6'AW',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00085E	009000000000			284+	DC XL6'009000000000'	00950000
				285	OPCODE 6F,SW,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01240000
000864	E2E6404040400739			286+MACH6F	DC CL6'SW',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
00086C	009000000000			287+	DC XL6'009000000000'	00950000
				288	OPCODE 70,STE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01250000
000872	E2E3C54040400731			289+MACH70	DC CL6'STE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
00087A	009000000000			290+	DC XL6'009000000000'	00950000
				291	OPCODE 78,LE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01260000
000880	D3C5404040400731			292+MACH78	DC CL6'LE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000888	009000000000			293+	DC XL6'009000000000'	00950000
				294	OPCODE 79,CE,\$OPRX,FLAGS=\$OPREF+\$OPCCC,MASK=00900000	GP10018 01270000
00088E	C3C5404040400735			295+MACH79	DC CL6'CE',AL1(\$OPRX,\$OPREF+\$OPCCC+\$OPNCMNT+\$OPMASK)	00910000
000896	009000000000			296+	DC XL6'009000000000'	00950000
				297	OPCODE 7A,AE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01280000
00089C	C1C5404040400739			298+MACH7A	DC CL6'AE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008A4	009000000000			299+	DC XL6'009000000000'	00950000
				300	OPCODE 7B,SE,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01290000
0008AA	E2C5404040400739			301+MACH7B	DC CL6'SE',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008B2	009000000000			302+	DC XL6'009000000000'	00950000
				303	OPCODE 7C,ME,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01300000
0008B8	D4C5404040400731			304+MACH7C	DC CL6'ME',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008C0	009000000000			305+	DC XL6'009000000000'	00950000
				306	OPCODE 7D,DE,\$OPRX,FLAGS=\$OPREF,MASK=00900000	GP10018 01310000
0008C6	C4C5404040400731			307+MACH7D	DC CL6'DE',AL1(\$OPRX,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008CE	009000000000			308+	DC XL6'009000000000'	00950000
				309	OPCODE 7E,AU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01320000
0008D4	C1E4404040400739			310+MACH7E	DC CL6'AU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008DC	009000000000			311+	DC XL6'009000000000'	00950000
				312	OPCODE 7F,SU,\$OPRX,FLAGS=\$OPREF+\$OPCCA,MASK=00900000	GP10018 01330000
0008E2	E2E4404040400739			313+MACH7F	DC CL6'SU',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
0008EA	009000000000			314+	DC XL6'009000000000'	00950000
				315 *	SSM PRODUCES MANY FALSE INSTRUCTIONS FOR 31-BIT ADCONS	01340000
				316 *	OPCODE 80,SSM,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01350000
				317	OPCODE 82,LPSW,\$OPS,FLAGS=\$OPREF,MASK=00FF0000	GP10018 01360000
0008F0	D3D7E2E640400931			318+MACH82	DC CL6'LPSW',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
0008F8	00FF00000000			319+	DC XL6'00FF00000000'	00950000
				320	OPCODE 83,DIAG,\$OPRSI	01370000
0008FE	C4C9C1C740400B20			321+MACH83	DC CL6'DIAG',AL1(\$OPRSI,0+\$OPNCMNT)	00910000
				322 *360*	OPCODE 84,WRD,\$OPRSI,MASK=00FF	GP10018 01380000
				323 *360*	OPCODE 85,RDD,\$OPRSI,MASK=00FF	GP10018 01390000
				324	OPCODE 86,BXH,\$OPRS2,FLAGS=\$OPREF	01400000
000906	C2E7C84040400D30			325+MACH86	DC CL6'BXH',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)	00910000
				326	OPCODE 87,BXLE,\$OPRS2,FLAGS=\$OPREF	01410000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	00.48	07/11/18
00090E	C2E7D3C540400D30			327+MACH87	DC	CL6 'BXLE',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)				00910000
				328	OPCODE	88,SRL,\$OPRS1,MASK=000F0000		GP10018		01420000
000916	E2D9D34040400C21			329+MACH88	DC	CL6 'SRL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)				00910000
00091E	000F00000000			330+	DC	XL6 '000F00000000'				00950000
				331	OPCODE	89,SLL,\$OPRS1,MASK=000F0000		GP10018		01430000
000924	E2D3D34040400C21			332+MACH89	DC	CL6 'SLL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)				00910000
00092C	000F00000000			333+	DC	XL6 '000F00000000'				00950000
				334	OPCODE	8A,SRA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000		GP10018		01440000
000932	E2D9C14040400C29			335+MACH8A	DC	CL6 'SRA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)				00910000
00093A	000F00000000			336+	DC	XL6 '000F00000000'				00950000
				337	OPCODE	8B,SLA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000		GP10018		01450000
000940	E2D3C14040400C29			338+MACH8B	DC	CL6 'SLA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)				00910000
000948	000F00000000			339+	DC	XL6 '000F00000000'				00950000
				340	OPCODE	8C,SRDL,\$OPRS1,MASK=000F0000		GP10018		01460000
00094E	E2D9C4D340400C21			341+MACH8C	DC	CL6 'SRDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)				00910000
000956	000F00000000			342+	DC	XL6 '000F00000000'				00950000
				343	OPCODE	8D,SLDL,\$OPRS1,MASK=000F0000		GP10018		01470000
00095C	E2D3C4D340400C21			344+MACH8D	DC	CL6 'SLDL',AL1(\$OPRS1,0+\$OPNCMNT+\$OPMASK)				00910000
000964	000F00000000			345+	DC	XL6 '000F00000000'				00950000
				346	OPCODE	8E,SRDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000		GP10018		01480000
00096A	E2D9C4C140400C29			347+MACH8E	DC	CL6 'SRDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)				00910000
000972	000F00000000			348+	DC	XL6 '000F00000000'				00950000
				349	OPCODE	8F,SLDA,\$OPRS1,FLAGS=\$OPCCA,MASK=000F0000		GP10018		01490000
000978	E2D3C4C140400C29			350+MACH8F	DC	CL6 'SLDA',AL1(\$OPRS1,\$OPCCA+\$OPNCMNT+\$OPMASK)				00910000
000980	000F00000000			351+	DC	XL6 '000F00000000'				00950000
				352	OPCODE	90,STM,\$OPRS2,FLAGS=\$OPREF				01500000
000986	E2E3D44040400D30			353+MACH90	DC	CL6 'STM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)				00910000
				354	OPCODE	91,TM,\$OPSI,FLAGS=\$OPREF+\$OPCCL				01510000
00098E	E3D4404040400A32			355+MACH91	DC	CL6 'TM',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)				00910000
				356	OPCODE	92,MVI,\$OPSI,FLAGS=\$OPREF				01520000
000996	D4E5C94040400A30			357+MACH92	DC	CL6 'MVI',AL1(\$OPSI,\$OPREF+\$OPNCMNT)				00910000
				358	OPCODE	93,TS,\$OPS,FLAGS=\$OPREF+\$OPCCA,MASK=00FF0000		GP10018		01530000
00099E	E3E2404040400939			359+MACH93	DC	CL6 'TS',AL1(\$OPS,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)				00910000
0009A6	00FF00000000			360+	DC	XL6 '00FF00000000'				00950000
				361	OPCODE	94,NI,\$OPSI,FLAGS=\$OPREF+\$OPCCL				01540000
0009AC	D5C9404040400A32			362+MACH94	DC	CL6 'NI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)				00910000
				363	OPCODE	95,CLI,\$OPSI,FLAGS=\$OPREF+\$OPCCC				01550000
0009B4	C3D3C94040400A34			364+MACH95	DC	CL6 'CLI',AL1(\$OPSI,\$OPREF+\$OPCCC+\$OPNCMNT)				00910000
				365	OPCODE	96,OI,\$OPSI,FLAGS=\$OPREF+\$OPCCL				01560000
0009BC	D6C9404040400A32			366+MACH96	DC	CL6 'OI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)				00910000
				367	OPCODE	97,XI,\$OPSI,FLAGS=\$OPREF+\$OPCCL				01570000
0009C4	E7C9404040400A32			368+MACH97	DC	CL6 'XI',AL1(\$OPSI,\$OPREF+\$OPCCL+\$OPNCMNT)				00910000
				369	OPCODE	98,LM,\$OPRS2,FLAGS=\$OPREF				01580000
0009CC	D3D4404040400D30			370+MACH98	DC	CL6 'LM',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)				00910000
				371	OPCODE	AC,STNSM,\$OPSI,FLAGS=\$OPREF				01590000
0009D4	E2E3D5E2D4400A30			372+MACHAC	DC	CL6 'STNSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)				00910000
				373	OPCODE	AD,STOSM,\$OPSI,FLAGS=\$OPREF				01600000
0009DC	E2E3D6E2D4400A30			374+MACHAD	DC	CL6 'STOSM',AL1(\$OPSI,\$OPREF+\$OPNCMNT)				00910000
				375	OPCODE	AE,SIGP,\$OPRS2,FLAGS=\$OPCCA				01610000
0009E4	E2C9C7D740400D28			376+MACHAE	DC	CL6 'SIGP',AL1(\$OPRS2,\$OPCCA+\$OPNCMNT)				00910000
				377	OPCODE	AF,MC,\$OPSI				01620000
0009EC	D4C3404040400A20			378+MACHAF	DC	CL6 'MC',AL1(\$OPSI,0+\$OPNCMNT)				00910000
				379	OPCODE	B1,LRA,\$OPRX,FLAGS=\$OPREF+\$OPCCA				01630000
0009F4	D3D9C14040400738			380+MACHB1	DC	CL6 'LRA',AL1(\$OPRX,\$OPREF+\$OPCCA+\$OPNCMNT)				00910000
				381 TABLEB2	OPCODE	B2,X'FF',0,255,TYPE=TABLE NO MASK, NO SHIFT, MAX = 256				01640000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
0009FC	5CFF00FF			382+OPTBB2	DC C'*,AL1(X'FF',0,255)	GP05204 01040000
000A00	0000000000000000			383+	DC (255+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137 01050000
				384	OPCODE B202,STIDP,\$OPS,FLAGS=\$OPREF	GP05204 01650000
000E00		00A08		385+	ORG OPTBB2+4+4*X'02'	GP99137 00740000
000A08	00000E00			386+	DC AL4(OP2B202)	GP99137 00750000
000A0C		00E00		387+	ORG ,	GP99137 00760000
000E00	E2E3C9C4D7400930			388+OP2B202	DC CL6'STIDP',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				389	OPCODE B204,SCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP05204 01660000
000E08		00A10		390+	ORG OPTBB2+4+4*X'04'	GP99137 00740000
000A10	00000E08			391+	DC AL4(OP2B204)	GP99137 00750000
000A14		00E08		392+	ORG ,	GP99137 00760000
000E08	E2C3D24040400932			393+OP2B204	DC CL6'SCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				394	OPCODE B205,STCK,\$OPS,FLAGS=\$OPREF+\$OPCCL	GP99137 01670000
000E10		00A14		395+	ORG OPTBB2+4+4*X'05'	GP99137 00740000
000A14	00000E10			396+	DC AL4(OP2B205)	GP99137 00750000
000A18		00E10		397+	ORG ,	GP99137 00760000
000E10	E2E3C3D240400932			398+OP2B205	DC CL6'STCK',AL1(\$OPS,\$OPREF+\$OPCCL+\$OPNCMNT)	00910000
				399	OPCODE B206,SCKC,\$OPS,FLAGS=\$OPREF	GP05204 01680000
000E18		00A18		400+	ORG OPTBB2+4+4*X'06'	GP99137 00740000
000A18	00000E18			401+	DC AL4(OP2B206)	GP99137 00750000
000A1C		00E18		402+	ORG ,	GP99137 00760000
000E18	E2C3D2C340400930			403+OP2B206	DC CL6'SCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				404	OPCODE B207,STCKC,\$OPS,FLAGS=\$OPREF	GP05204 01690000
000E20		00A1C		405+	ORG OPTBB2+4+4*X'07'	GP99137 00740000
000A1C	00000E20			406+	DC AL4(OP2B207)	GP99137 00750000
000A20		00E20		407+	ORG ,	GP99137 00760000
000E20	E2E3C3D2C3400930			408+OP2B207	DC CL6'STCKC',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				409	OPCODE B208,SPT,\$OPS,FLAGS=\$OPREF	GP05204 01700000
000E28		00A20		410+	ORG OPTBB2+4+4*X'08'	GP99137 00740000
000A20	00000E28			411+	DC AL4(OP2B208)	GP99137 00750000
000A24		00E28		412+	ORG ,	GP99137 00760000
000E28	E2D7E34040400930			413+OP2B208	DC CL6'SPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				414	OPCODE B209,STPT,\$OPS,FLAGS=\$OPREF	GP05204 01710000
000E30		00A24		415+	ORG OPTBB2+4+4*X'09'	GP99137 00740000
000A24	00000E30			416+	DC AL4(OP2B209)	GP99137 00750000
000A28		00E30		417+	ORG ,	GP99137 00760000
000E30	E2E3D7E340400930			418+OP2B209	DC CL6'STPT',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				419	OPCODE B20A,SPKA,\$OPS,FLAGS=\$OPREF	GP05204 01720000
000E38		00A28		420+	ORG OPTBB2+4+4*X'0A'	GP99137 00740000
000A28	00000E38			421+	DC AL4(OP2B20A)	GP99137 00750000
000A2C		00E38		422+	ORG ,	GP99137 00760000
000E38	E2D7D2C140400930			423+OP2B20A	DC CL6'SPKA',AL1(\$OPS,\$OPREF+\$OPNCMNT)	00910000
				424	OPCODE B20B,IPK,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01730000
000E40		00A2C		425+	ORG OPTBB2+4+4*X'0B'	GP99137 00740000
000A2C	00000E40			426+	DC AL4(OP2B20B)	GP99137 00750000
000A30		00E40		427+	ORG ,	GP99137 00760000
000E40	C9D7D24040400931			428+OP2B20B	DC CL6'IPK',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E48	0000FFFF0000			429+	DC XL6'0000FFFF0000'	00950000
				430	OPCODE B20D,PTLB,\$OPS,FLAGS=\$OPREF,MASK=0000FFFF	GP10018 01740000
000E4E		00A34		431+	ORG OPTBB2+4+4*X'0D'	GP99137 00740000
000A34	00000E4E			432+	DC AL4(OP2B20D)	GP99137 00750000
000A38		00E4E		433+	ORG ,	GP99137 00760000
000E4E	D7E3D3C240400931			434+OP2B20D	DC CL6'PTLB',AL1(\$OPS,\$OPREF+\$OPNCMNT+\$OPMASK)	00910000
000E56	0000FFFF0000			435+	DC XL6'0000FFFF0000'	00950000
				436	OPCODE B210,SPX,\$OPS,FLAGS=\$OPREF	GP05204 01750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
000E5C			00A40	437+	ORG OPTBB2+4+4*X'10'	GP99137	00740000
000A40	00000E5C			438+	DC AL4(OP2B210)	GP99137	00750000
000A44			00E5C	439+	ORG ,	GP99137	00760000
000E5C	E2D7E74040400930			440+OP2B210	DC CL6'SPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				441	OPCODE B211,STPX,\$OPS,FLAGS=\$OPREF	GP05204	01760000
000E64			00A44	442+	ORG OPTBB2+4+4*X'11'	GP99137	00740000
000A44	00000E64			443+	DC AL4(OP2B211)	GP99137	00750000
000A48			00E64	444+	ORG ,	GP99137	00760000
000E64	E2E3D7E740400930			445+OP2B211	DC CL6'STPX',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				446	OPCODE B212,STAP,\$OPS,FLAGS=\$OPREF	GP05204	01770000
000E6C			00A48	447+	ORG OPTBB2+4+4*X'12'	GP99137	00740000
000A48	00000E6C			448+	DC AL4(OP2B212)	GP99137	00750000
000A4C			00E6C	449+	ORG ,	GP99137	00760000
000E6C	E2E3C1D740400930			450+OP2B212	DC CL6'STAP',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				451	OPCODE B213,RRB,\$OPS,FLAGS=\$OPREF	GP05204	01780000
000E74			00A4C	452+	ORG OPTBB2+4+4*X'13'	GP99137	00740000
000A4C	00000E74			453+	DC AL4(OP2B213)	GP99137	00750000
000A50			00E74	454+	ORG ,	GP99137	00760000
000E74	D9D9C24040400930			455+OP2B213	DC CL6'RRB',AL1(\$OPS,\$OPREF+\$OPNCMNT)		00910000
				456	OPCODE B6,STCTL,\$OPRS2,FLAGS=\$OPREF		01790000
000E7C	E2E3C3E3D3400D30			457+MACHB6	DC CL6'STCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)		00910000
				458	OPCODE B7,LCTL,\$OPRS2,FLAGS=\$OPREF		01800000
000E84	D3C3E3D340400D30			459+MACHB7	DC CL6'LCTL',AL1(\$OPRS2,\$OPREF+\$OPNCMNT)		00910000
				460	OPCODE BA,CS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC		01810000
000E8C	C3E2404040400D34			461+MACHBA	DC CL6'CS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				462	OPCODE BB,CDS,\$OPRS2,FLAGS=\$OPREF+\$OPCCC		01820000
000E94	C3C4E24040400D34			463+MACHBB	DC CL6'CDS',AL1(\$OPRS2,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				464	OPCODE BD,CLM,\$OPRS3,FLAGS=\$OPREF+\$OPCCC		01830000
000E9C	C3D3D44040400E34			465+MACHBD	DC CL6'CLM',AL1(\$OPRS3,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				466	OPCODE BE,STCM,\$OPRS3,FLAGS=\$OPREF		01840000
000EA4	E2E3C3D440400E30			467+MACHBE	DC CL6'STCM',AL1(\$OPRS3,\$OPREF+\$OPNCMNT)		00910000
				468	OPCODE BF,ICM,\$OPRS3,FLAGS=\$OPREF+\$OPCCA		01850000
000EAC	C9C3D44040400E38			469+MACHBF	DC CL6'ICM',AL1(\$OPRS3,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				470	OPCODE D1,MVN,\$OPSS1,FLAGS=\$OPREF		01860000
000EB4	D4E5D54040400F30			471+MACHD1	DC CL6'MVN',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				472	OPCODE D2,MVC,\$OPSS1,FLAGS=\$OPREF		01870000
000EBC	D4E5C34040400F30			473+MACHD2	DC CL6'MVC',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				474	OPCODE D3,MVZ,\$OPSS1,FLAGS=\$OPREF		01880000
000EC4	D4E5E94040400F30			475+MACHD3	DC CL6'MVZ',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				476	OPCODE D4,NC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01890000
000ECC	D5C3404040400F32			477+MACHD4	DC CL6'NC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				478	OPCODE D5,CLC,\$OPSS1,FLAGS=\$OPREF+\$OPCCC		01900000
000ED4	C3D3C34040400F34			479+MACHD5	DC CL6'CLC',AL1(\$OPSS1,\$OPREF+\$OPCCC+\$OPNCMNT)		00910000
				480	OPCODE D6,OC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01910000
000EDC	D6C3404040400F32			481+MACHD6	DC CL6'OC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				482	OPCODE D7,XC,\$OPSS1,FLAGS=\$OPREF+\$OPCCL		01920000
000EE4	E7C3404040400F32			483+MACHD7	DC CL6'XC',AL1(\$OPSS1,\$OPREF+\$OPCCL+\$OPNCMNT)		00910000
				484	OPCODE DC,TR,\$OPSS1,FLAGS=\$OPREF		01930000
000EEC	E3D9404040400F30			485+MACHDC	DC CL6'TR',AL1(\$OPSS1,\$OPREF+\$OPNCMNT)		00910000
				486	OPCODE DD,TRT,\$OPSS1,FLAGS=\$OPREF+\$OPCCA		01940000
000EF4	E3D9E34040400F38			487+MACHDD	DC CL6'TRT',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				488	OPCODE DE,ED,\$OPSS1,FLAGS=\$OPREF+\$OPCCA		01950000
000EFC	C5C4404040400F38			489+MACHDE	DC CL6'ED',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000
				490	OPCODE DF,EDMK,\$OPSS1,FLAGS=\$OPREF+\$OPCCA	GP09181	01960000
000F04	C5C4D4D240400F38			491+MACHDF	DC CL6'EDMK',AL1(\$OPSS1,\$OPREF+\$OPCCA+\$OPNCMNT)		00910000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48	07/11/18
				492 *			01970000
				493 *	TO AVOID GETTING SRP EXPANSION THAT WON'T ASSEMBLE, WE CHEAT A		01980000
				494 *	BIT AND DEFINE IT AS 10 DISTINCT INSTRUCTIONS, EXCLUDING THE		01990000
				495 *	INVALID ONES (ROUND NYBBLE > 9)		02000000
				496 *			02010000
				497 *CHEAT*	OPCODE F0,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA	GP10155	02020000
				498 TABLEF0	OPCODE F0,X'0F',0,16,TYPE=TABLE	GP10155	02030000
000F0C	5C0F0010			499+OPTBF0	DC C'*,AL1(X'0F',0,16)	GP05204	01040000
000F10	0000000000000000			500+	DC (16+1)AL4(0) TWO-BYTE OP CODE POINTER	GP99137	01050000
				501	OPCODE F000,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02040000
000F54		00F10		502+	ORG OPTBF0+4+4*X'00'	GP99137	00740000
000F10	00000F54			503+	DC AL4(OP2F000)	GP99137	00750000
000F14		00F54		504+	ORG ,	GP99137	00760000
000F54	E2D9D74040401239			505+OP2F000	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F5C	00000000FF00			506+	DC XL6'00000000FF00'		00950000
				507	OPCODE F001,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02050000
000F62		00F14		508+	ORG OPTBF0+4+4*X'01'	GP99137	00740000
000F14	00000F62			509+	DC AL4(OP2F001)	GP99137	00750000
000F18		00F62		510+	ORG ,	GP99137	00760000
000F62	E2D9D74040401239			511+OP2F001	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F6A	00000000FF00			512+	DC XL6'00000000FF00'		00950000
				513	OPCODE F002,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02060000
000F70		00F18		514+	ORG OPTBF0+4+4*X'02'	GP99137	00740000
000F18	00000F70			515+	DC AL4(OP2F002)	GP99137	00750000
000F1C		00F70		516+	ORG ,	GP99137	00760000
000F70	E2D9D74040401239			517+OP2F002	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F78	00000000FF00			518+	DC XL6'00000000FF00'		00950000
				519	OPCODE F003,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02070000
000F7E		00F1C		520+	ORG OPTBF0+4+4*X'03'	GP99137	00740000
000F1C	00000F7E			521+	DC AL4(OP2F003)	GP99137	00750000
000F20		00F7E		522+	ORG ,	GP99137	00760000
000F7E	E2D9D74040401239			523+OP2F003	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F86	00000000FF00			524+	DC XL6'00000000FF00'		00950000
				525	OPCODE F004,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02080000
000F8C		00F20		526+	ORG OPTBF0+4+4*X'04'	GP99137	00740000
000F20	00000F8C			527+	DC AL4(OP2F004)	GP99137	00750000
000F24		00F8C		528+	ORG ,	GP99137	00760000
000F8C	E2D9D74040401239			529+OP2F004	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000F94	00000000FF00			530+	DC XL6'00000000FF00'		00950000
				531	OPCODE F005,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02090000
000F9A		00F24		532+	ORG OPTBF0+4+4*X'05'	GP99137	00740000
000F24	00000F9A			533+	DC AL4(OP2F005)	GP99137	00750000
000F28		00F9A		534+	ORG ,	GP99137	00760000
000F9A	E2D9D74040401239			535+OP2F005	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000FA2	00000000FF00			536+	DC XL6'00000000FF00'		00950000
				537	OPCODE F006,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02100000
000FA8		00F28		538+	ORG OPTBF0+4+4*X'06'	GP99137	00740000
000F28	00000FA8			539+	DC AL4(OP2F006)	GP99137	00750000
000F2C		00FA8		540+	ORG ,	GP99137	00760000
000FA8	E2D9D74040401239			541+OP2F006	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)		00910000
000FB0	00000000FF00			542+	DC XL6'00000000FF00'		00950000
				543	OPCODE F007,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155	02110000
000FB6		00F2C		544+	ORG OPTBF0+4+4*X'07'	GP99137	00740000
000F2C	00000FB6			545+	DC AL4(OP2F007)	GP99137	00750000
000F30		00FB6		546+	ORG ,	GP99137	00760000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 00.48 07/11/18
000FB6	E2D9D74040401239			547+OP2F007	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FBE	00000000FF00			548+	DC XL6'00000000FF00'	00950000
				549	OPCODE F008,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 02120000
000FC4		00F30		550+	ORG OPTBF0+4+4*X'08'	GP99137 00740000
000F30	00000FC4			551+	DC AL4(OP2F008)	GP99137 00750000
000F34		00FC4		552+	ORG ,	GP99137 00760000
000FC4	E2D9D74040401239			553+OP2F008	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FCC	00000000FF00			554+	DC XL6'00000000FF00'	00950000
				555	OPCODE F009,SRP,\$OPSS4,FLAGS=\$OPREF+\$OPCCA,MASK=00000000FF00	GP10155 02130000
000FD2		00F34		556+	ORG OPTBF0+4+4*X'09'	GP99137 00740000
000F34	00000FD2			557+	DC AL4(OP2F009)	GP99137 00750000
000F38		00FD2		558+	ORG ,	GP99137 00760000
000FD2	E2D9D74040401239			559+OP2F009	DC CL6'SRP',AL1(\$OPSS4,\$OPREF+\$OPCCA+\$OPNCMNT+\$OPMASK)	00910000
000FDA	00000000FF00			560+	DC XL6'00000000FF00'	00950000
				561	OPCODE F1,MVO,\$OPSS2,FLAGS=\$OPREF	02140000
000FE0	D4E5D64040401030			562+MACHF1	DC CL6'MVO',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				563	OPCODE F2,PACK,\$OPSS2,FLAGS=\$OPREF	02150000
000FE8	D7C1C3D240401030			564+MACHF2	DC CL6'PACK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				565	OPCODE F3,UNPK,\$OPSS2,FLAGS=\$OPREF	02160000
000FF0	E4D5D7D240401030			566+MACHF3	DC CL6'UNPK',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				567	OPCODE F8,ZAP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02170000
000FF8	E9C1D74040401038			568+MACHF8	DC CL6'ZAP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				569	OPCODE F9,CP,\$OPSS2,FLAGS=\$OPREF+\$OPCCC	02180000
001000	C3D7404040401034			570+MACHF9	DC CL6'CP',AL1(\$OPSS2,\$OPREF+\$OPCCC+\$OPNCMNT)	00910000
				571	OPCODE FA,AP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02190000
001008	C1D7404040401038			572+MACHFA	DC CL6'AP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				573	OPCODE FB,SP,\$OPSS2,FLAGS=\$OPREF+\$OPCCA	02200000
001010	E2D7404040401038			574+MACHFB	DC CL6'SP',AL1(\$OPSS2,\$OPREF+\$OPCCA+\$OPNCMNT)	00910000
				575	OPCODE FC,MP,\$OPSS2,FLAGS=\$OPREF	02210000
001018	D4D7404040401030			576+MACHFC	DC CL6'MP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				577	OPCODE FD,DP,\$OPSS2,FLAGS=\$OPREF	02220000
001020	C4D7404040401030			578+MACHFD	DC CL6'DP',AL1(\$OPSS2,\$OPREF+\$OPNCMNT)	00910000
				579 *	----- *	02230000
				580 *		02240000
				581 *	INDEX TO OPCODE TABLE	02250000
				582 *		02260000
				583 *	----- *	02270000
001028		00000		584	ORG DISOP37B+0	02280000
000000				585 OPINDEX	DS 0A	02290000
				586	OPCODE TYPE=INDEX	02300000
000000	00000400			587+	DC A(MACH00)	01100000
000004	00000000			588+	DC A(0)	01100000
000008	00000000			589+	DC A(0)	01100000
00000C	00000000			590+	DC A(0)	01100000
000010	00000408			591+	DC A(MACH04)	01100000
000014	00000416			592+	DC A(MACH05)	01100000
000018	0000042A			593+	DC A(MACH06)	01100000
00001C	0000043E			594+	DC A(MACH07)	01100000
000020	00000446			595+	DC A(MACH08)	01100000
000024	0000044E			596+	DC A(MACH09)	01100000
000028	00000456			597+	DC A(MACH0A)	01100000
00002C	00000000			598+	DC A(0)	01100000
000030	00000000			599+	DC A(0)	01100000
000034	0000046A			600+	DC A(MACH0D)	01100000
000038	00000472			601+	DC A(MACH0E)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
00003C	00000480			602+	DC	A(MACH0F)	01100000
000040	0000048E			603+	DC	A(MACH10)	01100000
000044	00000496			604+	DC	A(MACH11)	01100000
000048	0000049E			605+	DC	A(MACH12)	01100000
00004C	000004A6			606+	DC	A(MACH13)	01100000
000050	000004AE			607+	DC	A(MACH14)	01100000
000054	000004B6			608+	DC	A(MACH15)	01100000
000058	000004BE			609+	DC	A(MACH16)	01100000
00005C	000004C6			610+	DC	A(MACH17)	01100000
000060	000004CE			611+	DC	A(MACH18)	01100000
000064	000004D6			612+	DC	A(MACH19)	01100000
000068	000004DE			613+	DC	A(MACH1A)	01100000
00006C	000004E6			614+	DC	A(MACH1B)	01100000
000070	000004EE			615+	DC	A(MACH1C)	01100000
000074	000004FC			616+	DC	A(MACH1D)	01100000
000078	0000050A			617+	DC	A(MACH1E)	01100000
00007C	00000512			618+	DC	A(MACH1F)	01100000
000080	0000051A			619+	DC	A(MACH20)	01100000
000084	00000528			620+	DC	A(MACH21)	01100000
000088	00000536			621+	DC	A(MACH22)	01100000
00008C	00000544			622+	DC	A(MACH23)	01100000
000090	00000552			623+	DC	A(MACH24)	01100000
000094	00000560			624+	DC	A(MACH25)	01100000
000098	0000056E			625+	DC	A(MACH26)	01100000
00009C	0000057C			626+	DC	A(MACH27)	01100000
0000A0	0000058A			627+	DC	A(MACH28)	01100000
0000A4	00000598			628+	DC	A(MACH29)	01100000
0000A8	000005A6			629+	DC	A(MACH2A)	01100000
0000AC	000005B4			630+	DC	A(MACH2B)	01100000
0000B0	000005C2			631+	DC	A(MACH2C)	01100000
0000B4	000005D0			632+	DC	A(MACH2D)	01100000
0000B8	000005DE			633+	DC	A(MACH2E)	01100000
0000BC	000005EC			634+	DC	A(MACH2F)	01100000
0000C0	000005FA			635+	DC	A(MACH30)	01100000
0000C4	00000608			636+	DC	A(MACH31)	01100000
0000C8	00000616			637+	DC	A(MACH32)	01100000
0000CC	00000624			638+	DC	A(MACH33)	01100000
0000D0	00000632			639+	DC	A(MACH34)	01100000
0000D4	00000640			640+	DC	A(MACH35)	01100000
0000D8	0000064E			641+	DC	A(MACH36)	01100000
0000DC	0000065C			642+	DC	A(MACH37)	01100000
0000E0	0000066A			643+	DC	A(MACH38)	01100000
0000E4	00000678			644+	DC	A(MACH39)	01100000
0000E8	00000686			645+	DC	A(MACH3A)	01100000
0000EC	00000694			646+	DC	A(MACH3B)	01100000
0000F0	000006A2			647+	DC	A(MACH3C)	01100000
0000F4	000006B0			648+	DC	A(MACH3D)	01100000
0000F8	000006BE			649+	DC	A(MACH3E)	01100000
0000FC	000006CC			650+	DC	A(MACH3F)	01100000
000100	000006DA			651+	DC	A(MACH40)	01100000
000104	000006E2			652+	DC	A(MACH41)	01100000
000108	000006EA			653+	DC	A(MACH42)	01100000
00010C	000006F2			654+	DC	A(MACH43)	01100000
000110	000006FA			655+	DC	A(MACH44)	01100000
000114	00000702			656+	DC	A(MACH45)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
000118	00000716			657+	DC	A(MACH46)	01100000
00011C	0000072A			658+	DC	A(MACH47)	01100000
000120	00000732			659+	DC	A(MACH48)	01100000
000124	0000073A			660+	DC	A(MACH49)	01100000
000128	00000742			661+	DC	A(MACH4A)	01100000
00012C	0000074A			662+	DC	A(MACH4B)	01100000
000130	00000752			663+	DC	A(MACH4C)	01100000
000134	0000075A			664+	DC	A(MACH4D)	01100000
000138	00000762			665+	DC	A(MACH4E)	01100000
00013C	0000076A			666+	DC	A(MACH4F)	01100000
000140	00000772			667+	DC	A(MACH50)	01100000
000144	00000000			668+	DC	A(0)	01100000
000148	00000000			669+	DC	A(0)	01100000
00014C	00000000			670+	DC	A(0)	01100000
000150	0000077A			671+	DC	A(MACH54)	01100000
000154	00000782			672+	DC	A(MACH55)	01100000
000158	0000078A			673+	DC	A(MACH56)	01100000
00015C	00000792			674+	DC	A(MACH57)	01100000
000160	0000079A			675+	DC	A(MACH58)	01100000
000164	000007A2			676+	DC	A(MACH59)	01100000
000168	000007AA			677+	DC	A(MACH5A)	01100000
00016C	000007B2			678+	DC	A(MACH5B)	01100000
000170	000007BA			679+	DC	A(MACH5C)	01100000
000174	000007C8			680+	DC	A(MACH5D)	01100000
000178	000007D6			681+	DC	A(MACH5E)	01100000
00017C	000007DE			682+	DC	A(MACH5F)	01100000
000180	000007E6			683+	DC	A(MACH60)	01100000
000184	00000000			684+	DC	A(0)	01100000
000188	00000000			685+	DC	A(0)	01100000
00018C	00000000			686+	DC	A(0)	01100000
000190	00000000			687+	DC	A(0)	01100000
000194	00000000			688+	DC	A(0)	01100000
000198	00000000			689+	DC	A(0)	01100000
00019C	000007F4			690+	DC	A(MACH67)	01100000
0001A0	00000802			691+	DC	A(MACH68)	01100000
0001A4	00000810			692+	DC	A(MACH69)	01100000
0001A8	0000081E			693+	DC	A(MACH6A)	01100000
0001AC	0000082C			694+	DC	A(MACH6B)	01100000
0001B0	0000083A			695+	DC	A(MACH6C)	01100000
0001B4	00000848			696+	DC	A(MACH6D)	01100000
0001B8	00000856			697+	DC	A(MACH6E)	01100000
0001BC	00000864			698+	DC	A(MACH6F)	01100000
0001C0	00000872			699+	DC	A(MACH70)	01100000
0001C4	00000000			700+	DC	A(0)	01100000
0001C8	00000000			701+	DC	A(0)	01100000
0001CC	00000000			702+	DC	A(0)	01100000
0001D0	00000000			703+	DC	A(0)	01100000
0001D4	00000000			704+	DC	A(0)	01100000
0001D8	00000000			705+	DC	A(0)	01100000
0001DC	00000000			706+	DC	A(0)	01100000
0001E0	00000880			707+	DC	A(MACH78)	01100000
0001E4	0000088E			708+	DC	A(MACH79)	01100000
0001E8	0000089C			709+	DC	A(MACH7A)	01100000
0001EC	000008AA			710+	DC	A(MACH7B)	01100000
0001F0	000008B8			711+	DC	A(MACH7C)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0001F4	000008C6			712+	DC	A(MACH7D)	01100000
0001F8	000008D4			713+	DC	A(MACH7E)	01100000
0001FC	000008E2			714+	DC	A(MACH7F)	01100000
000200	00000000			715+	DC	A(0)	01100000
000204	00000000			716+	DC	A(0)	01100000
000208	000008F0			717+	DC	A(MACH82)	01100000
00020C	000008FE			718+	DC	A(MACH83)	01100000
000210	00000000			719+	DC	A(0)	01100000
000214	00000000			720+	DC	A(0)	01100000
000218	00000906			721+	DC	A(MACH86)	01100000
00021C	0000090E			722+	DC	A(MACH87)	01100000
000220	00000916			723+	DC	A(MACH88)	01100000
000224	00000924			724+	DC	A(MACH89)	01100000
000228	00000932			725+	DC	A(MACH8A)	01100000
00022C	00000940			726+	DC	A(MACH8B)	01100000
000230	0000094E			727+	DC	A(MACH8C)	01100000
000234	0000095C			728+	DC	A(MACH8D)	01100000
000238	0000096A			729+	DC	A(MACH8E)	01100000
00023C	00000978			730+	DC	A(MACH8F)	01100000
000240	00000986			731+	DC	A(MACH90)	01100000
000244	0000098E			732+	DC	A(MACH91)	01100000
000248	00000996			733+	DC	A(MACH92)	01100000
00024C	0000099E			734+	DC	A(MACH93)	01100000
000250	000009AC			735+	DC	A(MACH94)	01100000
000254	000009B4			736+	DC	A(MACH95)	01100000
000258	000009BC			737+	DC	A(MACH96)	01100000
00025C	000009C4			738+	DC	A(MACH97)	01100000
000260	000009CC			739+	DC	A(MACH98)	01100000
000264	00000000			740+	DC	A(0)	01100000
000268	00000000			741+	DC	A(0)	01100000
00026C	00000000			742+	DC	A(0)	01100000
000270	00000000			743+	DC	A(0)	01100000
000274	00000000			744+	DC	A(0)	01100000
000278	00000000			745+	DC	A(0)	01100000
00027C	00000000			746+	DC	A(0)	01100000
000280	00000000			747+	DC	A(0)	01100000
000284	00000000			748+	DC	A(0)	01100000
000288	00000000			749+	DC	A(0)	01100000
00028C	00000000			750+	DC	A(0)	01100000
000290	00000000			751+	DC	A(0)	01100000
000294	00000000			752+	DC	A(0)	01100000
000298	00000000			753+	DC	A(0)	01100000
00029C	00000000			754+	DC	A(0)	01100000
0002A0	00000000			755+	DC	A(0)	01100000
0002A4	00000000			756+	DC	A(0)	01100000
0002A8	00000000			757+	DC	A(0)	01100000
0002AC	00000000			758+	DC	A(0)	01100000
0002B0	000009D4			759+	DC	A(MACHAC)	01100000
0002B4	000009DC			760+	DC	A(MACHAD)	01100000
0002B8	000009E4			761+	DC	A(MACHAE)	01100000
0002BC	000009EC			762+	DC	A(MACHAF)	01100000
0002C0	00000000			763+	DC	A(0)	01100000
0002C4	000009F4			764+	DC	A(MACHB1)	01100000
0002C8	800009FC			765+	DC	A(X'80000000'+OPTBB2)	01100000
0002CC	00000000			766+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0002D0	00000000			767+	DC	A(0)	01100000
0002D4	00000000			768+	DC	A(0)	01100000
0002D8	00000E7C			769+	DC	A(MACHB6)	01100000
0002DC	00000E84			770+	DC	A(MACHB7)	01100000
0002E0	00000000			771+	DC	A(0)	01100000
0002E4	00000000			772+	DC	A(0)	01100000
0002E8	00000E8C			773+	DC	A(MACHBA)	01100000
0002EC	00000E94			774+	DC	A(MACHBB)	01100000
0002F0	00000000			775+	DC	A(0)	01100000
0002F4	00000E9C			776+	DC	A(MACHBD)	01100000
0002F8	00000EA4			777+	DC	A(MACHBE)	01100000
0002FC	00000EAC			778+	DC	A(MACHBF)	01100000
000300	00000000			779+	DC	A(0)	01100000
000304	00000000			780+	DC	A(0)	01100000
000308	00000000			781+	DC	A(0)	01100000
00030C	00000000			782+	DC	A(0)	01100000
000310	00000000			783+	DC	A(0)	01100000
000314	00000000			784+	DC	A(0)	01100000
000318	00000000			785+	DC	A(0)	01100000
00031C	00000000			786+	DC	A(0)	01100000
000320	00000000			787+	DC	A(0)	01100000
000324	00000000			788+	DC	A(0)	01100000
000328	00000000			789+	DC	A(0)	01100000
00032C	00000000			790+	DC	A(0)	01100000
000330	00000000			791+	DC	A(0)	01100000
000334	00000000			792+	DC	A(0)	01100000
000338	00000000			793+	DC	A(0)	01100000
00033C	00000000			794+	DC	A(0)	01100000
000340	00000000			795+	DC	A(0)	01100000
000344	00000EB4			796+	DC	A(MACHD1)	01100000
000348	00000EBC			797+	DC	A(MACHD2)	01100000
00034C	00000EC4			798+	DC	A(MACHD3)	01100000
000350	00000ECC			799+	DC	A(MACHD4)	01100000
000354	00000ED4			800+	DC	A(MACHD5)	01100000
000358	00000EDC			801+	DC	A(MACHD6)	01100000
00035C	00000EE4			802+	DC	A(MACHD7)	01100000
000360	00000000			803+	DC	A(0)	01100000
000364	00000000			804+	DC	A(0)	01100000
000368	00000000			805+	DC	A(0)	01100000
00036C	00000000			806+	DC	A(0)	01100000
000370	00000EEC			807+	DC	A(MACHDC)	01100000
000374	00000EF4			808+	DC	A(MACHDD)	01100000
000378	00000EFC			809+	DC	A(MACHDE)	01100000
00037C	00000F04			810+	DC	A(MACHDF)	01100000
000380	00000000			811+	DC	A(0)	01100000
000384	00000000			812+	DC	A(0)	01100000
000388	00000000			813+	DC	A(0)	01100000
00038C	00000000			814+	DC	A(0)	01100000
000390	00000000			815+	DC	A(0)	01100000
000394	00000000			816+	DC	A(0)	01100000
000398	00000000			817+	DC	A(0)	01100000
00039C	00000000			818+	DC	A(0)	01100000
0003A0	00000000			819+	DC	A(0)	01100000
0003A4	00000000			820+	DC	A(0)	01100000
0003A8	00000000			821+	DC	A(0)	01100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
0003AC	00000000			822+	DC	A(0)	01100000
0003B0	00000000			823+	DC	A(0)	01100000
0003B4	00000000			824+	DC	A(0)	01100000
0003B8	00000000			825+	DC	A(0)	01100000
0003BC	00000000			826+	DC	A(0)	01100000
0003C0	80000F0C			827+	DC	A(X'80000000'+OPTBF0)	01100000
0003C4	00000FE0			828+	DC	A(MACHF1)	01100000
0003C8	00000FE8			829+	DC	A(MACHF2)	01100000
0003CC	00000FF0			830+	DC	A(MACHF3)	01100000
0003D0	00000000			831+	DC	A(0)	01100000
0003D4	00000000			832+	DC	A(0)	01100000
0003D8	00000000			833+	DC	A(0)	01100000
0003DC	00000000			834+	DC	A(0)	01100000
0003E0	00000FF8			835+	DC	A(MACHF8)	01100000
0003E4	00001000			836+	DC	A(MACHF9)	01100000
0003E8	00001008			837+	DC	A(MACHFA)	01100000
0003EC	00001010			838+	DC	A(MACHFB)	01100000
0003F0	00001018			839+	DC	A(MACHFC)	01100000
0003F4	00001020			840+	DC	A(MACHFD)	01100000
0003F8	00000000			841+	DC	A(0)	01100000
0003FC	00000000			842+	DC	A(0)	01100000
				843	COPY	DISASMDA	02310000
				844	AIF ('&DAPRT' EQ 'ON').DA010		00010000
				845	PRINT OFF		00020000
				1056	PRINT ON		02130000
				1057	.DA020 ANOP		02140000
				1058	*-----*		02320000
				1059	*		* 02330000
				1060	* COMMON DATA MAP		* 02340000
				1061	*		* 02350000
				1062	*-----*		* 02360000
				1063	DISASM00 DISASMCM TYPE=DSECT	GP99137	02370000
				1064+	PRINT OFF		00280000
				1695+	PRINT ON		06440000
				1696+	*-----*		* 06460000
				1697+	*		* 06470000
				1698+	* ABEND REASON CODES		* 06480000
				1699+	*		* 06490000
				1700+	*-----*		* 06500000
	00001	1701+ABEND001	EQU	1	REQUESTED VIA AN ABEND STATEMENT		06510000
	00002	1702+ABEND002	EQU	2	UNKNOWN RETURN CODE FROM BLDL		06520000
	00003	1703+ABEND003	EQU	3	UNKNOWN RLD ITEM TYPE		06530000
	00004	1704+ABEND004	EQU	4	RLD DATA REMAINING WENT NEGATIVE		06540000
	00005	1705+ABEND005	EQU	5	ATTEMPT TO GEN AN INSTR ON ODD ADDR		06550000
	00000	1708+R0	EQU	0			00070000
	00001	1709+R1	EQU	1			00080000
	00002	1710+R2	EQU	2			00090000
	00003	1711+R3	EQU	3			00100000
	00004	1712+R4	EQU	4			00110000
	00005	1713+R5	EQU	5			00120000
	00006	1714+R6	EQU	6			00130000
	00007	1715+R7	EQU	7			00140000
	00008	1716+R8	EQU	8			00150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 00.48 07/11/18
			00009	1717+R9	EQU	9	00160000
			0000A	1718+R10	EQU	10	00170000
			0000B	1719+R11	EQU	11	00180000
			0000C	1720+R12	EQU	12	00190000
			0000D	1721+R13	EQU	13	00200000
			0000E	1722+R14	EQU	14	00210000
			0000F	1723+R15	EQU	15	00220000
000000				1725	END	DISOP37B	02380000

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	000000	
0001	0001	OC	000010	
0001	0001	OC	000014	
0001	0001	OC	000018	
0001	0001	OC	00001C	
0001	0001	OC	000020	
0001	0001	OC	000024	
0001	0001	OC	000028	
0001	0001	OC	000034	
0001	0001	OC	000038	
0001	0001	OC	00003C	
0001	0001	OC	000040	
0001	0001	OC	000044	
0001	0001	OC	000048	
0001	0001	OC	00004C	
0001	0001	OC	000050	
0001	0001	OC	000054	
0001	0001	OC	000058	
0001	0001	OC	00005C	
0001	0001	OC	000060	
0001	0001	OC	000064	
0001	0001	OC	000068	
0001	0001	OC	00006C	
0001	0001	OC	000070	
0001	0001	OC	000074	
0001	0001	OC	000078	
0001	0001	OC	00007C	
0001	0001	OC	000080	
0001	0001	OC	000084	
0001	0001	OC	000088	
0001	0001	OC	00008C	
0001	0001	OC	000090	
0001	0001	OC	000094	
0001	0001	OC	000098	
0001	0001	OC	00009C	
0001	0001	OC	0000A0	
0001	0001	OC	0000A4	
0001	0001	OC	0000A8	
0001	0001	OC	0000AC	
0001	0001	OC	0000B0	
0001	0001	OC	0000B4	
0001	0001	OC	0000B8	
0001	0001	OC	0000BC	
0001	0001	OC	0000C0	
0001	0001	OC	0000C4	
0001	0001	OC	0000C8	
0001	0001	OC	0000CC	
0001	0001	OC	0000D0	
0001	0001	OC	0000D4	
0001	0001	OC	0000D8	
0001	0001	OC	0000DC	
0001	0001	OC	0000E0	
0001	0001	OC	0000E4	
0001	0001	OC	0000E8	
0001	0001	OC	0000EC	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	0000F0	
0001	0001	OC	0000F4	
0001	0001	OC	0000F8	
0001	0001	OC	0000FC	
0001	0001	OC	000100	
0001	0001	OC	000104	
0001	0001	OC	000108	
0001	0001	OC	00010C	
0001	0001	OC	000110	
0001	0001	OC	000114	
0001	0001	OC	000118	
0001	0001	OC	00011C	
0001	0001	OC	000120	
0001	0001	OC	000124	
0001	0001	OC	000128	
0001	0001	OC	00012C	
0001	0001	OC	000130	
0001	0001	OC	000134	
0001	0001	OC	000138	
0001	0001	OC	00013C	
0001	0001	OC	000140	
0001	0001	OC	000150	
0001	0001	OC	000154	
0001	0001	OC	000158	
0001	0001	OC	00015C	
0001	0001	OC	000160	
0001	0001	OC	000164	
0001	0001	OC	000168	
0001	0001	OC	00016C	
0001	0001	OC	000170	
0001	0001	OC	000174	
0001	0001	OC	000178	
0001	0001	OC	00017C	
0001	0001	OC	000180	
0001	0001	OC	00019C	
0001	0001	OC	0001A0	
0001	0001	OC	0001A4	
0001	0001	OC	0001A8	
0001	0001	OC	0001AC	
0001	0001	OC	0001B0	
0001	0001	OC	0001B4	
0001	0001	OC	0001B8	
0001	0001	OC	0001BC	
0001	0001	OC	0001C0	
0001	0001	OC	0001E0	
0001	0001	OC	0001E4	
0001	0001	OC	0001E8	
0001	0001	OC	0001EC	
0001	0001	OC	0001F0	
0001	0001	OC	0001F4	
0001	0001	OC	0001F8	
0001	0001	OC	0001FC	
0001	0001	OC	000208	
0001	0001	OC	00020C	
0001	0001	OC	000218	

POS.ID	REL.ID	FLAGS	ADDRESS	ASM 0201 00.48 07/11/18
0001	0001	OC	00021C	
0001	0001	OC	000220	
0001	0001	OC	000224	
0001	0001	OC	000228	
0001	0001	OC	00022C	
0001	0001	OC	000230	
0001	0001	OC	000234	
0001	0001	OC	000238	
0001	0001	OC	00023C	
0001	0001	OC	000240	
0001	0001	OC	000244	
0001	0001	OC	000248	
0001	0001	OC	00024C	
0001	0001	OC	000250	
0001	0001	OC	000254	
0001	0001	OC	000258	
0001	0001	OC	00025C	
0001	0001	OC	000260	
0001	0001	OC	0002B0	
0001	0001	OC	0002B4	
0001	0001	OC	0002B8	
0001	0001	OC	0002BC	
0001	0001	OC	0002C4	
0001	0001	OC	0002C8	
0001	0001	OC	0002D8	
0001	0001	OC	0002DC	
0001	0001	OC	0002E8	
0001	0001	OC	0002EC	
0001	0001	OC	0002F4	
0001	0001	OC	0002F8	
0001	0001	OC	0002FC	
0001	0001	OC	000344	
0001	0001	OC	000348	
0001	0001	OC	00034C	
0001	0001	OC	000350	
0001	0001	OC	000354	
0001	0001	OC	000358	
0001	0001	OC	00035C	
0001	0001	OC	000370	
0001	0001	OC	000374	
0001	0001	OC	000378	
0001	0001	OC	00037C	
0001	0001	OC	0003C0	
0001	0001	OC	0003C4	
0001	0001	OC	0003C8	
0001	0001	OC	0003CC	
0001	0001	OC	0003E0	
0001	0001	OC	0003E4	
0001	0001	OC	0003E8	
0001	0001	OC	0003EC	
0001	0001	OC	0003F0	
0001	0001	OC	0003F4	
0001	0001	OC	000A08	
0001	0001	OC	000A10	
0001	0001	OC	000A14	

POS.ID REL.ID FLAGS ADDRESS ASM 0201 00.48 07/11/18

0001	0001	OC	000A18
0001	0001	OC	000A1C
0001	0001	OC	000A20
0001	0001	OC	000A24
0001	0001	OC	000A28
0001	0001	OC	000A2C
0001	0001	OC	000A34
0001	0001	OC	000A40
0001	0001	OC	000A44
0001	0001	OC	000A48
0001	0001	OC	000A4C
0001	0001	OC	000F10
0001	0001	OC	000F14
0001	0001	OC	000F18
0001	0001	OC	000F1C
0001	0001	OC	000F20
0001	0001	OC	000F24
0001	0001	OC	000F28
0001	0001	OC	000F2C
0001	0001	OC	000F30
0001	0001	OC	000F34

OP37B				CROSS-REFERENCE														PAGE 23	
SYMBOL	LEN	VALUE	DEFN	REFERENCES														ASM 0201 00.48 07/11/18	
\$OPCCA	00001	00000008	01687	00061	00064	00067	00069	00071	00073	00087	00089	00097	00099	00101	00104	00107	00110	00131	
				00134	00143	00146	00149	00152	00155	00158	00167	00170	00176	00179	00182	00191	00194	00219	
				00221	00245	00247	00255	00257	00271	00274	00286	00298	00301	00310	00313	00335	00338	00347	
				00350	00359	00376	00380	00469	00487	00489	00491	00505	00511	00517	00523	00529	00535	00541	
				00547	00553	00559	00568	00572	00574										
\$OPCCC	00001	00000004	01688	00077	00085	00128	00217	00235	00243	00268	00295	00364	00461	00463	00465	00479	00570		
\$OPCCL	00001	00000002	01689	00075	00079	00081	00233	00237	00239	00355	00362	00366	00368	00393	00398	00477	00481	00483	
\$OPEXT	00001	00000080	01683	00050	00213														
\$OPMASK	00001	00000001	01690	00041	00061	00064	00091	00094	00101	00104	00107	00110	00113	00116	00119	00122	00125	00128	
				00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	00167	00170	00173	
				00176	00179	00182	00185	00188	00191	00194	00249	00252	00259	00262	00265	00268	00271	00274	
				00277	00280	00283	00286	00289	00292	00295	00298	00301	00304	00307	00310	00313	00318	00329	
				00332	00335	00338	00341	00344	00347	00350	00359	00428	00434	00505	00511	00517	00523	00529	
\$OPNCMNT	00001	00000020	01685	00535	00541	00547	00553	00559	01346										
				00039	00041	00050	00052	00054	00059	00061	00064	00067	00069	00071	00073	00075	00077	00079	
				00081	00083	00085	00087	00089	00091	00094	00097	00099	00101	00104	00107	00110	00113	00116	
				00119	00122	00125	00128	00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	
				00164	00167	00170	00173	00176	00179	00182	00185	00188	00191	00194	00197	00199	00201	00203	
				00205	00213	00215	00217	00219	00221	00223	00225	00227	00229	00231	00233	00235	00237	00239	
				00241	00243	00245	00247	00249	00252	00255	00257	00259	00262	00265	00268	00271	00274	00277	
				00280	00283	00286	00289	00292	00295	00298	00301	00304	00307	00310	00313	00318	00321	00325	
				00327	00329	00332	00335	00338	00341	00344	00347	00350	00353	00355	00357	00359	00362	00364	
				00366	00368	00370	00372	00374	00376	00378	00380	00388	00393	00398	00403	00408	00413	00418	
				00423	00428	00434	00440	00445	00450	00455	00457	00459	00461	00463	00465	00467	00469	00471	
				00473	00475	00477	00479	00481	00483	00485	00487	00489	00491	00505	00511	00517	00523	00529	
				00535	00541	00547	00553	00559	00562	00564	00566	00568	00570	00572	00574	00576	00578		
				00197	00199	00201	00203	00205	00207	00210	00213	00215	00217	00219	00221	00223	00225	00227	
				00229	00231	00233	00235	00237	00239	00241	00243	00245	00247	00249	00252	00255	00257	00259	
				00262	00265	00268	00271	00274	00277	00280	00283	00286	00289	00292	00295	00298	00301	00304	
				00307	00310	00313	00318	00325	00327	00353	00355	00357	00359	00362	00364	00366	00368	00370	
				00372	00374	00380	00388	00393	00398	00403	00408	00413	00418	00423	00428	00434	00440	00445	
				00450	00455	00457	00459	00461	00463	00465	00467	00469	00471	00473	00475	00477	00479	00481	
				00483	00485	00487	00489	00491	00505	00511	00517	00523	00529	00535	00541	00547	00553	00559	
				00562	00564	00566	00568	00570	00572	00574	00576	00578							
				00044	00047	00052	00054	00059	00061	00064	00067	00069	00071	00073	00075	00077	00079	00081	
				00083	00085	00087	00089	00091	00094	00097	00099	00101	00104	00107	00110	00113	00116	00119	
				00122	00125	00128	00131	00134	00137	00140	00143	00146	00149	00152	00155	00158	00161	00164	
				00167	00170	00173	00176	00179	00182	00185	00188	00191	00194						
\$OPRR2	00001	00000002	01661	00056															
\$OPRR3	00001	00000003	01662	00050															
\$OPRR4	00001	00000004	01663	00041															
\$OPRSI	00001	0000000B	01671	00321															
\$OPRS1	00001	0000000C	01672	00329	00332	00335	00338	00341	00344	00347	00350								
\$OPRS2	00001	0000000D	01673	00325	00327	00353	00370	00376	00457	00459	00461	00463							
\$OPRS3	00001	0000000E	01674	00465	00467	00469													
\$OPRX	00001	00000007	01666	00197	00199	00201	00203	00205	00207	00210	00213	00215	00217	00219	00221	00223	00225	00227	
				00229	00231	00233	00235	00237	00239	00241	00243	00245	00247	00249	00252	00255	00257	00259	
				00262	00265	00268	00271	00274	00277	00280	00283	00286	00289	00292	00295	00298	00301	00304	
				00307	00310	00313	00380												
				00318	00359	00388	00393	00398	00403	00408	00413	00418	00423	00428	00434	00440	00445	00450	
\$OPS	00001	00000009	01668	00455															
\$OPSI	00001	0000000A	01669	00355	00357	00362	00364	00366	00368	00372	00374	00378							
\$OPSS1	00001	0000000F	01675	00471	00473	00475	00477	00479	00481	00483	00485	00487	00489	00491					
\$OPSS2	00001	00000010	01676	00562	00564	00566	00568	00570	00572	00574	00576	00578							
\$OPSS4	00001	00000012	01678	00505	00511	00517	00523	00529	00535	00541	00547	00553	00559						

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
\$OP SVC	00001	00000040	01684	00056	
\$PF TRC	00001	00000001	01198	01433 01435	
\$PR TPRT	00001	000000D7	01557	01543 01564	
\$PR TSUBH	00001	000000E2	01556	01439	
AOP	00004	000000AC	01104	01327	
APR	00004	000000B8	01106	01546	
APU	00004	000000BC	01107	01567	
BASED SCT	00001	00000000	00863	00871	
BLK TRT	00001	00000A68	01604	01605 01607 01609 01611 01613 01615 01617 01619 01621 01623 01625 01627 01629	
COMM CLR	00004	000000F8	01133	01153 01157	
COMM DWRD	00008	00000000	01071	01458 01459	
COMM FILL	00001	00000161	01174	01503	
COMM HXCH	00016	00000275	01223	01224	
COMM HXTR	00016	00000185	01224	01450 01453 01456 01460	
COMM NPRT	00001	000003C7	01279	01280 01282 01284 01286 01288 01290 01292 01294 01296 01298 01300 01302 01304	
COMM POOL	00001	00000162	01175	01495 01510	
COMM PRT	00001	000002C7	01250	01251 01253 01255 01257 01259 01261 01263 01265 01267 01269 01271 01273	
COMMSUBH	00133	0000016D	01218	01436	
COMMSUBL	00002	00000154	01168	01437 01437 01438	
DATAD SCT	00001	00000000	00878	00899	
DISASM00	00001	00000000	01065	01078 01317 01394 01431 01492 01528	
DISOP37B	00001	00000000	00033	00034 00584 01725	
DSCTD SCT	00001	00000000	00906	00912	
ESDDATA	00001	00000000	00919	00942	
ESDNAME	00008	0000000E	00923	00938	
EXGETOPC	00006	00000554	01358	01351	
GETOPEXT	00004	00000546	01354	01347	
GETOPLN	00001	0000055A	01359	01325	
GETOPNOT	00004	0000054E	01356	01330 01340 01345 01353	
GETOPTMK	00004	00000526	01346	01331	
GETOPWRK	00006	0000055E	01360	01350 01350 01352 01358	
HEXTRT	00001	00000868	01586	01587 01589 01591 01593 01595	
INTTRT	00001	00000968	01597	01598 01600 01602	
LABLD SCT	00001	00000000	00949	00965	
MACHAC	00006	000009D4	00372	00759	
MACHAD	00006	000009DC	00374	00760	
MACHAE	00006	000009E4	00376	00761	
MACHAF	00006	000009EC	00378	00762	
MACHBA	00006	00000E8C	00461	00773	
MACHBB	00006	00000E94	00463	00774	
MACHBD	00006	00000E9C	00465	00776	
MACHBE	00006	00000EA4	00467	00777	
MACHBF	00006	00000EAC	00469	00778	
MACHB1	00006	000009F4	00380	00764	
MACHB6	00006	00000E7C	00457	00769	
MACHB7	00006	00000E84	00459	00770	
MACHDC	00006	00000EEC	00485	00807	
MACHDD	00006	00000EF4	00487	00808	
MACHDE	00006	00000EFC	00489	00809	
MACHDF	00006	00000F04	00491	00810	
MACHD1	00006	00000EB4	00471	00796	
MACHD2	00006	00000EBC	00473	00797	
MACHD3	00006	00000EC4	00475	00798	
MACHD4	00006	00000ECC	00477	00799	
MACHD5	00006	00000ED4	00479	00800	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACHD6	00006	00000EDC	00481	00801	
MACHD7	00006	00000EE4	00483	00802	
MACHFA	00006	00001008	00572	00837	
MACHFB	00006	00001010	00574	00838	
MACHFC	00006	00001018	00576	00839	
MACHFD	00006	00001020	00578	00840	
MACHF1	00006	00000FE0	00562	00828	
MACHF2	00006	00000FE8	00564	00829	
MACHF3	00006	00000FF0	00566	00830	
MACHF8	00006	00000FF8	00568	00835	
MACHF9	00006	00001000	00570	00836	
MACH0A	00006	00000456	00056	00597	
MACH0D	00006	0000046A	00059	00600	
MACH0E	00006	00000472	00061	00601	
MACH0F	00006	00000480	00064	00602	
MACH00	00006	00000400	00039	00587	
MACH04	00006	00000408	00041	00591	
MACH05	00006	00000416	00044	00592	
MACH06	00006	0000042A	00047	00593	
MACH07	00006	0000043E	00050	00594	
MACH08	00006	00000446	00052	00595	
MACH09	00006	0000044E	00054	00596	
MACH1A	00006	000004DE	00087	00613	
MACH1B	00006	000004E6	00089	00614	
MACH1C	00006	000004EE	00091	00615	
MACH1D	00006	000004FC	00094	00616	
MACH1E	00006	0000050A	00097	00617	
MACH1F	00006	00000512	00099	00618	
MACH10	00006	0000048E	00067	00603	
MACH11	00006	00000496	00069	00604	
MACH12	00006	0000049E	00071	00605	
MACH13	00006	000004A6	00073	00606	
MACH14	00006	000004AE	00075	00607	
MACH15	00006	000004B6	00077	00608	
MACH16	00006	000004BE	00079	00609	
MACH17	00006	000004C6	00081	00610	
MACH18	00006	000004CE	00083	00611	
MACH19	00006	000004D6	00085	00612	
MACH2A	00006	000005A6	00131	00629	
MACH2B	00006	000005B4	00134	00630	
MACH2C	00006	000005C2	00137	00631	
MACH2D	00006	000005D0	00140	00632	
MACH2E	00006	000005DE	00143	00633	
MACH2F	00006	000005EC	00146	00634	
MACH20	00006	0000051A	00101	00619	
MACH21	00006	00000528	00104	00620	
MACH22	00006	00000536	00107	00621	
MACH23	00006	00000544	00110	00622	
MACH24	00006	00000552	00113	00623	
MACH25	00006	00000560	00116	00624	
MACH26	00006	0000056E	00119	00625	
MACH27	00006	0000057C	00122	00626	
MACH28	00006	0000058A	00125	00627	
MACH29	00006	00000598	00128	00628	
MACH3A	00006	00000686	00179	00645	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH3B	00006	00000694	00182	00646	
MACH3C	00006	000006A2	00185	00647	
MACH3D	00006	000006B0	00188	00648	
MACH3E	00006	000006BE	00191	00649	
MACH3F	00006	000006CC	00194	00650	
MACH30	00006	000005FA	00149	00635	
MACH31	00006	00000608	00152	00636	
MACH32	00006	00000616	00155	00637	
MACH33	00006	00000624	00158	00638	
MACH34	00006	00000632	00161	00639	
MACH35	00006	00000640	00164	00640	
MACH36	00006	0000064E	00167	00641	
MACH37	00006	0000065C	00170	00642	
MACH38	00006	0000066A	00173	00643	
MACH39	00006	00000678	00176	00644	
MACH4A	00006	00000742	00219	00661	
MACH4B	00006	0000074A	00221	00662	
MACH4C	00006	00000752	00223	00663	
MACH4D	00006	0000075A	00225	00664	
MACH4E	00006	00000762	00227	00665	
MACH4F	00006	0000076A	00229	00666	
MACH40	00006	000006DA	00197	00651	
MACH41	00006	000006E2	00199	00652	
MACH42	00006	000006EA	00201	00653	
MACH43	00006	000006F2	00203	00654	
MACH44	00006	000006FA	00205	00655	
MACH45	00006	00000702	00207	00656	
MACH46	00006	00000716	00210	00657	
MACH47	00006	0000072A	00213	00658	
MACH48	00006	00000732	00215	00659	
MACH49	00006	0000073A	00217	00660	
MACH5A	00006	000007AA	00245	00677	
MACH5B	00006	000007B2	00247	00678	
MACH5C	00006	000007BA	00249	00679	
MACH5D	00006	000007C8	00252	00680	
MACH5E	00006	000007D6	00255	00681	
MACH5F	00006	000007DE	00257	00682	
MACH50	00006	00000772	00231	00667	
MACH54	00006	0000077A	00233	00671	
MACH55	00006	00000782	00235	00672	
MACH56	00006	0000078A	00237	00673	
MACH57	00006	00000792	00239	00674	
MACH58	00006	0000079A	00241	00675	
MACH59	00006	000007A2	00243	00676	
MACH6A	00006	0000081E	00271	00693	
MACH6B	00006	0000082C	00274	00694	
MACH6C	00006	0000083A	00277	00695	
MACH6D	00006	00000848	00280	00696	
MACH6E	00006	00000856	00283	00697	
MACH6F	00006	00000864	00286	00698	
MACH60	00006	000007E6	00259	00683	
MACH67	00006	000007F4	00262	00690	
MACH68	00006	00000802	00265	00691	
MACH69	00006	00000810	00268	00692	
MACH7A	00006	0000089C	00298	00709	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18
MACH7B	00006	000008AA	00301	00710	
MACH7C	00006	000008B8	00304	00711	
MACH7D	00006	000008C6	00307	00712	
MACH7E	00006	000008D4	00310	00713	
MACH7F	00006	000008E2	00313	00714	
MACH70	00006	00000872	00289	00699	
MACH78	00006	00000880	00292	00707	
MACH79	00006	0000088E	00295	00708	
MACH8A	00006	00000932	00335	00725	
MACH8B	00006	00000940	00338	00726	
MACH8C	00006	0000094E	00341	00727	
MACH8D	00006	0000095C	00344	00728	
MACH8E	00006	0000096A	00347	00729	
MACH8F	00006	00000978	00350	00730	
MACH82	00006	000008F0	00318	00717	
MACH83	00006	000008FE	00321	00718	
MACH86	00006	00000906	00325	00721	
MACH87	00006	0000090E	00327	00722	
MACH88	00006	00000916	00329	00723	
MACH89	00006	00000924	00332	00724	
MACH90	00006	00000986	00353	00731	
MACH91	00006	0000098E	00355	00732	
MACH92	00006	00000996	00357	00733	
MACH93	00006	0000099E	00359	00734	
MACH94	00006	000009AC	00362	00735	
MACH95	00006	000009B4	00364	00736	
MACH96	00006	000009BC	00366	00737	
MACH97	00006	000009C4	00368	00738	
MACH98	00006	000009CC	00370	00739	
MAINRSV	00004	00000858	01584	01493 01499 01501 01505 01508 01514	
NBLTRT	00001	00000B68	01631	01632 01634	
OPDSECT	00001	00000000	01653	01328 01691	
OPFLAGS	00001	00000007	01682	01346	
OPFLAG1	00001	00000001	01655	01335	
OPFLAG2	00001	00000002	01656	01337	
OPFLAG3	00001	00000003	01657	01339	
OPMASK	00006	00000008	01692	01352	
OPMNEM	00006	00000000	01654	01655 01656 01657	
OPTBB2	00001	000009FC	00382	00385 00390 00395 00400 00405 00410 00415 00420 00425 00431 00437 00442 00447 00452 00765	
OPTBF0	00001	00000F0C	00499	00502 00508 00514 00520 00526 00532 00538 00544 00550 00556 00827	
OP2B20A	00006	00000E38	00423	00421	
OP2B20B	00006	00000E40	00428	00426	
OP2B20D	00006	00000E4E	00434	00432	
OP2B202	00006	00000E00	00388	00386	
OP2B204	00006	00000E08	00393	00391	
OP2B205	00006	00000E10	00398	00396	
OP2B206	00006	00000E18	00403	00401	
OP2B207	00006	00000E20	00408	00406	
OP2B208	00006	00000E28	00413	00411	
OP2B209	00006	00000E30	00418	00416	
OP2B210	00006	00000E5C	00440	00438	
OP2B211	00006	00000E64	00445	00443	
OP2B212	00006	00000E6C	00450	00448	
OP2B213	00006	00000E74	00455	00453	
OP2F000	00006	00000F54	00505	00503	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 00.48 07/11/18		
TRDATA2	00008	000000E8	01123	01411 01413 01413			
TREDATA1	00008	00000010	01644	01410 01449 01452			
TREDATA2	00008	00000018	01645	01411 01455 01458			
TREID	00008	00000008	01643	01409 01448			
TREMOD	00008	00000000	01642	01408 01445 01447			
TRETRY	00001	00000000	01641	01395 01444 01463 01463 01646			
TRETRYL	00001	00000020	01646	01401 01463 01464			
TRLAST	00004	000000CC	01117	01402 01467			
TR1ST	00004	000000C4	01115	01404 01469			
USNGDSCT	00001	00000000	01026	01040			
VERPSECT	00001	00000000	01047	01053			

ASM 0201 00.48 07/11/18

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =32758/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 238

TOTAL RECORDS READ FROM SYSTEM LIBRARY 2717

TOTAL RECORDS PUNCHED 134

TOTAL RECORDS PRINTED 1489

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LET,LIST,NCAL
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
****DISOP37B DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.

