

J E S 2 J O B L O G

16.30.59 JOB 1032 \$HASP373 JLM0001 STARTED - INIT 1 - CLASS A - SYS HMVS
16.30.59 JOB 1032 IEF403I JLM0001 - STARTED - TIME=16.30.59
16.30.59 JOB 1032 IEFACTRT UPDATE01/IEBUPDTE/00:00:00.03/00:00:00.07/00000/JLM0001
16.30.59 JOB 1032 IEFACTRT ASM /IFOX00 /00:00:00.35/00:00:00.59/00000/JLM0001
16.31.02 JOB 1032 IEFACTRT HMASMP /HMASMP /00:00:02.25/00:00:02.65/00004/JLM0001
16.31.02 JOB 1032 IEF404I JLM0001 - ENDED - TIME=16.31.02
16.31.02 JOB 1032 \$HASP395 JLM0001 ENDED

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

08 FEB 22 JOB EXECUTION DATE

1,108 CARDS READ

4,133 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.05 MINUTES EXECUTION TIME

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1 //JLM0001 JOB (SYSGEN),'USERMOD: JLM0001', JOB 1032
// CLASS=A,
// MSGCLASS=X,
// MSGLEVEL=(1,1),
// REGION=4096K
***JOBPARM LINES=100
2 //JOB CAT DD DSN=SYS1.VSAM.MASTER.CATALOG,DISP=SHR
***
*****
*** Install USERMOD JLM0001 - IEFACRT exit to provide job/step *
*** accounting information (source: Brian Westerman/ *
*****
*** - - - - -
3 //UPDATE01 EXEC PGM=IEBUPDTE,PARM=NEW
4 //SYS PRINT DD SYSOUT=*
5 //SYSUT2 DD DISP=SHR,DSN=SYS1.UMODSRC
6 //SYSIN DD *
***
7 //SMPASM02 EXEC SMPASM,M=IEFACRT,COND=(0,NE)
***
8 XXSMPASM PROC M=MISSING 00000010
*** ***** * 00000020
*** ASSEMBLE USER MOD * 00000030
*** ***** * 00000040
9 XXASM EXEC PGM=IFOX00, 00000050
XX REGION=4096K, 00000060
XX PARM='LIST,XREF(SHORT),DECK,NOBJECT' 00000070
10 XXSYS PRINT DD SYSOUT=* 00000080
11 XXSYSTEM DD SYSOUT=* 00000090
12 XXSYS PUNCH DD DISP=SHR,DSN=SYS1.UMODOBJ(&M) 00000100
13 XXSYSLIB DD DISP=SHR,DSN=SYS1.MACLIB,DCB=BLKSIZE=32720 00000110
14 XX DD DISP=SHR,DSN=SYS1.AMODGEN 00000120
15 XX DD DISP=SHR,DSN=SYS1.UMODMAC 00000130
16 XX DD DISP=SHR,DSN=SYS1.UMODSRC 00000140
17 XX DD DISP=SHR,DSN=SYS1.HASPSRC 00000150
18 XX DD DISP=SHR,DSN=SYS1.APVTMACS 00000160
19 XXSYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(2,1)) 00000170
20 XXSYSUT2 DD UNIT=SYSDA,SPACE=(CYL,(2,1)) 00000180
21 XXSYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(2,1)) 00000190
22 XXSYSIN DD DISP=SHR,DSN=SYS1.UMODSRC(&M) 00000200
23 //RECV03 EXEC SMPAPP,COND=(0,NE),WORK=SYSALLDA
*** ***** * 00000010
*** APPLY/RESTORE USER MOD * 00000020
*** ***** * 00000030
24 XXSMPAPP PROC WORK=3350, WORK UNIT 00000040
XX TUNIT=3350, TLIB UNIT 00000050
XX TVOL=WORK00 TLIB VOLUME 00000060
25 XXHMASMP EXEC PGM=HMASMP,PARM='DATE=U',REGION=5120K,TIME=1439 00000070
26 XXSYSUT1 DD UNIT=&WORK,SPACE=(1700,(600,100)) 00000080
27 XXSYSUT2 DD UNIT=&WORK,SPACE=(1700,(600,100)) 00000090
28 XXSYSUT3 DD UNIT=&WORK,SPACE=(1700,(600,100)) 00000100
29 XXSYSUT4 DD UNIT=&WORK,SPACE=(80,(2,2)) 00000110
30 XXSYS PRINT DD SYSOUT=* 00000120
31 XXASM PRINT DD SYSOUT=* 00000130
32 XXCMP PRINT DD SYSOUT=* 00000140
33 XXCOP PRINT DD SYSOUT=* 00000150
34 XXLKD PRINT DD SYSOUT=* 00000160
35 XXE37 PRINT DD SYSOUT=* 00000170
36 XXUPD PRINT DD SYSOUT=* 00000180
37 XXZAP PRINT DD SYSOUT=* 00000190
***** SMP DATASETS ***** 00000200

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38	XXSMPOUT	DD	SYSOUT=*	00000210
39	XXSMPLOG	DD	DUMMY	00000220
40	XXSMPTLIB	DD	DISP=OLD,UNIT=&TUNIT,VOL=SER=&TVOL	00000230
41	XXSYSLIB	DD	DISP=SHR,DSN=SYS1.SMPMTS,DCB=BLKSIZE=32720	00000240
42	XX	DD	DISP=SHR,DSN=SYS1.SMPSTS	00000250
43	XX	DD	DISP=SHR,DSN=SYS1.MACLIB	00000260
44	XX	DD	DISP=SHR,DSN=SYS1.AMODGEN	00000270
45	XX	DD	DISP=SHR,DSN=SYS1.AMACLIB	00000280
46	XX	DD	DISP=SHR,DSN=SYS1.HASPSRC	00000290
47	XX	DD	DISP=SHR,DSN=SYS1.APVTMACS	00000300
48	XXSMPACDS	DD	DISP=SHR,DSN=SYS1.SMPACDS	00000310
49	XXSMPACRQ	DD	DISP=SHR,DSN=SYS1.SMPACRQ	00000320
50	XXSMPSCDS	DD	DISP=SHR,DSN=SYS1.SMPSCDS	00000330
51	XXSMPCRQ	DD	DISP=SHR,DSN=SYS1.SMPCRQ	00000340
52	XXSMPMTS	DD	DISP=SHR,DSN=SYS1.SMPMTS	00000350
53	XXSMPPTS	DD	DISP=SHR,DSN=SYS1.SMPPTS	00000360
54	XXSMPSTS	DD	DISP=SHR,DSN=SYS1.SMPSTS	00000370
55	XXSMPSCDS	DD	DISP=SHR,DSN=SYS1.SMPSCDS	00000380
56	XXSMPWRK1	DD	UNIT=&WORK,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,	00000390
	XX		LRECL=80)	00000400
57	XXSMPWRK2	DD	UNIT=&WORK,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,	00000410
	XX		LRECL=80)	00000420
58	XXSMPWRK3	DD	UNIT=&WORK,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,	00000430
	XX		LRECL=80)	00000440
59	XXSMPWRK4	DD	UNIT=&WORK,SPACE=(CYL,(1,10,84)),DCB=(BLKSIZE=3120,	00000450
	XX		LRECL=80)	00000460
60	XXSMPWRK5	DD	UNIT=&WORK,SPACE=(CYL,(30,10,250))	00000470
	*****		***** DLIB DATASETS *****	00000480
	*****		***** NEEDED ON RESTORE *****	00000490
61	XXACMDLIB	DD	DISP=SHR,DSN=SYS1.ACMDLIB	00000500
62	XXAGENLIB	DD	DISP=SHR,DSN=SYS1.AGENLIB	00000510
63	XXAHELP	DD	DISP=SHR,DSN=SYS1.AHELP	00000520
64	XXAIMAGE	DD	DISP=SHR,DSN=SYS1.AIMAGE	00000530
65	XXALPALIB	DD	DISP=SHR,DSN=SYS1.ALPALIB	00000540
66	XXAMACLIB	DD	DISP=SHR,DSN=SYS1.AMACLIB	00000550
67	XXAMODGEN	DD	DISP=SHR,DSN=SYS1.AMODGEN	00000560
68	XXAOS00	DD	DISP=SHR,DSN=SYS1.AOS00	00000570
69	XXAOS03	DD	DISP=SHR,DSN=SYS1.AOS03	00000580
70	XXAOS04	DD	DISP=SHR,DSN=SYS1.AOS04	00000590
71	XXAOS05	DD	DISP=SHR,DSN=SYS1.AOS05	00000600
72	XXAOS06	DD	DISP=SHR,DSN=SYS1.AOS06	00000610
73	XXAOS07	DD	DISP=SHR,DSN=SYS1.AOS07	00000620
74	XXAOS11	DD	DISP=SHR,DSN=SYS1.AOS11	00000630
75	XXAOS12	DD	DISP=SHR,DSN=SYS1.AOS12	00000640
76	XXAOS20	DD	DISP=SHR,DSN=SYS1.AOS20	00000650
77	XXAOS21	DD	DISP=SHR,DSN=SYS1.AOS21	00000660
78	XXAOS24	DD	DISP=SHR,DSN=SYS1.AOS24	00000670
79	XXAOS26	DD	DISP=SHR,DSN=SYS1.AOS26	00000680
80	XXAOS29	DD	DISP=SHR,DSN=SYS1.AOS29	00000690
81	XXAOS32	DD	DISP=SHR,DSN=SYS1.AOS32	00000700
82	XXAOSA0	DD	DISP=SHR,DSN=SYS1.AOSA0	00000710
83	XXAOSA1	DD	DISP=SHR,DSN=SYS1.AOSA1	00000720
84	XXAOSB0	DD	DISP=SHR,DSN=SYS1.AOSB0	00000730
85	XXAOSB3	DD	DISP=SHR,DSN=SYS1.AOSB3	00000740
86	XXAOSBN	DD	DISP=SHR,DSN=SYS1.AOSBN	00000750
87	XXAOSC2	DD	DISP=SHR,DSN=SYS1.AOSC2	00000760
88	XXAOSC5	DD	DISP=SHR,DSN=SYS1.AOSC5	00000770
89	XXAOSC6	DD	DISP=SHR,DSN=SYS1.AOSC6	00000780
90	XXAOSCA	DD	DISP=SHR,DSN=SYS1.AOSCA	00000790
91	XXAOSCD	DD	DISP=SHR,DSN=SYS1.AOSCD	00000800
92	XXAOSCE	DD	DISP=SHR,DSN=SYS1.AOSCE	00000810

93	XXAOSD0	DD	DISP=SHR,DSN=SYS1.AOSD0	00000820
94	XXAOSD7	DD	DISP=SHR,DSN=SYS1.AOSD7	00000830
95	XXAOSD8	DD	DISP=SHR,DSN=SYS1.AOSD8	00000840
96	XXAOSG0	DD	DISP=SHR,DSN=SYS1.AOSG0	00000850
97	XXAOSH1	DD	DISP=SHR,DSN=SYS1.AOSH1	00000860
98	XXAOSH3	DD	DISP=SHR,DSN=SYS1.AOSH3	00000870
99	XXAOST3	DD	DISP=SHR,DSN=SYS1.AOST3	00000880
100	XXAOST4	DD	DISP=SHR,DSN=SYS1.AOST4	00000890
101	XXAOSU0	DD	DISP=SHR,DSN=SYS1.AOSU0	00000900
102	XXAPARMLIB	DD	DISP=SHR,DSN=SYS1.APARMLIB	00000910
103	XXAPROCLIB	DD	DISP=SHR,DSN=SYS1.APROCLIB	00000920
104	XXASAMPLIB	DD	DISP=SHR,DSN=SYS1.ASAMPLIB	00000930
105	XXATCAMMAC	DD	DISP=SHR,DSN=SYS1.ATCAMMAC	00000940
106	XXATSOMAC	DD	DISP=SHR,DSN=SYS1.ATSOMAC	00000950
107	XXAUADS	DD	DISP=SHR,DSN=SYS1.AUADS	00000960
108	XXHASPSRC	DD	DISP=SHR,DSN=SYS1.HASPSRC	00000970
	***** TARGET DATASETS *****			00000980
	***** NEEDED FOR APPLY *****			00000990
109	XXCMDLIB	DD	DISP=SHR,DSN=SYS1.CMDLIB	00001000
110	XXHELP	DD	DISP=SHR,DSN=SYS1.HELP	00001010
111	XXIMAGELIB	DD	DISP=SHR,DSN=SYS1.IMAGELIB	00001020
112	XXIMAGE	DD	DISP=SHR,DSN=SYS1.IMAGELIB	00001030
113	XXLPALIB	DD	DISP=SHR,DSN=SYS1.LPALIB	00001040
114	XXLINKLIB	DD	DISP=SHR,DSN=SYS1.LINKLIB	00001050
115	XXNUCLEUS	DD	DISP=SHR,DSN=SYS1.NUCLEUS	00001060
116	XXMACLIB	DD	DISP=SHR,DSN=SYS1.MACLIB	00001070
117	XXPARMLIB	DD	DISP=SHR,DSN=SYS1.PARMLIB	00001080
118	XXPROCLIB	DD	DISP=SHR,DSN=SYS1.PROCLIB	00001090
119	XXSAMPLIB	DD	DISP=SHR,DSN=SYS1.SAMPLIB	00001100
120	XXSVCLIB	DD	DISP=SHR,DSN=SYS1.SVCLIB	00001110
121	XXTCOMMAC	DD	DISP=SHR,DSN=SYS1.TCOMMAC	00001120
122	XXTELCMLIB	DD	DISP=SHR,DSN=SYS1.TELCMLIB	00001130
123	XXUADS	DD	DISP=SHR,DSN=SYS1.UADS	00001140
124	XXUMODLIB	DD	DISP=SHR,DSN=SYS1.UMODLIB	00001150
125	XXUMODOBJ	DD	DISP=SHR,DSN=SYS1.UMODOBJ	00001160
126	XXVTAMLIB	DD	DISP=SHR,DSN=SYS1.VTAMLIB	00001170
127	//SMPPTFIN	DD	*	
128	//SMPCTL	DD	*	
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STMT NO. MESSAGE
-
 12 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.UMODOBJ(IEFACTRT)
 22 IEF653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS1.UMODSRC(IEFACTRT)
 26 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(1700,(600,100))
 27 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(1700,(600,100))
 28 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(1700,(600,100))
 29 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(80,(2,2))
 40 IEF653I SUBSTITUTION JCL - DISP=OLD,UNIT=3350,VOL=SER=WORK00
 56 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,
 57 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,
 58 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(CYL,(5,10,84)),DCB=(BLKSIZE=3120,
 59 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(CYL,(1,10,84)),DCB=(BLKSIZE=3120,
 60 IEF653I SUBSTITUTION JCL - UNIT=SYSALLDA,SPACE=(CYL,(30,10,250))
IEF236I ALLOC. FOR JLM0001 UPDATE01
IEF237I 150 ALLOCATED TO JOBCAT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 250 ALLOCATED TO SYSUT2
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I JLM0001 UPDATE01 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.VSAM.MASTER.CATALOG KEPT *-----0
IEF285I VOL SER NOS= MVSRES.
IEF285I JES2.JOB01032.SO0104 SYSOUT
IEF285I SYS1.UMODSRC KEPT *-----8
IEF285I VOL SER NOS= SMP000.
IEF285I JES2.JOB01032.SI0101 SYSIN
IEF373I STEP /UPDATE01/ START 22039.1630
IEF374I STEP /UPDATE01/ STOP 22039.1630 CPU 0MIN 00.03SEC SRB 0MIN 00.00SEC VIRT 48K SYS 252K
**** JOB NAME: JLM0001 JOBCARD READ 2022/039 16:30:59 370/148 VS2 R03.8 HMVS *****
*
* STEP NUMBER: 1 USER CORE: 48K START TIME: 16:30:59 CPU TIME: 00:00:00.03 ACTIVE TIME: 00:00:00.05 *
* STEP NAME: UPDATE01 SYSTEM CORE: 252K STOP TIME: 16:30:59 SRB TIME: 00:00:00.00 ALLOC TIME: 16:30:59 *
* PROGRAM NAME: IEBUPDTE REGION SIZE: 4096K ELAPSED TIME: 00:00:00.07 TCB TIME: 00:00:00.03 PROGRAM LOAD: 16:30:59 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 *
* JES2 CARDS: 106 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 255 0 / 0 0 0 / 0 0 / 0 *
*
* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT *
* 150/D3350 0 250/D3350 8 *
*****
IEF236I ALLOC. FOR JLM0001 ASM SMPASM02
IEF237I 150 ALLOCATED TO JOBCAT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTEMR
IEF237I 250 ALLOCATED TO SYSPUNCH
IEF237I 150 ALLOCATED TO SYSLIB
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 151 ALLOCATED TO
IEF237I 380 ALLOCATED TO SYSUT1
IEF237I 370 ALLOCATED TO SYSUT2
IEF237I 252 ALLOCATED TO SYSUT3
IEF237I 250 ALLOCATED TO SYSIN
IEF142I JLM0001 ASM SMPASM02 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS1.VSAM.MASTER.CATALOG KEPT *-----0
IEF285I VOL SER NOS= MVSRES.
IEF285I JES2.JOB01032.SO0105 SYSOUT
IEF285I JES2.JOB01032.SO0106 SYSOUT
IEF285I SYS1.UMODOBJ KEPT *-----5

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IEF285I VOL SER NOS= SMP000.
IEF285I SYS1.MACLIB KEPT *-----44
IEF285I VOL SER NOS= MVSRES.
IEF285I SYS1.AMODGEN KEPT *-----33
IEF285I VOL SER NOS= SMP000.
IEF285I SYS1.UMODMAC KEPT *-----0
IEF285I VOL SER NOS= SMP000.
IEF285I SYS1.UMODSRC KEPT *-----0
IEF285I VOL SER NOS= SMP000.
IEF285I SYS1.HASPSRC KEPT *-----0
IEF285I VOL SER NOS= SMP000.
IEF285I SYS1.APVTMACS KEPT *-----0
IEF285I VOL SER NOS= MVS000.
IEF285I SYS22039.T163059.RA000.JLM0001.R0000001 DELETED *-----312
IEF285I VOL SER NOS= MVS380.
IEF285I SYS22039.T163059.RA000.JLM0001.R0000002 DELETED *-----31
IEF285I VOL SER NOS= MVS370.
IEF285I SYS22039.T163059.RA000.JLM0001.R0000003 DELETED *-----16
IEF285I VOL SER NOS= WORK01.
IEF285I SYS1.UMODSRC KEPT *-----6
IEF285I VOL SER NOS= SMP000.
IEF373I STEP /ASM / START 22039.1630
IEF374I STEP /ASM / STOP 22039.1630 CPU 0MIN 00.33SEC SRB 0MIN 00.02SEC VIRT 2216K SYS 232K
*****
*
* STEP NUMBER: 2 USER CORE: 2216K START TIME: 16:30:59 CPU TIME: 00:00:00.35 ACTIVE TIME: 00:00:00.52 *
* STEP NAME: ASM SYSTEM CORE: 232K STOP TIME: 16:30:59 SRB TIME: 00:00:00.02 ALLOC TIME: 16:30:59 *
* PROGRAM NAME: IFOX00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.59 TCB TIME: 00:00:00.33 PROGRAM LOAD: 16:30:59 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 *
* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 2,671 0 / 0 0 0 / 0 0 / 0 *
*
* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT *
* 150/D3350 0 250/D3350 5 150/D3350 44 250/D3350 33 250/D3350 0 250/D3350 0 *
* 250/D3350 0 151/D3350 0 380/D3380 312 370/D3375 31 252/D3350 16 250/D3350 6 *
*****
IEF236I ALLOC. FOR JLM0001 HMASMP RECV03
IEF237I 150 ALLOCATED TO JOBCAT
IEF237I 223 ALLOCATED TO SYSUT1
IEF237I 225 ALLOCATED TO SYSUT2
IEF237I 221 ALLOCATED TO SYSUT3
IEF237I 222 ALLOCATED TO SYSUT4
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO ASMPRINT
IEF237I JES2 ALLOCATED TO CMPPRINT
IEF237I JES2 ALLOCATED TO COPPRINT
IEF237I JES2 ALLOCATED TO LKDPRINT
IEF237I JES2 ALLOCATED TO E37PRINT
IEF237I JES2 ALLOCATED TO UPDPRINT
IEF237I JES2 ALLOCATED TO ZAPPRINT
IEF237I JES2 ALLOCATED TO SMPDOUT
IEF237I DMY ALLOCATED TO SMPLOG
IEF237I 251 ALLOCATED TO SMPTLIB
IEF237I 250 ALLOCATED TO SYSLIB
IEF237I 250 ALLOCATED TO
IEF237I 150 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 250 ALLOCATED TO
IEF237I 151 ALLOCATED TO
IEF237I 250 ALLOCATED TO SMPACDS

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IEF237I	250	ALLOCATED	TO	SMPACRQ
IEF237I	250	ALLOCATED	TO	SMPDCS
IEF237I	250	ALLOCATED	TO	SMPCRQ
IEF237I	250	ALLOCATED	TO	SMPMTS
IEF237I	250	ALLOCATED	TO	SMPPTS
IEF237I	250	ALLOCATED	TO	SMPSTS
IEF237I	250	ALLOCATED	TO	SMPSCDS
IEF237I	220	ALLOCATED	TO	SMPWRK1
IEF237I	224	ALLOCATED	TO	SMPWRK2
IEF237I	224	ALLOCATED	TO	SMPWRK3
IEF237I	222	ALLOCATED	TO	SMPWRK4
IEF237I	221	ALLOCATED	TO	SMPWRK5
IEF237I	250	ALLOCATED	TO	ACMDLIB
IEF237I	250	ALLOCATED	TO	AGENLIB
IEF237I	250	ALLOCATED	TO	AHELP
IEF237I	250	ALLOCATED	TO	AIMAGE
IEF237I	250	ALLOCATED	TO	ALPALIB
IEF237I	250	ALLOCATED	TO	AMACLIB
IEF237I	250	ALLOCATED	TO	AMODGEN
IEF237I	250	ALLOCATED	TO	AOS00
IEF237I	250	ALLOCATED	TO	AOS03
IEF237I	250	ALLOCATED	TO	AOS04
IEF237I	250	ALLOCATED	TO	AOS05
IEF237I	250	ALLOCATED	TO	AOS06
IEF237I	250	ALLOCATED	TO	AOS07
IEF237I	250	ALLOCATED	TO	AOS11
IEF237I	250	ALLOCATED	TO	AOS12
IEF237I	250	ALLOCATED	TO	AOS20
IEF237I	250	ALLOCATED	TO	AOS21
IEF237I	250	ALLOCATED	TO	AOS24
IEF237I	250	ALLOCATED	TO	AOS26
IEF237I	250	ALLOCATED	TO	AOS29
IEF237I	250	ALLOCATED	TO	AOS32
IEF237I	250	ALLOCATED	TO	AOSA0
IEF237I	250	ALLOCATED	TO	AOSA1
IEF237I	250	ALLOCATED	TO	AOSB0
IEF237I	250	ALLOCATED	TO	AOSB3
IEF237I	250	ALLOCATED	TO	AOSBN
IEF237I	250	ALLOCATED	TO	AOSC2
IEF237I	250	ALLOCATED	TO	AOSC5
IEF237I	250	ALLOCATED	TO	AOSC6
IEF237I	250	ALLOCATED	TO	AOSCA
IEF237I	250	ALLOCATED	TO	AOSCD
IEF237I	250	ALLOCATED	TO	AOSCE
IEF237I	250	ALLOCATED	TO	AOSD0
IEF237I	250	ALLOCATED	TO	AOSD7
IEF237I	250	ALLOCATED	TO	AOSD8
IEF237I	250	ALLOCATED	TO	AOSG0
IEF237I	250	ALLOCATED	TO	AOSH1
IEF237I	250	ALLOCATED	TO	AOSH3
IEF237I	250	ALLOCATED	TO	AOST3
IEF237I	250	ALLOCATED	TO	AOST4
IEF237I	250	ALLOCATED	TO	AOSU0
IEF237I	250	ALLOCATED	TO	APARMLIB
IEF237I	250	ALLOCATED	TO	APROCLIB
IEF237I	250	ALLOCATED	TO	ASAMPLIB
IEF237I	250	ALLOCATED	TO	ATCAMMAC
IEF237I	250	ALLOCATED	TO	ATSOMAC
IEF237I	250	ALLOCATED	TO	AUADS
IEF237I	250	ALLOCATED	TO	HASPSRC
IEF237I	150	ALLOCATED	TO	CMDLIB

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IEF237I 150 ALLOCATED TO HELP
IEF237I 150 ALLOCATED TO IMAGELIB
IEF237I 150 ALLOCATED TO IMAGE
IEF237I 150 ALLOCATED TO LPALIB
IEF237I 150 ALLOCATED TO LINKLIB
IEF237I 150 ALLOCATED TO NUCLEUS
IEF237I 150 ALLOCATED TO MACLIB
IEF237I 150 ALLOCATED TO PARMLIB
IEF237I 150 ALLOCATED TO PROCLIB
IEF237I 150 ALLOCATED TO SAMPLIB
IEF237I 150 ALLOCATED TO SVCLIB
IEF237I 150 ALLOCATED TO TCOMMAL
IEF237I 150 ALLOCATED TO TELCMLIB
IEF237I 150 ALLOCATED TO UADS
IEF237I 250 ALLOCATED TO UMODLIB
IEF237I 250 ALLOCATED TO UMODOBJ
IEF237I 150 ALLOCATED TO VTAMLIB
IEF237I JES2 ALLOCATED TO SMPPTFIN
IEF237I JES2 ALLOCATED TO SMPCNTL
IEF142I JLM0001 HMASMP RECV03 - STEP WAS EXECUTED - COND CODE 0004
IEF285I   SYS1.VSAM.MASTER.CATALOG          KEPT          *-----0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS22039.T163059.RA000.JLM0001.R0000004  DELETED        *-----207
IEF285I   VOL SER NOS= SORTW4.
IEF285I   SYS22039.T163059.RA000.JLM0001.R0000005  DELETED        *-----336
IEF285I   VOL SER NOS= SORTW6.
IEF285I   SYS22039.T163059.RA000.JLM0001.R0000006  DELETED        *-----0
IEF285I   VOL SER NOS= SORTW2.
IEF285I   SYS22039.T163059.RA000.JLM0001.R0000007  DELETED        *-----0
IEF285I   JES2.JOB01032.S00107                SYSOUT
IEF285I   JES2.JOB01032.S00108                SYSOUT
IEF285I   JES2.JOB01032.S00109                SYSOUT
IEF285I   JES2.JOB01032.S00110                SYSOUT
IEF285I   JES2.JOB01032.S00111                SYSOUT
IEF285I   JES2.JOB01032.S00112                SYSOUT
IEF285I   JES2.JOB01032.S00113                SYSOUT
IEF285I   JES2.JOB01032.S00114                SYSOUT
IEF285I   JES2.JOB01032.S00115                SYSOUT
IEF285I   SYS22039.T163059.RA000.JLM0001.R0000008  KEPT          *-----0
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS1.SMPMTS                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.SMPSTS                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.MACLIB                          KEPT          *-----0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.AMACLIB                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.HASPSRC                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.APVTMACS                        KEPT          *-----0
IEF285I   VOL SER NOS= MVS000.
IEF285I   SYS1.SMPACDS                          KEPT          *-----4
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.SMPACRQ                          KEPT          *-----0
IEF285I   VOL SER NOS= SMP000.
IEF285I   SYS1.SMPCDS                          KEPT          *---10,575
IEF285I   VOL SER NOS= SMP000.

```


IEF285I	SYS1.SMPCRQ	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.SMPMTS	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.SMPPTS	KEPT	*----1,144
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.SMPSTS	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.SMPSCDS	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS22039.T163059.RA000.JLM0001.R0000009	DELETED	*-----0
IEF285I	VOL SER NOS= SORTW1.		
IEF285I	SYS22039.T163059.RA000.JLM0001.R0000010	DELETED	*-----0
IEF285I	VOL SER NOS= SORTW5.		
IEF285I	SYS22039.T163059.RA000.JLM0001.R0000011	DELETED	*-----0
IEF285I	VOL SER NOS= SORTW5.		
IEF285I	SYS22039.T163059.RA000.JLM0001.R0000012	DELETED	*-----0
IEF285I	VOL SER NOS= SORTW3.		
IEF285I	SYS22039.T163059.RA000.JLM0001.R0000013	DELETED	*-----0
IEF285I	VOL SER NOS= SORTW2.		
IEF285I	SYS1.ACMDLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AGENLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AHELP	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AIMAGE	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.ALPALIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AMACLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AMODGEN	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS00	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS03	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS04	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS05	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS06	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS07	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS11	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS12	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS20	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS21	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS24	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS26	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS29	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOS32	KEPT	*-----0

IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSA0	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSA1	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSB0	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSB3	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSBN	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSC2	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSC5	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSC6	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSCA	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSCD	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSCE	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSD0	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSD7	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSD8	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSG0	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSH1	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSH3	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOST3	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOST4	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AOSU0	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.APARMLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.APROCLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.ASAMPLIB	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.ATCAMMAC	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.ATSOMAC	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.AUADS	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.HASPSRC	KEPT	*-----0
IEF285I	VOL SER NOS= SMP000.		
IEF285I	SYS1.CMDLIB	KEPT	*-----0
IEF285I	VOL SER NOS= MVSRES.		
IEF285I	SYS1.HELP	KEPT	*-----0
IEF285I	VOL SER NOS= MVSRES.		
IEF285I	SYS1.IMAGELIB	KEPT	*-----0
IEF285I	VOL SER NOS= MVSRES.		

```

IEF285I  SYS1.IMAGELIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.LPALIB           KEPT          *-----414
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.LINKLIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.NUCLEUS          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.MACLIB           KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.PARMLIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.PROCLIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.SAMPLIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.SVCLIB           KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.TCOMM          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.TELCMLIB         KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.UADS             KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  SYS1.UMODLIB          KEPT          *-----0
IEF285I  VOL SER NOS= SMP000.
IEF285I  SYS1.UMODOBJ          KEPT          *-----4
IEF285I  VOL SER NOS= SMP000.
IEF285I  SYS1.VTAMLIB          KEPT          *-----0
IEF285I  VOL SER NOS= MVSRES.
IEF285I  JES2.JOB01032.SI0102  SYSIN
IEF285I  JES2.JOB01032.SI0103  SYSIN

```

```
IEF373I STEP /HMASMP / START 22039.1630
```

```
IEF374I STEP /HMASMP / STOP 22039.1631 CPU OMIN 01.90SEC SRB OMIN 00.35SEC VIRT 4096K SYS 340K
```

```
*****
```

```

*
* STEP NUMBER:          3  USER CORE:          4096K  START TIME:    16:30:59    CPU TIME:      00:00:02.25  ACTIVE TIME:   00:00:02.47 *
* STEP NAME:           HMASMP  SYSTEM CORE:      340K  STOP TIME:     16:31:02    SRB TIME:      00:00:00.35  ALLOC TIME:    16:30:59 *
* PROGRAM NAME:       HMASMP  REGION SIZE:      4096K  ELAPSED TIME:  00:00:02.65  TCB TIME:      00:00:01.90  PROGRAM LOAD:  16:31:00 *
* CONDITION CODE:     00004  PERFORMANCE GROUP: 004
* JES2 CARDS:         1          SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*                   66,121      0 / 0          0          0 / 0          0 / 0 *
*

```

ADDR/UNIT	I/O	COUNT	ADDR/UNIT	I/O	COUNT	ADDR/UNIT	I/O	COUNT	ADDR/UNIT	I/O	COUNT	ADDR/UNIT	I/O	COUNT
150/D3350		0	223/D2314		207	225/D2314		336	221/D2314		0	222/D2314		0
250/D3350		0	250/D3350		0	150/D3350		0	250/D3350		0	250/D3350		0
151/D3350		0	250/D3350		4	250/D3350		0	250/D3350		10575	250/D3350		0
250/D3350		1144	250/D3350		0	250/D3350		0	220/D2314		0	224/D2314		0
222/D2314		0	221/D2314		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0	250/D3350		0
250/D3350		0	250/D3350		0	150/D3350		0	150/D3350		0	150/D3350		0
150/D3350		414	150/D3350		0	150/D3350		0	150/D3350		0	150/D3350		0
150/D3350		0	150/D3350		0	150/D3350		0	150/D3350		0	150/D3350		0
250/D3350		4	150/D3350		0									

```
*****
```

IEF375I JOB /JLM0001 / START 22039.1630

IEF376I JOB /JLM0001 / STOP 22039.1631 CPU 0MIN 02.26SEC SRB 0MIN 00.37SEC

```

./ ADD NAME=IEFACTRT
*****
* LOCAL MACROS DEFINED BELOW:
*
*   FILL ----- INITIALIZE A DATA AREA WITH SINGLE CHARACTER. IF NO
*                   CHARACTER SUPPLIED WITH CALL, DEFAULT IS SPACE.
*   STEPWTO -- WRITE A MESSAGE ON CONSOLE. IF NO FIELD SUPPLIED,
*                   TEXT IS USED FROM AREA CONTAINING STEP COMPLETION
*                   FIELDS. (MESSAGE LENGTH LIMITED TO SIZE DEFINED FOR
*                   STEP COMPLETION FIELDS)
*   WRSYSOUT - CALL IEFYS TO WRITE LINE BUFFER TO SYSTEM LOG.
*****
*

```

```

MACRO
&LABEL  FILL  &AREA,&CHAR
        LCLC  &CHAR$
&CHAR$  SETC  'C' ' ' ' '          DEFAULT FILL CHARACTER
        AIF  ('&CHAR' EQ ' ').NOFILL USE DEFAULT FILL CHAR
&CHAR$  SETC  '&CHAR'              USER FILL CHARACTER
.NOFILL  ANOP
&LABEL  MVI   &AREA,&CHAR$          SET FILL BYTE
        MVC  &AREA+1(L'&AREA-1),&AREA  FILL FIELD
        MEND
*

```

```

MACRO
&NAME   STEPWTO &MSG
        MVC  WTOBUF,WTODEF          MOVE LIST MACRO TO DYN. STORAGE
        AIF  (T'&MSG NE 'O').MSG
        MVC  WTOBUF+4(WTOMSGL),ACTRMSG COPY STANDARD MESSAGE TEXT
        AGO  .WTO
.MSG    ANOP
.WTO    MVC  WTOBUF+4(WTOMSGL),&MSG  INSERT PASSED MESSAGE TEXT
        ANOP
        LA   R1,WTOBUF              POINT TO LIST MACRO
        WTO  MF=(E,(1))             AND ISSUE WTO SVC
        MEXIT
        MEND
*

```

```

MACRO
&NAME   WRSYSOUT ,
        MVC  36(4,R12),SYSOUT@     MOVE ADDR TO IEFYS COMM AREA
        MVC  42(2,R12),SYSOUT#     MOVE LENGTH TO IEFYS COMM AREA
        L    R15,=V(IEFYS)         LOAD IEFYS ENTRY ADDRESS
        BALR R14,R15               CALL IEFYS
        MEND
*

```

```

*****
* END OF LOCAL MACRO DEFINITIONS
*****
*

```

```

WXTRN IEFYS          ENTRY POINT OF SYSTEM LOG WRITE
*
TITLE 'JOB/STEP PROCESSING EXIT'

```

IEFACTRT CSECT

```

*
*****
*
*      IIII      EEEEE  FFFFFFF  A      CCCC TTTTTTTT RRRRRR TTTTTTTT
*      II       EE      FF      AAA  CC  CC  TT  RR  RR  TT
*      II       EE      FF      AA AA CC  CC  TT  RR  RR  TT
*      II       EEEE    FFFFF  AA  AA CC      TT  RR  RR  TT
*      II       EE      FF      AA  AA CC      TT  RRRRRR  TT
*      II       EE      FF      AAAAAA CC  CC  TT  RR RR  TT
*      II       EE      FF      AA  AA CC  CC  TT  RR  RR  TT
*      IIII      EEEEEEE FF      AA  AA  CCCC  TT  RR  RR  TT
*
*****
*
* FUNCTION
* THIS MODULE IS ENTERED AT JOB/STEP TERMINATION. IF THE
* MODULE WAS ENTERED FOR STEP TERMINATION, INFORMATION IS
* EXTRACTED AND WRITTEN TO THE SYSOUT DATASET USING THE IEFYS
* ROUTINE, AND A MESSAGE IS WRITTEN TO THE CONSOLE INDICATING
* THE STEP COMPLETION INFORMATION.
*
* ENTRY POINT - IEFACRT
*
* INPUT
* REGISTER 0 INDICATES REASON FOR ENTRY:
* 12 - STEP TERMINATION
* 16 - JOB TERMINATION
*
* REGISTER 1 POINTS TO A LIST OF 4 BYTE ADDRESSES FOR THE
* FOLLOWING TEN PARAMETERS:
* 1 - POINTER TO COMMON EXIT PARAMETER BLOCK (FIELDS MOVED TO
* LOCAL WORK AREA). FIELDS ARE: JOB NAME, DATE/TIME, SMF
* SYSTEM ID, USERID, STEP NUMBER, SMF OPTION, RESTART
* INDICATOR, JOB CLASS, USER COMMUNICATION AREA (4 BYTES).
* 2 - STEP NAME (ADDRESS IS ZERO FOR JOB TERM ENTRY)
* 3 - PROGRAMMERS NAME
* 4 - JOB EXECUTION TIME
* 5 - JOB ACCOUNTING FIELDS
* 6 - STEP EXECUTION TIME
* 7 - STEP ACCOUNTING FIELDS
* 8 - FLAGS AND STEP NUMBER
* 9 - TERMINATION STATUS
* 10 - SMF TERMINATION RECORD
*
* OUTPUT - NONE
*
* EXIT - NORMAL = AT PROGRAM END VIA BRANCH REGISTER 14
*
* EXTERNAL REFERENCES

```



```

*   IEFYS - WRITES LINE TO SYSTEM LOG *
* * *
* DSECTS *
*   IEFJMR - JOB MANAGEMENT *
*   IFASMFR - SMF RECORD FORMAT (RECORD TYPE 4 USED) *
*   IHASDWA - SDWA FOR ESTAE/SETRP MACRO *
*   WORKAREA - INTERNAL FIELDS STORED IN MEMORY EXTERNAL TO PROGRAM *
* * *
* ATTRIBUTES - KEY 0, REENTRANT *
* * *
* CHARACTER CODE DEPENDENCY - NONE *
* * *
* EXTERNAL MACROS USED: GETMAIN, FREEMAIN *
* * *
* REGISTER USAGE: *
*   R8 - USED FOR SUBROUTINE LINKAGE *
*   R10 - SMF RECORD *
*   R11 - BASE REGISTER *
*   R12 - RESERVED FOR IEFYS COMMUNICATION *
*   R13 - WORK AREA OBTAINED BY GETMAIN, INCLUDES MY SAVE AREA *
* * *
* WRITTEN BY JAY MOSELEY IN JULY, 2020 *
* * *
* MODIFICATIONS *
* * *
*   2002/08/29 JLM: ERROR IN COMPUTING LENGTH OF WTO MESSAGE AREA- *
*   AS ORIGINALLY CODED, MVC OF STEP END MESSAGE TO *
*   WTO MESSAGE AREA INCLUDED MCS FLAGS, WHICH COULD *
*   RANDOMLY AFFECT MESSAGE HIGHLIGHTING. *
* * *
*****

```

```

EJECT
SUBPOOL EQU 241 SUBPOOL FOR WORK AREA
R0 EQU 0 REGISTER 0
R1 EQU 1 REGISTER 1
R2 EQU 2 REGISTER 2
R3 EQU 3 REGISTER 3
R4 EQU 4 REGISTER 4
R5 EQU 5 REGISTER 5
R6 EQU 6 REGISTER 6
R7 EQU 7 REGISTER 7
R8 EQU 8 REGISTER 8
R9 EQU 9 REGISTER 9
R10 EQU 10 REGISTER 10
R11 EQU 11 REGISTER 11
R12 EQU 12 REGISTER 12
R13 EQU 13 REGISTER 13
R14 EQU 14 REGISTER 14
R15 EQU 15 REGISTER 15
      USING IEFACRT,R15 TEMPORARY ADDRESSABILITY
      B BEGIN BRANCH AROUND IDENT FIELDS
IDENTITY DS 0H BEGIN IDENTIFICATION FIELDS

```

```

DC      AL1(BEGIN-IDENTITY)    LENGTH OF IDENTIFICATION FIELDS
DC      CL8'IEFACTRT'          CSECT NAME
DC      C'&SYSDATE. @ &SYSTIME' ASSEMBLY DATE AND TIME
BEGIN   DS      0H              END OF IDENTIFICATION FIELDS
        STM     R14,R12,12(R13)  ENTRY LINKAGE
        L       R7,0(,R1)        CEP LIST
        USING   JMR,R7           SET UP ADDRESSABILITY
        TM      JMRINDC,JMRFIND  IS THIS TSO USER?
        BO      QUIKEXIT         YES, EXIT NOW
        DROP    R7               DROP CEPLIST ADDRESSABILITY
        DROP    R15              DROP TEMPORARY BASE
        BALR   R11,R0            REGISTER 11 AS BASE REGISTER
        USING   *,R11            SET UP ADDRESSABILITY
        L       R0,WALNGTH       LOAD GETMAIN INFORMATION
        GETMAIN R,LV=(0)         ACQUIRE MEMORY FOR WORK AREA
        LR      R15,R13          SAVE OLD SAVE AREA POINTER
        LR      R13,R1           R13 POINTS TO NEW SAVE AREA
        USING   WORKAREA,R13     SET UP ADDRESSABILITY TO WORK
        LM      R0,R1,20(R15)    RESTORE ORIGINAL R0/R1
        ST      R15,4(R13)       OLD SAVE AREA ADDRESS INTO NEW
        ST      R13,8(R15)       NEW SAVE AREA ADDRESS INTO OLD
        LR      R3,R0            ORIGINAL R0 TO R3
*
* SAVE ADDRESSES PASSED IN R1 LIST
*
        MVC     PLCEPADR(40),0(R1) COPY 10 ADDRESSES TO WORK AREA
*
* SAVE COMMON EXIT PARAMETER LIST FIELDS
*
        L       R1,PLCEPADR      GET ADDRESS OF CEP LIST
        MVC     CEPJOB(36),0(R1) COPY 11 FIELDS TO WORK AREA
*
* SET UP RECOVERY ENVIRONMENT
*
        MVC     ESTAEW(LESTAEL),ESTAEL MOVE IN ESTAE PARAMETER LIST
        LA      R0,RTRYRTN1       RETRY ROUTINE - NO SDWA
        ST      R0,ESTAPARM       STORE IN PARAMETER LIST
        LA      R0,RTRYRTN2       RETRY ROUTINE - WITH SDWA
        ST      R0,ESTAPARM+4     STORE IN PARAMETER LIST
        STM     R11,R13,ESTAPARM+8 BASE/IEFYS WORK/DATA REGS
        ESTAE   RECOVERY,CT,PARAM=ESTAPARM,MF=(E,ESTAEW) SETUP RCVRY
*
        CH      R3,=H'16'         IS THIS JOB TERMINATION?
        BE      GOBACK            YES, RETURN TO SYSTEM
        CH      R3,=H'12'         IS THIS STEP TERMINATION?
        BNE     GOBACK            NO, RETURN TO SYSTEM
*
        LA      R2,SYSOUTLN       GET ADDRESS OF SYSOUT BUFFER
        ST      R2,SYSOUT@        STORE ADDRESS FOR MOVES LATER
        LA      R2,132            LENGTH OF SYSOUT BUFFER
        STH     R2,SYSOUT#        STORE LENGTH FOR MOVES LATER
*

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```

L      R10,PLSMFADR      GET ADDRESS OF SMF RECORD
USING SMF4,R10          SET UP ADDRESSABILITY

```

*

* INITIALIZE CONSOLE MESSAGE LINE

*

```

MVC   ACTRHDR,KWTOID      CONSTANT HEADER
MVI   ACTRSEP1,KSLASH     CONSTANT FIELD SEPARATOR
MVI   ACTRSEP2,KSLASH     CONSTANT FIELD SEPARATOR
MVI   ACTRSEP3,KSLASH     CONSTANT FIELD SEPARATOR
MVI   ACTRSEP4,KSLASH     CONSTANT FIELD SEPARATOR
MVI   ACTRSEP5,KSLASH     CONSTANT FIELD SEPARATOR
MVC   ACTRJOB(8),CEPJOB   JOB NAME TO CONSOLE MESSAGE

```

*

* SYSOUT LINE #1 (INCLUDES JOB INFORMATION ON FIRST STEP)

*

```

FILL  SYSOUTLN,KSTAR      INITIALIZE SYSOUT LINE 1

```

*

```

CLI   CEPNUM,X'01'        IS THIS FIRST STEP?
BNE   NOJOBHD             NO, SKIP JOB HEADING

```

*

* JOB NAME

*

```

MVC   SYSOUTLN+4(11),KSJOBNAM CONSTANT FIELD LABEL
MVC   SYSOUTLN+15(8),CEPJOB   JOB NAME

```

*

* JOB CARD READ DATE/TIME (FROM SMF4 RECORD)

*

```

MVC   SYSOUTLN+23(14),KSJOBCHR CONSTANT FIELD LABEL
MVC   DATEPACK(4),SMF4RSD      JOB CARD READ DATE
BAL   R8,DATEFORM             CONFORM DATE TO Y2K AND EDIT
MVC   SYSOUTLN+37(4),DATECHAR YEAR TO PRINT AREA
MVI   SYSOUTLN+41,KSLASH      / TO PRINT AREA
MVC   SYSOUTLN+42(3),DATECHAR+4 DAY TO PRINT AREA
MVI   SYSOUTLN+45,KSPACE      SPACE AFTER DATE
ICM   R1,B'1111',SMF4RST     JOB CARD READ TIME
LA    R2,KCLOCKM             MASK TO PRINT CLOCK TIME
BAL   R8,TIMEFORM            CONVERT TIME TO PRINTABLE
MVC   SYSOUTLN+46(8),TIMECHAR START TIME TO PRINT AREA

```

*

* CPU MODEL 370/???

*

```

MVC   SYSOUTLN+54(5),KSCPUMAJ COMPUTER MODEL MAJOR TO PRINT
L     R5,16                  ADDRESS OF CVT
LA    R5,0(R5)              CLEAR HIGH ORDER BYTE
S     R5,=F'8'              GET TO CVT PREFIX
XC    DECW,DECW             CLEAR WORK FIELD
MVC   DECW+2(2),2(R5)       MOVE CPU MODEL NUMBER (EG. 0145)
MVI   DECW+4,X'0C'         ADD SIGN (EG. 01450C)
DP    DECW(5),=P'10'       DIVIDE BY 10 (EG. 00145C)
MVC   CPUMODEL,=X'40202120' EDIT MASK FOR CPU MODEL
ED    CPUMODEL,DECW+1      EDIT CPU MODEL
MVC   SYSOUTLN+59(3),CPUMODEL+1 COMPUTER MODEL MINOR TO PRINT

```

*

* MVS RELEASE LEVEL (R03.8)

*

```

MVC  SYSOUTLN+62(6),KSVS2  RELEASE NUMBER FIELD LABEL
MVC  SYSOUTLN+68(2),4(R5)  MOVE RELEASE NUMBER TO PRINT
MVI  SYSOUTLN+70,KPERIOD   DECIMAL POINT
MVC  SYSOUTLN+71(2),6(R5)  SUB RELEASE NUMBER TO PRINT

```

*

* SYSTEM IDENTIFIER (FROM SMF PARM)

*

```

MVC  SYSOUTLN+73(4),CEPSYSID SYSTEM IDENTIFIER TO PRINT
MVI  SYSOUTLN+77,KSPACE     SPACE AFTER SYSTEM ID

```

*

NOJOBHD DS 0H

```

WRSYSOUT ,                CALL IEFYS TO WRITE SYSOUT LINE

```

*

* SYSOUT LINE #2 (JUST A SEPARATOR LINE)

*

```

FILL  SYSOUTLN,KSPACE     INITIALIZE SYSOUT LINE 2
MVI   SYSOUTLN,KSTAR      ..
MVI   SYSOUTLN+131,KSTAR  ..

```

*

```

WRSYSOUT ,                CALL IEFYS TO WRITE SYSOUT LINE

```

*

* SYSOUT LINE #3

*

```

FILL  SYSOUTLN,KSPACE     INITIALIZE SYSOUT LINE 3
MVI   SYSOUTLN,KSTAR      ..
MVI   SYSOUTLN+131,KSTAR  ..

```

*

* STEP NUMBER (FROM SMF4 RECORD)

*

```

MVC  SYSOUTLN+3(12),KSTEPNUM CONSTANT FIELD LABEL
XR   R2,R2                  CLEAR R2
IC   R2,SMF4STN            INSERT STEP # FROM SMF4 RECORD
CVD  R2,DECW               CONVERT TO DECIMAL
MVC  SYSOUTLN+22(4),=X'40202120' EDIT MASK FOR STEP NUMBER
ED   SYSOUTLN+22(4),DECW+6  EDIT STEP NUMBER
MVC  ACTRSTPN,SMF4STMN     STEP NAME TO CONSOLE MSG
CLI  SMF4STMN,KSPACE      WAS A STEP NAME SUPPLIED?
BNE  STPNDONE             YES, GO TO NEXT FIELD
MVC  ACTRSTPN,KACTRSTP    CONSTANT (JS#999)
MVC  ACTRSNNN(3),SYSOUTLN+23 STEP NUMBER TO CONSOLE MSG

```

*

STPNDONE DS 0H

*

* USER CORE (FROM SMF4 RECORD)

*

```

MVC  SYSOUTLN+28(10),KUSERCOR CONSTANT FIELD LABEL
XR   R2,R2                  CLEAR R2
LH   R2,SMF4H0ST          GET PROBLEM PROGRAM CORE USED
CVD  R2,DECW               CONVERT TO DECIMAL

```

```

MVC  SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR USER CORE
ED    SYSOUTLN+43(6),DECW+5   EDIT USER CORE
MVI  SYSOUTLN+49,KK          CONSTANT 'K'

```

*

* STEP START TIME HH:MM:SS.TT (FROM SMF4 RECORD)

*

```

MVC  SYSOUTLN+52(11),KSTRTTIM CONSTANT FIELD LABEL
ICM  R1,B'1111',SMF4SIT      STEP INITIATION TIME
LA   R2,KCLOCKM             MASK TO PRINT CLOCK TIME
BAL  R8,TIMEFORM           CONVERT TIME TO PRINTABLE
MVC  SYSOUTLN+66(11),TIMECHAR START TIME TO PRINT AREA

```

*

* COPY FIELDS FROM SMF4 RELOCATE SECTION FOR USE LATER

*

```

XR   R5,R5                  CLEAR R5
ICM  R5,B'0011',SMF4RLCT   GET OFFSET TO RELOCATE SECTION
LA   R5,SMFRCD4+4(R5)     GET ADDR OF RELOCATE SECTION
USING SMF4PGIN,R5         SET UP ADDRESSABILITY
MVC  REL4PGIN(4),SMF4PGIN  NUMBER OF PAGE-INS
MVC  REL4PGOT(4),SMF4PGOT  NUMBER OF PAGE-OUTS
MVC  REL4NSW(4),SMF4NSW    NUMBER OF SWAPS
MVC  REL4PSI(4),SMF4PSI    PAGES SWAPPED IN
MVC  REL4PSO(4),SMF4PSO    PAGES SWAPPED OUT
MVC  REL4VPI(4),SMF4VPI    VAM PAGE INS
MVC  REL4VPO(4),SMF4VPO    VAM PAGE OUTS
MVC  REL4SST(4),SMF4SST    STEP SERVICE TIME
MVC  REL4ACT(4),SMF4ACT    STEP ACTIVE TIME
MVC  REL4PGNO(4),SMF4PGNO  PERFORMANCE GROUP NUMBER
DROP R5                    NO LONGER NEED ADDRESSABILITY

```

*

* COPY FIELDS FROM SMF4 ACCOUNTING SECTION FOR USE LATER

*

```

LA   R5,SMF4LENN          GET ADDRESS OF LENGTH OF THE      C
                                EXCP SECTION
AH   R5,SMF4LENN          GET ADDRESS OF CPU/ACCT SECTION
XC   REL4SETM,REL4SETM    CLEAR FULLWORD
MVC  REL4SETM+1(3),1(R5)  STEP CPU TIME UNDER TCB (.01SEC)

```

*

* CPU TIME HH:MM:SS.TT (FROM PASSED PARAMETER LIST AND SMF4 RECORD)

*

```

MVC  SYSOUTLN+79(9),KCPUTIM CONSTANT FIELD LABEL
L    R2,PLSETADR          GET ADDR OF STEP CPU TIME (TCB)
XR   R1,R1                CLEAR R1
ICM  R1,B'0111',0(R2)     GET TCB TIME
XR   R2,R2                CLEAR R2
ICM  R2,B'0111',SMF4SRBT  GET STEP SRB TIME
AR   R1,R2                CPU+SRB = TCB TIME
LA   R2,KPERIODM          MASK TO PRINT ELAPSED TIME
BAL  R8,TIMEFORM         CONVERT TIME TO PRINTABLE
MVC  SYSOUTLN+92(11),TIMECHAR STEP CPU TIME TO PRINT AREA
MVC  ACTRCPUT(11),TIMECHAR STEP CPU TIME TO CONSOLE MSG

```

*

* ACTIVE TIME (FROM SMF4 RECORD)

*

```
MVC  SYSOUTLN+105(12),KACTVTIM CONSTANT FIELD LABEL
ICM  R7,B'1111',REL4ACT      GET STEP ACTIVE TIME          C
                                (UNIT IS 1024 MICROSECONDS)
XR   R6,R6                  CLEAR R6 FOR MULTIPLY
SLDL R6,10                  MULTIPLY BY 1024 TO GET          C
                                TO GET MICROSECONDS
AL   R7,=A(5000)           ROUND TO NEAREST HUNDREDTH    C
                                OF A SECOND
BC   12,BCSACTIM           BRANCH IF NO CARRY
LA   R6,1(R6)              INCREMENT R6 ON OVERFLOW FROM R7
```

*

```
BCSACTIM D  R6,=A(10000)    REDUCE TO HUNDREDTHS OF SECONDS
LR   R1,R7                  COPY R7 TO R1
LA   R2,KPERIODM           MASK TO PRINT ELAPSED TIME
BAL  R8,TIMEFORM           CONVERT TIME TO PRINTABLE
MVC  SYSOUTLN+119(11),TIMECHAR STEP ACTIVE TIME TO PRINT AREA
```

*

```
WRSYSOUT ,                  CALL IEFYS TO WRITE SYSOUT LINE
```

*

* SYSOUT LINE #4

*

```
FILL  SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 4
MVI   SYSOUTLN,KSTAR      ..
MVI   SYSOUTLN+131,KSTAR  ..
```

*

* STEP NAME (FROM SMF4 RECORD)

*

```
MVC  SYSOUTLN+3(10),KSTEPNAM CONSTANT FIELD LABEL
MVC  SYSOUTLN+18(8),SMF4STMN STEP NAME FROM SMF4 RECORD
```

*

* SYSTEM CORE USED ON USER'S BEHALF (FROM SMF4 RECORD)

*

```
MVC  SYSOUTLN+28(12),KSYSCOR CONSTANT FIELD LABEL
LH   R1,SMF4SYST           SYS CORE USED ON USER'S BEHALF
CVD  R1,DECW               CONVERT TO DECIMAL
MVC  SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR SYS CORE
ED   SYSOUTLN+43(6),DECW+5 EDIT SYSTEM CORE
MVI  SYSOUTLN+49,KK        CONSTANT 'K'
```

*

* STEP STOP TIME (FROM SMF4 RECORD)

*

```
MVC  SYSOUTLN+52(10),KSTOPTIM CONSTANT FIELD LABEL
ICM  R1,B'1111',SMF4TME    STEP TERMINATION TIME
LA   R2,KCLOCKM           MASK TO PRINT CLOCK TIME
BAL  R8,TIMEFORM           CONVERT TIME TO PRINTABLE
MVC  SYSOUTLN+66(11),TIMECHAR STOP TIME TO PRINT AREA
```

*

* SRB TIME HH:MM:SS.TT (FROM SMF4 RECORD)

*

```
MVC  SYSOUTLN+79(9),KSRBTIM CONSTANT FIELD LABEL
```



```
XR R1,R1 CLEAR R2
ICM R1,B'0111',SMF4SRBT GET STEP SRB TIME
LA R2,KPERIODM MASK TO PRINT ELAPSED TIME
BAL R8,TIMEFORM CONVERT TIME TO PRINTABLE
MVC SYSOUTLN+92(11),TIMECHAR STEP SRB TIME TO PRINT AREA
```

*

* ALLOCATION TIME (ALLOCATION START TIME, FROM SMF4 RECORD)

*

```
MVC SYSOUTLN+105(11),KALLOCTI CONSTANT FIELD LABEL
XR R1,R1 CLEAR R1 FOR TIME
ICM R1,B'1111',SMF4AST GET SMF4 ALLOCATION START TIME
LA R2,KCLOCKM MASK TO PRINT CLOCK TIME
BAL R8,TIMEFORM CONVERT TIME TO PRINTABLE
MVC SYSOUTLN+119(11),TIMECHAR START TIME TO PRINT AREA
```

*

```
WRSYSOUT , CALL IEFYS TO WRITE SYSOUT LINE
```

*

* SYSOUT LINE #5

*

```
FILL SYSOUTLN,KSPACE INITIALIZE SYSOUT LINE 5
MVI SYSOUTLN,KSTAR ..
MVI SYSOUTLN+131,KSTAR ..
```

*

* PROGRAM NAME (FROM SMF4 RECORD)

*

```
MVC SYSOUTLN+3(13),KPGMNAME CONSTANT FIELD LABEL
MVC SYSOUTLN+18(8),SMF4PGMN PROGRAM NAME FROM SMF4 RECORD
MVC ACTRPGMN(8),SMF4PGMN PROGRAM NAME TO CONSOLE MSG
```

*

* REGION SIZE (FROM SMF4 RECORD)

*

```
MVC SYSOUTLN+28(12),KRGNSIZE CONSTANT FIELD LABEL
LH R2,SMF4RSH0 PRIVATE AREA SIZE
CVD R2,DECW CONVERT TO DECIMAL
MVC SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR REGION
ED SYSOUTLN+43(6),DECW+5 EDIT REGION SIZE
MVI SYSOUTLN+49,KK CONSTANT 'K'
TM SMF4RIN,B'00000001' V=R JOBSTEP?
BZ REGVRNO NO
MVC SYSOUTLN+41(2),=C'VR' INDICATE V=R
```

*

REGVRNO DS 0H

*

* ELAPSED TIME HH:MM:SS.TT (FROM SMF4 RECORD)

*

```
MVC SYSOUTLN+52(13),KELAPSED CONSTANT FIELD LABEL
MVC DECW+4(4),SMF4DTE STEP END DATE
MVC SMF4STID(1),SMF4DTE COPY CENTURY BYTE TO START DATE
SP DECW+4(4),SMF4STID(4) MINUS STEP START DATE
XC DECW(4),DECW EQUALS NUMBER OF DAYS
CVB R1,DECW CONVERT TO BINARY
XR R0,R0 CLEAR R0 FOR MULTIPLY
```

```

M      R0,=A(24*60*60*100)    TIMES 100THS OF SECONDS PER DAY
ICM    R3,B'1111',SMF4TME     GET STEP END TIME
AR     R1,R3                  ADD TO DAYS ADJUST
ICM    R3,B'1111',SMF4SIT     GET STEP START TIME
SR     R1,R3                  SUBTRACT GIVING ELAPSED TIME
LA     R2,KPERIODM            MASK TO PRINT ELAPSED TIME
BAL    R8,TIMEFORM            CONVERT TIME TO PRINTABLE
MVC    SYSOUTLN+66(11),TIMECHAR ELAPSED TIME TO PRINT AREA
MVC    ACTRELAP(11),TIMECHAR  ELAPSED TIME TO CONSOLE MSG

```

*

* TCB TIME (FROM PARAMETER FIELD)

*

```

MVC    SYSOUTLN+79(9),KTCBTIM CONSTANT FIELD LABEL
L      R2,PLSETADR            GET ADDR OF STEP CPU TIME (TCB)
XR     R1,R1                  CLEAR R1
ICM    R1,B'0111',0(R2)       GET TCB TIME
LA     R2,KPERIODM            MASK TO PRINT ELAPSED TIME
BAL    R8,TIMEFORM            CONVERT TIME TO PRINTABLE
MVC    SYSOUTLN+92(11),TIMECHAR STEP TCB TIME TO PRINT AREA

```

*

* PROGRAM LOAD TIME (FROM SMF4 RECORD)

*

```

MVC    SYSOUTLN+105(13),KPGLDTIM CONSTANT FIELD LABEL
ICM    R1,B'1111',SMF4PPST     GET PROBLEM PROGRAM START TIME
LA     R2,KCLOCKM              MASK TO PRINT CLOCK TIME
BAL    R8,TIMEFORM            CONVERT TIME TO PRINTABLE
MVC    SYSOUTLN+119(11),TIMECHAR STEP SRB TIME TO PRINT AREA

```

*

```

WRSYSOUT ,                    CALL IEFYS TO WRITE SYSOUT LINE

```

*

* SYSOUT LINE #6

*

```

FILL   SYSOUTLN,KSPACE        INITIALIZE SYSOUT LINE 6
MVI    SYSOUTLN,KSTAR         ..
MVI    SYSOUTLN+131,KSTAR     ..

```

*

* STEP COMPLETION CODE (FROM SMF4 RECORD)

*

```

TM     SMF4STI,B'00000001'     WAS STEP FLUSHED?
BO     CCNOEXEC                YES, GO HANDLE
MVC    SYSOUTLN+3(15),KCONDCDE CONSTANT FIELD LABEL
TM     SMF4STI,B'00000010'     ABEND?
BO     CCABEND                 YES, GO HANDLE
XR     R1,R1                    CLEAR R1
ICM    R1,3,SMF4SCC            GET STEP CC
N      R1,=X'00000FFF'          CLEAR UNUSED PORTION
CVD    R1,DECW                 CONVERT TO DECIMAL
UNPK   UNPACKW(5),DECW+5(3)    UNPACK
OI     UNPACKW+4,X'F0'         CORRECT SIGN FOR PRINT
MVC    SYSOUTLN+21(5),UNPACKW  MOVE TO PRINT
MVC    ACTRSCC(5),UNPACKW      AND CONSOLE MSG
B      CCDONE                  CONTINUE WITH NEXT FIELD

```

```

*
CCNOEXEC DS      0H
          MVC     SYSOUTLN+3(19),KFLUSHED INDICATE STEP NOT RUN
          MVC     ACTRSCC(5),=C'NOEXEC'   AND ON CONSOLE MSG
          B       LN6DONE                  LINE COMPLETE, GO PRINT
*
CCABEND  DS      0H
          TM      SMF4SCC,X'80'           USER ABEND?
          BO      CCUSERAB                YES, GO HANDLE
          MVC     SYSOUTLN+21(2),=C'S-'   INDICATE SYSTEM ABEND CODE
          MVC     ACTRSCC(2),=C'S-'     AND ON CONSOLE MSG
          UNPK    DECW(4),SMF4SCC(3)     UNPACK
          TR      DECW(4),HEXTRANS-X'F0' TRANSLATE TO PRINTABLE
          MVC     SYSOUTLN+23(3),DECW    MOVE TO PRINT
          MVC     ACTRSCC+2(3),DECW     AND CONSOLE MSG
          B       CCDONE                  CONTINUE WITH NEXT FIELD
*
CCUSERAB DS      0H
          MVI     SYSOUTLN+21,C'U'       INDICATE USER ABEND CODE
          MVI     ACTRSCC,C'U'          AND ON CONSOLE MSG
          XR      R1,R1                  CLEAR R1
          ICM     R1,3,SMF4SCC          GET STEP CC
          N       R1,=X'00000FFF'       CLEAR UNUSED PORTION
          CVD     R1,DECW                CONVERT TO DECIMAL
          UNPK    UNPACKW(5),DECW+5(3)  UNPACK
          OI      UNPACKW+4,X'F0'       CORRECT SIGN FOR PRINT
          MVC     SYSOUTLN+22(4),UNPACKW+1 MOVE TO PRINT
          MVC     ACTRSCC+1(4),UNPACKW+1 AND CONSOLE MSG
*
CCDONE   DS      0H
*
* PERFORMANCE GROUP NUMBER (FROM SMF4 RECORD)
*
          MVC     SYSOUTLN+28(18),KPFMGRP CONSTANT FIELD LABEL
          XR      R1,R1                  CLEAR R1
          ICM     R1,B'0011',REL4PGNO   GET PERFORMANCE GROUP NUMBER
          CVD     R1,DECW                CONVERT TO DECIMAL
          UNPK    SYSOUTLN+47(3),DECW+6(2)
          OI      SYSOUTLN+49,X'F0'
*
LN6DONE  DS      0H
          WRSYSOUT ,                    CALL IEFYS TO WRITE SYSOUT LINE
*
* SYSOUT LINE #7
*
          FILL    SYSOUTLN,KSPACE       INITIALIZE SYSOUT LINE 7
          MVI     SYSOUTLN,KSTAR        ..
          MVI     SYSOUTLN+131,KSTAR    ..
          MVC     SYSOUTLN+57(38),KSUHEADL ..
          MVC     SYSOUTLN+95(35),KSUHEADR ..
*
* JES2 CARD IMAGES READ (FROM SMF4 RECORD)

```

*

```
MVC  SYSOUTLN+28(11),KJES2NCI  CONSTANT FIELD LABEL
XR   R1,R1                      CLEAR R1
ICM  R1,B'1111',SMF4NCI        GET JES2 CARD IMAGES READ
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+39(11),=X'4020206B2020206B202120' EDIT MASK
ED   SYSOUTLN+39(11),DECW+3    EDIT FOR PRINT
```

*

```
WRSYSOUT ,                      CALL IEFYS TO WRITE SYSOUT LINE
```

*

* SYSOUT LINE #8

*

```
FILL SYSOUTLN,KSPACE           INITIALIZE SYSOUT LINE 8
MVI  SYSOUTLN,KSTAR            ..
MVI  SYSOUTLN+131,KSTAR        ..
```

*

* SERVICE UNITS (FROM SMF4 RECORD)

*

```
ICM  R1,B'1111',REL4SST        GET # SERVICE UNITS USED BY STEP
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+58(12),=X'402020206B2020206B202120' MASK
ED   SYSOUTLN+58(12),DECW+3    EDIT TO PRINT
```

*

* NUMBER OF PAGE-INS (FROM SMF4 RECORD)

*

```
ICM  R1,B'1111',REL4PGIN       GET # OF PAGE-INS
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+72(5),=X'4020202120' MASK
ED   SYSOUTLN+72(5),DECW+5     EDIT TO PRINT
MVI  SYSOUTLN+78,KSLASH        CONSTANT FIELD SEPARATOR
```

*

* NUMBER OF PAGE-OUTS (FROM SMF4 RECORD)

*

```
ICM  R1,B'1111',REL4PGOT       GET # OF PAGE-OUTS
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+79(5),=X'4020202120' MASK
ED   SYSOUTLN+79(5),DECW+5     EDIT TO PRINT
```

*

* NUMBER OF TIMES SWAPPED (FROM SMF4 RECORD)

*

```
ICM  R1,B'1111',REL4NSW        GET # TIMES SWAPPED
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+88(5),=X'4020202120' MASK
ED   SYSOUTLN+88(5),DECW+5     EDIT TO PRINT
```

*

* NUMBER OF PAGES SWAPPED IN (FROM SMF4 RECORD)

*

```
ICM  R1,B'1111',REL4PSI        GET # OF PAGES SWAPPED IN
CVD  R1,DECW                    CONVERT TO DECIMAL
MVC  SYSOUTLN+100(5),=X'4020202120' MASK
ED   SYSOUTLN+100(5),DECW+5    EDIT TO PRINT
MVI  SYSOUTLN+106,KSLASH       CONSTANT FIELD SEPARATOR
```

*

* NUMBER OF PAGES SWAPPED OUT (FROM SMF4 RECORD)

*

```

ICM  R1,B'1111',REL4PSO      GET # OF PAGES SWAPPED OUT
CVD  R1,DECW                  CONVERT TO DECIMAL
MVC  SYSOUTLN+107(5),=X'4020202120' MASK
ED   SYSOUTLN+107(5),DECW+5  EDIT TO PRINT

```

*

* NUMBER OF VIO PAGES SWAPPED IN (FROM SMF4 RECORD)

*

```

ICM  R1,B'1111',REL4VPI      GET # VIO PAGES SWAPPED IN
CVD  R1,DECW                  CONVERT TO DECIMAL
MVC  SYSOUTLN+118(5),=X'4020202120' MASK
ED   SYSOUTLN+118(5),DECW+5  EDIT TO PRINT
MVI  SYSOUTLN+124,KSLASH     CONSTANT FIELD SEPARATOR

```

*

* NUMBER OF VIO PAGES SWAPPED OUT (FROM SMF4 RECORD)

*

```

ICM  R1,B'1111',REL4VPO      GET # VIO PAGES SWAPPED OUT
CVD  R1,DECW                  CONVERT TO DECIMAL
MVC  SYSOUTLN+125(5),=X'4020202120' MASK
ED   SYSOUTLN+125(5),DECW+5  EDIT TO PRINT

```

*

```

WRSYSOUT ,                    CALL IEFYS TO WRITE SYSOUT LINE

```

*

* SYSOUT LINE #9 (JUST A SEPARATOR LINE)

*

```

FILL  SYSOUTLN,KSPACE        INITIALIZE SYSOUT LINE 9
MVI   SYSOUTLN,KSTAR         ..
MVI   SYSOUTLN+131,KSTAR     ..

```

*

```

WRSYSOUT ,                    CALL IEFYS TO WRITE SYSOUT LINE

```

*

* SYSOUT LINE #10 (HEADING FOR I/O COUNTS FOR DEVICES)

*

```

LH    R5,SMF4LENN            GET DEVICE ENTRY PORTION LENGTH
SH    R5,=H'2'               MINUS 2 FOR LENGTH FIELD
SRL   R5,3                   DIVIDED BY 8
LTR   R5,R5                  EQUALS NUMBER OF DEVICE ENTRIES
BZ    CLOSEBOX               IF ZERO - SKIP WRITING SECTION
LA    R6,SMF4LENN+2          ADDRESS OF FIRST DEVICE ENTRY
FILL  SYSOUTLN,KSPACE        INITIALIZE SYSOUT LINE 10
MVI   SYSOUTLN,KSTAR         ..
MVI   SYSOUTLN+131,KSTAR     ..
MVC   SYSOUTLN+4(19),KSEXCPHD ..
MVC   SYSOUTLN+25(19),KSEXCPHD ..
MVC   SYSOUTLN+46(19),KSEXCPHD ..
MVC   SYSOUTLN+67(19),KSEXCPHD ..
MVC   SYSOUTLN+88(19),KSEXCPHD ..
MVC   SYSOUTLN+109(19),KSEXCPHD ..
XR    R3,R3                  CLEAR R3 (OFFSET ON LINE)

```

*

```

      WRSYSOUT ,          CALL IEFYS TO WRITE SYSOUT LINE
*
* SYSOUT LINE #11-?? (EXCP I/O COUNTS FOR DEVICES)
*
      FILL  SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 10
      MVI   SYSOUTLN,KSTAR        ..
      MVI   SYSOUTLN+131,KSTAR    ..
*
* LOOP THROUGH ALL SMF4 DEVICE ENTRIES
*
NEXTDEVC DS      0H
      MVC   EXCPBLOK,KEXCP        INITIALIZE OUTPUT FORMAT AREA
      MVC   DECW+5(2),2(R6)       GET UNIT ADDRESS
      MVI   DECW+7,X'0C'         APPEND JUNK CHARACTER FO UNPK
      UNPK  UNPACKW(5),DECW+5(3)  UNPACK ADDRESS
      TR    UNPACKW(4),HEXTRANS-C'0' TRANSLATE X'F1-FF' TO C'A-F'
      CLC   UNPACKW+1(3),=C'000'  IS ADDRESS ZERO?
      BNE   ISITVIO              NO, GO CHECK FOR VIO
      L     R0,4(R6)             GET EXCP COUNT FOR DEVICE
      LTR   R0,R0                IS IT ZERO?
      BE    EXCPNEXT            YES, DON'T PRINT ANYTHING
      B     CONVEXCP            PRINT COUNT FOR DUMMY DEVICE
*
ISITVIO DS      0H
      MVC   EXCPADDR,UNPACKW+1    MOVE ADDRESS TO FORMAT AREA
      CLC   UNPACKW+1(3),=C'FFF'  DOES ADDRESS INDICATE VIO?
      BNE   DEVCNAME            NO, GO DETERMINE DEVICE
      MVI   EXCPDEVC,C'D'        INDICATE CLASS IS DISK
      MVC   EXCPDEVN,=C' VIO'    AND NAME IS VIO
      B     CONVEXCP            AND REPORT COUNT
*
DEVCNAME DS      0H
      MVI   EXCPDEVC,C' '        DEFAULT DEVICE CLASS
      MVC   EXCPDEVN,=C'MISC'    AND NAME OF MISC
      CLI   0(R6),X'20'         IS IT A DASD DEVICE?
      BE    DASDDEV            YES, GO PROCESS
      CLI   0(R6),X'80'         IS IT A TAPE DEVICE?
      BNE   CONVEXCP            NO, GO REPORT COUNT AS MISC
*
TAPEDEV  MVI     EXCPDEVC,C'T'    INDICATE TAPE DEVICE CLASS
      XR      R1,R1              CLEAR R1
      IC      R1,1(R6)           GET DEVICE TYPE
      IC      R1,TAPEOFST(R1)    GET OFFSET TO TAPE DEVICE NAME
      LA      R1,TAPETABL(R1)    GET ADDRESS OF TAPE DEVICE NAME
      MVC     EXCPDEVN,0(R1)     MOVE DEVICE NAME TO FORMAT AREA
      B      CONVEXCP
*
DASDDEV  MVI     EXCPDEVC,C'D'    INDICATE DASD DEVICE CLASS
      XR      R1,R1              CLEAR R1
      IC      R1,1(R6)           GET DEVICE TYPE
      IC      R1,DASDOFST(R1)    GET OFFSET TO DASD DEVICE NAME
      LA      R1,DASDTABL(R1)    GET ADDRESS OF DEVICE NAME

```



```
*****
* EXIT BACK TO SYSTEM
*****
```

```
GOBACK   DS      0H
          ESTAE 0          CANCEL ESTAE EXIT
RTRYRTN2 DS      0H          ESTAE RETRY ROUTINE WITH SDWA
*                               JUST FREE STORAGE AND EXIT
          L       R3,4(R13)  RETRIEVE SYSTEM SAVE AREA ADDR
          L       R0,WALNGTH  LOAD FREEMAIN INFORMATION
          LR      R1,R13      LOAD ADDRESS OF WORKAREA MEMORY
          FREEMAIN R,LV=(0),A=(1)  FREE ACQUIRED MEMORY
          LR      R13,R3      RESTORE CALLER'S SAVE AREA
QUIKEXIT DS      0H
          LM      R14,R12,12(R13)  RESTORE CALLER'S REGISTERS
          BR      R14          RETURN TO SYSTEM
```

```
*****
*
* ESTAE EXIT ROUTINE
*
```

```
RECOVERY DS      0H
          USING *,R15        SET UP ADDRESSABILITY
          LA      R4,4        PUT 4 IN REGISTER FOR COMPARE
          CR      R0,R4        IS SDWA PRESENT?
          BNE     HAVESDWA     YES, BR TO PROCESS WITH SDWA
          L       R0,0(R2)     LOAD RETRY ADDR FROM PARM LIST
          LA      R15,4        SET RETCODE TO RETRY ADDR IN R0
          BR      R14          RETURN WITH RETRY ADDR
HAVESDWA DS      0H          ENTER HERE IF SDWA PRESENT
          ST      R14,12(R13)  SAVE RETURN ADDRESS
          L       R2,0(R1)     LOAD PARM LIST ADDR FROM SDWA
          L       R2,4(R2)     LOAD RETRY ADDRESS
          SETRP  RC=4,,RETADDR=(2),RETREGS=YES,FRESDDWA=YES,REGS=(14)
          DROP   R15
```

```
*****
*
* ESTAE RETRY ROUTINE WHEN NO SDWA WAS PRESENT
*
```

```
RTRYRTN1 DS      0H          ROUTINE WITH NO SDWA PRESENT
          LM      R11,R13,8(R1)  LOAD REGS FOR ESTAE PARM LIST
          B       RTRYRTN2      AND GET OUT
```

```
*****
* CONVERT JULIAN DATE IN 4 CHARACTER PACKED FIELD (0YYDDDS) PLACED IN *
* DATEPACK TO VALID Y2K FORMAT (YYYYDDDS); UNPACKED VERSION WILL BE *
* AVAILABLE IN DATECHAR.
*****
```

```
DATEFORM DS      0H
          UNPK   DATECHAR(7),DATEPACK  UNPACK 4 BYTE JULIAN DATE
          OI     DATECHAR+6,X'F0'      CORRECT SIGN FIELD
          CLC    DATECHAR(2),=C'00'    SMF DATE (00YYDDD)?
          BNE    DATEFO01              BRANCH IF NOT
```

```

MVC DATECHAR(2),=C'19' CHANGE YEAR TO 1900
DATEFO01 CLC DATECHAR(2),=C'01' SMF DATE (01YYDDD)?
BNE DATEFO02 BRANCH IF NOT

```

```

MVC DATECHAR(2),=C'20' CHANGE YEAR TO 2000
DATEFO02 PACK DATEPACK,DATECHAR(7) REPACK MODIFIED DATE
BR R8 RETURN
EJECT

```

```

*****
* CONVERT TIME IN 100THS OF SECONDS (IN R1) TO A PRINTABLE *
* FIELD IN THE FORMAT: HH.MM.SS.HH (WILL BE IN TIMECHAR) *
*****

```

```

TIMEFORM DS 0H
XR R0,R0 CLEAR R0 FOR DIVISION
D R0,=A(60*60*100) COMPUTE HOURS IN R1
LR R7,R1 SAVE MINUTES
SRDL R0,32 REMAINDER TO R1 (CLEAR R0)
D R0,=A(60*100) COMPUTE MINUTES IN R1
M R6,=F'100' SHIFT LEFT TWO DIGITS
AR R7,R1 ADD MINUTES TO HOURS
SRDL R0,32 REMAINDER TO R1 (CLEAR R0)
D R0,=A(100) COMPUTE SECONDS IN R1
* AND 100THS OF SECONDS IN R0
M R6,=F'100' SHIFT LEFT TWO DIGITS
AR R7,R1 ADD SECONDS TO MINUTES AND HOURS
M R6,=F'100' SHIFT LEFT TWO DIGITS
AR R7,R0 ADD 100THS OF SECONDS
CVD R7,DECW CONVERT TO DECIMAL
MVC TIMECHAR-2(13),0(R2) MOVE MASK TO PRINT AREA
ED TIMECHAR-2(13),DECW+3 EDIT
BR R8 AND RETURN

```

```
EJECT
```

```

*****
* CONSTANTS *
*****

```

```

KSPACE EQU X'40' SPACE
KSTAR EQU C'*' ASTERISK
KCOMMA EQU C',' COMMA
KPERIOD EQU C'.' PERIOD
KRPAREN EQU C')' RIGHT PARENTHESIS
KLPAREN EQU C'(' LEFT PARENTHESIS
KSLASH EQU C'/' SLASH
KCOLON EQU C':' COLON
KK EQU C'K' K
KCLOCKM DC XL13'402120207A20207A2020404040'
KPERIODM DC XL13'402120207A20207A20204B2020'
KWTOID DC CL9'IEFACTRT '
KSJOBNAM DC CL11' JOB NAME: '
KSJOBCRD DC CL14' JOBCARD READ '
KSCPUMAJ DC CL5' 370/'
KSVS2 DC CL6' VS2 R'
KSTEPNUM DC CL12' STEP NUMBER: '
KACTRSTP DC CL8'(JS#000)'

```

```

KUSERCOR DC      CL10 'USER CORE:'
KSTEPNAM DC      CL10 'STEP NAME:'
KSTRTTIM DC      CL11 'START TIME:'
KCPUTIM  DC      CL9  'CPU TIME:'
KSRBTIM  DC      CL9  'SRB TIME:'
KSYSCOR  DC      CL12 'SYSTEM CORE:'
KSTOPTIM DC      CL10 'STOP TIME:'
KACTVTIM DC      CL12 'ACTIVE TIME:'
KPGGLDTM DC      CL13 'PROGRAM LOAD:'
KELAPSED DC      CL13 'ELAPSED TIME:'
KTCBTIM  DC      CL9  'TCB TIME:'
KALLOCTI DC      CL11 'ALLOC TIME:'
KPGMNAME DC      CL13 'PROGRAM NAME:'
KRGNSIZE DC      CL12 'REGION SIZE:'
KCONDCDE DC      CL15 'CONDITION CODE:'
KFLUSHED DC      CL19 '-STEP NOT EXECUTED-'
KPFMGRP  DC      CL18 'PERFORMANCE GROUP:'
KJES2NCI DC      CL11 'JES2 CARDS:'
KSUHEADL DC      CL38 'SERVICE UNITS  PAGES IN/OUT  # SWAPS  '
KSUHEADR DC      CL35 'PAGES SWAP IN/OUT  VIO PAGES IN/OUT'
KSEXCPHD DC      CL19 'ADDR/UNIT I/O COUNT'
KEXCP    DC      CL21 'JES/DUMMY 999999999  '
KWARN    DC      CL42 '*** WARNING: EXCP COUNTS MAY BE WRONG ***'
WALNGTH  DC      0F'0',AL1(SUBPOOL),AL3(WORKAEND-WORKAREA)
WTODEF   WTO     '.....1.....2.....3.....4.....5.....C
                .....6.....',ROUTCDE=2,DESC=(6),MF=L
WTODEFL  EQU     *-WTODEF                LENGTH OF MODEL WTO
WTOMSGL  EQU     (WTODEFL-8)            LENGTH OF WTO MESSAGE AREA   JLM
ESTAE    ESTAE   MF=L                    MODEL ESTAE PARM LIST
LESTAE   EQU     *-ESTAE                LENGTH OF MODEL ESTAE
HEXTRANS DC      C'0123456789ABCDEF'
*****
*
*   DASD DEVICE NAME OFFSETS AND TABLE
*
*****
DASDOFST DC      AL1(DADASD-DASDTABL)    00   GENERIC 'DASD'
          DC      AL1(DA2311-DASDTABL)   01   '2311'
          DC      AL1(DADASD-DASDTABL)   02   GENERIC 'DASD'
          DC      AL1(DADASD-DASDTABL)   03   GENERIC 'DASD'
          DC      AL1(DADASD-DASDTABL)   04   GENERIC 'DASD'
          DC      AL1(DADASD-DASDTABL)   05   GENERIC 'DASD'
          DC      AL1(DADASD-DASDTABL)   06   GENERIC 'DASD'
          DC      AL1(DADASD-DASDTABL)   07   GENERIC 'DASD'
          DC      AL1(DA2314-DASDTABL)   08   '2314'
          DC      AL1(DA3330-DASDTABL)   09   '3330'
          DC      AL1(DA3340-DASDTABL)   0A   '3340'
          DC      AL1(DA3350-DASDTABL)   0B   '3350'
          DC      AL1(DA3375-DASDTABL)   0C   '3375'
          DC      AL1(DA3330-DASDTABL)   0D   '3330'
          DC      AL1(DA3380-DASDTABL)   0E   '3380'
          DC      AL1(DA3390-DASDTABL)   0F   '3390'

```

```

DASDTABL DS      0D
DADASD   DC      CL4'DASD'
DA2311   DC      CL6'2311'
DA2314   DC      CL6'2314'
DA3330   DC      CL6'3330'
DA3340   DC      CL6'3340'
DA3350   DC      CL6'3350'
DA3375   DC      CL6'3375'
DA3380   DC      CL6'3380'
DA3390   DC      CL6'3390'

```

```

*****
*

```

```

*   TAPE DEVICE NAME OFFSETS AND TABLE
*

```

```

*****

```

```

TAPEOFST DC      AL1(TATAPE-TAPETABL)    00   GENERIC 'TAPE'
          DC      AL1(TA2400-TAPETABL)   01   '2400'
          DC      AL1(TATAPE-TAPETABL)   02   GENERIC 'TAPE'
          DC      AL1(TA3400-TAPETABL)   03   '3400'

```

```

TAPETABL DS      0D
TATAPE   DC      CL6'TAPE'
TA2400   DC      CL6'2400'
TA3400   DC      CL6'3400'

```

```

EJECT

```

```

*****
*   WORK AREA ALLOCATED VIA GETMAIN
*****

```

```

WORKAREA DSECT

```

```

          DS      18F          STANDARD REGISTER SAVE AREA
ESTAEW   DS      XL(LESTAE)    ESTAE PARM LIST AREA
ESTAPARM DS      5F          PARM LIST PASSED TO RETRY RTN
*
*          RETRY ROUTINE ADDRESS (NO SWDA
*          RETRY ROUTINE ADDRESS (SWDA
*          BASE REGISTER R11
*          IEFYS PARMS   R12
*          DATA REGISTER R13

```

```

* * * * * * * * * * PARAMETERS PASSED ON ENTRY SAVED BELOW * * * * * * * * * *

```

```

PLCEPADR DS      F          ADDR OF COMMON EXIT PARM AREA
PLSTPADR DS      F          ADDR OF STEPNAME
PLPGNADR DS      F          ADDR OF PROGRAMMER'S NAME
PLJETADR DS      F          ADDR OF JOB EXECUTION TIME
PLJAFADR DS      F          ADDR OF JOB ACCOUNTING INFO
PLSETADR DS      F          ADDR OF STEP EXECUTION TIME
PLSAFADR DS      F          ADDR OF STEP ACCOUNTING INFO
PLFSNADR DS      F          ADDR OF FLAG AND STEP NUM
PLTSTADR DS      F          ADDR OF TERMINATION STATUS
PLSMFADR DS      F          ADDR OF TERMINATION RECORD

```

```

* * * * * * * * * * PARAMETERS PASSED ON ENTRY SAVED ABOVE * * * * * * * * * *

```

```

* * * * * * * * * * COMMON EXIT PARAMETER LIST FIELDS SAVED BELOW * * * * * * * * * *

```

```

CEPJOB   DS      CL8          JOBNAME
CEPTIME  DS      CL8          TIME STAMP
CEPSYSID DS      CL4          SMF SYSTEM ID

```

CEPUID	DS	CL8	USER ID
CEPSNUM	DS	CL1	STEP NUMBER
CEPSMFOP	DS	CL1	SMF OPTION
CEPRSTID	DS	CL1	RESTART INDICATOR
CEPJCLAS	DS	CL1	JOB CLASS
CEPUCOMM	DS	0F	USER COMMUNICATION AREA
CEPUCOMH	DS	C	USER COMMUNICATION AREA HEADER
CEPUCOMT	DS	CL3	USER COMMUNICATION AREA TRAILER
* * * * * COMMON EXIT PARAMETER LIST FIELDS SAVED ABOVE * * * * *			
	DS	0F	
WTOBUF	DS	CL(WTODEF)	WTO BUFFER
ACTRMSG	DS	0CL(WTOMSG)	CONSOLE MESSAGE
ACTRHDR	DS	CL9	MESSAGE HEADER 'IEFACTRT '
ACTRSTPN	DS	CL8	STEP NUMBER '(JS#999)'
ACTRSNNN	EQU	ACTRSTPN+4,3	999
ACTRSEP1	DS	CL1	SEPARATOR '/'
ACTRPGMN	DS	CL8	PROGRAM NAME
ACTRSEP2	DS	CL1	SEPARATOR '/'
ACTRCPUT	DS	CL11	CPU TIME
ACTRSEP3	DS	CL1	SEPARATOR '/'
ACTRELAP	DS	CL11	CLOCK TIME
ACTRSEP4	DS	CL1	SEPARATOR '/'
ACTRSCC	DS	CL5	STEP COMPLETION CODE
ACTRSEP5	DS	CL1	SEPARATOR '/'
ACTRJOB	DS	CL8	JOB NAME
SYSOUT@	DS	F	ADDRESS OF SYSOUT LINE
SYSOUT#	DS	H	LENGTH OF SYSOUT LINE
SYSOUTLN	DS	CL132	AREA TO BUILD SYSOUT LINE
DATEPACK	DS	PL4	DATE FOR CORRECTION/CONVERSION
DATECHAR	DS	CL8	JULIAN DATE YYYYDDD
DECW	DS	D	DECIMAL CONVERSION WORK FIELD
PACKW	DS	PL4	PACKED WORK AREA
UNPACKW	DS	CL8	UNPACKED WORK AREA
CPUMODEL	DS	CL4	EDIT FIELD FOR CPU MODEL
	DS	CL2	TIME CONVERSION REQUIRED FILLER
TIMECHAR	DS	CL11	TIME CONVERSION FIELD
* FIELDS BELOW COPIED FROM SMF4 RELOCATE SECTION			
REL4PGIN	DS	BL4	NUMBER OF PAGE-INS
REL4PGOT	DS	BL4	NUMBER OF PAGE-OUTS
REL4NSW	DS	BL4	NUMBER OF SWAPS
REL4PSI	DS	BL4	PAGES SWAPPED IN
REL4PSO	DS	BL4	PAGES SWAPPED OUT
REL4VPI	DS	BL4	VAM PAGE INS
REL4VPO	DS	BL4	VAM PAGE OUTS
* FIELDS BELOW COPIED FROM SMF4 PERFORMANCE SECTION			
REL4SST	DS	BL4	STEP SERVICE TIME
REL4ACT	DS	BL4	STEP ACTIVE TIME
REL4PGNO	DS	BL2	PERFORMANCE NUMBER
* FIELDS BELOW COPIED FROM SMF4 ACCOUNTING SECTION			
	DS	0H	
REL4SETM	DS	BL4	STEP CPU TIME UNDER TCB (.01SEC)
* FIELDS ABOVE COPIED FROM SMF4 RELOCATABLE SECTIONS			

```

EXCPBLOK DS    0CL21          OUTPUT BUILD AREA FOR EXCP ENTRY
          DS    CL3           CUU ADDRESS
EXCPADDR EQU   EXCPBLOK,3    " "
          DS    CL1           /
          DS    CL5           DEVICE CLASS/NAME
EXCPDEVC EQU   EXCPBLOK+4,1  " "
EXCPDEVN EQU   EXCPBLOK+5,4  " "
          DS    CL10          I/O COUNT
EXCPCNT  EQU   EXCPBLOK+9,10 " "
          DS    CL2
WORKAEND DS    0F           END OF GETMAIN WORK AREA

```

```

*****
* SYSTEM RECORD DSECTS *
*****

```

```

          PUSH PRINT
          PRINT NOGEN
SMF4     DSECT
          IFASMFR 4           SMF 4 RECORD
          IHASDWA DSECT=YES   SDWA FOR ESTAE/SETRP MACRO
          IEFJMR             JOB MGMT
          POP PRINT
          END   IEFACTRT

```

./ ENDUP

IEB816I MEMBER NAME (IEFACTRT) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.

IEB818I HIGHEST CONDITION CODE WAS 00000000

IEB819I END OF JOB IEBUPDTE.

SYMBOL TYPE ID ADDR LENGTH LDID

ASM 0201 16.30 02/08/22

IEFYS WX 0001
IEFACTRT SD 0002 000000 000C87


```

LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT  ASM 0201 16.30 02/08/22
000000          52 IEFACRT CSECT
53 *
54 *****
55 *
56 *
57 *      IIII      EEEEE  FFFFFFFF      A      CCCCC TTTTTTTT RRRRRR TTTTTTTT *
58 *          II      EE      FF          AAA  CC  CC  TT      RR  RR  TT      *
59 *          II      EE      FF          AA AA  CC  CC  TT      RR  RR  TT      *
60 *          II      EEEE  FFFFFF  AA  AA  CC          TT      RR  RR  TT      *
61 *          II      EE      FF          AA  AA  CC          TT      RRRRRR  TT      *
62 *          II      EE      FF          AAAAAA CC  CC  TT      RR RR  TT      *
63 *          II      EE      FF          AA  AA  CC  CC  TT      RR  RR  TT      *
64 *          IIII  EEEEEEE FF          AA  AA  CCCCC  TT      RR  RR  TT      *
65 *
66 *
67 *****
68 *
69 * FUNCTION
70 *   THIS MODULE IS ENTERED AT JOB/STEP TERMINATION. IF THE
71 *   MODULE WAS ENTERED FOR STEP TERMINATION, INFORMATION IS
72 *   EXTRACTED AND WRITTEN TO THE SYSOUT DATASET USING THE IEFYS
73 *   ROUTINE, AND A MESSAGE IS WRITTEN TO THE CONSOLE INDICATING
74 *   THE STEP COMPLETION INFORMATION.
75 *
76 * ENTRY POINT - IEFACRT
77 *
78 * INPUT
79 *   REGISTER 0 INDICATES REASON FOR ENTRY:
80 *       12 - STEP TERMINATION
81 *       16 - JOB TERMINATION
82 *
83 *   REGISTER 1 POINTS TO A LIST OF 4 BYTE ADDRESSES FOR THE
84 *   FOLLOWING TEN PARAMETERS:
85 *       1 - POINTER TO COMMON EXIT PARAMETER BLOCK (FIELDS MOVED TO
86 *       LOCAL WORK AREA). FIELDS ARE: JOB NAME, DATE/TIME, SMF
87 *       SYSTEM ID, USERID, STEP NUMBER, SMF OPTION, RESTART
88 *       INDICATOR, JOB CLASS, USER COMMUNICATION AREA (4 BYTES).
89 *       2 - STEP NAME (ADDRESS IS ZERO FOR JOB TERM ENTRY)
90 *       3 - PROGRAMMERS NAME
91 *       4 - JOB EXECUTION TIME
92 *       5 - JOB ACCOUNTING FIELDS
93 *       6 - STEP EXECUTION TIME
94 *       7 - STEP ACCOUNTING FIELDS
95 *       8 - FLAGS AND STEP NUMBER
96 *       9 - TERMINATION STATUS
97 *       10 - SMF TERMINATION RECORD
98 *
99 * OUTPUT - NONE
100 *
101 * EXIT - NORMAL = AT PROGRAM END VIA BRANCH REGISTER 14
102 *
103 * EXTERNAL REFERENCES
104 *   IEFYS - WRITES LINE TO SYSTEM LOG
105 *
106 * DSECTS

```

```
LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT  ASM 0201 16.30 02/08/22
107 *   IEFJMR - JOB MANAGEMENT *
108 *   IFASMFR - SMF RECORD FORMAT (RECORD TYPE 4 USED) *
109 *   IHASDWA - SDWA FOR ESTAE/SETRP MACRO *
110 *   WORKAREA - INTERNAL FIELDS STORED IN MEMORY EXTERNAL TO PROGRAM *
111 * * *
112 * ATTRIBUTES - KEY 0, REENTRANT *
113 * * *
114 * CHARACTER CODE DEPENDENCY - NONE *
115 * * *
116 * EXTERNAL MACROS USED: GETMAIN, FREEMAIN *
117 * * *
118 * REGISTER USAGE: *
119 *   R8 - USED FOR SUBROUTINE LINKAGE *
120 *   R10 - SMF RECORD *
121 *   R11 - BASE REGISTER *
122 *   R12 - RESERVED FOR IEFYS COMMUNICATION *
123 *   R13 - WORK AREA OBTAINED BY GETMAIN, INCLUDES MY SAVE AREA *
124 * * *
125 * WRITTEN BY JAY MOSELEY IN JULY, 2020 *
126 * * *
127 * MODIFICATIONS *
128 * * *
129 *   2002/08/29 JLM: ERROR IN COMPUTING LENGTH OF WTO MESSAGE AREA- *
130 *   AS ORIGINALLY CODED, MVC OF STEP END MESSAGE TO *
131 *   WTO MESSAGE AREA INCLUDED MCS FLAGS, WHICH COULD *
132 *   RANDOMLY AFFECT MESSAGE HIGHLIGHTING. *
133 * * *
134 * *****
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 16.30 02/08/22
			000F1	136	SUBPOOL	EQU 241	SUBPOOL FOR WORK AREA
			00000	137	R0	EQU 0	REGISTER 0
			00001	138	R1	EQU 1	REGISTER 1
			00002	139	R2	EQU 2	REGISTER 2
			00003	140	R3	EQU 3	REGISTER 3
			00004	141	R4	EQU 4	REGISTER 4
			00005	142	R5	EQU 5	REGISTER 5
			00006	143	R6	EQU 6	REGISTER 6
			00007	144	R7	EQU 7	REGISTER 7
			00008	145	R8	EQU 8	REGISTER 8
			00009	146	R9	EQU 9	REGISTER 9
			0000A	147	R10	EQU 10	REGISTER 10
			0000B	148	R11	EQU 11	REGISTER 11
			0000C	149	R12	EQU 12	REGISTER 12
			0000D	150	R13	EQU 13	REGISTER 13
			0000E	151	R14	EQU 14	REGISTER 14
			0000F	152	R15	EQU 15	REGISTER 15
			00000	153		USING IEFACRT,R15	TEMPORARY ADDRESSABILITY
000000	47F0 F01E	0001E		154		B BEGIN	BRANCH AROUND IDENT FIELDS
000004				155	IDENTITY	DS 0H	BEGIN IDENTIFICATION FIELDS
000004	1A			156		DC AL1(BEGIN-IDENTITY)	LENGTH OF IDENTIFICATION FIELDS
000005	C9C5C6C1C3E3D9E3			157		DC CL8'IEFACRT'	CSECT NAME
				158		DC C'&SYSDATE. @ &SYSTIME'	ASSEMBLY DATE AND TIME
00000D	F0F261F0F861F2F2			159+		DC C'02/08/22 @ 16.30'	ASSEMBLY DATE AND TIME
00001E				160	BEGIN	DS 0H	END OF IDENTIFICATION FIELDS
00001E	90EC D00C	0000C		161		STM R14,R12,12(R13)	ENTRY LINKAGE
000022	5870 1000	00000		162		L R7,0(,R1)	CEP LIST
			00000	163		USING JMR,R7	SET UP ADDRESSABILITY
000026	9101 701D	0001D		164		TM JMRINDC,JMRFIND	IS THIS TSO USER?
00002A	4710 F8A8	008A8		165		BO QUIKEXIT	YES, EXIT NOW
				166		DROP R7	DROP CEPLIST ADDRESSABILITY
				167		DROP R15	DROP TEMPORARY BASE
00002E	05B0			168		BALR R11,R0	REGISTER 11 AS BASE REGISTER
			00030	169		USING *,R11	SET UP ADDRESSABILITY
000030	5800 BAFC	00B2C		170		L R0,WALNGTH	LOAD GETMAIN INFORMATION
				171		GETMAIN R,LV=(0)	ACQUIRE MEMORY FOR WORK AREA
000034	4510 B008	00038		172+		BAL 1,#+4	INDICATE GETMAIN
000038	0A0A			173+		SVC 10	ISSUE GETMAIN SVC
00003A	18FD			174		LR R15,R13	SAVE OLD SAVE AREA POINTER
00003C	18D1			175		LR R13,R1	R13 POINTS TO NEW SAVE AREA
			00000	176		USING WORKAREA,R13	SET UP ADDRESSABILITY TO WORK
00003E	9801 F014	00014		177		LM R0,R1,20(R15)	RESTORE ORIGINAL R0/R1
000042	50FD 0004	00004		178		ST R15,4(R13)	OLD SAVE AREA ADDRESS INTO NEW
000046	50DF 0008	00008		179		ST R13,8(R15)	NEW SAVE AREA ADDRESS INTO OLD
00004A	1830			180		LR R3,R0	ORIGINAL R0 TO R3
				181	*		
				182	*	SAVE ADDRESSES PASSED IN R1 LIST	
				183	*		
00004C	D227 D06C 1000	0006C 00000		184		MVC PLCEPADR(40),0(R1)	COPY 10 ADDRESSES TO WORK AREA
				185	*		
				186	*	SAVE COMMON EXIT PARAMETER LIST FIELDS	
				187	*		
000052	5810 D06C	0006C		188		L R1,PLCEPADR	GET ADDRESS OF CEP LIST
000056	D223 D094 1000	00094 00000		189		MVC CEPJOB(36),0(R1)	COPY 11 FIELDS TO WORK AREA
				190	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				191 *	SET UP RECOVERY ENVIRONMENT	
				192 *		
00005C	D20F D048 BB4C	00048	00B7C	193	MVC ESTAEW(LESTAE),ESTAEL	MOVE IN ESTAE PARAMETER LIST
000062	4100 B8B4	008E4		194	LA R0,RTRYRTN1	RETRY ROUTINE - NO SDWA
000066	5000 D058	00058		195	ST R0,ESTAPARM	STORE IN PARAMETER LIST
00006A	4100 B866	00896		196	LA R0,RTRYRTN2	RETRY ROUTINE - WITH SDWA
00006E	5000 D05C	0005C		197	ST R0,ESTAPARM+4	STORE IN PARAMETER LIST
000072	90BD D060	00060		198	STM R11,R13,ESTAPARM+8	BASE/IEFYS WORK/DATA REGS
				199	ESTAE RECOVERY,CT,PARAM=ESTAPARM,MF=(E,ESTAEW)	SETUP RCVRY
				200+*	MACDATE Y-1 75302	00160004
000076	4110 D048	00048		201+	LA 1,ESTAEW	LOAD PARAMETER REG 1 01900002
00007A	4100 B87E	008AE		202+	LA 0,RECOVERY	LOAD PARAMETER REG 0 02500002
00007E	BE07 1001	00001		203+	STCM 0,7,1(1)	STORE USER EXIT ADDRESS 03500004
000082	9610 1000	00000		204+	OI 0(1),16	FLAGS FOR TCB,PURGE,ASYNCH 04100004
000086	4100 D058	00058		205+	LA 0,ESTAPARM	LOAD PARAMETER REG 0 02500002
00008A	5000 1004	00004		206+	ST 0,4(0,1)	MODIFY REMOTE LIST - PARM ADDR 04400004
00008E	1F00			207+	SLR 0,0	INDICATE CREATE OPTION 08950004
000090	0A3C			208+	SVC 60	ISSUE STAE SVC 09500004
				209 *		
000092	4930 BC18	00C48		210	CH R3,=H'16'	IS THIS JOB TERMINATION?
000096	4780 B860	00890		211	BE GOBACK	YES, RETURN TO SYSTEM
00009A	4930 BC1A	00C4A		212	CH R3,=H'12'	IS THIS STEP TERMINATION?
00009E	4770 B860	00890		213	BNE GOBACK	NO, RETURN TO SYSTEM
				214 *		
0000A2	4120 D14A	0014A		215	LA R2,SYSOUTLN	GET ADDRESS OF SYSOUT BUFFER
0000A6	5020 D144	00144		216	ST R2,SYSOUT@	STORE ADDRESS FOR MOVES LATER
0000AA	4120 0084	00084		217	LA R2,132	LENGTH OF SYSOUT BUFFER
0000AE	4020 D148	00148		218	STH R2,SYSOUT#	STORE LENGTH FOR MOVES LATER
				219 *		
0000B2	58A0 D090	00090		220	L R10,PLSMFADR	GET ADDRESS OF SMF RECORD
		00000		221	USING SMF4,R10	SET UP ADDRESSABILITY
				222 *		
				223 *	INITIALIZE CONSOLE MESSAGE LINE	
				224 *		
0000B6	D208 D101 B944	00101	00974	225	MVC ACTRHDR,KWTOD	CONSTANT HEADER
0000BC	9261 D112	00112		226	MVI ACTRSEP1,KSLASH	CONSTANT FIELD SEPARATOR
0000C0	9261 D11B	0011B		227	MVI ACTRSEP2,KSLASH	CONSTANT FIELD SEPARATOR
0000C4	9261 D127	00127		228	MVI ACTRSEP3,KSLASH	CONSTANT FIELD SEPARATOR
0000C8	9261 D133	00133		229	MVI ACTRSEP4,KSLASH	CONSTANT FIELD SEPARATOR
0000CC	9261 D139	00139		230	MVI ACTRSEP5,KSLASH	CONSTANT FIELD SEPARATOR
0000D0	D207 D13A D094	0013A	00094	231	MVC ACTRJOB(8),CEPJOB	JOB NAME TO CONSOLE MESSAGE
				232 *		
				233 *	SYSOUT LINE #1 (INCLUDES JOB INFORMATION ON FIRST STEP)	
				234 *		
				235	FILL SYSOUTLN,KSTAR	INITIALIZE SYSOUT LINE 1
0000D6	925C D14A	0014A		236+	MVI SYSOUTLN,KSTAR	SET FILL BYTE
0000DA	D282 D14B D14A	0014B	0014A	237+	MVC SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN	FILL FIELD
				238 *		
0000E0	9501 D0B0	000B0		239	CLI CEPSNUM,X'01'	IS THIS FIRST STEP?
0000E4	4770 B154	00184		240	BNE NOJOBHD	NO, SKIP JOB HEADING
				241 *		
				242 *	JOB NAME	
				243 *		
0000E8	D20A D14E B94D	0014E	0097D	244	MVC SYSOUTLN+4(11),KSJOBNAM	CONSTANT FIELD LABEL
0000EE	D207 D159 D094	00159	00094	245	MVC SYSOUTLN+15(8),CEPJOB	JOB NAME


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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT
                                ASM 0201 16.30 02/08/22
                                301 *
                                302          WRSYSOUT ,          CALL IEFYS TO WRITE SYSOUT LINE
0001A8 D203 C024 D144 00024 00144 303+          MVC  36(4,R12),SYSOUT@      MOVE ADDR TO IEFYS COMM AREA
0001AE D201 C02A D148 0002A 00148 304+          MVC  42(2,R12),SYSOUT#      MOVE LENGTH TO IEFYS COMM AREA
0001B4 58F0 BBD8      00C08      305+          L    R15,=V(IEFYS)         LOAD IEFYS ENTRY ADDRESS
0001B8 05EF          306+          BALR R14,R15              CALL IEFYS
                                307 *
                                308 * SYSOUT LINE #3
                                309 *
                                310          FILL  SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 3
0001BA 9240 D14A      0014A      311+          MVI  SYSOUTLN,KSPACE      SET FILL BYTE
0001BE D282 D14B D14A 0014B 0014A 312+          MVC  SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
0001C4 925C D14A      0014A      313          MVI  SYSOUTLN,KSTAR      ..
0001C8 925C D1CD      001CD      314          MVI  SYSOUTLN+131,KSTAR  ..
                                315 *
                                316 * STEP NUMBER (FROM SMF4 RECORD)
                                317 *
0001CC D20B D14D B971 0014D 009A1 318          MVC  SYSOUTLN+3(12),KSTEPNUM CONSTANT FIELD LABEL
0001D2 1722          319          XR   R2,R2              CLEAR R2
0001D4 4320 A02A      0002A      320          IC   R2,SMF4STN         INSERT STEP # FROM SMF4 RECORD
0001D8 4E20 D1E0      001E0      321          CVD  R2,DECW           CONVERT TO DECIMAL
0001DC D203 D160 BBD4 00160 00C04 322          MVC  SYSOUTLN+22(4),=X'40202120' EDIT MASK FOR STEP NUMBER
0001E2 DE03 D160 D1E6 00160 001E6 323          ED   SYSOUTLN+22(4),DECW+6 EDIT STEP NUMBER
0001E8 D207 D10A A042 0010A 00042 324          MVC  ACTRSTPN,SMF4STMN   STEP NAME TO CONSOLE MSG
0001EE 9540 A042      00042      325          CLI  SMF4STMN,KSPACE    WAS A STEP NAME SUPPLIED?
0001F2 4770 B1D2      00202      326          BNE  STPNDONE          YES, GO TO NEXT FIELD
0001F6 D207 D10A B97D 0010A 009AD 327          MVC  ACTRSTPN,KACTRSTP  CONSTANT (JS#999)
0001FC D202 D10E D161 0010E 00161 328          MVC  ACTRSNNN(3),SYSOUTLN+23 STEP NUMBER TO CONSOLE MSG
                                329 *
000202          330 STPNDONE DS      0H
                                331 *
                                332 * USER CORE (FROM SMF4 RECORD)
                                333 *
000202 D209 D166 B985 00166 009B5 334          MVC  SYSOUTLN+28(10),KUSERCOR CONSTANT FIELD LABEL
000208 1722          335          XR   R2,R2              CLEAR R2
00020A 4820 A04E      0004E      336          LH   R2,SMF4HOST       GET PROBLEM PROGRAM CORE USED
00020E 4E20 D1E0      001E0      337          CVD  R2,DECW           CONVERT TO DECIMAL
000212 D205 D175 BC1E 00175 00C4E 338          MVC  SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR USER CORE
000218 DE05 D175 D1E5 00175 001E5 339          ED   SYSOUTLN+43(6),DECW+5 EDIT USER CORE
00021E 92D2 D17B      0017B      340          MVI  SYSOUTLN+49,KK     CONSTANT 'K'
                                341 *
                                342 * STEP START TIME HH:MM:SS.TT (FROM SMF4 RECORD)
                                343 *
000222 D20A D17E B999 0017E 009C9 344          MVC  SYSOUTLN+52(11),KSTRTTIM CONSTANT FIELD LABEL
000228 BF1F A02B      0002B      345          ICM  R1,B'1111',SMF4SIT  STEP INITIATION TIME
00022C 4120 B92A      0095A      346          LA   R2,KCLOCKM        MASK TO PRINT CLOCK TIME
000230 4580 B8EE      0091E      347          BAL  R8,TIMEFORM        CONVERT TIME TO PRINTABLE
000234 D20A D18C D1FA 0018C 001FA 348          MVC  SYSOUTLN+66(11),TIMECHAR START TIME TO PRINT AREA
                                349 *
                                350 * COPY FIELDS FROM SMF4 RELOCATE SECTION FOR USE LATER
                                351 *
00023A 1755          352          XR   R5,R5              CLEAR R5
00023C BF53 A068      00068      353          ICM  R5,B'0011',SMF4RLCT GET OFFSET TO RELOCATE SECTION
000240 4155 A004      00004      354          LA   R5,SMFRCD4+4(R5)   GET ADDR OF RELOCATE SECTION
                                00071 355          USING SMF4PGIN,R5      SET UP ADDRESSABILITY

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 16.30 02/08/22
000244	D203	D205	5000	00205	00071	356	MVC REL4PGIN(4),SMF4PGIN	NUMBER OF PAGE-INS
00024A	D203	D209	5004	00209	00075	357	MVC REL4PGOT(4),SMF4PGOT	NUMBER OF PAGE-OUTS
000250	D203	D20D	5008	0020D	00079	358	MVC REL4NSW(4),SMF4NSW	NUMBER OF SWAPS
000256	D203	D211	500C	00211	0007D	359	MVC REL4PSI(4),SMF4PSI	PAGES SWAPPED IN
00025C	D203	D215	5010	00215	00081	360	MVC REL4PSO(4),SMF4PSO	PAGES SWAPPED OUT
000262	D203	D219	5014	00219	00085	361	MVC REL4VPI(4),SMF4VPI	VAM PAGE INS
000268	D203	D21D	5018	0021D	00089	362	MVC REL4VPO(4),SMF4VPO	VAM PAGE OUTS
00026E	D203	D221	501C	00221	0008D	363	MVC REL4SST(4),SMF4SST	STEP SERVICE TIME
000274	D203	D225	5020	00225	00091	364	MVC REL4ACT(4),SMF4ACT	STEP ACTIVE TIME
00027A	D203	D229	5024	00229	00095	365	MVC REL4PGNO(4),SMF4PGNO	PERFORMANCE GROUP NUMBER
						366	DROP R5	NO LONGER NEED ADDRESSABILITY
						367	*	
						368	*	COPY FIELDS FROM SMF4 ACCOUNTING SECTION FOR USE LATER
						369	*	
000280	4150	A06A		0006A		370	LA R5,SMF4LENN	GET ADDRESS OF LENGTH OF THE EXCP SECTION C
000284	4A50	A06A		0006A		371	AH R5,SMF4LENN	GET ADDRESS OF CPU/ACCT SECTION
000288	D703	D22C	D22C	0022C	0022C	372	XC REL4SETM,REL4SETM	CLEAR FULLWORD
00028E	D202	D22D	5001	0022D	00001	373	MVC REL4SETM+1(3),1(R5)	STEP CPU TIME UNDER TCB (.01SEC)
						374	*	
						375	*	CPU TIME HH:MM:SS.TT (FROM PASSED PARAMETER LIST AND SMF4 RECORD)
						376	*	
000294	D208	D199	B9A4	00199	009D4	377	MVC SYSOUTLN+79(9),KCPUTIM	CONSTANT FIELD LABEL
00029A	5820	D080		00080		378	L R2,PLSETADR	GET ADDR OF STEP CPU TIME (TCB)
00029E	1711					379	XR R1,R1	CLEAR R1
0002A0	BF17	2000		00000		380	ICM R1,B'0111',0(R2)	GET TCB TIME
0002A4	1722					381	XR R2,R2	CLEAR R2
0002A6	BF27	A063		00063		382	ICM R2,B'0111',SMF4SRBT	GET STEP SRB TIME
0002AA	1A12					383	AR R1,R2	CPU+SRB = TCB TIME
0002AC	4120	B937		00967		384	LA R2,KPERIODM	MASK TO PRINT ELAPSED TIME
0002B0	4580	B8EE		0091E		385	BAL R8,TIMEFORM	CONVERT TIME TO PRINTABLE
0002B4	D20A	D1A6	D1FA	001A6	001FA	386	MVC SYSOUTLN+92(11),TIMECHAR	STEP CPU TIME TO PRINT AREA
0002BA	D20A	D11C	D1FA	0011C	001FA	387	MVC ACTRCPUT(11),TIMECHAR	STEP CPU TIME TO CONSOLE MSG
						388	*	
						389	*	ACTIVE TIME (FROM SMF4 RECORD)
						390	*	
0002C0	D20B	D1B3	B9CC	001B3	009FC	391	MVC SYSOUTLN+105(12),KACTVTIM	CONSTANT FIELD LABEL
0002C6	BF7F	D225		00225		392	ICM R7,B'1111',REL4ACT	GET STEP ACTIVE TIME (UNIT IS 1024 MICROSECONDS) C
0002CA	1766					393	XR R6,R6	CLEAR R6 FOR MULTIPLY
0002CC	8D60	000A		0000A		394	SLDL R6,10	MULTIPLY BY 1024 TO GET TO GET MICROSECONDS C
0002D0	5E70	BBDC		00C0C		395	AL R7,=A(5000)	ROUND TO NEAREST HUNDREDTH OF A SECOND C
0002D4	47C0	B2AC		002DC		396	BC 12,BCSACTIM	BRANCH IF NO CARRY
0002D8	4166	0001		00001		397	LA R6,1(R6)	INCREMENT R6 ON OVERFLOW FROM R7
						398	*	
0002DC	5D60	BBE0		00C10		399	BCSACTIM D R6,=A(10000)	REDUCE TO HUNDREDTHS OF SECONDS
0002E0	1817					400	LR R1,R7	COPY R7 TO R1
0002E2	4120	B937		00967		401	LA R2,KPERIODM	MASK TO PRINT ELAPSED TIME
0002E6	4580	B8EE		0091E		402	BAL R8,TIMEFORM	CONVERT TIME TO PRINTABLE
0002EA	D20A	D1C1	D1FA	001C1	001FA	403	MVC SYSOUTLN+119(11),TIMECHAR	STEP ACTIVE TIME TO PRINT AREA
						404	*	
						405	WRSYSOUT ,	CALL IEFYS TO WRITE SYSOUT LINE
0002F0	D203	C024	D144	00024	00144	406+	MVC 36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA

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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT  ASM 0201 16.30 02/08/22

0002F6 D201 C02A D148 0002A 00148 407+      MVC  42(2,R12),SYSOUT#      MOVE LENGTH TO IEFYS COMM AREA
0002FC 58F0 BBD8      00C08      408+      L    R15,=V(IEFYS)        LOAD IEFYS ENTRY ADDRESS
000300 05EF      409+      BALR  R14,R15              CALL IEFYS
410 *
411 * SYSOUT LINE #4
412 *
413      FILL  SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 4
000302 9240 D14A      0014A      414+      MVI  SYSOUTLN,KSPACE      SET FILL BYTE
000306 D282 D14B D14A 0014B 0014A 415+      MVC  SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
00030C 925C D14A      0014A      416      MVI  SYSOUTLN,KSTAR      ..
000310 925C D1CD      001CD      417      MVI  SYSOUTLN+131,KSTAR   ..
418 *
419 * STEP NAME (FROM SMF4 RECORD)
420 *
000314 D209 D14D B98F 0014D 009BF 421      MVC  SYSOUTLN+3(10),KSTEPNAM CONSTANT FIELD LABEL
00031A D207 D15C A042 0015C 00042 422      MVC  SYSOUTLN+18(8),SMF4STMN STEP NAME FROM SMF4 RECORD
423 *
424 * SYSTEM CORE USED ON USER'S BEHALF (FROM SMF4 RECORD)
425 *
000320 D20B D166 B9B6 00166 009E6 426      MVC  SYSOUTLN+28(12),KSYSCOR CONSTANT FIELD LABEL
000326 4810 A04C      0004C      427      LH   R1,SMF4SYST        SYS CORE USED ON USER'S BEHALF
00032A 4E10 D1E0      001E0      428      CVD  R1,DECW            CONVERT TO DECIMAL
00032E D205 D175 BC1E 00175 00C4E 429      MVC  SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR SYS CORE
000334 DE05 D175 D1E5 00175 001E5 430      ED   SYSOUTLN+43(6),DECW+5 EDIT SYSTEM CORE
00033A 92D2 D17B      0017B      431      MVI  SYSOUTLN+49,KK      CONSTANT 'K'
432 *
433 * STEP STOP TIME (FROM SMF4 RECORD)
434 *
00033E D209 D17E B9C2 0017E 009F2 435      MVC  SYSOUTLN+52(10),KSTOPTIM CONSTANT FIELD LABEL
000344 BF1F A006      00006      436      ICM  R1,B'1111',SMF4TME  STEP TERMINATION TIME
000348 4120 B92A      0095A      437      LA   R2,KCLOCKM        MASK TO PRINT CLOCK TIME
00034C 4580 B8EE      0091E      438      BAL  R8,TIMEFORM       CONVERT TIME TO PRINTABLE
000350 D20A D18C D1FA 0018C 001FA 439      MVC  SYSOUTLN+66(11),TIMECHAR STOP TIME TO PRINT AREA
440 *
441 * SRB TIME HH:MM:SS.TT (FROM SMF4 RECORD)
442 *
000356 D208 D199 B9AD 00199 009DD 443      MVC  SYSOUTLN+79(9),KSRBTIM CONSTANT FIELD LABEL
00035C 1711      444      XR   R1,R1              CLEAR R2
00035E BF17 A063      00063      445      ICM  R1,B'0111',SMF4SRBT GET STEP SRB TIME
000362 4120 B937      00967      446      LA   R2,KPERIODM       MASK TO PRINT ELAPSED TIME
000366 4580 B8EE      0091E      447      BAL  R8,TIMEFORM       CONVERT TIME TO PRINTABLE
00036A D20A D1A6 D1FA 001A6 001FA 448      MVC  SYSOUTLN+92(11),TIMECHAR STEP SRB TIME TO PRINT AREA
449 *
450 * ALLOCATION TIME (ALLOCATION START TIME, FROM SMF4 RECORD)
451 *
000370 D20A D1B3 B9FB 001B3 00A2B 452      MVC  SYSOUTLN+105(11),KALLOCTI CONSTANT FIELD LABEL
000376 1711      453      XR   R1,R1              CLEAR R1 FOR TIME
000378 BF1F A05A      0005A      454      ICM  R1,B'1111',SMF4AST  GET SMF4 ALLOCATION START TIME
00037C 4120 B92A      0095A      455      LA   R2,KCLOCKM        MASK TO PRINT CLOCK TIME
000380 4580 B8EE      0091E      456      BAL  R8,TIMEFORM       CONVERT TIME TO PRINTABLE
000384 D20A D1C1 D1FA 001C1 001FA 457      MVC  SYSOUTLN+119(11),TIMECHAR START TIME TO PRINT AREA
458 *
459      WRSYSOUT ,            CALL IEFYS TO WRITE SYSOUT LINE
00038A D203 C024 D144 00024 00144 460+      MVC  36(4,R12),SYSOUT@   MOVE ADDR TO IEFYS COMM AREA
000390 D201 C02A D148 0002A 00148 461+      MVC  42(2,R12),SYSOUT#   MOVE LENGTH TO IEFYS COMM AREA

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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT  ASM 0201 16.30 02/08/22
000396 58F0 BBD8      00C08      462+          L    R15,=V(IEFYS)      LOAD IEFYS ENTRY ADDRESS
00039A 05EF                463+          BALR R14,R15          CALL IEFYS
                464 *
                465 * SYSOUT LINE #5
                466 *
                467          FILL  SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 5
00039C 9240 D14A      0014A      468+          MVI  SYSOUTLN,KSPACE      SET FILL BYTE
0003A0 D282 D14B D14A 0014B 0014A 469+          MVC  SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
0003A6 925C D14A      0014A      470          MVI  SYSOUTLN,KSTAR      ..
0003AA 925C D1CD      001CD      471          MVI  SYSOUTLN+131,KSTAR  ..
                472 *
                473 * PROGRAM NAME (FROM SMF4 RECORD)
                474 *
0003AE D20C D14D BA06 0014D 00A36 475          MVC  SYSOUTLN+3(13),KPGMNAME CONSTANT FIELD LABEL
0003B4 D207 D15C A03A 0015C 0003A 476          MVC  SYSOUTLN+18(8),SMF4PGMN PROGRAM NAME FROM SMF4 RECORD
0003BA D207 D113 A03A 00113 0003A 477          MVC  ACTRPGMN(8),SMF4PGMN  PROGRAM NAME TO CONSOLE MSG
                478 *
                479 * REGION SIZE (FROM SMF4 RECORD)
                480 *
0003C0 D20B D166 BA13 00166 00A43 481          MVC  SYSOUTLN+28(12),KRGNSIZE CONSTANT FIELD LABEL
0003C6 4820 A04A      0004A      482          LH   R2,SMF4RSH0        PRIVATE AREA SIZE
0003CA 4E20 D1E0      001E0      483          CVD  R2,DECW           CONVERT TO DECIMAL
0003CE D205 D175 BC1E 00175 00C4E 484          MVC  SYSOUTLN+43(6),=X'402020202120' EDIT MASK FOR REGION
0003D4 DE05 D175 D1E5 00175 001E5 485          ED  SYSOUTLN+43(6),DECW+5  EDIT REGION SIZE
0003DA 92D2 D17B      0017B      486          MVI  SYSOUTLN+49,KK      CONSTANT 'K'
0003DE 9101 A066      00066      487          TM  SMF4RIN,B'00000001'  V=R JOBSTEP?
0003E2 4780 B3BC      003EC      488          BZ  REGVRNO             NO
0003E6 D201 D173 BC24 00173 00C54 489          MVC  SYSOUTLN+41(2),=C'VR'  INDICATE V=R
                490 *
0003EC                491 REGVRNO  DS    0H
                492 *
                493 * ELAPSED TIME HH:MM:SS.TT (FROM SMF4 RECORD)
                494 *
0003EC D20C D17E B9E5 0017E 00A15 495          MVC  SYSOUTLN+52(13),KELAPSED CONSTANT FIELD LABEL
0003F2 D203 D1E4 A00A 001E4 0000A 496          MVC  DECW+4(4),SMF4DTE    STEP END DATE
0003F8 D200 A02F A00A 0002F 0000A 497          MVC  SMF4STID(1),SMF4DTE  COPY CENTURY BYTE TO START DATE
0003FE FB33 D1E4 A02F 001E4 0002F 498          SP  DECW+4(4),SMF4STID(4) MINUS STEP START DATE
000404 D703 D1E0 D1E0 001E0 001E0 499          XC  DECW(4),DECW        EQUALS NUMBER OF DAYS
00040A 4F10 D1E0      001E0      500          CVB  R1,DECW           CONVERT TO BINARY
00040E 1700                501          XR  R0,R0             CLEAR R0 FOR MULTIPLY
000410 5C00 BBE4      00C14      502          M   R0,=A(24*60*60*100)  TIMES 100THS OF SECONDS PER DAY
000414 BF3F A006      00006      503          ICM  R3,B'1111',SMF4TME  GET STEP END TIME
000418 1A13                504          AR  R1,R3             ADD TO DAYS ADJUST
00041A BF3F A02B      0002B      505          ICM  R3,B'1111',SMF4SIT  GET STEP START TIME
00041E 1B13                506          SR  R1,R3             SUBTRACT GIVING ELAPSED TIME
000420 4120 B937      00967      507          LA  R2,KPERIODM        MASK TO PRINT ELAPSED TIME
000424 4580 B8EE      0091E      508          BAL  R8,TIMEFORM       CONVERT TIME TO PRINTABLE
000428 D20A D18C D1FA 0018C 001FA 509          MVC  SYSOUTLN+66(11),TIMECHAR ELAPSED TIME TO PRINT AREA
00042E D20A D128 D1FA 00128 001FA 510          MVC  ACTRELAP(11),TIMECHAR ELAPSED TIME TO CONSOLE MSG
                511 *
                512 * TCB TIME (FROM PARAMETER FIELD)
                513 *
000434 D208 D199 B9F2 00199 00A22 514          MVC  SYSOUTLN+79(9),KTCBTIM CONSTANT FIELD LABEL
00043A 5820 D080      00080      515          L   R2,PLSETADR        GET ADDR OF STEP CPU TIME (TCB)
00043E 1711                516          XR  R1,R1             CLEAR R1

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                                ASM 0201 16.30 02/08/22
LOC  OBJECT CODE      ADDR1 ADDR2  STMT  SOURCE STATEMENT
000440 BF17 2000          00000      517      ICM  R1,B'0111',0(R2)      GET TCB TIME
000444 4120 B937          00967      518      LA   R2,KPERIODM        MASK TO PRINT ELAPSED TIME
000448 4580 B8EE          0091E      519      BAL  R8,TIMEFORM        CONVERT TIME TO PRINTABLE
00044C D20A D1A6 D1FA 001A6 001FA 520      MVC  SYSOUTLN+92(11),TIMECHAR STEP TCB TIME TO PRINT AREA
521 *
522 * PROGRAM LOAD TIME (FROM SMF4 RECORD)
523 *
000452 D20C D1B3 B9D8 001B3 00A08 524      MVC  SYSOUTLN+105(13),KPGLDTIM CONSTANT FIELD LABEL
000458 BF1F A05E          0005E      525      ICM  R1,B'1111',SMF4PPST GET PROBLEM PROGRAM START TIME
00045C 4120 B92A          0095A      526      LA   R2,KCLOCKM        MASK TO PRINT CLOCK TIME
000460 4580 B8EE          0091E      527      BAL  R8,TIMEFORM        CONVERT TIME TO PRINTABLE
000464 D20A D1C1 D1FA 001C1 001FA 528      MVC  SYSOUTLN+119(11),TIMECHAR STEP SRB TIME TO PRINT AREA
529 *
530      WRSYSOUT ,          CALL IEFYS TO WRITE SYSOUT LINE
00046A D203 C024 D144 00024 00144 531+     MVC  36(4,R12),SYSOUT@  MOVE ADDR TO IEFYS COMM AREA
000470 D201 C02A D148 0002A 00148 532+     MVC  42(2,R12),SYSOUT#  MOVE LENGTH TO IEFYS COMM AREA
000476 58F0 BBD8          00C08      533+     L    R15,=V(IEFYS)      LOAD IEFYS ENTRY ADDRESS
00047A 05EF              534+     BALR R14,R15            CALL IEFYS
535 *
536 * SYSOUT LINE #6
537 *
538      FILL  SYSOUTLN,KSPACE  INITIALIZE SYSOUT LINE 6
00047C 9240 D14A          0014A      539+     MVI  SYSOUTLN,KSPACE    SET FILL BYTE
000480 D282 D14B D14A 0014B 0014A 540+     MVC  SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
000486 925C D14A          0014A      541      MVI  SYSOUTLN,KSTAR     ..
00048A 925C D1CD          001CD      542      MVI  SYSOUTLN+131,KSTAR ..
543 *
544 * STEP COMPLETION CODE (FROM SMF4 RECORD)
545 *
00048E 9101 A057          00057      546      TM   SMF4STI,B'00000001' WAS STEP FLUSHED?
000492 4710 B49C          004CC      547      BO   CCNOEXEC           YES, GO HANDLE
000496 D20E D14D BA1F 0014D 00A4F 548      MVC  SYSOUTLN+3(15),KCONDCDE CONSTANT FIELD LABEL
00049C 9102 A057          00057      549      TM   SMF4STI,B'00000010' ABEND?
0004A0 4710 B4AC          004DC      550      BO   CCABEND            YES, GO HANDLE
0004A4 1711              551      XR   R1,R1              CLEAR R1
0004A6 BF13 A037          00037      552      ICM  R1,3,SMF4SCC       GET STEP CC
0004AA 5410 BBE8          00C18      553      N    R1,=X'00000FFF'    CLEAR UNUSED PORTION
0004AE 4E10 D1E0          001E0      554      CVD  R1,DECW            CONVERT TO DECIMAL
0004B2 F342 D1EC D1E5 001EC 001E5 555      UNPK UNPACKW(5),DECW+5(3) UNPACK
0004B8 96F0 D1F0          001F0      556      OI   UNPACKW+4,X'F0'    CORRECT SIGN FOR PRINT
0004BC D204 D15F D1EC 0015F 001EC 557      MVC  SYSOUTLN+21(5),UNPACKW MOVE TO PRINT
0004C2 D204 D134 D1EC 00134 001EC 558      MVC  ACTRSCC(5),UNPACKW  AND CONSOLE MSG
0004C8 47F0 B508          00538      559      B    CCDONE             CONTINUE WITH NEXT FIELD
560 *
0004CC              561 CCNOEXEC DS 0H
0004CC D212 D14D BA2E 0014D 00A5E 562      MVC  SYSOUTLN+3(19),KFLUSHED INDICATE STEP NOT RUN
0004D2 D204 D134 BC3C 00134 00C6C 563      MVC  ACTRSCC(5),=C'NOXEC' AND ON CONSOLE MSG
0004D8 47F0 B522          00552      564      B    LN6DONE            LINE COMPLETE, GO PRINT
565 *
0004DC              566 CCABEND DS 0H
0004DC 9180 A037          00037      567      TM   SMF4SCC,X'80'      USER ABEND?
0004E0 4710 B4DC          0050C      568      BO   CCUSERAB           YES, GO HANDLE
0004E4 D201 D15F BC26 0015F 00C56 569      MVC  SYSOUTLN+21(2),=C'S-' INDICATE SYSTEM ABEND CODE
0004EA D201 D134 BC26 00134 00C56 570      MVC  ACTRSCC(2),=C'S-'  AND ON CONSOLE MSG
0004F0 F332 D1E0 A037 001E0 00037 571      UNPK DECW(4),SMF4SCC(3) UNPACK

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 16.30 02/08/22	
0004F6	DC03	D1E0	BA6C	001E0	00A9C	572	TR	DECW(4),HEXTRANS-X'F0'	TRANSLATE TO PRINTABLE
0004FC	D202	D161	D1E0	00161	001E0	573	MVC	SYSOUTLN+23(3),DECW	MOVE TO PRINT
000502	D202	D136	D1E0	00136	001E0	574	MVC	ACTRSCC+2(3),DECW	AND CONSOLE MSG
000508	47F0	B508		00538		575	B	CCDONE	CONTINUE WITH NEXT FIELD
						576	*		
00050C						577	CCUSERAB DS	0H	
00050C	92E4	D15F		0015F		578	MVI	SYSOUTLN+21,C'U'	INDICATE USER ABEND CODE
000510	92E4	D134		00134		579	MVI	ACTRSCC,C'U'	AND ON CONSOLE MSG
000514	1711					580	XR	R1,R1	CLEAR R1
000516	BF13	A037		00037		581	ICM	R1,3,SMF4SCC	GET STEP CC
00051A	5410	BBE8		00C18		582	N	R1,=X'00000FFF'	CLEAR UNUSED PORTION
00051E	4E10	D1E0		001E0		583	CVD	R1,DECW	CONVERT TO DECIMAL
000522	F342	D1EC	D1E5	001EC	001E5	584	UNPK	UNPACKW(5),DECW+5(3)	UNPACK
000528	96F0	D1F0		001F0		585	OI	UNPACKW+4,X'F0'	CORRECT SIGN FOR PRINT
00052C	D203	D160	D1ED	00160	001ED	586	MVC	SYSOUTLN+22(4),UNPACKW+1	MOVE TO PRINT
000532	D203	D135	D1ED	00135	001ED	587	MVC	ACTRSCC+1(4),UNPACKW+1	AND CONSOLE MSG
						588	*		
000538						589	CCDONE DS	0H	
						590	*		
						591	* PERFORMANCE GROUP NUMBER (FROM SMF4 RECORD)		
						592	*		
000538	D211	D166	BA41	00166	00A71	593	MVC	SYSOUTLN+28(18),KPFMGRP	CONSTANT FIELD LABEL
00053E	1711					594	XR	R1,R1	CLEAR R1
000540	BF13	D229		00229		595	ICM	R1,B'0011',REL4PGNO	GET PERFORMANCE GROUP NUMBER
000544	4E10	D1E0		001E0		596	CVD	R1,DECW	CONVERT TO DECIMAL
000548	F321	D179	D1E6	00179	001E6	597	UNPK	SYSOUTLN+47(3),DECW+6(2)	
00054E	96F0	D17B		0017B		598	OI	SYSOUTLN+49,X'F0'	
						599	*		
000552						600	LN6DONE DS	0H	
						601	WRSYSOUT ,		CALL IEFYS TO WRITE SYSOUT LINE
000552	D203	C024	D144	00024	00144	602+	MVC	36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA
000558	D201	C02A	D148	0002A	00148	603+	MVC	42(2,R12),SYSOUT#	MOVE LENGTH TO IEFYS COMM AREA
00055E	58F0	BBD8		00C08		604+	L	R15,=V(IEFYS)	LOAD IEFYS ENTRY ADDRESS
000562	05EF					605+	BALR	R14,R15	CALL IEFYS
						606	*		
						607	* SYSOUT LINE #7		
						608	*		
						609	FILL	SYSOUTLN,KSPACE	INITIALIZE SYSOUT LINE 7
000564	9240	D14A		0014A		610+	MVI	SYSOUTLN,KSPACE	SET FILL BYTE
000568	D282	D14B	D14A	0014B	0014A	611+	MVC	SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN	FILL FIELD
00056E	925C	D14A		0014A		612	MVI	SYSOUTLN,KSTAR	..
000572	925C	D1CD		001CD		613	MVI	SYSOUTLN+131,KSTAR	..
000576	D225	D183	BA5E	00183	00A8E	614	MVC	SYSOUTLN+57(38),KSUHEADL	..
00057C	D222	D1A9	BA84	001A9	00AB4	615	MVC	SYSOUTLN+95(35),KSUHEADR	..
						616	*		
						617	* JES2 CARD IMAGES READ (FROM SMF4 RECORD)		
						618	*		
000582	D20A	D166	BA53	00166	00A83	619	MVC	SYSOUTLN+28(11),KJES2NCI	CONSTANT FIELD LABEL
000588	1711					620	XR	R1,R1	CLEAR R1
00058A	BF1F	A033		00033		621	ICM	R1,B'1111',SMF4NCI	GET JES2 CARD IMAGES READ
00058E	4E10	D1E0		001E0		622	CVD	R1,DECW	CONVERT TO DECIMAL
000592	D20A	D171	BC41	00171	00C71	623	MVC	SYSOUTLN+39(11),=X'4020206B2020206B202120'	EDIT MASK
000598	DE0A	D171	D1E3	00171	001E3	624	ED	SYSOUTLN+39(11),DECW+3	EDIT FOR PRINT
						625	*		
						626	WRSYSOUT ,		CALL IEFYS TO WRITE SYSOUT LINE

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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT
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00059E D203 C024 D144 00024 00144 627+      MVC 36(4,R12),SYSOUT@      MOVE ADDR TO IEFYS COMM AREA
0005A4 D201 C02A D148 0002A 00148 628+      MVC 42(2,R12),SYSOUT#     MOVE LENGTH TO IEFYS COMM AREA
0005AA 58F0 BBD8      00C08 629+      L   R15,=V(IEFYS)        LOAD IEFYS ENTRY ADDRESS
0005AE 05EF          630+      BALR R14,R15             CALL IEFYS
631 *
632 * SYSOUT LINE #8
633 *
634          FILL SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 8
0005B0 9240 D14A      0014A 635+      MVI SYSOUTLN,KSPACE      SET FILL BYTE
0005B4 D282 D14B D14A 0014B 0014A 636+      MVC SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
0005BA 925C D14A      0014A 637          MVI SYSOUTLN,KSTAR      ..
0005BE 925C D1CD      001CD 638          MVI SYSOUTLN+131,KSTAR  ..
639 *
640 * SERVICE UNITS (FROM SMF4 RECORD)
641 *
0005C2 BF1F D221      00221 642          ICM R1,B'1111',REL4SST   GET # SERVICE UNITS USED BY STEP
0005C6 4E10 D1E0      001E0 643          CVD R1,DECW             CONVERT TO DECIMAL
0005CA D20B D184 BBEC 00184 00C1C 644          MVC SYSOUTLN+58(12),=X'402020206B2020206B202120' MASK
0005D0 DE0B D184 D1E3 00184 001E3 645          ED SYSOUTLN+58(12),DECW+3 EDIT TO PRINT
646 *
647 * NUMBER OF PAGE-INS (FROM SMF4 RECORD)
648 *
0005D6 BF1F D205      00205 649          ICM R1,B'1111',REL4PGIN  GET # OF PAGE-INS
0005DA 4E10 D1E0      001E0 650          CVD R1,DECW             CONVERT TO DECIMAL
0005DE D204 D192 BC4C 00192 00C7C 651          MVC SYSOUTLN+72(5),=X'4020202120' MASK
0005E4 DE04 D192 D1E5 00192 001E5 652          ED SYSOUTLN+72(5),DECW+5 EDIT TO PRINT
0005EA 9261 D198      00198 653          MVI SYSOUTLN+78,KSLASH   CONSTANT FIELD SEPARATOR
654 *
655 * NUMBER OF PAGE-OUTS (FROM SMF4 RECORD)
656 *
0005EE BF1F D209      00209 657          ICM R1,B'1111',REL4PGOT  GET # OF PAGE-OUTS
0005F2 4E10 D1E0      001E0 658          CVD R1,DECW             CONVERT TO DECIMAL
0005F6 D204 D199 BC4C 00199 00C7C 659          MVC SYSOUTLN+79(5),=X'4020202120' MASK
0005FC DE04 D199 D1E5 00199 001E5 660          ED SYSOUTLN+79(5),DECW+5 EDIT TO PRINT
661 *
662 * NUMBER OF TIMES SWAPPED (FROM SMF4 RECORD)
663 *
000602 BF1F D20D      0020D 664          ICM R1,B'1111',REL4NSW   GET # TIMES SWAPPED
000606 4E10 D1E0      001E0 665          CVD R1,DECW             CONVERT TO DECIMAL
00060A D204 D1A2 BC4C 001A2 00C7C 666          MVC SYSOUTLN+88(5),=X'4020202120' MASK
000610 DE04 D1A2 D1E5 001A2 001E5 667          ED SYSOUTLN+88(5),DECW+5 EDIT TO PRINT
668 *
669 * NUMBER OF PAGES SWAPPED IN (FROM SMF4 RECORD)
670 *
000616 BF1F D211      00211 671          ICM R1,B'1111',REL4PSI   GET # OF PAGES SWAPPED IN
00061A 4E10 D1E0      001E0 672          CVD R1,DECW             CONVERT TO DECIMAL
00061E D204 D1AE BC4C 001AE 00C7C 673          MVC SYSOUTLN+100(5),=X'4020202120' MASK
000624 DE04 D1AE D1E5 001AE 001E5 674          ED SYSOUTLN+100(5),DECW+5 EDIT TO PRINT
00062A 9261 D1B4      001B4 675          MVI SYSOUTLN+106,KSLASH  CONSTANT FIELD SEPARATOR
676 *
677 * NUMBER OF PAGES SWAPPED OUT (FROM SMF4 RECORD)
678 *
00062E BF1F D215      00215 679          ICM R1,B'1111',REL4PSO   GET # OF PAGES SWAPPED OUT
000632 4E10 D1E0      001E0 680          CVD R1,DECW             CONVERT TO DECIMAL
000636 D204 D1B5 BC4C 001B5 00C7C 681          MVC SYSOUTLN+107(5),=X'4020202120' MASK

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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT  ASM 0201 16.30 02/08/22
00063C DE04 D1B5 D1E5 001B5 001E5  682      ED      SYSOUTLN+107(5),DECW+5  EDIT TO PRINT
      683 *
      684 * NUMBER OF VIO PAGES SWAPPED IN (FROM SMF4 RECORD)
      685 *
000642 BF1F D219      00219  686      ICM     R1,B'1111',REL4VPI      GET # VIO PAGES SWAPPED IN
000646 4E10 D1E0      001E0  687      CVD     R1,DECW              CONVERT TO DECIMAL
00064A D204 D1C0 BC4C 001C0 00C7C  688      MVC     SYSOUTLN+118(5),=X'4020202120' MASK
000650 DE04 D1C0 D1E5 001C0 001E5  689      ED      SYSOUTLN+118(5),DECW+5  EDIT TO PRINT
000656 9261 D1C6      001C6  690      MVI     SYSOUTLN+124,KSLASH  CONSTANT FIELD SEPARATOR
      691 *
      692 * NUMBER OF VIO PAGES SWAPPED OUT (FROM SMF4 RECORD)
      693 *
00065A BF1F D21D      0021D  694      ICM     R1,B'1111',REL4VPO      GET # VIO PAGES SWAPPED OUT
00065E 4E10 D1E0      001E0  695      CVD     R1,DECW              CONVERT TO DECIMAL
000662 D204 D1C7 BC4C 001C7 00C7C  696      MVC     SYSOUTLN+125(5),=X'4020202120' MASK
000668 DE04 D1C7 D1E5 001C7 001E5  697      ED      SYSOUTLN+125(5),DECW+5  EDIT TO PRINT
      698 *
      699      WRSYSOUT ,              CALL IEFYS TO WRITE SYSOUT LINE
00066E D203 C024 D144 00024 00144  700+     MVC     36(4,R12),SYSOUT@      MOVE ADDR TO IEFYS COMM AREA
000674 D201 C02A D148 0002A 00148  701+     MVC     42(2,R12),SYSOUT#      MOVE LENGTH TO IEFYS COMM AREA
00067A 58F0 BBD8      00C08  702+     L       R15,=V(IEFYS)          LOAD IEFYS ENTRY ADDRESS
00067E 05EF      703+     BALR   R14,R15                CALL IEFYS
      704 *
      705 * SYSOUT LINE #9 (JUST A SEPARATOR LINE)
      706 *
      707      FILL   SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 9
000680 9240 D14A      0014A  708+     MVI     SYSOUTLN,KSPACE        SET FILL BYTE
000684 D282 D14B D14A 0014B 0014A  709+     MVC     SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
00068A 925C D14A      0014A  710      MVI     SYSOUTLN,KSTAR          ..
00068E 925C D1CD      001CD  711      MVI     SYSOUTLN+131,KSTAR      ..
      712 *
      713      WRSYSOUT ,              CALL IEFYS TO WRITE SYSOUT LINE
000692 D203 C024 D144 00024 00144  714+     MVC     36(4,R12),SYSOUT@      MOVE ADDR TO IEFYS COMM AREA
000698 D201 C02A D148 0002A 00148  715+     MVC     42(2,R12),SYSOUT#      MOVE LENGTH TO IEFYS COMM AREA
00069E 58F0 BBD8      00C08  716+     L       R15,=V(IEFYS)          LOAD IEFYS ENTRY ADDRESS
0006A2 05EF      717+     BALR   R14,R15                CALL IEFYS
      718 *
      719 * SYSOUT LINE #10 (HEADING FOR I/O COUNTS FOR DEVICES)
      720 *
0006A4 4850 A06A      0006A  721      LH      R5,SMF4LENN            GET DEVICE ENTRY PORTION LENGTH
0006A8 4B50 BC28      00C58  722      SH      R5,=H'2'              MINUS 2 FOR LENGTH FIELD
0006AC 8850 0003      00003  723      SRL     R5,3                   DIVIDED BY 8
0006B0 1255      724      LTR     R5,R5                   EQUALS NUMBER OF DEVICE ENTRIES
0006B2 4780 B832      00862  725      BZ      CLOSEBOX              IF ZERO - SKIP WRITING SECTION
0006B6 4160 A06C      0006C  726      LA      R6,SMF4LENN+2          ADDRESS OF FIRST DEVICE ENTRY
      727      FILL   SYSOUTLN,KSPACE      INITIALIZE SYSOUT LINE 10
0006BA 9240 D14A      0014A  728+     MVI     SYSOUTLN,KSPACE        SET FILL BYTE
0006BE D282 D14B D14A 0014B 0014A  729+     MVC     SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
0006C4 925C D14A      0014A  730      MVI     SYSOUTLN,KSTAR          ..
0006C8 925C D1CD      001CD  731      MVI     SYSOUTLN+131,KSTAR      ..
0006CC D212 D14E BAA7 0014E 00AD7  732      MVC     SYSOUTLN+4(19),KSEXCPHD ..
0006D2 D212 D163 BAA7 00163 00AD7  733      MVC     SYSOUTLN+25(19),KSEXCPHD ..
0006D8 D212 D178 BAA7 00178 00AD7  734      MVC     SYSOUTLN+46(19),KSEXCPHD ..
0006DE D212 D18D BAA7 0018D 00AD7  735      MVC     SYSOUTLN+67(19),KSEXCPHD ..
0006E4 D212 D1A2 BAA7 001A2 00AD7  736      MVC     SYSOUTLN+88(19),KSEXCPHD ..

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ASM 0201 16.30 02/08/22
LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT
0006EA D212 D1B7 BAA7 001B7 00AD7  737      MVC  SYSOUTLN+109(19),KSEXCPHD  ..
0006F0 1733 738      XR   R3,R3  CLEAR R3 (OFFSET ON LINE)
739 *
740      WRSYSOUT ,  CALL IEFYS TO WRITE SYSOUT LINE
0006F2 D203 C024 D144 00024 00144  741+     MVC  36(4,R12),SYSOUT@  MOVE ADDR TO IEFYS COMM AREA
0006F8 D201 C02A D148 0002A 00148  742+     MVC  42(2,R12),SYSOUT#  MOVE LENGTH TO IEFYS COMM AREA
0006FE 58F0 BBD8 00C08 743+     L    R15,=V(IEFYS)  LOAD IEFYS ENTRY ADDRESS
000702 05EF 744+     BALR R14,R15  CALL IEFYS
745 *
746 *  SYSOUT LINE #11-?? (EXCP I/O COUNTS FOR DEVICES)
747 *
748      FILL  SYSOUTLN,KSPACE  INITIALIZE SYSOUT LINE 10
000704 9240 D14A 0014A 749+     MVI  SYSOUTLN,KSPACE  SET FILL BYTE
000708 D282 D14B D14A 0014B 0014A  750+     MVC  SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN FILL FIELD
00070E 925C D14A 0014A 751      MVI  SYSOUTLN,KSTAR  ..
000712 925C D1CD 001CD 752      MVI  SYSOUTLN+131,KSTAR  ..
753 *
754 *  LOOP THROUGH ALL SMF4 DEVICE ENTRIES
755 *
000716 756 NEXTDEVC DS  0H
000716 D214 D230 BABA 00230 00AEA  757      MVC  EXCPBLOK,KEXCP  INITIALIZE OUTPUT FORMAT AREA
00071C D201 D1E5 6002 001E5 00002  758      MVC  DECW+5(2),2(R6)  GET UNIT ADDRESS
000722 920C D1E7 001E7 759      MVI  DECW+7,X'0C'  APPEND JUNK CHARACTER FO UNPK
000726 F342 D1EC D1E5 001EC 001E5  760      UNPK UNPACKW(5),DECW+5(3)  UNPACK ADDRESS
00072C DC03 D1EC BA6C 001EC 00A9C  761      TR   UNPACKW(4),HEXTRANS-C'0'  TRANSLATE X'F1-FF' TO C'A-F'
000732 D502 D1ED BC51 001ED 00C81  762      CLC  UNPACKW+1(3),=C'000'  IS ADDRESS ZERO?
000738 4770 B71A 0074A 763      BNE  ISITVIO  NO, GO CHECK FOR VIO
00073C 5806 0004 00004 764      L    R0,4(R6)  GET EXCP COUNT FOR DEVICE
000740 1200 765      LTR  R0,R0  IS IT ZERO?
000742 4780 B7E0 00810 766      BE   EXCPNEXT  YES, DON'T PRINT ANYTHING
000746 47F0 B786 007B6 767      B    CONVEXCP  PRINT COUNT FOR DUMMY DEVICE
768 *
00074A 769 ISITVIO DS  0H
00074A D202 D230 D1ED 00230 001ED  770      MVC  EXCPADDR,UNPACKW+1  MOVE ADDRESS TO FORMAT AREA
000750 D502 D1ED BC54 001ED 00C84  771      CLC  UNPACKW+1(3),=C'FFF'  DOES ADDRESS INDICATE VIO?
000756 4770 B738 00768 772      BNE  DEVCNAME  NO, GO DETERMINE DEVICE
00075A 92C4 D234 00234 773      MVI  EXCPDEVC,C'D'  INDICATE CLASS IS DISK
00075E D203 D235 BBF8 00235 00C28  774      MVC  EXCPDEVN,=C' VIO'  AND NAME IS VIO
000764 47F0 B786 007B6 775      B    CONVEXCP  AND REPORT COUNT
776 *
000768 777 DEVCNAME DS  0H
000768 9240 D234 00234 778      MVI  EXCPDEVC,C' '  DEFAULT DEVICE CLASS
00076C D203 D235 BBFC 00235 00C2C  779      MVC  EXCPDEVN,=C'MISC'  AND NAME OF MISC
000772 9520 6000 00000 780      CLI  0(R6),X'20'  IS IT A DASD DEVICE?
000776 4780 B76E 0079E 781      BE   DASDDEVC  YES, GO PROCESS
00077A 9580 6000 00000 782      CLI  0(R6),X'80'  IS IT A TAPE DEVICE?
00077E 4770 B786 007B6 783      BNE  CONVEXCP  NO, GO REPORT COUNT AS MISC
784 *
000782 92E3 D234 00234 785 TAPEDEVC MVI  EXCPDEVC,C'T'  INDICATE TAPE DEVICE CLASS
000786 1711 786      XR   R1,R1  CLEAR R1
000788 4316 0001 00001 787      IC   R1,1(R6)  GET DEVICE TYPE
00078C 4311 BBB4 00BE4 788      IC   R1,TAPEOFST(R1)  GET OFFSET TO TAPE DEVICE NAME
000790 4111 BBB8 00BE8 789      LA   R1,TAPETABL(R1)  GET ADDRESS OF TAPE DEVICE NAME
000794 D203 D235 1000 00235 00000  790      MVC  EXCPDEVN,0(R1)  MOVE DEVICE NAME TO FORMAT AREA
00079A 47F0 B786 007B6 791      B    CONVEXCP

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				792 *		
00079E	92C4 D234	00234		793	DASDDEV C MVI EXCPDEV C,'D'	INDICATE DASD DEVICE CLASS
0007A2	1711			794	XR R1,R1	CLEAR R1
0007A4	4316 0001	00001		795	IC R1,1(R6)	GET DEVICE TYPE
0007A8	4311 BB6C	00B9C		796	IC R1,DASDOFST(R1)	GET OFFSET TO DASD DEVICE NAME
0007AC	4111 BB80	00BB0		797	LA R1,DASDTABL(R1)	GET ADDRESS OF DEVICE NAME
0007B0	D203 D235 1000	00235 00000		798	MVC EXCPDEV N,0(R1)	MOVE DEVICE NAME TO FORMAT AREA
				799 *		
0007B6	5806 0004	00004		800	CONVEXCP L R0,4(R6)	EXCP COUNT
0007BA	4E00 D1E0	001E0		801	CVD R0,DECW	CONVERT TO PACKED
0007BE	D209 D239 BC2A	00239 00C5A		802	MVC EXCPCNT,=X'402020202020202020202120'	SET UP EDIT MASK
0007C4	DE09 D239 D1E3	00239 001E3		803	ED EXCPCNT,DECW+3	EDIT TO FORMAT AREA
				804 *		
0007CA	1700			805	XR R0,R0	CLEAR R0 FOR MULTIPLY
0007CC	1813			806	LR R1,R3	GET THIS ENTRY NUMBER ON LINE
0007CE	5C00 BC00	00C30		807	M R0,=F'21'	MULTIPLY BY LENGTH OF ENTRY
0007D2	4120 D14E	0014E		808	LA R2,SYSOUTLN+4	ADDRESS OF FIRST ENTRY
0007D6	1A21			809	AR R2,R1	OFFSET TO THIS ENTRY
0007D8	D214 2000 D230	00000 00230		810	MVC 0(21,R2),EXCPBLOK	MOVE ENTRY TO SYSOUT BUFFER
0007DE	4130 3001	00001		811	LA R3,1(,R3)	INCREMENT ENTRY COUNT
0007E2	5930 BC04	00C34		812	C R3,=F'6'	IS THIS 6TH ENTRY ON LINE
0007E6	4740 B7E0	00810		813	BL EXCPNEXT	NO, CONTINUE
				814 *		
				815	WRSYSOUT ,	CALL IEFYS TO WRITE SYSOUT LINE
0007EA	D203 C024 D144	00024 00144		816+	MVC 36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA
0007F0	D201 C02A D148	0002A 00148		817+	MVC 42(2,R12),SYSOUT#	MOVE LENGTH TO IEFYS COMM AREA
0007F6	58F0 BBD8	00C08		818+	L R15,=V(IEFYS)	LOAD IEFYS ENTRY ADDRESS
0007FA	05EF			819+	BALR R14,R15	CALL IEFYS
				820	FILL SYSOUTLN,KSPACE	RE-INITIALIZE SYSOUT LINE
0007FC	9240 D14A	0014A		821+	MVI SYSOUTLN,KSPACE	SET FILL BYTE
000800	D282 D14B D14A	0014B 0014A		822+	MVC SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN	FILL FIELD
000806	925C D14A	0014A		823	MVI SYSOUTLN,KSTAR	..
00080A	925C D1CD	001CD		824	MVI SYSOUTLN+131,KSTAR	..
00080E	1733			825	XR R3,R3	CLEAR R3 (OFFSET ON LINE)
				826 *		
000810				827	EXCPNEXT DS 0H	
000810	4166 0008	00008		828	LA R6,8(R6)	BUMP TO NEXT SMF4 DEVICE ENTRY
000814	4650 B6E6	00716		829	BCT R5,NEXTDEV C	GO AGAIN IF MORE DEVICES
				830 *		
000818	1233			831	LTR R3,R3	ARE THERE ENTRIES IN BUFFER?
00081A	4780 B800	00830		832	BZ EXCPERRS	NO, GO CHECK FOR EXCEPTION
				833	WRSYSOUT ,	CALL IEFYS TO WRITE SYSOUT LINE
00081E	D203 C024 D144	00024 00144		834+	MVC 36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA
000824	D201 C02A D148	0002A 00148		835+	MVC 42(2,R12),SYSOUT#	MOVE LENGTH TO IEFYS COMM AREA
00082A	58F0 BBD8	00C08		836+	L R15,=V(IEFYS)	LOAD IEFYS ENTRY ADDRESS
00082E	05EF			837+	BALR R14,R15	CALL IEFYS
				838 *		
000830				839	EXCPERRS DS 0H	
000830	9102 A066	00066		840	TM SMF4RIN,X'02'	WERE THER EXCP COUNT ERRORS?
000834	4780 B832	00862		841	BZ CLOSEBOX	NO - SKIP WARNING LINE
				842	FILL SYSOUTLN,KSPACE	RE-INITIALIZE SYSOUT LINE
000838	9240 D14A	0014A		843+	MVI SYSOUTLN,KSPACE	SET FILL BYTE
00083C	D282 D14B D14A	0014B 0014A		844+	MVC SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN	FILL FIELD
000842	925C D14A	0014A		845	MVI SYSOUTLN,KSTAR	..
000846	925C D1CD	001CD		846	MVI SYSOUTLN+131,KSTAR	..

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
00084A	D229 D168 BACF	00168	00AFF	847	MVC SYSOUTLN+30(42),KWARN	WARNING MESSAGE TO SYSOUT LINE
				848	WRSYSOUT ,	CALL IEFYS TO WRITE SYSOUT LINE
000850	D203 C024 D144	00024	00144	849+	MVC 36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA
000856	D201 C02A D148	0002A	00148	850+	MVC 42(2,R12),SYSOUT#	MOVE LENGTH TO IEFYS COMM AREA
00085C	58F0 BBD8	00C08		851+	L R15,=V(IEFYS)	LOAD IEFYS ENTRY ADDRESS
000860	05EF			852+	BALR R14,R15	CALL IEFYS
				853 *		
000862				854	CLOSEBOX DS 0H	
				855 *		
				856 *	FINAL SYSOUT LINE (ALL ASTERISKS)	
				857 *		
				858	FILL SYSOUTLN,KSTAR	INITIALIZE FINAL SYSOUT LINE
000862	925C D14A	0014A		859+	MVI SYSOUTLN,KSTAR	SET FILL BYTE
000866	D282 D14B D14A	0014B	0014A	860+	MVC SYSOUTLN+1(L'SYSOUTLN-1),SYSOUTLN	FILL FIELD
				861 *		
				862	WRSYSOUT ,	CALL IEFYS TO WRITE SYSOUT LINE
00086C	D203 C024 D144	00024	00144	863+	MVC 36(4,R12),SYSOUT@	MOVE ADDR TO IEFYS COMM AREA
000872	D201 C02A D148	0002A	00148	864+	MVC 42(2,R12),SYSOUT#	MOVE LENGTH TO IEFYS COMM AREA
000878	58F0 BBD8	00C08		865+	L R15,=V(IEFYS)	LOAD IEFYS ENTRY ADDRESS
00087C	05EF			866+	BALR R14,R15	CALL IEFYS
				867 *		
				868 *	WRITE IEFACTRT MESSAGE TO CONSOLE	
				869 *		
				870	STEPWTO ,	WRITE MESSAGE TO CONSOLE
00087E	D248 D0B8 BB00	000B8	00B30	871+	MVC WTOBUF,WTODEF	MOVE LIST MACRO TO DYN. STORAGE
000884	D240 D0BC D101	000BC	00101	872+	MVC WTOBUF+4(WTOMSGL),ACTRMSG	COPY STANDARD MESSAGE TEXT
00088A	4110 D0B8	000B8		873+	LA R1,WTOBUF	POINT TO LIST MACRO
00088E	0A23			874+	SVC 35	ISSUE SVC 01500002
				875 *		
				876	*****	
				877 *	EXIT BACK TO SYSTEM	*
				878	*****	
000890				879	GOBACK DS 0H	
				880	ESTAE 0	CANCEL ESTAE EXIT
				881+*	MACDATE Y-1 75302	00160004
000890				882+	DS 0H	06800000
000890	4100 0084	00084		883+	LA 0,132(0,0)	INDICATE CANCEL OPTION 06850004
000894	0A3C			884+	SVC 60	ISSUE STAE SVC 09500004
000896				885	RTRYRTN2 DS 0H	ESTAE RETRY ROUTINE WITH SDWA
				886 *		JUST FREE STORAGE AND EXIT
000896	583D 0004	00004		887	L R3,4(R13)	RETRIEVE SYSTEM SAVE AREA ADDR
00089A	5800 BAFD	00B2C		888	L R0,WALNGTH	LOAD FREEMAIN INFORMATION
00089E	181D			889	LR R1,R13	LOAD ADDRESS OF WORKAREA MEMORY
				890	FREEMAIN R,LV=(0),A=(1)	FREE ACQUIRED MEMORY
				891+*	OS/VS2 RELEASE 3 VERSION -- 10/25/74	00001603
0008A0	4110 1000	00000		892+	LA 1,0(0,1)	CLEAR HI ORDER BYTE 00150802
0008A4	0A0A			893+	SVC 10	ISSUE FREEMAIN SVC 00311202
0008A6	18D3			894	LR R13,R3	RESTORE CALLER'S SAVE AREA
0008A8				895	QUIKEXIT DS 0H	
0008A8	98EC D00C	0000C		896	LM R14,R12,12(R13)	RESTORE CALLER'S REGISTERS
0008AC	07FE			897	BR R14	RETURN TO SYSTEM
				898	*****	
				899 *		*
				900 *	ESTAE EXIT ROUTINE	*
				901 *		*

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				902	*****	
0008AE				903	RECOVERY DS 0H	
			008AE	904	USING *,R15	SET UP ADDRESSABILITY
0008AE	4140 0004	00004		905	LA R4,4	PUT 4 IN REGISTER FOR COMPARE
0008B2	1904			906	CR R0,R4	IS SDWA PRESENT?
0008B4	4770 F014	008C2		907	BNE HAVESDWA	YES, BR TO PROCESS WITH SDWA
0008B8	5802 0000	00000		908	L R0,0(R2)	LOAD RETRY ADDR FROM PARM LIST
0008BC	41F0 0004	00004		909	LA R15,4	SET RETCODE TO RETRY ADDR IN R0
0008C0	07FE			910	BR R14	RETURN WITH RETRY ADDR
0008C2				911	HAVESDWA DS 0H	ENTER HERE IF SDWA PRESENT
0008C2	50ED 000C	0000C		912	ST R14,12(R13)	SAVE RETURN ADDRESS
0008C6	5821 0000	00000		913	L R2,0(R1)	LOAD PARM LIST ADDR FROM SDWA
0008CA	5822 0004	00004		914	L R2,4(R2)	LOAD RETRY ADDRESS
				915	SETRP RC=4,,RETADDR=(2),RETREGS=YES,FRESDDWA=YES,REGS=(14)	
0008CE	9204 10FC	000FC		916+	MVI SDWARCDE-SDWA(1),4	. INITIALIZE RC FIELD 01350002
0008D2	5020 10F0	000F0		917+	ST 2,SDWARTYA-SDWA(,1)	STORE RETRY ADDR IN SDWA 01600002
0008D6	9604 10FD	000FD		918+	OI SDWAACF2-SDWA(1),SDWAFREE	TURN ON FREE SDWA 01630002
0008DA	9608 10FD	000FD		919+	OI SDWAACF2-SDWA(1),SDWAUPRG	TURN ON RETREGS INDICATOR 04600002
0008DE	58ED 000C	0000C		920+	L 14,12(13,0)	RESTORE REGISTER 01450000
0008E2	07FE			921+	BR 14	RETURN 02000000
				922	DROP R15	
				923	*****	
				924	*	*
				925	* ESTAE RETRY ROUTINE WHEN NO SDWA WAS PRESENT	*
				926	*	*
				927	*****	
0008E4				928	RTRYRTN1 DS 0H	ROUTINE WITH NO SDWA PRESENT
0008E4	98BD 1008	00008		929	LM R11,R13,8(R1)	LOAD REGS FOR ESTAE PARM LIST
0008E8	47F0 B866	00896		930	B RTRYRTN2	AND GET OUT
				931	*****	
				932	* CONVERT JULIAN DATE IN 4 CHARACTER PACKED FIELD (0YYDDDS) PLACED IN *	*
				933	* DATEPACK TO VALID Y2K FORMAT (YYYYDDDS); UNPACKED VERSION WILL BE *	*
				934	* AVAILABLE IN DATECHAR.	*
				935	*****	
0008EC				936	DATEFORM DS 0H	
0008EC	F363 D1D2 D1CE 001D2 001CE			937	UNPK DATECHAR(7),DATEPACK	UNPACK 4 BYTE JULIAN DATE
0008F2	96F0 D1D8 001D8			938	OI DATECHAR+6,X'F0'	CORRECT SIGN FIELD
0008F6	D501 D1D2 BC34 001D2 00C64			939	CLC DATECHAR(2),=C'00'	SMF DATE (00YYDDD)?
0008FC	4770 B8D6 00906			940	BNE DATEFO01	BRANCH IF NOT
000900	D201 D1D2 BC36 001D2 00C66			941	MVC DATECHAR(2),=C'19'	CHANGE YEAR TO 1900
000906	D501 D1D2 BC38 001D2 00C68			942	DATEFO01 CLC DATECHAR(2),=C'01'	SMF DATE (01YYDDD)?
00090C	4770 B8E6 00916			943	BNE DATEFO02	BRANCH IF NOT
000910	D201 D1D2 BC3A 001D2 00C6A			944	MVC DATECHAR(2),=C'20'	CHANGE YEAR TO 2000
000916	F236 D1CE D1D2 001CE 001D2			945	DATEFO02 PACK DATEPACK,DATECHAR(7)	REPACK MODIFIED DATE
00091C	07F8			946	BR R8	RETURN

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				948	*****	
				949	* CONVERT TIME IN 100THS OF SECONDS (IN R1) TO A PRINTABLE	*
				950	* FIELD IN THE FORMAT: HH.MM.SS.HH (WILL BE IN TIMECHAR)	*
				951	*****	
00091E				952	TIMEFORM DS 0H	
00091E	1700			953	XR R0,R0	CLEAR R0 FOR DIVISION
000920	5D00 BC08	00C38		954	D R0,=A(60*60*100)	COMPUTE HOURS IN R1
000924	1871			955	LR R7,R1	SAVE MINUTES
000926	8C00 0020	00020		956	SRDL R0,32	REMAINDER TO R1 (CLEAR R0)
00092A	5D00 BC0C	00C3C		957	D R0,=A(60*100)	COMPUTE MINUTES IN R1
00092E	5C60 BC10	00C40		958	M R6,=F'100'	SHIFT LEFT TWO DIGITS
000932	1A71			959	AR R7,R1	ADD MINUTES TO HOURS
000934	8C00 0020	00020		960	SRDL R0,32	REMAINDER TO R1 (CLEAR R0)
000938	5D00 BC14	00C44		961	D R0,=A(100)	COMPUTE SECONDS IN R1
				962	*	AND 100THS OF SECONDS IN R0
00093C	5C60 BC10	00C40		963	M R6,=F'100'	SHIFT LEFT TWO DIGITS
000940	1A71			964	AR R7,R1	ADD SECONDS TO MINUTES AND HOURS
000942	5C60 BC10	00C40		965	M R6,=F'100'	SHIFT LEFT TWO DIGITS
000946	1A70			966	AR R7,R0	ADD 100THS OF SECONDS
000948	4E70 D1E0	001E0		967	CVD R7,DECW	CONVERT TO DECIMAL
00094C	D20C D1F8 2000	001F8 00000		968	MVC TIMECHAR-2(13),0(R2)	MOVE MASK TO PRINT AREA
000952	DE0C D1F8 D1E3	001F8 001E3		969	ED TIMECHAR-2(13),DECW+3	EDIT
000958	07F8			970	BR R8	AND RETURN

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				972	*****	
				973	* CONSTANTS	*
				974	*****	
		00040		975	KSPACE EQU X'40'	SPACE
		0005C		976	KSTAR EQU C'*	ASTERISK
		0006B		977	KCOMMA EQU C','	COMMA
		0004B		978	KPERIOD EQU C'.'	PERIOD
		0005D		979	KRPAREN EQU C')'	RIGHT PARENTHESIS
		0004D		980	KLPAREN EQU C'('	LEFT PARENTHESIS
		00061		981	KSLASH EQU C'/'	SLASH
		0007A		982	KCOLON EQU C':'	COLON
		000D2		983	KK EQU C'K'	K
00095A	402120207A20207A			984	KCLOCKM DC XL13'402120207A20207A2020404040'	
000967	402120207A20207A			985	KPERIODM DC XL13'402120207A20207A20204B2020'	
000974	C9C5C6C1C3E3D9E3			986	KWTOID DC CL9'IEFACTRT '	
00097D	40D1D6C240D5C1D4			987	KSJOBNAM DC CL11' JOB NAME: '	
000988	40D1D6C2C3C1D9C4			988	KSJOBCRD DC CL14' JOBCARD READ '	
000996	40F3F7F061			989	KSCPUMAJ DC CL5' 370/'	
00099B	40E5E2F240D9			990	KSVS2 DC CL6' VS2 R'	
0009A1	E2E3C5D740D5E4D4			991	KSTEPNUM DC CL12'STEP NUMBER: '	
0009AD	4DD1E27BF0F0F05D			992	KACTRSTP DC CL8'(JS#000)'	
0009B5	E4E2C5D940C3D6D9			993	KUSERCOR DC CL10'USER CORE: '	
0009BF	E2E3C5D740D5C1D4			994	KSTEPNAM DC CL10'STEP NAME: '	
0009C9	E2E3C1D9E340E3C9			995	KSTRTTIM DC CL11'START TIME: '	
0009D4	C3D7E440E3C9D4C5			996	KCPUTIM DC CL9'CPU TIME: '	
0009DD	E2D9C240E3C9D4C5			997	KSRBTIM DC CL9'SRB TIME: '	
0009E6	E2E8E2E3C5D440C3			998	KSYSCOR DC CL12'SYSTEM CORE: '	
0009F2	E2E3D6D740E3C9D4			999	KSTOPTIM DC CL10'STOP TIME: '	
0009FC	C1C3E3C9E5C540E3			1000	KACTVTIM DC CL12'ACTIVE TIME: '	
000A08	D7D9D6C7D9C1D440			1001	KPGLDTIM DC CL13'PROGRAM LOAD: '	
000A15	C5D3C1D7E2C5C440			1002	KELAPSED DC CL13'ELAPSED TIME: '	
000A22	E3C3C240E3C9D4C5			1003	KTCBTIM DC CL9'TCB TIME: '	
000A2B	C1D3D3D6C340E3C9			1004	KALLOCTI DC CL11'ALLOC TIME: '	
000A36	D7D9D6C7D9C1D440			1005	KPGMNAME DC CL13'PROGRAM NAME: '	
000A43	D9C5C7C9D6D540E2			1006	KRGNSIZE DC CL12'REGION SIZE: '	
000A4F	C3D6D5C4C9E3C9D6			1007	KCONDCDE DC CL15'CONDITION CODE: '	
000A5E	60E2E3C5D740D5D6			1008	KFLUSHED DC CL19'-STEP NOT EXECUTED- '	
000A71	D7C5D9C6D6D9D4C1			1009	KPFMGRP DC CL18'PERFORMANCE GROUP: '	
000A83	D1C5E2F240C3C1D9			1010	KJES2NCI DC CL11'JES2 CARDS: '	
000A8E	E2C5D9E5C9C3C540			1011	KSUHEADL DC CL38'SERVICE UNITS PAGES IN/OUT # SWAPS '	
000AB4	D7C1C7C5E240E2E6			1012	KSUHEADR DC CL35'PAGES SWAP IN/OUT VIO PAGES IN/OUT'	
000AD7	C1C4C4D961E4D5C9			1013	KSEXCPHD DC CL19'ADDR/UNIT I/O COUNT'	
000AEA	D1C5E261C4E4D4D4			1014	KEXCP DC CL21'JES/DUMMY 999999999 '	
000AFF	5C5C5C40E6C1D9D5			1015	KWARN DC CL42'*** WARNING: EXCP COUNTS MAY BE WRONG ***'	
000B29	000000					
000B2C	F1000248			1016	WALNGTH DC 0F'0',AL1(SUBPOOL),AL3(WORKAEND-WORKAREA)	
				1017	WTODEF WTO '.....1.....2.....3.....4.....5.....C6.....',ROUTCDE=2,DESC=(6),MF=L	
000B30				1018	+WTODEF DS 0F	01800002
000B30	0045			1019	+ DC AL2(69) TEXT LENGTH	13200002
000B32	8000			1020	+ DC B'1000000000000000' MCS FLAGS	13250002
000B34	4B4B4B4B4B4B4B4B			1021	+ DC C'.....1.....2.....3.....4.....5.....X13350002	
000B3C	4BF14B4B4B4B4B4B			+6.....'	
000B75	0400			1022	+ DC B'0000010000000000' DESCRIPTOR CODES	13450002
000B77	4000			1023	+ DC B'0100000000000000' ROUTING CODES	13500002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
			00049	1024	WTODEFL EQU *-WTODEF	LENGTH OF MODEL WTO
			00041	1025	WTOMSGL EQU (WTODEFL-8)	LENGTH OF WTO MESSAGE AREA JLM
				1026	ESTAEL ESTAE MF=L	MODEL ESTAE PARM LIST
				1027+*	MACDATE Y-1 75302	00160004
000B7C				1028+	DS 0F	05400000
000B7C	16			1029+*	ESTAEL DC AL1(22)	05450004
000B7D	000000			1030+	DC AL3(0)	05600004
000B80	00000000			1031+	DC A(0)	05850004
000B84	00000000			1032+	DC A(0)	06250004
000B88	00			1033+	DC AL1(0)	06270004
000B89	000000			1034+	DC AL3(0)	06310002
		00010		1035	LESTAEL EQU *-ESTAEL	LENGTH OF MODEL ESTAE
000B8C	F0F1F2F3F4F5F6F7			1036	HEXTRANS DC C'0123456789ABCDEF'	
				1037	*****	
				1038	*	*
				1039	* DASD DEVICE NAME OFFSETS AND TABLE	*
				1040	*	*
				1041	*****	
000B9C	00			1042	DASDOFST DC AL1(DADASD-DASDTABL) 00	GENERIC 'DASD'
000B9D	04			1043	DC AL1(DA2311-DASDTABL) 01	'2311'
000B9E	00			1044	DC AL1(DADASD-DASDTABL) 02	GENERIC 'DASD'
000B9F	00			1045	DC AL1(DADASD-DASDTABL) 03	GENERIC 'DASD'
000BA0	00			1046	DC AL1(DADASD-DASDTABL) 04	GENERIC 'DASD'
000BA1	00			1047	DC AL1(DADASD-DASDTABL) 05	GENERIC 'DASD'
000BA2	00			1048	DC AL1(DADASD-DASDTABL) 06	GENERIC 'DASD'
000BA3	00			1049	DC AL1(DADASD-DASDTABL) 07	GENERIC 'DASD'
000BA4	0A			1050	DC AL1(DA2314-DASDTABL) 08	'2314'
000BA5	10			1051	DC AL1(DA3330-DASDTABL) 09	'3330'
000BA6	16			1052	DC AL1(DA3340-DASDTABL) 0A	'3340'
000BA7	1C			1053	DC AL1(DA3350-DASDTABL) 0B	'3350'
000BA8	22			1054	DC AL1(DA3375-DASDTABL) 0C	'3375'
000BA9	10			1055	DC AL1(DA3330-DASDTABL) 0D	'3330'
000BAA	28			1056	DC AL1(DA3380-DASDTABL) 0E	'3380'
000BAB	2E			1057	DC AL1(DA3390-DASDTABL) 0F	'3390'
000BB0				1058	DASDTABL DS 0D	
000BB0	C4C1E2C4			1059	DADASD DC CL4'DASD'	
000BB4	F2F3F1F14040			1060	DA2311 DC CL6'2311'	
000BBA	F2F3F1F44040			1061	DA2314 DC CL6'2314'	
000BC0	F3F3F3F04040			1062	DA3330 DC CL6'3330'	
000BC6	F3F3F4F04040			1063	DA3340 DC CL6'3340'	
000BCC	F3F3F5F04040			1064	DA3350 DC CL6'3350'	
000BD2	F3F3F7F54040			1065	DA3375 DC CL6'3375'	
000BD8	F3F3F8F04040			1066	DA3380 DC CL6'3380'	
000BDE	F3F3F9F04040			1067	DA3390 DC CL6'3390'	
				1068	*****	
				1069	*	*
				1070	* TAPE DEVICE NAME OFFSETS AND TABLE	*
				1071	*	*
				1072	*****	
000BE4	00			1073	TAPEOFST DC AL1(TATAPE-TAPETABL) 00	GENERIC 'TAPE'
000BE5	06			1074	DC AL1(TA2400-TAPETABL) 01	'2400'
000BE6	00			1075	DC AL1(TATAPE-TAPETABL) 02	GENERIC 'TAPE'
000BE7	0C			1076	DC AL1(TA3400-TAPETABL) 03	'3400'
000BE8				1077	TAPETABL DS 0D	
000BE8	E3C1D7C54040			1078	TATAPE DC CL6'TAPE'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 16.30 02/08/22
000BEE	F2F4F0F04040			1079	TA2400	DC CL6'2400'	
000BF4	F3F4F0F04040			1080	TA3400	DC CL6'3400'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
				1082	*****	
				1083	* WORK AREA ALLOCATED VIA GETMAIN	*
				1084	*****	
000000				1085	WORKAREA DSECT	
000000				1086	DS 18F	STANDARD REGISTER SAVE AREA
000048				1087	ESTAEW DS XL(LESTAE)	ESTAE PARM LIST AREA
000058				1088	ESTAPARM DS 5F	PARM LIST PASSED TO RETRY RTN
				1089	*	RETRY ROUTINE ADDRESS (NO SWDA
				1090	*	RETRY ROUTINE ADDRESS (SWDA
				1091	*	BASE REGISTER R11
				1092	*	IEFYS PARMS R12
				1093	*	DATA REGISTER R13
				1094	* * * * * * * * * * PARAMETERS PASSED ON ENTRY SAVED BELOW * * * * * * * *	
00006C				1095	PLCEPADR DS F	ADDR OF COMMON EXIT PARM AREA
000070				1096	PLSTPADR DS F	ADDR OF STEPNAME
000074				1097	PLPGNADR DS F	ADDR OF PROGRAMMER'S NAME
000078				1098	PLJETADR DS F	ADDR OF JOB EXECUTION TIME
00007C				1099	PLJAFADR DS F	ADDR OF JOB ACCOUNTING INFO
000080				1100	PLSETADR DS F	ADDR OF STEP EXECUTION TIME
000084				1101	PLSAFADR DS F	ADDR OF STEP ACCOUNTING INFO
000088				1102	PLFSNADR DS F	ADDR OF FLAG AND STEP NUM
00008C				1103	PLTSTADR DS F	ADDR OF TERMINATION STATUS
000090				1104	PLSMFADR DS F	ADDR OF TERMINATION RECORD
				1105	* * * * * * * * * * PARAMETERS PASSED ON ENTRY SAVED ABOVE * * * * * * * *	
				1106	* * * * * * * * * * COMMON EXIT PARAMETER LIST FIELDS SAVED BELOW * * * * * * * *	
000094				1107	CEPJOB DS CL8	JOBNAME
00009C				1108	CEPTIME DS CL8	TIME STAMP
0000A4				1109	CEPSYSID DS CL4	SMF SYSTEM ID
0000A8				1110	CEPUID DS CL8	USER ID
0000B0				1111	CEPSNUM DS CL1	STEP NUMBER
0000B1				1112	CEPSMFOP DS CL1	SMF OPTION
0000B2				1113	CEPRSTID DS CL1	RESTART INDICATOR
0000B3				1114	CEPJCLAS DS CL1	JOB CLASS
0000B4				1115	CEPUCOMM DS 0F	USER COMMUNICATION AREA
0000B4				1116	CEPUCOMH DS C	USER COMMUNICATION AREA HEADER
0000B5				1117	CEPUCOMT DS CL3	USER COMMUNICATION AREA TRAILER
				1118	* * * * * * * * * * COMMON EXIT PARAMETER LIST FIELDS SAVED ABOVE * * * * * * * *	
0000B8				1119	DS 0F	
0000B8				1120	WTOBUF DS CL(WTODEFL)	WTO BUFFER
000101				1121	ACTRMSG DS 0CL(WTOMSGL)	CONSOLE MESSAGE
000101				1122	ACTRHDR DS CL9	MESSAGE HEADER 'IEFACTRT '
00010A				1123	ACTRSTPN DS CL8	STEP NUMBER '(JS#999)'
		0010E		1124	ACTRSNNN EQU ACTRSTPN+4,3	999
000112				1125	ACTRSEP1 DS CL1	SEPARATOR '/'
000113				1126	ACTRPGMN DS CL8	PROGRAM NAME
00011B				1127	ACTRSEP2 DS CL1	SEPARATOR '/'
00011C				1128	ACTRCPUT DS CL11	CPU TIME
000127				1129	ACTRSEP3 DS CL1	SEPARATOR '/'
000128				1130	ACTRELAP DS CL11	CLOCK TIME
000133				1131	ACTRSEP4 DS CL1	SEPARATOR '/'
000134				1132	ACTRSCC DS CL5	STEP COMPLETION CODE
000139				1133	ACTRSEP5 DS CL1	SEPARATOR '/'
00013A				1134	ACTRJOB DS CL8	JOB NAME
000144				1135	SYSOUT@ DS F	ADDRESS OF SYSOUT LINE
000148				1136	SYSOUT# DS H	LENGTH OF SYSOUT LINE

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LOC  OBJECT CODE  ADDR1 ADDR2  STMT  SOURCE STATEMENT
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00014A          1137 SYSOUTLN DS    CL132      AREA TO BUILD SYSOUT LINE
0001CE          1138 DATEPACK DS    PL4        DATE FOR CORRECTION/CONVERSION
0001D2          1139 DATECHAR DS    CL8        JULIAN DATE YYYYDDD
0001E0          1140 DECW     DS    D          DECIMAL CONVERSION WORK FIELD
0001E8          1141 PACKW   DS    PL4        PACKED WORK AREA
0001EC          1142 UNPACKW  DS    CL8        UNPACKED WORK AREA
0001F4          1143 CPUMODEL DS    CL4        EDIT FIELD FOR CPU MODEL
0001F8          1144         DS    CL2        TIME CONVERSION REQUIRED FILLER
0001FA          1145 TIMECHAR DS    CL11       TIME CONVERSION FIELD
          1146 *          FIELDS BELOW COPIED FROM SMF4 RELOCATE SECTION
000205          1147 REL4PGIN DS    BL4        NUMBER OF PAGE-INS
000209          1148 REL4PGOT DS    BL4        NUMBER OF PAGE-OUTS
00020D          1149 REL4NSW  DS    BL4        NUMBER OF SWAPS
000211          1150 REL4PSI  DS    BL4        PAGES SWAPPED IN
000215          1151 REL4PSO  DS    BL4        PAGES SWAPPED OUT
000219          1152 REL4VPI  DS    BL4        VAM PAGE INS
00021D          1153 REL4VPO  DS    BL4        VAM PAGE OUTS
          1154 *          FIELDS BELOW COPIED FROM SMF4 PERFORMANCE SECTION
000221          1155 REL4SST  DS    BL4        STEP SERVICE TIME
000225          1156 REL4ACT  DS    BL4        STEP ACTIVE TIME
000229          1157 REL4PGNO DS    BL2        PERFORMANCE NUMBER
          1158 *          FIELDS BELOW COPIED FROM SMF4 ACCOUNTING SECTION
00022C          1159         DS    0H
00022C          1160 REL4SETM DS    BL4        STEP CPU TIME UNDER TCB (.01SEC)
          1161 *          FIELDS ABOVE COPIED FROM SMF4 RELOCATABLE SECTIONS
000230          1162 EXCPBLOK DS    0CL21      OUTPUT BUILD AREA FOR EXCP ENTRY
000230          1163         DS    CL3        CUU ADDRESS
          00230 1164 EXCPADDR EQU    EXCPBLOK,3      " "
000233          1165         DS    CL1        /
000234          1166         DS    CL5        DEVICE CLASS/NAME
          00234 1167 EXCPDEVC EQU    EXCPBLOK+4,1    " "
          00235 1168 EXCPDEVN EQU    EXCPBLOK+5,4    " "
000239          1169         DS    CL10       I/O COUNT
          00239 1170 EXCPCNT EQU    EXCPBLOK+9,10    " "
000243          1171         DS    CL2
000248          1172 WORKAEND DS    0F        END OF GETMAIN WORK AREA
          1173 *
          1174 *****
          1175 * SYSTEM RECORD DSECTS *
          1176 *****
          1177          PUSH PRINT
          1178          PRINT NOGEN
000000          1179 SMF4      DSECT
          1180          IFASMFR 4          SMF 4 RECORD
          1321          IHASDWA DSECT=YES      SDWA FOR ESTAE/SETRP MACRO
          1872          IEFJMR          JOB MGMT
          1962          POP PRINT
000000          1963          END    IEFACRT
000C00 00000008 1964          =F'8'
000C04 40202120 1965          =X'40202120'
000C08 00000000 1966          =V(IEFYS)
000C0C 00001388 1967          =A(5000)
000C10 00002710 1968          =A(10000)
000C14 0083D600 1969          =A(24*60*60*100)
000C18 00000FFF 1970          =X'00000FFF'

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 16.30 02/08/22
000C1C	402020206B202020			1971	=X'402020206B2020206B202120'	
000C28	40E5C9D6			1972	=C' VIO'	
000C2C	D4C9E2C3			1973	=C'MISC'	
000C30	00000015			1974	=F'21'	
000C34	00000006			1975	=F'6'	
000C38	00057E40			1976	=A(60*60*100)	
000C3C	00001770			1977	=A(60*100)	
000C40	00000064			1978	=F'100'	
000C44	00000064			1979	=A(100)	
000C48	0010			1980	=H'16'	
000C4A	000C			1981	=H'12'	
000C4C	010C			1982	=P'10'	
000C4E	402020202120			1983	=X'402020202120'	
000C54	E5D9			1984	=C'VR'	
000C56	E260			1985	=C'S-'	
000C58	0002			1986	=H'2'	
000C5A	4020202020202020			1987	=X'402020202020202120'	
000C64	F0F0			1988	=C'00'	
000C66	F1F9			1989	=C'19'	
000C68	F0F1			1990	=C'01'	
000C6A	F2F0			1991	=C'20'	
000C6C	D5D6E7C5C3			1992	=C'NOXEC'	
000C71	4020206B2020206B			1993	=X'4020206B2020206B202120'	
000C7C	4020202120			1994	=X'4020202120'	
000C81	F0F0F0			1995	=C'000'	
000C84	C6C6C6			1996	=C'FFF'	

POS.ID	REL.ID	FLAGS	ADDRESS
0002	0001	1C	000C08

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ACTRCPUT	00011	0000011C	01128	00387
ACTRELAP	00011	00000128	01130	00510
ACTRHDR	00009	00000101	01122	00225
ACTRJOB	00008	0000013A	01134	00231
ACTRMSG	00065	00000101	01121	00872
ACTRPGMN	00008	00000113	01126	00477
ACTRSCC	00005	00000134	01132	00558 00563 00570 00574 00579 00587
ACTRSEP1	00001	00000112	01125	00226
ACTRSEP2	00001	0000011B	01127	00227
ACTRSEP3	00001	00000127	01129	00228
ACTRSEP4	00001	00000133	01131	00229
ACTRSEP5	00001	00000139	01133	00230
ACTRSNNN	00003	0000010E	01124	00328
ACTRSTPN	00008	0000010A	01123	00324 00327 01124
BCSACTIM	00004	000002DC	00399	00396
BEGIN	00002	0000001E	00160	00154 00156
CCABEND	00002	000004DC	00566	00550
CCDONE	00002	00000538	00589	00559 00575
CCNOEXEC	00002	000004CC	00561	00547
CCUSERAB	00002	0000050C	00577	00568
CEPJOB	00008	00000094	01107	00189 00231 00245
CEPSNUM	00001	000000B0	01111	00239
CEPSYSID	00004	000000A4	01109	00284
CLOSEBOX	00002	00000862	00854	00725 00841
CONVEXCP	00004	000007B6	00800	00767 00775 00783 00791
CPUMODEL	00004	000001F4	01143	00271 00272 00273
DADASD	00004	00000BB0	01059	01042 01044 01045 01046 01047 01048 01049
DASDDEV	00004	0000079E	00793	00781
DASDOFST	00001	00000B9C	01042	00796
DASDTABL	00008	00000BB0	01058	00797 01042 01043 01044 01045 01046 01047 01048 01049 01050 01051 01052 01053 01054 01055 01056 01057
DATECHAR	00008	000001D2	01139	00252 00254 00937 00938 00939 00941 00942 00944 00945
DATEFORM	00002	000008EC	00936	00251
DATEFO01	00006	00000906	00942	00940
DATEFO02	00006	00000916	00945	00943
DATEPACK	00004	000001CE	01138	00250 00937 00945
DA2311	00006	00000BB4	01060	01043
DA2314	00006	00000BBA	01061	01050
DA3330	00006	00000BC0	01062	01051 01055
DA3340	00006	00000BC6	01063	01052
DA3350	00006	00000BCC	01064	01053
DA3375	00006	00000BD2	01065	01054
DA3380	00006	00000BD8	01066	01056
DA3390	00006	00000BDE	01067	01057
DECW	00008	000001E0	01140	00267 00267 00268 00269 00270 00272 00321 00323 00337 00339 00428 00430 00483 00485 00496 00498 00499 00499 00500 00554 00555 00571 00572 00573 00574 00583 00584 00596 00597 00622 00624 00643 00645 00650 00652 00658 00660 00665 00667 00672 00674 00680 00682 00687 00689 00695 00697 00758 00759 00760 00801 00803 00967 00969
DEVNAME	00002	00000768	00777	00772
ESTAEL	00001	00000B7C	01029	00193 01035
ESTAEW	00016	00000048	01087	00193 00201
ESTAPARM	00004	00000058	01088	00195 00197 00198 00205
EXCPADDR	00003	00000230	01164	00770
EXCPBLOK	00021	00000230	01162	00757 00810 01164 01167 01168 01170
EXCPCNT	00010	00000239	01170	00802 00803

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
EXCPDEVC	00001	00000234	01167	00773 00778 00785 00793
EXCPDEVN	00004	00000235	01168	00774 00779 00790 00798
EXCPERRS	00002	00000830	00839	00832
EXCPNEXT	00002	00000810	00827	00766 00813
GOBACK	00002	00000890	00879	00211 00213
HAVESDWA	00002	000008C2	00911	00907
HEXTRANS	00016	00000B8C	01036	00572 00761
IDENTITY	00002	00000004	00155	00156
IEFACTRT	00001	00000000	00052	00153 01963
ISITVIO	00002	0000074A	00769	00763
JMR	00001	00000000	01873	00163 01929
JMRFIND	00001	00000001	01942	00164
JMRINDC	00001	0000001D	01917	00164
JMRJOB	00008	00000000	01907	01914
JMRJOBP	00004	00000040	01954	01957
JMRLGEND	00001	0000001D	01913	01914
KACTRSTP	00008	000009AD	00992	00327
KACTVTIM	00012	000009FC	01000	00391
KALLOCTI	00011	00000A2B	01004	00452
KCLOCKM	00013	0000095A	00984	00257 00346 00437 00455 00526
KCONDCDE	00015	00000A4F	01007	00548
KCPUTIM	00009	000009D4	00996	00377
KELAPSED	00013	00000A15	01002	00495
KEXCP	00021	00000AEA	01014	00757
KFLUSHED	00019	00000A5E	01008	00562
KJES2NCI	00011	00000A83	01010	00619
KK	00001	000000D2	00983	00340 00431 00486
KPERIOD	00001	0000004B	00978	00279
KPERIODM	00013	00000967	00985	00384 00401 00446 00507 00518
KPFMGRP	00018	00000A71	01009	00593
KPGLDTIM	00013	00000A08	01001	00524
KPGMNAME	00013	00000A36	01005	00475
KRGNSIZE	00012	00000A43	01006	00481
KSCPUMAJ	00005	00000996	00989	00263
KSEXCPHD	00019	00000AD7	01013	00732 00733 00734 00735 00736 00737
KSJOBCHR	00014	00000988	00988	00249
KSJOBNAM	00011	0000097D	00987	00244
KSLASH	00001	00000061	00981	00226 00227 00228 00229 00230 00253 00653 00675 00690
KSPACE	00001	00000040	00975	00255 00285 00297 00311 00325 00414 00468 00539 00610 00635 00708 00728 00749 00821 00843
KSRBTIM	00009	000009DD	00997	00443
KSTAR	00001	0000005C	00976	00236 00299 00300 00313 00314 00416 00417 00470 00471 00541 00542 00612 00613 00637 00638 00710 00711 00730 00731 00751 00752 00823 00824 00845 00846 00859
KSTEPNAM	00010	000009BF	00994	00421
KSTEPNUM	00012	000009A1	00991	00318
KSTOPTIM	00010	000009F2	00999	00435
KSTRTTIM	00011	000009C9	00995	00344
KSUHEADL	00038	00000A8E	01011	00614
KSUHEADR	00035	00000AB4	01012	00615
KSVS2	00006	0000099B	00990	00277
KSYSCOR	00012	000009E6	00998	00426
KTCBTIM	00009	00000A22	01003	00514
KUSERCOR	00010	000009B5	00993	00334
KWARN	00042	00000AFF	01015	00847
KWTOID	00009	00000974	00986	00225
LESTAE	00001	00000010	01035	00193 01087

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 16.30 02/08/22													
LN6DONE	00002	00000552	00600	00564														
NEXTDEVC	00002	00000716	00756	00829														
NOJOBHD	00002	00000184	00287	00240														
PLCEPADR	00004	0000006C	01095	00184 00188														
PLSETADR	00004	00000080	01100	00378 00515														
PLSMFADR	00004	00000090	01104	00220														
QUIKEXIT	00002	000008A8	00895	00165														
RECOVERY	00002	000008AE	00903	00202														
REGVRNO	00002	000003EC	00491	00488														
REL4ACT	00004	00000225	01156	00364 00392														
REL4NSW	00004	0000020D	01149	00358 00664														
REL4PGIN	00004	00000205	01147	00356 00649														
REL4PGNO	00002	00000229	01157	00365 00595														
REL4PGOT	00004	00000209	01148	00357 00657														
REL4PSI	00004	00000211	01150	00359 00671														
REL4PSO	00004	00000215	01151	00360 00679														
REL4SETM	00004	0000022C	01160	00372 00372 00373														
REL4SST	00004	00000221	01155	00363 00642														
REL4VPI	00004	00000219	01152	00361 00686														
REL4VPO	00004	0000021D	01153	00362 00694														
RTRYRTN1	00002	000008E4	00928	00194														
RTRYRTN2	00002	00000896	00885	00196 00930														
R0	00001	00000000	00137	00168 00170 00177 00180 00194 00195 00196 00197 00501 00501 00502 00764 00765 00765 00800														
				00801 00805 00805 00807 00888 00906 00908 00953 00953 00954 00956 00957 00960 00961 00966														
R1	00001	00000001	00138	00162 00175 00177 00184 00188 00189 00256 00345 00379 00379 00380 00383 00400 00427 00428														
				00436 00444 00444 00445 00453 00453 00454 00500 00504 00506 00516 00516 00517 00525 00551														
				00551 00552 00553 00554 00580 00580 00581 00582 00583 00594 00594 00595 00596 00620 00620														
				00621 00622 00642 00643 00649 00650 00657 00658 00664 00665 00671 00672 00679 00680 00686														
				00687 00694 00695 00786 00786 00787 00788 00788 00789 00789 00790 00794 00794 00795 00796														
				00796 00797 00797 00798 00806 00809 00873 00889 00913 00929 00955 00959 00964														
R10	00001	0000000A	00147	00220 00221														
R11	00001	0000000B	00148	00168 00169 00198 00929														
R12	00001	0000000C	00149	00161 00289 00290 00303 00304 00406 00407 00460 00461 00531 00532 00602 00603 00627 00628														
				00700 00701 00714 00715 00741 00742 00816 00817 00834 00835 00849 00850 00863 00864 00896														
R13	00001	0000000D	00150	00161 00174 00175 00176 00178 00179 00198 00887 00889 00894 00896 00912 00929														
R14	00001	0000000E	00151	00161 00292 00306 00409 00463 00534 00605 00630 00703 00717 00744 00819 00837 00852 00866														
				00896 00897 00910 00912														
R15	00001	0000000F	00152	00153 00167 00174 00177 00178 00179 00291 00292 00305 00306 00408 00409 00462 00463 00533														
				00534 00604 00605 00629 00630 00702 00703 00716 00717 00743 00744 00818 00819 00836 00837														
				00851 00852 00865 00866 00904 00909 00922														
R2	00001	00000002	00139	00215 00216 00217 00218 00257 00319 00319 00320 00321 00335 00335 00336 00337 00346 00378														
				00380 00381 00381 00382 00383 00384 00401 00437 00446 00455 00482 00483 00507 00515 00517														
				00518 00526 00808 00809 00810 00908 00913 00914 00914 00968														
R3	00001	00000003	00140	00180 00210 00212 00503 00504 00505 00506 00738 00738 00806 00811 00811 00812 00825 00825														
				00831 00831 00887 00894														
R4	00001	00000004	00141	00905 00906														
R5	00001	00000005	00142	00264 00265 00265 00266 00268 00278 00280 00352 00352 00353 00354 00354 00355 00366 00370														
				00371 00373 00721 00722 00723 00724 00724 00829														
R6	00001	00000006	00143	00393 00393 00394 00397 00397 00399 00726 00758 00764 00780 00782 00787 00795 00800 00828														
				00828 00958 00963 00965														
R7	00001	00000007	00144	00162 00163 00166 00392 00395 00400 00955 00959 00964 00966 00967														
R8	00001	00000008	00145	00251 00258 00347 00385 00402 00438 00447 00456 00508 00519 00527 00946 00970														
SDWA	00001	00000000	01363	00916 00917 00918 00919 01870														
SDWAACF2	00001	000000FD	01752	00918 00919														
SDWAEND	00008	00000200	01869	01870														

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
TAPEOFST	00001	00000BE4	01073	00788
TAPETABL	00008	00000BE8	01077	00789 01073 01074 01075 01076
TATAPE	00006	00000BE8	01078	01073 01075
TA2400	00006	00000BEE	01079	01074
TA3400	00006	00000BF4	01080	01076
TIMECHAR	00011	000001FA	01145	00259 00348 00386 00387 00403 00439 00448 00457 00509 00510 00520 00528 00968 00969
TIMEFORM	00002	0000091E	00952	00258 00347 00385 00402 00438 00447 00456 00508 00519 00527
UNPACKW	00008	000001EC	01142	00555 00556 00557 00558 00584 00585 00586 00587 00760 00761 00762 00770 00771
WALNGTH	00004	00000B2C	01016	00170 00888
WORKAEND	00004	00000248	01172	01016
WORKAREA	00001	00000000	01085	00176 01016
WTOBUF	00073	000000B8	01120	00871 00872 00873
WTODEF	00004	00000B30	01018	00871 01024
WTODEFL	00001	00000049	01024	01025 01120
WTOMSGL	00001	00000041	01025	00872 01121

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
=F'8'	00004	00000C00	01964	00266
=X'40202120'	00004	00000C04	01965	00271 00322
=V(IEFYS)	00004	00000C08	01966	00291 00305 00408 00462 00533 00604 00629 00702 00716 00743 00818 00836 00851 00865
=A(5000)	00004	00000C0C	01967	00395
=A(10000)	00004	00000C10	01968	00399
=A(24*60*60*100)	00004	00000C14	01969	00502
=X'00000FFF'	00004	00000C18	01970	00553 00582
=X'402020206B2020206B202120'	00012	00000C1C	01971	00644
=C' VIO'	00004	00000C28	01972	00774
=C' MISC'	00004	00000C2C	01973	00779
=F'21'	00004	00000C30	01974	00807
=F'6'	00004	00000C34	01975	00812
=A(60*60*100)	00004	00000C38	01976	00954
=A(60*100)	00004	00000C3C	01977	00957
=F'100'	00004	00000C40	01978	00958 00963 00965
=A(100)	00004	00000C44	01979	00961
=H'16'	00002	00000C48	01980	00210
=H'12'	00002	00000C4A	01981	00212
=P'10'	00002	00000C4C	01982	00270
=X'402020202120'	00006	00000C4E	01983	00338 00429 00484
=C'VR'	00002	00000C54	01984	00489
=C'S-	00002	00000C56	01985	00569 00570
=H'2'	00002	00000C58	01986	00722
=X'4020202020202020202120'	00010	00000C5A	01987	00802
=C'00'	00002	00000C64	01988	00939
=C'19'	00002	00000C66	01989	00941
=C'01'	00002	00000C68	01990	00942
=C'20'	00002	00000C6A	01991	00944
=C'NOXEC'	00005	00000C6C	01992	00563
=X'4020206B2020206B202120'	00011	00000C71	01993	00623
=X'4020202120'	00005	00000C7C	01994	00651 00659 00666 00673 00681 00688 00696
=C'000'	00003	00000C81	01995	00762
=C'FFF'	00003	00000C84	01996	00771

ASM 0201 16.30 02/08/22

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

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

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 1063

TOTAL RECORDS READ FROM SYSTEM LIBRARY 6026

TOTAL RECORDS PUNCHED 62

TOTAL RECORDS PRINTED 1583

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED SIZE=(500K,80K),NCAL,LIST,LET,XREF,RENT

VARIABLE OPTIONS USED - SIZE=(481280,73728)

IEW0000	ORDER IEFDB400	00000100
IEW0000	ORDER IEFDB401	00000200
IEW0000	ORDER IEFAB4F7(P)	00000300
IEW0000	ORDER IEFAB4F6	00000400
IEW0000	ORDER IEFDB4FF	00000500
IEW0000	ORDER IEFDB4FC	00000600
IEW0000	ORDER IEFDB4FA	00000700
IEW0000	ORDER IEFDB410(P)	00000800
IEW0000	ORDER IEFDB412	00000900
IEW0000	ORDER IEFDB411	00001000
IEW0000	ORDER IEFAB4DC	00001100
IEW0000	ORDER IEFDB417	00001200
IEW0000	ORDER IEFAB4E9	00001300
IEW0000	ORDER IEFAB445	00001400
IEW0000	ORDER IEFDB413	00001500
IEW0000	ORDER IEFDB414	00001600
IEW0000	ORDER IEFDB418	00001700
IEW0000	ORDER IEFDB4FE	00001800
IEW0000	ORDER IEFDB4F9	00001900
IEW0000	ORDER IEFDB4F8	00002000
IEW0000	ORDER IEFDB4FD	00002100
IEW0000	ORDER IEFDB480	00002200
IEW0000	ORDER IEFDB481	00002300
IEW0000	ORDER IEFDB4A0	00002400
IEW0000	ORDER IEFDB4A1	00002500
IEW0000	ORDER IEFDB470	00002600
IEW0000	ORDER IEFDB450	00002700
IEW0000	ORDER IEFDB460	00002800
IEW0000	ORDER IEFDB490	00002900
IEW0000	ORDER IEFBB401	00003000
IEW0000	ORDER IEFAB4FE	00003100
IEW0000	ORDER IEFBB402	00003200
IEW0000	ORDER IEFBB404	00003300
IEW0000	ORDER IEFBB4M3	00003400
IEW0000	ORDER IEFAB451	00003500
IEW0000	ORDER IEFAB452	00003600
IEW0000	ORDER IEFAB453	00003700
IEW0000	ORDER IEFAB470	00003800
IEW0000	ORDER IEFAB454	00003900
IEW0000	ORDER IEFAB457	00004000
IEW0000	ORDER IEFAB464	00004100
IEW0000	ORDER IEFAB459	00004200
IEW0000	ORDER IEFAB421	00004300
IEW0000	ORDER IEFAB427	00004400
IEW0000	ORDER IEFAB431	00004500
IEW0000	ORDER IEFAB423	00004600
IEW0000	ORDER IEFAB424	00004700
IEW0000	ORDER IEFAB425	00004800
IEW0000	ORDER IEFAB426	00004900
IEW0000	ORDER IEFAB430	00005000
IEW0000	ORDER IEFAB433	00005100
IEW0000	ORDER IEFAB436(P)	00005200
IEW0000	ORDER IEFAB440(P)	00005300

IEW0000	ORDER	IEFAB4F0	00005400
IEW0000	ORDER	IEFAB434(P)	00005500
IEW0000	ORDER	IEFAB428	00005600
IEW0000	ORDER	IEFAB4FC	00005700
IEW0000	ORDER	IEFAB435(P)	00005800
IEW0000	ORDER	IEFAB441	00005900
IEW0000	ORDER	IEFAB442	00006000
IEW0000	ORDER	IEFAB432	00006100
IEW0000	ORDER	IEFAB490	00006200
IEW0000	ORDER	IEFAB4F3	00006300
IEW0000	ORDER	IEFAB4FD	00006400
IEW0000	ORDER	IEFAB471(P)	00006500
IEW0000	ORDER	IEFAB4FA(P)	00006600
IEW0000	ORDER	IEFAB473(P)	00006700
IEW0000	ORDER	IEFAB4M5	00006800
IEW0000	ORDER	IEFAB4F9	00006900
IEW0000	ORDER	IEFAB4F8	00007000
IEW0000	ORDER	IEFAB475	00007100
IEW0000	ORDER	IEFAB476	00007200
IEW0000	ORDER	IEFAB480	00007300
IEW0000	ORDER	IEFAB4F2(P)	00007400
IEW0000	ORDER	IEFAB492	00007500
IEW0000	ORDER	IEFAB493	00007600
IEW0000	ORDER	IEFAB494(P)	00007700
IEW0000	ORDER	IEFAB495	00007800
IEW0000	ORDER	IEFBB410(P)	00007900
IEW0000	ORDER	IEFBB412	00008000
IEW0000	ORDER	IEFBB414	00008100
IEW0000	ORDER	IEFBB416	00008200
IEW0000	ORDER	IEFAB4EC	00008300
IEW0000	ORDER	IEFAB4A0	00008400
IEW0000	ORDER	IEFAB4A2(P)	00008500
IEW0000	ORDER	IEFAB4SF	00008600
IEW0000	ORDER	IEFAB4A4(P)	00008700
IEW0000	ORDER	IEFAB4A6	00008800
IEW0000	ORDER	IEFAB4A8	00008900
IEW0000	ALIAS	IGC0009I	00009000
IEW0000	ALIAS	IEFAB4DC	00009100
IEW0000	ALIAS	IEFBB410	00009200
IEW0000	ALIAS	IEFAB49C	00009300
IEW0000	ALIAS	IEFAB4F5	00009400
IEW0000	ALIAS	IEFAB4F4	00009500
IEW0000	ALIAS	IEFAB4UV	00009600
IEW0000	ALIAS	IEFAB445	00009700
IEW0000	ALIAS	IEFAB4EC	00009800
IEW0000	ALIAS	IEFAB4SF	00009900
IEW0000	ENTRY	IEFBB401	00010000
IEW0000	INCLUDE	UMODOBJ(IEFACTRT)	JLM0001
IEW0000	INCLUDE	LPALIB(IEFW21SD)	
IEW0000	NAME	IEFW21SD(R)	
***IEFW21SD	NOW REPLACED IN DATA SET		
***IEFAB4SF	IS AN ALIAS FOR THIS MEMBER		
***IEFAB4EC	IS AN ALIAS FOR THIS MEMBER		
***IEFAB445	IS AN ALIAS FOR THIS MEMBER		
***IEFAB4UV	IS AN ALIAS FOR THIS MEMBER		

NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IEFAB4A0	34AC8	E1A								
IEFAB4A2	36000	15D9								
IEFAB4SF	375E0	DEC								
IEFAB4A4	39000	D6A								
IEFAB4A6	39D70	880								
IEFAB4A8	3A5F0	5C4								
IEFACTRT	3ABB8	C87								
IEFSGOPT	3B840	3								
IEFYRCDS	3B848	64								
IEFRPREP	3B8B0	468								
IEFXVNSL	3BD18	6								
IEFTB721	3BD20	7F6								
IEFTB722	3C518	C8A								
IEFTB720	3D1A8	144								
			IEF373I	3D1C0	IEF374I	3D1F0	IEF375I	3D262	IEF376I	3D292
IEFTB723	3D2F0	10A								
			IEFY5	3D2F0						
IEFAB4DD	3D400	3DC								
IEFAB4DE	3D7E0	42C								
IEFAB4E0	3DC10	239								
IEFAB4E1	3DE50	FC								
IEFAB4E2	3DF50	15C								
IEFAB4E3	3E0B0	4A								
IEFAB4E4	3E100	134								
IEFAB4E6	3E238	CC								
IEFAB4E7	3E308	1C0								
IEFAB4E8	3E4C8	4A0								
IEFAB4EA	3E968	240								
IEFAB4EB	3EBA8	177								
IEFAB4ED	3ED20	49F								
IEFAB4EE	3F1C0	4AD								
IEFAB4EF	3F670	64C								
IEFAB4F1	3FCC0	120								
IEFAB4F4	3FDE0	706								
IEFAB4F5	404E8	998								
IEEAB400	40E80	3A4								
			IEEAB402	40EA0						
IEEAB401	41228	468								
			IEEAB403	41248						
IEFAB4M4	41690	240								
			CNDMTMSG	41690	SCRCH	416D1	PRIVAT	416D7	MTREPLYM	416DE
			VERINVLD	416FE	ATTROTAB	4172C	MSGNO	4173A	ACTION	4175A
			ATTRIBUTE	41762	VVMNTMSG	417E0	VVUNLMSG	41830	VMVERMSG	41880
IEFAB4M6	418D0	121								
			MSGIDTAB	418D0	DSPIDTAB	418E8	DSPTAB	41936	VLINENT	419E2
IEFAB4M7	419F8	105								
			ALOCHDR	419F8	ABENDHDR	41A2E	ALOCMSG	41A6C	PVTMSG	41A96
IEFAB4M9	41B00	2DE								
			HDRMSG1	41B00	HDR2OFFS	41B48	HDRMSG2	41B54	RPLYOFFS	41BDE
			RPLYOPTS	41BEA	RMSGID	41C34	SWMSGOFS	41C50	SWMSGOPS	41C58
			SWMSGID	41C80	OFLMOFS	41CB0	OFLMSG	41CB8	OFLHDR	41CD0
			OFLMSGID	41D0C	INVRMSG	41D22	INVROPT	41D46	RPLYWAIT	41D62

NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
			INVWTMSG	41DA2						
IEFAB4UV	41DE0	8FD								
IEFAB422	426E0	6AC								
IDACAT11	42D90	DB0								
			IGGPCORR	437C4						
IDACAT12	43B40	718								
IEFAB455	44258	494								
IEFAB456	446F0	3FB								
IEFAB458	44AF0	4F3								
IEFAB461	44FE8	878								
IEFAB463	45860	1D4								
IEFAB466	45A38	495								
IEFAB469	45ED0	9DD								
IEFAB472	468B0	C8E								
IEFAB474	47540	620								
IEFAB477	47B60	92C								
IEFAB478	48490	C6E								
IEFAB479	49100	D42								
IEFAB481	49E48	188								
IEFAB485	49FD0	DE8								
IEFAB486	4ADB8	104C								
IEFAB487	4BE08	AAC								
IEFAB488	4C8B8	B7C								
IEFAB489	4D438	E6E								
IEFAB48A	4E2A8	902								
IEFAB491	4EBB0	9E0								
IEFAB496	4F590	5F4								
IEFAB498	4FB88	2CA								
IEFAB499	4FE58	85F								
IEFAB49A	506B8	537								
IEFAB49B	50BF0	808								
IEFAB49C	513F8	152								
IEFAB4A3	51550	442								
IEFAB4B0	51998	510								
IEFAB4B2	51EA8	41E								
IEFDB4FB	522C8	F4								
IEFDB402	523C0	1D6								
IEFDB403	52598	E4								
IEFBB4M1	52680	CA								
			STARTED	52680	LOGGEDON	526B0	JNOTRUN	526E2	CWTOLIST	52724
IEFBB4M2	52750	80D								
			STEPMOT	52750	MSGTEXTT	527C8				
IEFBB4M4	52F60	340								
			UNERRMSG	52F60	PGMABEND	52F9C	STEPRUN	52FEE	STNOTRUN	5303A
			WTOABEND	53078	CCFAIL	530C6	JOBENDED	53112	JOBFAILD	53140
			LOGGDOFF	5317E	PGMCFAIL	531B0	RLSEHDR	53200	STNOAUTO	5323A
IEFBB4M5	532A0	162								
			B410MOFT	532A0	B410MSGT	532B0				

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
44	GSPACE	IEFAB4F6
B30	FSPACE	IEFAB4F6
BD4	IEFDB401	IEFDB401
BDC	IEFAB4ED	IEFAB4ED
BE4	IEFAB4FE	IEFAB4FE
BEC	IEFDB410	IEFDB410
BF0	IEFDB450	IEFDB450
BF4	IEFDB460	IEFDB460
BF8	IEFDB470	IEFDB470
BFC	IEFDB480	IEFDB480
C00	IEFDB490	IEFDB490
C04	IEFDB4A0	IEFDB4A0
1038	GSPACE	IEFAB4F6
1360	FSPACE	IEFAB4F6
15F4	GSPACE1	IEFAB4F6
2034	GSPACE	IEFAB4F6
3234	FSPACE	IEFAB4F6
32C4	IEFDB411	IEFDB411
32CC	IEFDB4FE	IEFDB4FE
32D4	IEFDB4FD	IEFDB4FD
32DC	IEFDB4A0	IEFDB4A0
3444	GSPACE	IEFAB4F6
3DA4	FSPACE	IEFAB4F6
4BC4	GSPACE	IEFAB4F6
5828	FSPACE	IEFAB4F6
5870	IEFDB417	IEFDB417
5878	IEFDB4FB	IEFDB4FB
5958	GSPACE	IEFAB4F6
65E0	FSPACE	IEFAB4F6
6674	IEF458D	IEFAB4M5
667C	IEF863I	IEFAB4M5
67AC	GSPACE1	IEFAB4F6
6DA8	GSPACE	IEFAB4F6
6FEC	FSPACE	IEFAB4F6
7098	GSPACE1	IEFAB4F6
8364	FSPACE	IEFAB4F6
8470	IEFAB4F7	IEFAB4F7
8478	IEFDB418	IEFDB418
8480	IEFAB421	IEFAB421
8488	IEFAB4A0	IEFAB4A0
8490	IEFDB4F9	IEFDB4F9
86FC	GSPACE	IEFAB4F6
96F0	FSPACE	IEFAB4F6
9B88	IEFAB4F7	IEFAB4F7
9B90	IEFDB4FC	IEFDB4FC
9B98	IEFAB445	IEFAB445
9D24	GSPACE1	IEFAB4F6
A328	IEFAB4A0	IEFAB4A0
A330	IEFAB4DC	IEFAB4DC
A3C4	GSPACE1	IEFAB4F6
A5FC	GSPACE	IEFAB4F6
AD50	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
48	GSPACE1	IEFAB4F6
B64	FSPACE	IEFAB4F6
BD8	IEFDB402	IEFDB402
BE0	IEFAB4F7	IEFAB4F7
BE8	IEFDB4F9	IEFDB4F9
C30	IEFDB410	IEFDB410
C38	IEFDB450	IEFDB450
C40	IEFDB460	IEFDB460
C48	IEFDB470	IEFDB470
C50	IEFDB480	IEFDB480
C58	IEFDB490	IEFDB490
C60	IEFDB4A0	IEFDB4A0
103C	GSPACE1	IEFAB4F6
15F0	GSPACE	IEFAB4F6
18F8	FSPACE	IEFAB4F6
2038	GSPACE1	IEFAB4F6
32C0	IEFDB412	IEFDB412
32C8	IEFDB413	IEFDB413
32D0	IEFDB4FB	IEFDB4FB
32D8	IEFDB460	IEFDB460
32E0	IEFAB4F7	IEFAB4F7
3448	GSPACE1	IEFAB4F6
402C	IEFDB4FF	IEFDB4FF
4BC8	GSPACE1	IEFAB4F6
586C	IEFAB4DC	IEFAB4DC
5874	IEFAB4E9	IEFAB4E9
587C	IEFAB445	IEFAB445
595C	GSPACE1	IEFAB4F6
6670	IEFAB4F7	IEFAB4F7
6678	IEF861I	IEFAB4M5
67A8	GSPACE	IEFAB4F6
6D10	FSPACE	IEFAB4F6
6DAC	GSPACE1	IEFAB4F6
7094	GSPACE	IEFAB4F6
8338	FSPACE	IEFAB4F6
846C	IEFAB4DC	IEFAB4DC
8474	IEFDB414	IEFDB414
847C	IEFAB451	IEFAB451
8484	IEFAB4FC	IEFAB4FC
848C	IEFDB4FE	IEFDB4FE
8494	IEFAB445	IEFAB445
8700	GSPACE1	IEFAB4F6
971C	FSPACE	IEFAB4F6
9B8C	IEFDB417	IEFDB417
9B94	IEFDB4FD	IEFDB4FD
9D20	GSPACE	IEFAB4F6
A2D8	FSPACE	IEFAB4F6
A32C	IEFAB4F7	IEFAB4F7
A3C0	GSPACE	IEFAB4F6
A580	FSPACE	IEFAB4F6
A600	GSPACE1	IEFAB4F6
AD7C	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
B440	IEFDB4F8	IEFDB4F8
B540	GSPACE	IEFAB4F6
BC18	FSPACE	IEFAB4F6
BCE0	GSPACE	IEFAB4F6
BE28	FSPACE	IEFAB4F6
BEB0	GSPACE	IEFAB4F6
C274	FSPACE	IEFAB4F6
C29C	IEFDB481	IEFDB481
C32C	GSPACE1	IEFAB4F6
C5B8	IEFDB4A1	IEFDB4A1
C614	GSPACE1	IEFAB4F6
D38C	IEFDB4FF	IEFDB4FF
D394	IEFDB4A1	IEFDB4A1
D39C	IEFDB4FA	IEFDB4FA
D54C	GSPACE	IEFAB4F6
E4C8	FSPACE	IEFAB4F6
E5F8	IEFAB4F7	IEFAB4F7
E600	IEFDB4F9	IEFDB4F9
E74C	GSPACE1	IEFAB4F6
ED54	IEFDB4FA	IEFDB4FA
ED5C	IEFDB4FE	IEFDB4FE
EEB8	GSPACE	IEFAB4F6
F5E8	FSPACE	IEFAB4F6
F648	IEFAB4FC	IEFAB4FC
F650	IEFDB4FB	IEFDB4FB
F658	IEFDB4FF	IEFDB4FF
F74C	GSPACE1	IEFAB4F6
FADC	IEFDB4F9	IEFDB4F9
FAE4	IEFDB4FF	IEFDB4FF
FB64	GSPACE1	IEFAB4F6
FE48	IEFDB4FC	IEFDB4FC
FF00	GSPACE	IEFAB4F6
10A28	FSPACE	IEFAB4F6
10AA0	IEFAB4A6	IEFAB4A6
10AA8	IEFAB4FC	IEFAB4FC
10AB0	IEFAB4FE	IEFAB4FE
10AB8	IEFAB4F3	IEFAB4F3
10AC0	IEFBB404	IEFBB404
10AC4	CWTOLIST	IEFBB4M1
10ACC	STEPMOT	IEFBB4M2
10AD4	JNOTRUN	IEFBB4M1
10BE8	GSPACE	IEFAB4F6
10DB0	FSPACE	IEFAB4F6
110F8	GSPACE	IEFAB4F6
1143C	FSPACE	IEFAB4F6
1159C	IEFAB4F7	IEFAB4F7
11624	GSPACE1	IEFAB4F6
11BD8	IEFAB4FC	IEFAB4FC
11BE0	IEFAB4F3	IEFAB4F3
11BE8	IEFAB451	IEFAB451
11BD0	DDERRTAB	IEFBB4M3
13CE8	GSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
B444	IEFDB403	IEFDB403
B544	GSPACE1	IEFAB4F6
BC4C	IEFDB403	IEFDB403
BCE4	GSPACE1	IEFAB4F6
BE3C	IEFDB4FC	IEFDB4FC
BEB4	GSPACE1	IEFAB4F6
C298	IEFDB4FF	IEFDB4FF
C328	GSPACE	IEFAB4F6
C4E4	FSPACE	IEFAB4F6
C610	GSPACE	IEFAB4F6
D2F4	FSPACE	IEFAB4F6
D390	IEFDB481	IEFDB481
D398	IEFDB4FC	IEFDB4FC
D3A0	IEFDB460	IEFDB460
D550	GSPACE1	IEFAB4F6
E5F4	IEFAB4A0	IEFAB4A0
E5FC	IEFAB4DC	IEFAB4DC
E748	GSPACE	IEFAB4F6
ECE8	FSPACE	IEFAB4F6
ED58	IEFDB4FC	IEFDB4FC
ED60	IEFDB4FF	IEFDB4FF
EEBC	GSPACE1	IEFAB4F6
F644	IEFAB4F7	IEFAB4F7
F64C	IEFDB4F9	IEFDB4F9
F654	IEFDB4FC	IEFDB4FC
F748	GSPACE	IEFAB4F6
FABC	FSPACE	IEFAB4F6
FAE0	IEFDB4FC	IEFDB4FC
FB60	GSPACE	IEFAB4F6
FE2C	FSPACE	IEFAB4F6
FE4C	IEFDB4FF	IEFDB4FF
FF04	GSPACE1	IEFAB4F6
10A9C	IEEAB401	IEEAB401
10AA4	IEFAB4E4	IEFAB4E4
10AAC	IEFAB4FD	IEFAB4FD
10AB4	IEFAB4F7	IEFAB4F7
10ABC	IEFBB402	IEFBB402
10ADC	IEFAB4ED	IEFAB4ED
10AC8	MSGTEXTT	IEFBB4M2
10AD0	LOGGEDON	IEFBB4M1
10AD8	STARTED	IEFBB4M1
10BEC	GSPACE1	IEFAB4F6
1107C	IEFAB4F7	IEFAB4F7
110FC	GSPACE1	IEFAB4F6
11470	FSPACE	IEFAB4F6
11620	GSPACE	IEFAB4F6
11B88	FSPACE	IEFAB4F6
11BDC	IEFAB4FD	IEFAB4FD
11BE4	IEFAB421	IEFAB421
11BEC	MSGTTAB	IEFBB4M3
11BD4	DDMSGOFF	IEFBB4M3
13CEC	GSPACE1	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
14290	FSPACE	IEFAB4F6
142D4	IEFAB4EA	IEFAB4EA
142DC	IEFAB4F4	IEFAB4F4
1438C	GSPACE1	IEFAB4F6
14784	IEFAB453	IEFAB453
1478C	IEFAB4EF	IEFAB4EF
14818	GSPACE	IEFAB4F6
14C0C	FSPACE	IEFAB4F6
14C30	IEFAB4F7	IEFAB4F7
14CC	GSPACE1	IEFAB4F6
14F38	GSPACE	IEFAB4F6
152B8	FSPACE	IEFAB4F6
152D0	IEFAB457	IEFAB457
152D8	IEFAB459	IEFAB459
190B0	FSPACE	IEFAB4F6
191C8	IEFAB4ED	IEFAB4ED
191D0	IEFAB422	IEFAB422
191D8	IEFAB425	IEFAB425
191E0	IEFAB428	IEFAB428
191E8	IEFAB431	IEFAB431
191F0	IEFAB485	IEFAB485
191F8	IEFAB49C	IEFAB49C
19208	IEFAB4F3	IEFAB4F3
19200	OFFWTO	IEFAB4M5
1920C	IEF690I	IEFAB4M5
19214	IEF690ND	IEFAB4M5
15348	GSPACE	IEFAB4F6
15A0C	FSPACE	IEFAB4F6
16080	IEFAB464	IEFAB464
16088	IEFAB469	IEFAB469
16178	GSPACE	IEFAB4F6
16EC4	FSPACE	IEFAB4F6
17098	IEFAB470	IEFAB470
17210	GSPACE	IEFAB4F6
17A58	FSPACE	IEFAB4F6
17AC0	IEFAB469	IEFAB469
17AC8	IEFAB4F7	IEFAB4F7
17BD8	GSPACE1	IEFAB4F6
19488	GSPACE	IEFAB4F6
19D90	FSPACE	IEFAB4F6
1A058	IEFAB428	IEFAB428
1A160	GSPACE	IEFAB4F6
1A480	FSPACE	IEFAB4F6
1A4A4	IEFAB445	IEFAB445
1A57C	GSPACE1	IEFAB4F6
1AF5C	IEFAB424	IEFAB424
1B028	GSPACE	IEFAB4F6
1B7F0	FSPACE	IEFAB4F6
1B8D4	GSPACE1	IEFAB4F6
1BEA8	IEFAB434	IEFAB434
1BF64	GSPACE1	IEFAB4F6
1C194	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
142D0	IEFAB452	IEFAB452
142D8	IEFAB4ED	IEFAB4ED
14388	GSPACE	IEFAB4F6
14760	FSPACE	IEFAB4F6
14788	IEFAB454	IEFAB454
14790	IEFAB4F7	IEFAB4F7
1481C	GSPACE1	IEFAB4F6
14C2C	IEFAB470	IEFAB470
14CC8	GSPACE	IEFAB4F6
14EB8	FSPACE	IEFAB4F6
14F3C	GSPACE1	IEFAB4F6
152CC	IEFAB456	IEFAB456
152D4	IEFAB458	IEFAB458
152DC	IEFAB469	IEFAB469
191C4	IEEAB401	IEEAB401
191CC	IEFAB4E8	IEFAB4E8
191D4	IEFAB423	IEFAB423
191DC	IEFAB427	IEFAB427
191E4	IEFAB430	IEFAB430
191EC	IEFAB471	IEFAB471
191F4	IEFAB490	IEFAB490
191FC	IEFAB491	IEFAB491
1921C	IEFAB4F1	IEFAB4F1
19204	UNLDMSG	IEFAB4M5
19210	IEF690L2	IEFAB4M5
19218	VWAITLST	IEFAB4M5
1534C	GSPACE1	IEFAB4F6
1607C	IEFAB463	IEFAB463
16084	IEFAB466	IEFAB466
1608C	IEFAB4F7	IEFAB4F7
1617C	GSPACE1	IEFAB4F6
17094	IEFAB463	IEFAB463
1709C	IEFAB4F7	IEFAB4F7
17214	GSPACE1	IEFAB4F6
17ABC	IEFAB4EB	IEFAB4EB
17AC4	IEFAB4DC	IEFAB4DC
17BD4	GSPACE	IEFAB4F6
19084	FSPACE	IEFAB4F6
1948C	GSPACE1	IEFAB4F6
1A054	IEFAB4F7	IEFAB4F7
1A05C	IEFAB4SF	IEFAB4SF
1A164	GSPACE1	IEFAB4F6
1A4A0	IEFAB428	IEFAB428
1A578	GSPACE	IEFAB4F6
1AF28	FSPACE	IEFAB4F6
1AF60	IEFAB426	IEFAB426
1B02C	GSPACE1	IEFAB4F6
1B8D0	GSPACE	IEFAB4F6
1BE58	FSPACE	IEFAB4F6
1BF60	GSPACE	IEFAB4F6
1C160	FSPACE	IEFAB4F6
1C3E8	GSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
1C3EC	GSPACE1	IEFAB4F6
1C8CC	IEFAB433	IEFAB433
1C968	GSPACE	IEFAB4F6
1CED0	FSPACE	IEFAB4F6
1D0B8	IEFAB434	IEFAB434
1E038	GSPACE	IEFAB4F6
1ECE8	FSPACE	IEFAB4F6
1EF04	IEFAB440	IEFAB440
1EF0C	IEFAB434	IEFAB434
1F03C	GSPACE1	IEFAB4F6
1F330	GSPACE	IEFAB4F6
1F538	FSPACE	IEFAB4F6
2003C	GSPACE1	IEFAB4F6
20920	IEFAB428	IEFAB428
20928	IEFAB435	IEFAB435
20A48	GSPACE	IEFAB4F6
21528	FSPACE	IEFAB4F6
21578	IEFAB4FC	IEFAB4FC
21674	GSPACE1	IEFAB4F6
23038	GSPACE	IEFAB4F6
23894	FSPACE	IEFAB4F6
23D64	IEFAB4E0	IEFAB4E0
23D6C	IEFAB49C	IEFAB49C
23E90	GSPACE	IEFAB4F6
24620	FSPACE	IEFAB4F6
24684	IEFAB442	IEFAB442
24748	GSPACE	IEFAB4F6
24A58	FSPACE	IEFAB4F6
24A98	IEFAB4F2	IEFAB4F2
24B0C	GSPACE1	IEFAB4F6
24CE0	FSPACE	IEFAB4F6
2521C	IEFAB441	IEFAB441
252CC	GSPACE	IEFAB4F6
263F0	FSPACE	IEFAB4F6
26438	IEFAB4FA	IEFAB4FA
26440	IEFAB4F3	IEFAB4F3
26448	IEFAB4EE	IEFAB4EE
2644C	PVTMSG	IEFAB4M7
266D4	GSPACE1	IEFAB4F6
268B8	GSPACE	IEFAB4F6
269E0	FSPACE	IEFAB4F6
27040	GSPACE	IEFAB4F6
27BBC	FSPACE	IEFAB4F6
27C6C	IEFAB473	IEFAB473
27C74	IEFAB4FA	IEFAB4FA
28040	GSPACE1	IEFAB4F6
284FC	FSPACE	IEFAB4F6
28834	FSPACE	IEFAB4F6
28B6C	FSPACE	IEFAB4F6
2A03C	GSPACE1	IEFAB4F6
2A554	IEFAB493	IEFAB493
2A55C	IEFAB4F8	IEFAB4F8

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
1C8AC	FSPACE	IEFAB4F6
1C8D0	IEFAB436	IEFAB436
1C96C	GSPACE1	IEFAB4F6
1CF04	FSPACE	IEFAB4F6
1D0BC	IEFAB442	IEFAB442
1E03C	GSPACE1	IEFAB4F6
1EF00	IEFAB4F0	IEFAB4F0
1EF08	IEFAB442	IEFAB442
1F038	GSPACE	IEFAB4F6
1F294	FSPACE	IEFAB4F6
1F334	GSPACE1	IEFAB4F6
20038	GSPACE	IEFAB4F6
208F0	FSPACE	IEFAB4F6
20924	IEFAB432	IEFAB432
2092C	IEFAB4F2	IEFAB4F2
20A4C	GSPACE1	IEFAB4F6
21574	IEFAB4E9	IEFAB4E9
21670	GSPACE	IEFAB4F6
21EA4	FSPACE	IEFAB4F6
2303C	GSPACE1	IEFAB4F6
238C0	FSPACE	IEFAB4F6
23D68	IEFAB4E6	IEFAB4E6
23D70	IEFAB441	IEFAB441
23E94	GSPACE1	IEFAB4F6
24680	IEFAB434	IEFAB434
24688	IEFAB49C	IEFAB49C
2474C	GSPACE1	IEFAB4F6
24A94	IEFAB428	IEFAB428
24B08	GSPACE	IEFAB4F6
24CAC	FSPACE	IEFAB4F6
25218	IEFAB434	IEFAB434
25220	IEFAB4F2	IEFAB4F2
252D0	GSPACE1	IEFAB4F6
26434	IEFAB492	IEFAB492
2643C	IEFAB4FD	IEFAB4FD
26444	IEFAB421	IEFAB421
26450	IEFAB4A0	IEFAB4A0
266D0	GSPACE	IEFAB4F6
2681C	FSPACE	IEFAB4F6
268BC	GSPACE1	IEFAB4F6
26A08	IEEAB400	IEEAB400
27044	GSPACE1	IEFAB4F6
27C68	IEFAB472	IEFAB472
27C70	IEFAB475	IEFAB475
2803C	GSPACE	IEFAB4F6
2833C	FSPACE	IEFAB4F6
2869C	FSPACE	IEFAB4F6
289F4	FSPACE	IEFAB4F6
2A038	GSPACE	IEFAB4F6
2A510	FSPACE	IEFAB4F6
2A558	IEFAB4E0	IEFAB4E0
2A560	IEFAB4F9	IEFAB4F9

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
2A564	IEFXVNSL	IEFXVNSL
2A548	IEF503I	IEFAB4M5
2A550	IEFSGOPT	IEFSGOPT
2A904	GSPACE1	IEFAB4F6
2AB28	GSPACE	IEFAB4F6
2ACF8	FSPACE	IEFAB4F6
2ADA4	GSPACE1	IEFAB4F6
2B510	IEFAB433	IEFAB433
2B518	IEFAB476	IEFAB476
2B5C8	GSPACE	IEFAB4F6
2B7E0	FSPACE	IEFAB4F6
2B80C	IEFAB477	IEFAB477
2B814	IEFAB478	IEFAB478
2B874	GSPACE1	IEFAB4F6
2D038	GSPACE	IEFAB4F6
2D500	FSPACE	IEFAB4F6
2D5B0	GSPACE	IEFAB4F6
2DFD8	FSPACE	IEFAB4F6
2E048	IEFAB49A	IEFAB49A
2E050	IEFAB4FA	IEFAB4FA
2E058	IEFAB4F0	IEFAB4F0
2E194	GSPACE1	IEFAB4F6
2E47C	IEFAB494	IEFAB494
2E484	IEFAB496	IEFAB496
2E48C	IEFAB4ED	IEFAB4ED
2F03C	GSPACE1	IEFAB4F6
2F724	IEFAB4E0	IEFAB4E0
2F72C	IEFAB499	IEFAB499
2F818	GSPACE	IEFAB4F6
30118	FSPACE	IEFAB4F6
30180	IEFAB498	IEFAB498
30188	IEFAB4E0	IEFAB4E0
30174	MTREPLYM	IEFAB4M4
3017C	SCRATCH	IEFAB4M4
31048	GSPACE1	IEFAB4F6
325B0	IEEAB401	IEEAB401
325B8	IEFAB4ED	IEFAB4ED
325C0	IEFAB4FD	IEFAB4FD
325C8	IEFAB4F3	IEFAB4F3
325D0	IEFAB4F7	IEFAB4F7
325D8	IEFBB412	IEFBB412
325E0	IEFBB416	IEFBB416
32618	IEEAB400	IEEAB400
325E8	B410MOFT	IEFBB4M5
325F0	JOBENDED	IEFBB4M4
325F8	LOGGDOFF	IEFBB4M4
32600	PGMCFAIL	IEFBB4M4
32608	STNOTRUN	IEFBB4M4
32610	UNERRMSG	IEFBB4M4
327D0	GSPACE	IEFAB4F6
32914	FSPACE	IEFAB4F6
329AC	GSPACE1	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
2A544	IEF502I	IEFAB4M5
2A54C	IEF510I	IEFAB4M5
2A900	GSPACE	IEFAB4F6
2AA94	FSPACE	IEFAB4F6
2AB2C	GSPACE1	IEFAB4F6
2ADA0	GSPACE	IEFAB4F6
2B4B0	FSPACE	IEFAB4F6
2B514	IEFAB436	IEFAB436
2B51C	IEFAB479	IEFAB479
2B5CC	GSPACE1	IEFAB4F6
2B808	IEFAB480	IEFAB480
2B810	IEFAB474	IEFAB474
2B870	GSPACE	IEFAB4F6
2BFD0	FSPACE	IEFAB4F6
2D03C	GSPACE1	IEFAB4F6
2D520	IEFAB481	IEFAB481
2D5B4	GSPACE1	IEFAB4F6
2E044	IEFAB493	IEFAB493
2E04C	IEFAB4A0	IEFAB4A0
2E054	IEFAB498	IEFAB498
2E190	GSPACE	IEFAB4F6
2E45C	FSPACE	IEFAB4F6
2E480	IEFAB495	IEFAB495
2E488	IEFAB4E2	IEFAB4E2
2F038	GSPACE	IEFAB4F6
2F644	FSPACE	IEFAB4F6
2F728	IEFAB4F3	IEFAB4F3
2F720	VVUNLMSG	IEFAB4M4
2F81C	GSPACE1	IEFAB4F6
30170	IEFAB4F3	IEFAB4F3
30184	IEFAB499	IEFAB499
3016C	VVMNTMSG	IEFAB4M4
30178	PRIVAT	IEFAB4M4
31044	GSPACE	IEFAB4F6
32398	FSPACE	IEFAB4F6
325B4	IEFAB4DD	IEFAB4DD
325BC	IEFAB4FC	IEFAB4FC
325C4	IEFAB4FE	IEFAB4FE
325CC	IEFAB4F4	IEFAB4F4
325D4	IEFTB721	IEFTB721
325DC	IEFBB414	IEFBB414
325E4	IEFRPREP	IEFRPREP
325AC	B410MSGT	IEFBB4M5
325EC	CCFAIL	IEFBB4M4
325F4	JOBFAILD	IEFBB4M4
325FC	PGMABEND	IEFBB4M4
32604	STEPRUN	IEFBB4M4
3260C	STNOAUTO	IEFBB4M4
32614	WTOABEND	IEFBB4M4
327D4	GSPACE1	IEFAB4F6
329A8	GSPACE	IEFAB4F6
32E10	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
32E30	IEFAB4A0	IEFAB4A0
32EAC	GSPACE	IEFAB4F6
3406C	FSPACE	IEFAB4F6
340D8	IEFAB4EB	IEFAB4EB
340E0	IEFAB4F3	IEFAB4F3
340E8	IEFAB49C	IEFAB49C
34228	GSPACE	IEFAB4F6
348D0	FSPACE	IEFAB4F6
34910	IEFAB4E7	IEFAB4E7
34918	IEFAB4UV	IEFAB4UV
34AFC	GSPACE1	IEFAB4F6
357D4	IEEAB401	IEEAB401
357DC	IEFAB4A2	IEFAB4A2
357E4	IEFAB4A6	IEFAB4A6
357EC	IEFAB4DE	IEFAB4DE
357F4	IEFAB4FC	IEFAB4FC
3603C	GSPACE	IEFAB4F6
36E00	FSPACE	IEFAB4F6
374A0	IEFAB4A3	IEFAB4A3
374A8	IEFAB4B2	IEFAB4B2
37620	GSPACE	IEFAB4F6
37CF0	FSPACE	IEFAB4F6
38204	IEFAB4F7	IEFAB4F7
3903C	GSPACE1	IEFAB4F6
39CA8	IEFAB49C	IEFAB49C
39CB0	IEFAB4F7	IEFAB4F7
39DAC	GSPACE1	IEFAB4F6
3A568	IEFAB4F7	IEFAB4F7
3A62C	GSPACE1	IEFAB4F6
3B7C0	IEFYS	IEFTB723
3BD58	GSPACE	IEFAB4F6
3C3C0	FSPACE	IEFAB4F6
3C488	IEFTB722	IEFTB722
3C55C	GSPACE1	IEFAB4F6
3D0DC	IEF373I	IEFTB720
3D0E4	IEF375I	IEFTB720
3D0EC	IEEAB400	IEEAB400
3D738	IEEAB400	IEEAB400
3D740	IEFBB414	IEFBB414
3D748	UNAESTAE	IEFAB4M5
3DBB4	IEFAB4A4	IEFAB4A4
3DC50	GSPACE	IEFAB4F6
3DDF4	FSPACE	IEFAB4F6
3E074	IEFAB49A	IEFAB49A
3E1FC	IEEAB400	IEEAB400
3E460	IEFAB4FA	IEFAB4FA
3E8D4	IEFAB49A	IEFAB49A
3EB50	IEFAB4F4	IEFAB4F4
3EBE4	GSPACE1	IEFAB4F6
3ED08	IEFAB4F7	IEFAB4F7
3F1F8	GSPACE	IEFAB4F6
3F5D0	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
32E34	IEFAB4EE	IEFAB4EE
32EB0	GSPACE1	IEFAB4F6
340D4	IEFAB4A0	IEFAB4A0
340DC	IEFAB4EC	IEFAB4EC
340E4	IEFAB4F7	IEFAB4F7
340EC	RLSEHDR	IEFBB4M4
3422C	GSPACE1	IEFAB4F6
3490C	IEFAB4ED	IEFAB4ED
34914	IEFAB4FA	IEFAB4FA
34AF8	GSPACE	IEFAB4F6
35788	FSPACE	IEFAB4F6
357D8	IEFAB49C	IEFAB49C
357E0	IEFAB4A4	IEFAB4A4
357E8	IEFAB4A8	IEFAB4A8
357F0	IEFAB4ED	IEFAB4ED
357F8	IEFAB4F4	IEFAB4F4
36040	GSPACE1	IEFAB4F6
36E2C	FSPACE	IEFAB4F6
374A4	IEFAB4B0	IEFAB4B0
374AC	IEFAB4SF	IEFAB4SF
37624	GSPACE1	IEFAB4F6
37D28	FSPACE	IEFAB4F6
39038	GSPACE	IEFAB4F6
39AC4	FSPACE	IEFAB4F6
39CAC	IEFAB4FA	IEFAB4FA
39DA8	GSPACE	IEFAB4F6
3A4FC	FSPACE	IEFAB4F6
3A628	GSPACE	IEFAB4F6
3AAEC	FSPACE	IEFAB4F6
3BCC8	IEFYRCDS	IEFYRCDS
3BD5C	GSPACE1	IEFAB4F6
3C484	IEFACTRT	IEFACTRT
3C558	GSPACE	IEFAB4F6
3CBCC	FSPACE	IEFAB4F6
3D0E0	IEF374I	IEFTB720
3D0E8	IEF376I	IEFTB720
3D3C4	IEEAB402	IEEAB400
3D73C	IEEAB401	IEEAB401
3D744	IEFBB416	IEFBB416
3DBB0	IEFAB4A0	IEFAB4A0
3DBB8	IEFAB4FA	IEFAB4FA
3DC54	GSPACE1	IEFAB4F6
3E070	IEFAB498	IEFAB498
3E1F8	IEFAB4F7	IEFAB4F7
3E1F4	ALCESTAE	IEFAB4M5
3E8D0	IEFAB4FA	IEFAB4FA
3E8D8	IEFAB498	IEFAB498
3EBE0	GSPACE	IEFAB4F6
3ECEC	FSPACE	IEFAB4F6
3F108	IEFAB4E3	IEFAB4E3
3F1FC	GSPACE1	IEFAB4F6
3F600	ABENDHDR	IEFAB4M7

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
3F604	ALOCHDR	IEFAB4M7
3F60C	IEFAB4FD	IEFAB4FD
3F6B0	GSPACE	IEFAB4F6
3FC2C	FSPACE	IEFAB4F6
3FCFC	GSPACE1	IEFAB4F6
3FE20	GSPACE	IEFAB4F6
40414	FSPACE	IEFAB4F6
4044C	IEFAB4EA	IEFAB4EA
40454	IEFAB4EF	IEFAB4EF
4052C	GSPACE1	IEFAB4F6
40DB0	IDACAT11	IDACAT11
40DB8	IEFAB4ED	IEFAB4ED
40DC0	IEFAB4F4	IEFAB4F4
40ED4	GSPACE1	IEFAB4F6
411E4	IEEAB401	IEEAB401
41270	GSPACE	IEFAB4F6
413AC	FSPACE	IEFAB4F6
42718	GSPACE	IEFAB4F6
42CE8	FSPACE	IEFAB4F6
44290	GSPACE	IEFAB4F6
44684	FSPACE	IEFAB4F6
446B4	IEFAB4F7	IEFAB4F7
4472C	GSPACE1	IEFAB4F6
44AA0	IEFAB469	IEFAB469
44AA8	IEFAB466	IEFAB466
44B2C	GSPACE1	IEFAB4F6
44F90	IEFAB469	IEFAB469
45020	GSPACE	IEFAB4F6
4579C	FSPACE	IEFAB4F6
457E8	IEFAB4F7	IEFAB4F7
4589C	GSPACE1	IEFAB4F6
45A78	GSPACE	IEFAB4F6
45E4C	FSPACE	IEFAB4F6
45E88	IEFDB4FD	IEFDB4FD
45F0C	GSPACE1	IEFAB4F6
46814	IEFAB4F5	IEFAB4F5
4681C	IEFAB466	IEFAB466
468F4	GSPACE1	IEFAB4F6
47470	IEFAB481	IEFAB481
47580	GSPACE	IEFAB4F6
479C8	FSPACE	IEFAB4F6
47B98	GSPACE	IEFAB4F6
483A4	FSPACE	IEFAB4F6
483F8	IEFAB49C	IEFAB49C
484CC	GSPACE1	IEFAB4F6
48838	FSPACE	IEFAB4F6
4904C	IEFAB434	IEFAB434
4913C	GSPACE1	IEFAB4F6
49D7C	IEFAB4F0	IEFAB4F0
49D84	IEFAB434	IEFAB434
49E80	GSPACE	IEFAB4F6
49F9C	FSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
3F608	ALOCMSG	IEFAB4M7
3F610	IEFAB4F3	IEFAB4F3
3F6B4	GSPACE1	IEFAB4F6
3FCF8	GSPACE	IEFAB4F6
3FD7C	FSPACE	IEFAB4F6
3FE24	GSPACE1	IEFAB4F6
40448	IDACAT12	IDACAT12
40450	IEFAB4ED	IEFAB4ED
40528	GSPACE	IEFAB4F6
40D74	FSPACE	IEFAB4F6
40DB4	IEFAB4EA	IEFAB4EA
40DBC	IEFAB4EF	IEFAB4EF
40ED0	GSPACE	IEFAB4F6
40FD4	FSPACE	IEFAB4F6
411E8	IEEAB403	IEEAB401
41274	GSPACE1	IEFAB4F6
41610	IEFAB4ED	IEFAB4ED
4271C	GSPACE1	IEFAB4F6
441CC	IGGPCORR	IDACAT11
44294	GSPACE1	IEFAB4F6
446B0	IEFAB4EB	IEFAB4EB
44728	GSPACE	IEFAB4F6
44A84	FSPACE	IEFAB4F6
44AA4	IEFAB461	IEFAB461
44B28	GSPACE	IEFAB4F6
44F50	FSPACE	IEFAB4F6
44F94	IEFAB4F7	IEFAB4F7
45024	GSPACE1	IEFAB4F6
457E4	IEFAB469	IEFAB469
45898	GSPACE	IEFAB4F6
45A00	FSPACE	IEFAB4F6
45A7C	GSPACE1	IEFAB4F6
45E84	IEFAB4F7	IEFAB4F7
45F08	GSPACE	IEFAB4F6
467C4	FSPACE	IEFAB4F6
46818	IEFAB455	IEFAB455
468F0	GSPACE	IEFAB4F6
473E4	FSPACE	IEFAB4F6
47474	IEFAB4FA	IEFAB4FA
47584	GSPACE1	IEFAB4F6
47B14	IEFAB481	IEFAB481
47B9C	GSPACE1	IEFAB4F6
483F4	IEFAB4A0	IEFAB4A0
484C8	GSPACE	IEFAB4F6
4880C	FSPACE	IEFAB4F6
49048	IEFAB440	IEFAB440
49138	GSPACE	IEFAB4F6
49C68	FSPACE	IEFAB4F6
49D80	IEFAB433	IEFAB433
49D88	IEFAB442	IEFAB442
49E84	GSPACE1	IEFAB4F6
4A00C	GSPACE	IEFAB4F6

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
4A010	GSPACE1	IEFAB4F6
4A8BC	FSPACE	IEFAB4F6
4ACE8	IEFAB436	IEFAB436
4ACF0	IEFAB479	IEFAB479
4ACF8	IEFAB481	IEFAB481
4AD00	IEFAB4FA	IEFAB4FA
4ADF4	GSPACE	IEFAB4F6
4BC50	FSPACE	IEFAB4F6
4BD14	IEFAB474	IEFAB474
4BD1C	IEFAB478	IEFAB478
4BD24	IEFAB481	IEFAB481
4BD2C	IEFAB487	IEFAB487
4BE48	GSPACE1	IEFAB4F6
4C7E8	IEFAB4F3	IEFAB4F3
4C7F0	IEFAB48A	IEFAB48A
4C7D0	HDR2OFFS	IEFAB4M9
4C7D8	RPLYWAIT	IEFAB4M9
4C7E0	SWMSGOFS	IEFAB4M9
4C7F4	SWMSGOPS	IEFAB4M9
4C8F4	GSPACE1	IEFAB4F6
4D328	IEFAB4F3	IEFAB4F3
4D330	IEFAB489	IEFAB489
4D338	INVRMSG	IEFAB4M9
4D340	RMSGID	IEFAB4M9
4D348	IEFAB434	IEFAB434
4D478	GSPACE1	IEFAB4F6
4E1D8	IEFAB434	IEFAB434
4E1E0	IEFAB480	IEFAB480
4E2EC	GSPACE1	IEFAB4F6
4EB2C	IEFAB4F3	IEFAB4F3
4EB34	IEFAB489	IEFAB489
4EB24	OFLMSGID	IEFAB4M9
4EB38	OFLMSGGS	IEFAB4M9
4EBEC	GSPACE1	IEFAB4F6
4F4CC	IEFAB478	IEFAB478
4F4D4	IEFAB480	IEFAB480
4F4DC	IEFAB4FA	IEFAB4FA
4F5C4	GSPACE1	IEFAB4F6
4FB24	IEFAB498	IEFAB498
4FB2C	IEFAB49A	IEFAB49A
4FB20	VERINVLD	IEFAB4M4
4FBC4	GSPACE1	IEFAB4F6
4FE18	IEFAB4E1	IEFAB4E1
4FE94	GSPACE1	IEFAB4F6
50438	FSPACE	IEFAB4F6
5062C	ATTROTAB	IEFAB4M4
50634	ACTION	IEFAB4M4
506E8	GSPACE	IEFAB4F6
50B70	FSPACE	IEFAB4F6
50C28	GSPACE	IEFAB4F6
51268	FSPACE	IEFAB4F6
5133C	IEFAB4F8	IEFAB4F8

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
4A890	FSPACE	IEFAB4F6
4ACE4	IEFAB433	IEFAB433
4ACEC	IEFAB476	IEFAB476
4ACF4	IEFAB477	IEFAB477
4ACFC	IEFAB486	IEFAB486
4AD04	IEFAB49C	IEFAB49C
4ADF8	GSPACE1	IEFAB4F6
4BD10	IEFAB4FA	IEFAB4FA
4BD18	IEFAB477	IEFAB477
4BD20	IEFAB480	IEFAB480
4BD28	IEFAB441	IEFAB441
4BE44	GSPACE	IEFAB4F6
4C5AC	FSPACE	IEFAB4F6
4C7EC	IEFAB488	IEFAB488
4C7CC	HDRMSG1	IEFAB4M9
4C7D4	INVWTMSG	IEFAB4M9
4C7DC	SWMSGID	IEFAB4M9
4C7E4	HDRMSG2	IEFAB4M9
4C8F0	GSPACE	IEFAB4F6
4D28C	FSPACE	IEFAB4F6
4D32C	IEFAB480	IEFAB480
4D334	RPLYOPTS	IEFAB4M9
4D33C	INVROPT	IEFAB4M9
4D344	RPLYOFFS	IEFAB4M9
4D474	GSPACE	IEFAB4F6
4D94C	FSPACE	IEFAB4F6
4E1DC	IEFAB440	IEFAB440
4E2E8	GSPACE	IEFAB4F6
4E928	FSPACE	IEFAB4F6
4EB30	IEFAB488	IEFAB488
4EB20	OFLHDR	IEFAB4M9
4EB28	OFLMOFS	IEFAB4M9
4EBE8	GSPACE	IEFAB4F6
4F458	FSPACE	IEFAB4F6
4F4D0	IEFAB479	IEFAB479
4F4D8	IEFAB49C	IEFAB49C
4F5C0	GSPACE	IEFAB4F6
4FAF0	FSPACE	IEFAB4F6
4FB28	IEFAB499	IEFAB499
4FB30	IEFAB49B	IEFAB49B
4FBC0	GSPACE	IEFAB4F6
4FDFC	FSPACE	IEFAB4F6
4FE90	GSPACE	IEFAB4F6
50404	FSPACE	IEFAB4F6
50638	ATTRIBUTE	IEFAB4M4
50630	CNDMTMSG	IEFAB4M4
5063C	MSGNO	IEFAB4M4
506EC	GSPACE1	IEFAB4F6
50BA0	IEFAB498	IEFAB498
50C2C	GSPACE1	IEFAB4F6
51338	IEFAB493	IEFAB493
51340	IEFAB4F3	IEFAB4F3

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
51344	VMVERMSG	IEFAB4M4
51434	GSPACE1	IEFAB4F6
51510	IEFAB493	IEFAB493
51580	GSPACE	IEFAB4F6
51924	FSPACE	IEFAB4F6
51954	IEFAB4F4	IEFAB4F4
5195C	IEFAB428	IEFAB428
519D4	GSPACE1	IEFAB4F6
51D88	IEFAB4FD	IEFAB4FD
51D8C	DSPIDTAB	IEFAB4M6
51D94	VLINENT	IEFAB4M6
51EE4	GSPACE1	IEFAB4F6
52254	IEFAB4FD	IEFAB4FD
52258	DSPIDTAB	IEFAB4M6
52260	VLINENT	IEFAB4M6
522FC	GSPACE1	IEFAB4F6
52558	IEFDB418	IEFDB418

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
51430	GSPACE	IEFAB4F6
514F4	FSPACE	IEFAB4F6
51514	IEFAB4E0	IEFAB4E0
51584	GSPACE1	IEFAB4F6
51950	IEFAB4FC	IEFAB4FC
51958	IEFAB4F5	IEFAB4F5
519D0	GSPACE	IEFAB4F6
51CA4	FSPACE	IEFAB4F6
51D84	DSPTAB	IEFAB4M6
51D90	MSGIDTAB	IEFAB4M6
51EE0	GSPACE	IEFAB4F6
52170	FSPACE	IEFAB4F6
52250	DSPTAB	IEFAB4M6
5225C	MSGIDTAB	IEFAB4M6
522F8	GSPACE	IEFAB4F6
5239C	FSPACE	IEFAB4F6

ENTRY ADDRESS FEC0

TOTAL LENGTH 53408

HMA4240 HMASMP EXEC PARM = 'DATE=U'
REJECT SELECT(JLM0001) .

HMA4081 SYSMOD JLM0001 NOT APPLIED OR NOT ACCEPTED
HMA2270 REJECT PROCESSING SUCCESSFULLY COMPLETED FOR SYSMOD JLM0001
HMA2050 REJECT PROCESSING COMPLETED - HIGHEST RETURN CODE IS 04

RESETRC .
HMA2050 RESETRC PROCESSING COMPLETED - HIGHEST RETURN CODE IS 00

RECEIVE
SELECT(JLM0001)
.

-----++USERMOD (JLM0001)
----- .

-----++VER (Z038)
----- FMID(EBB1102)
----- .

-----++MOD(IEFACTRT)
----- TXLIB(UMODOBJ)
----- .

HMA3930 SYSMOD JLM0001 SUCCESSFULLY RECEIVED

RECEIVE SUMMARY REPORT

SYSMOD	STATUS	TYPE	-----
JLM0001	RECEIVED	USERMOD	

HMA2050 RECEIVE PROCESSING COMPLETED - HIGHEST RETURN CODE IS 00

APPLY

SELECT(JLM0001)
DIS(WRITE)

HMA4140 SMPDCS DIRECTORY SUCCESSFULLY LOADED FOR IN-STORAGE UPDATE OPERATIONS

HMA2390 LINK SUCCESSFUL - MOD=IEFACTRT - LMOD=IEFW21SD - LIBRARY=LPALIB - SYSMOD=JLM0001 - RETURN CODE=00

HMA2270 APPLY PROCESSING SUCCESSFULLY COMPLETED FOR SYSMOD JLM0001

HMA3680 SMPDCS IN STORAGE DIRECTORY SUCCESSFULLY REWRITTEN

HMA2050 APPLY PROCESSING COMPLETED - HIGHEST RETURN CODE IS 00

SYSMOD STATUS REPORT FOR APPLY PROCESSING

NOTE: '-' INDICATES THE REQUISITE SYSMOD CONDITION IS NOT SATISFIED
'*' INDICATES THE NON SATISFIED REQUISITE SYSMOD CONDITION IS BYPASSED

SYSMOD	STATUS	TYPE	FMID	REQUISITE AND SUPEDBY SYSMODS
JLM0001	APPLIED	USERMOD	EBB1102	

ELEMENT SUMMARY REPORT FOR APPLY PROCESSING

ELEM TYPE	ELEMENT NAME	ELEM STATUS	CURRENT FMID	CURRENT RMID	MAC/SRC SYSLIB	DISTSRC LIBRARY	ASSEM NAMES	LOAD MOD	---LMOD	SYSLIB---	SYSMOD NAME	SYSMOD STATUS
MOD	IEFACTRT	APPLIED	EBB1102	JLM0001				IEFW21SD	LPALIB		JLM0001	APPLIED

HMA2050 HMASMP PROCESSING COMPLETED - HIGHEST RETURN CODE IS 04