

J E S 2 J O B L O G

9.46.28 JOB 5563 \$HASP373 LISTDSJ1 STARTED - INIT 1 - CLASS A - SYS BSP1
9.46.28 JOB 5563 IEF403I LISTDSJ1 - STARTED - TIME=09.46.28
9.46.28 JOB 5563 IEFACRT - Stepname Procstep Program Retcode
9.46.28 JOB 5563 LISTDSJ1 ASM IFOX00 RC= 0000
9.46.28 JOB 5563 LISTDSJ1 LKED IEWL RC= 0000
9.46.28 JOB 5563 DYNABLDL STOPPED
9.46.28 JOB 5563 LISTDSJ1 DBSTOP IEFPROC DYNABLDL RC= 0000
9.46.28 JOB 5563 DYNABLDL STARTED
9.46.28 JOB 5563 LISTDSJ1 DBSTART IEFPROC DYNABLDL RC= 0000
9.46.28 JOB 5563 LISTDSJ1 ADDHELP IEBUPDTE RC= 0000
9.46.28 JOB 5563 LISTDSJ1 ADDCLST IEBUPDTE RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT1 STEP01 IKJEFT01 RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT2 STEP01 IKJEFT01 RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT3 STEP01 IKJEFT01 RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT4 STEP01 IKJEFT01 RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT5 STEP01 IKJEFT01 RC= 0000
9.46.29 JOB 5563 LISTDSJ1 VALDAT6 STEP01 IKJEFT01 RC= 0904
9.46.29 JOB 5563 IEF404I LISTDSJ1 - ENDED - TIME=09.46.29
9.46.29 JOB 5563 \$HASP395 LISTDSJ1 ENDED

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

07 MAY 19 JOB EXECUTION DATE

4,013 CARDS READ

8,718 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.02 MINUTES EXECUTION TIME

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1 //LISTDSJ1 JOB (SYS),'Install LISTDSJ TSO',CLASS=A, JOB 5563
*** ** LENOVO2IN1: SUBMVS submitted
*** ** M:\$myMainframe\$submit_work\SUBMIT_LISTDSJ1_JOB09772.JCL
*** ** from source file (len=51):
*** ** m:\$myMainframe\$LARRY_MVS_CNTL\LISTDSJ_$inst01.JCL
//      MSGCLASS=A,MSGLEVEL=(1,1)
*** -----*
*** * LISTDSJ for MVS3.8J / Hercules *
*** * *
*** * Install and Validate LISTDSJ TSO Components *
*** * - Review JOB card per your system requirements *
*** * - LISTDSJ program installs to SYS2.CMDLIB *
*** * - LISTDSJ help installs to SYS2.HELP *
*** * - CLISTDSJ clist installs to SYS2.CMDPROC *
*** * - Validate LISTDSJ via BATCH TSO using CLISTDSJ *
*** * stored in SYS2.CMDPROC *
*** *
*** * NOTE: *
*** * ----- *
*** * Two user-mods, ZP60014 and ZP60038, are REQUIRED *
*** *
*** * If the above user-mods are not installed, a system *
*** * abend 806-4 will occur when LISTDSJ is executed. *
*** * Additionally, an error message will display on *
*** * your TSO session screen: *
*** * 'LISTDSJ 4098 -Cannot link to IKJCT441' *
*** *
*** * For more information, refer to the LISTDSJ program *
*** * documentation in this JCL jobstream. *
*** -----*

2 //ASM EXEC PGM=IFOX00,
//      PARM='NODECK,LOAD,RENT,TERM'
3 //SYSGO DD DSN=&&LOADSET,DISP=(MOD,PASS),SPACE=(CYL,(1,1)),
//      UNIT=VIO,DCB=(DSORG=PS,RECFM=FB,LRECL=80,BLKSIZE=800)
4 //SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
5 //      DD DSN=SYS1.AMODGEN,DISP=SHR
6 //      DD DSN=SYS2.MACLIB,DISP=SHR ** YREG **
7 //SYSTEM DD SYSOUT=*
8 //SYSPRINT DD SYSOUT=*
9 //SYSPUNCH DD DSN=NULLFILE
10 //SYSUT1 DD UNIT=VIO,SPACE=(CYL,(6,1))
11 //SYSUT2 DD UNIT=VIO,SPACE=(CYL,(6,1))
12 //SYSUT3 DD UNIT=VIO,SPACE=(CYL,(6,1))
13 //SYSIN DD *
14 //LKED EXEC PGM=IEWL,PARM='MAP,LIST,LET,RENT,XREF',
//      COND=(0,NE,ASM)
15 //SYSLIN DD DSN=&&LOADSET,DISP=(OLD,DELETE)
16 //      DD DDNAME=SYSIN
17 //SYSLMOD DD DSN=SYS2.CMDLIB,DISP=SHR <--TARGET
18 //SYSPRINT DD SYSOUT=*
19 //SYSUT1 DD UNIT=VIO,SPACE=(CYL,(5,2))
20 //SYSIN DD *
*** -----*
*** *
*** * If SYSn.LINKLIB or SYSn.CMDLIB is updated *
*** *
*** -----*

21 //DBSTOP EXEC DBSTOP,
//      COND.IEFPROC=(0,NE,ASM)
22 XXIEFPROC EXEC PGM=DYNABLDL,REGION=100K,PARM=P 00000001
23 //DBSTART EXEC DBSTART,
//      COND.IEFPROC=(0,NE,ASM)

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*** -----*
*** *
*** * HELP PDS Member Installation (LISTDSJ) *
*** *
*** -----*
24 XXIEFPROC EXEC PGM=DYNABDL,REGION=100K 00000001
25 //ADDHELP EXEC PGM=IEBUPDTE,PARM=NEW,
// COND=(0,NE,ASM)
26 //SYSPRINT DD SYSOUT=*
27 //SYSUT2 DD DSN=SYS2.HELP,DISP=SHR <--TARGET
28 //SYSIN DD DATA,DLM='><'
*** -----*
*** *
*** * CLIST PDS Member Installation (CLISTDSJ) *
*** *
*** -----*
29 //ADDCLST EXEC PGM=IEBUPDTE,PARM=NEW,
// COND=(0,NE,ASM)
30 //SYSPRINT DD SYSOUT=*
31 //SYSUT2 DD DSN=SYS2.CMDPROC,DISP=SHR <--TARGET
32 //SYSIN DD DATA,DLM='><'
*** -----*
*** *
*** * LISTDSJ validation using BATCH TSO and CLISTDSJ *
*** *
*** * NOTE: *
*** * ----- *
*** * Two user-mods, ZP60014 and ZP60038, are REQUIRED *
*** *
*** * If the above user-mods are not installed, a system *
*** * abend 806-4 will occur when LISTDSJ is executed. *
*** * Additionally, an error message will display on *
*** * your TSO session screen: *
*** * 'LISTDSJ 4098 -Cannot link to IKJCT441' *
*** *
*** * For more information, refer to the LISTDSJ program *
*** * documentation above in this JCL jobstream. *
*** *
*** -----*
//BATHTSO PROC
//STEP01 EXEC PGM=IKJEFT01
//SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC <--TARGET
//SYSPRINT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD DUMMY Command Line Input
// PEND
***
33 //VALDAT1 EXEC BATHTSO,
// COND.STEP01=(0,NE,ASM)
34 ++BATHTSO PROC
35 ++STEP01 EXEC PGM=IKJEFT01
36 ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC <--TARGET
37 ++SYSPRINT DD SYSOUT=*
38 ++SYSTSPRT DD SYSOUT=*
39 //STEP01.SYSTSIN DD *
+/SYSTSIN DD DUMMY Command Line Input
40 //VALDAT2 EXEC BATHTSO,
// COND.STEP01=(0,NE,ASM)
41 ++BATHTSO PROC
42 ++STEP01 EXEC PGM=IKJEFT01
43 ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC <--TARGET
44 ++SYSPRINT DD SYSOUT=*
45 ++SYSTSPRT DD SYSOUT=*
46 //STEP01.SYSTSIN DD *

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47  +/SYSTSIN DD DUMMY          Command Line Input
    //VALDAT3 EXEC BATCHTSO,
    //          COND.STEP01=(0,NE,ASM)

48  ++BATCHTSO PROC
49  ++STEP01 EXEC PGM=IKJEFT01
50  ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC          <--TARGET
51  ++SYSPRINT DD SYSOUT=*
52  ++SYSTSPRT DD SYSOUT=*
53  //STEP01.SYSTSIN DD *
    +/SYSTSIN DD DUMMY          Command Line Input
54  //VALDAT4 EXEC BATCHTSO,
    //          COND.STEP01=(0,NE,ASM)

55  ++BATCHTSO PROC
56  ++STEP01 EXEC PGM=IKJEFT01
57  ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC          <--TARGET
58  ++SYSPRINT DD SYSOUT=*
59  ++SYSTSPRT DD SYSOUT=*
60  //STEP01.SYSTSIN DD *
    +/SYSTSIN DD DUMMY          Command Line Input
61  //VALDAT5 EXEC BATCHTSO,
    //          COND.STEP01=(0,NE,ASM)

62  ++BATCHTSO PROC
63  ++STEP01 EXEC PGM=IKJEFT01
64  ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC          <--TARGET
65  ++SYSPRINT DD SYSOUT=*
66  ++SYSTSPRT DD SYSOUT=*
67  //STEP01.SYSTSIN DD *
    +/SYSTSIN DD DUMMY          Command Line Input
68  //VALDAT6 EXEC BATCHTSO,
    //          COND.STEP01=(0,NE,ASM)

69  ++BATCHTSO PROC
70  ++STEP01 EXEC PGM=IKJEFT01
71  ++SYSPROC DD DISP=SHR,DSN=SYS2.CMDPROC          <--TARGET
72  ++SYSPRINT DD SYSOUT=*
73  ++SYSTSPRT DD SYSOUT=*
74  //STEP01.SYSTSIN DD *
    +/SYSTSIN DD DUMMY          Command Line Input
    //
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IEF236I ALLOC. FOR LISTDSJ1 ASM
IEF237I VIO  ALLOCATED TO SYSGO
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I 248  ALLOCATED TO
IEF237I 148  ALLOCATED TO
IEF237I JES2 ALLOCATED TO SYSTEM
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY  ALLOCATED TO SYSPUNCH
IEF237I VIO  ALLOCATED TO SYSUT1
IEF237I VIO  ALLOCATED TO SYSUT2
IEF237I VIO  ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I LISTDSJ1 ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.LOADSET      PASSED      *-----16
IEF285I   SYS1.MACLIB                                KEPT          *-----95
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.AMODGEN                                KEPT          *-----26
IEF285I   VOL SER NOS= MVSDLB.
IEF285I   SYS2.MACLIB                                KEPT          *-----0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   JES2.JOB05563.S00111                        SYSOUT
IEF285I   JES2.JOB05563.S00112                        SYSOUT
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.R0000001    DELETED      *-----451
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.R0000002    DELETED      *-----84
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.R0000003    DELETED      *-----46
IEF285I   JES2.JOB05563.SI0101                        SYSIN
IEF373I STEP /ASM      / START 19127.0946
IEF374I STEP /ASM      / STOP 19127.0946 CPU      0MIN 00.44SEC SRB      0MIN 00.03SEC VIRT    768K SYS    416K
*****
*      1. Jobstep of job: LISTDSJ1      Stepname: ASM      Program name: IFOX00      Executed on 07.05.19 from 09.46.28 to 09.46.28 *
*      elapsed time 24:00:00,50      CPU-Identifier: BSP1      Page-in:      0 *
*      CPU time 00:00:00,47      Virtual Storage used: 768K      Page-out:      0 *
*      corr. CPU: 00:00:00,47      CPU time has been corrected by 1 / 1,0 multiplier *
* * * * *
*      I/O Operation *
*      Number of records read via DD * or DD DATA: 3453 *
*      FFF.....16 148.....95 248.....26 148.....0 DMY.....0 DMY.....0 DMY.....0 FFF.....451 FFF.....84 FFF.....46 *
*      DMY.....0 *
* * * * *
*      Charge for step (w/o SYSOUT): 0,78 *
*****
IEF236I ALLOC. FOR LISTDSJ1 LKED
IEF237I VIO  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO
IEF237I 240  ALLOCATED TO SYSLMOD
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I VIO  ALLOCATED TO SYSUT1
IEF142I LISTDSJ1 LKED - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.LOADSET      DELETED      *-----17
IEF285I   JES2.JOB05563.SI0102                        SYSIN
IEF285I   SYS2.CMDLIB                                KEPT          *-----10
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB05563.S00113                        SYSOUT
IEF285I   SYS19127.T094628.RA000.LISTDSJ1.R0000004    DELETED      *-----0
IEF373I STEP /LKED      / START 19127.0946
IEF374I STEP /LKED      / STOP 19127.0946 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT    260K SYS    252K
*****
*      2. Jobstep of job: LISTDSJ1      Stepname: LKED      Program name: IEWL      Executed on 07.05.19 from 09.46.28 to 09.46.28 *
*      elapsed time 24:00:00,02      CPU-Identifier: BSP1      Page-in:      0 *
*      CPU time 00:00:00,01      Virtual Storage used: 260K      Page-out:      0 *
*      corr. CPU: 00:00:00,01      CPU time has been corrected by 1 / 1,0 multiplier *
* * * * *
*      I/O Operation *
* * * * *
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*      Number of records read via DD * or DD DATA:      1      *
*      FFF.....17 DMY.....0 240.....10 DMY.....0 FFF.....0      *
*
*
*      Charge for step (w/o SYSOUT):      0,01      *
*****
IEF236I ALLOC. FOR LISTDSJ1 IEFPROC DBSTOP
DYNABLDL STOPPED
IEF142I LISTDSJ1 IEFPROC DBSTOP - STEP WAS EXECUTED - COND CODE 0000
IEF373I STEP /IEFPROC / START 19127.0946
IEF374I STEP /IEFPROC / STOP 19127.0946 CPU      0MIN 00.00SEC SRB      0MIN 00.00SEC VIRT      16K SYS      168K
IEF236I ALLOC. FOR LISTDSJ1 IEFPROC DBSTART
DYNABLDL STARTED
IEF142I LISTDSJ1 IEFPROC DBSTART - STEP WAS EXECUTED - COND CODE 0000
IEF373I STEP /IEFPROC / START 19127.0946
IEF374I STEP /IEFPROC / STOP 19127.0946 CPU      0MIN 00.00SEC SRB      0MIN 00.00SEC VIRT      16K SYS      168K
IEF236I ALLOC. FOR LISTDSJ1 ADDHELP
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 240 ALLOCATED TO SYSUT2
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I LISTDSJ1 ADDHELP - STEP WAS EXECUTED - COND CODE 0000
IEF285I JES2.JOB05563.S00114      SYSOUT
IEF285I SYS2.HELP      KEPT      *-----4
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB05563.SI0103      SYSIN
IEF373I STEP /ADDHELP / START 19127.0946
IEF374I STEP /ADDHELP / STOP 19127.0946 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT      48K SYS      192K
*****
*      5. Jobstep of job: LISTDSJ1      Stepname: ADDHELP      Program name: IEBUPDTE      Executed on 07.05.19 from 09.46.28 to 09.46.28      *
*      elapsed time 24:00:00,01      CPU-Identifier: BSP1      Page-in: 0      *
*      CPU time 00:00:00,01      Virtual Storage used: 48K      Page-out: 0      *
*      corr. CPU: 00:00:00,01      CPU time has been corrected by 1 / 1,0 multiplier      *
*
*      I/O Operation      *
*      Number of records read via DD * or DD DATA: 56      *
*      DMY.....0 240.....4 DMY.....0      *
*
*      Charge for step (w/o SYSOUT):      0,01      *
*****
IEF236I ALLOC. FOR LISTDSJ1 ADDCLST
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 195 ALLOCATED TO SYSUT2
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I LISTDSJ1 ADDCLST - STEP WAS EXECUTED - COND CODE 0000
IEF285I JES2.JOB05563.S00115      SYSOUT
IEF285I SYS2.CMDPROC      KEPT      *-----5
IEF285I VOL SER NOS= PUB005.
IEF285I JES2.JOB05563.SI0104      SYSIN
IEF373I STEP /ADDCLST / START 19127.0946
IEF374I STEP /ADDCLST / STOP 19127.0946 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT      48K SYS      192K
*****
*      6. Jobstep of job: LISTDSJ1      Stepname: ADDCLST      Program name: IEBUPDTE      Executed on 07.05.19 from 09.46.28 to 09.46.28      *
*      elapsed time 24:00:00,02      CPU-Identifier: BSP1      Page-in: 0      *
*      CPU time 00:00:00,01      Virtual Storage used: 48K      Page-out: 0      *
*      corr. CPU: 00:00:00,01      CPU time has been corrected by 1 / 1,0 multiplier      *
*
*      I/O Operation      *
*      Number of records read via DD * or DD DATA: 350      *
*      DMY.....0 195.....5 DMY.....0      *
*
*      Charge for step (w/o SYSOUT):      0,01      *
*****
IEF236I ALLOC. FOR LISTDSJ1 STEP01 VALDAT1
IEF237I 195 ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
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IEF237I 240 ALLOCATED TO SYS00001
IEF142I LISTDSJ1 STEP01 VALDAT1 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS2.CMDPROC                      KEPT          *-----8
IEF285I   VOL SER NOS= PUB005.
IEF285I   JES2.JOB05563.S00116             SYSOUT
IEF285I   JES2.JOB05563.S00117             SYSOUT
IEF285I   JES2.JOB05563.SI0105             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19127.0946
IEF374I STEP /STEP01 / STOP 19127.0946 CPU      0MIN 00.12SEC SRB      0MIN 00.00SEC VIRT   116K SYS   272K
*****
*      7. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 07.05.19 from 09.46.28 to 09.46.29 *
*      elapsed time 24:00:00,13                      CPU-Identifier:  BSP1                      Page-in:      0 *
*      CPU time 00:00:00,12                      Virtual Storage used:  116K                      Page-out:      0 *
*      corr. CPU: 00:00:00,12      CPU time has been corrected by 1 / 1,0 multiplier *
* *
*      I/O Operation *
*      Number of records read via DD * or DD DATA:      2 *
*      195.....8 DMY.....0 DMY.....0 DMY.....0 240.....0 *
* *
*      Charge for step (w/o SYSOUT):      0,20 *
*****
IEF236I ALLOC. FOR LISTDSJ1 STEP01 VALDAT2
IEF237I 195 ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
IEF237I 240 ALLOCATED TO SYS00002
IEF142I LISTDSJ1 STEP01 VALDAT2 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS2.CMDPROC                      KEPT          *-----8
IEF285I   VOL SER NOS= PUB005.
IEF285I   JES2.JOB05563.S00118             SYSOUT
IEF285I   JES2.JOB05563.S00119             SYSOUT
IEF285I   JES2.JOB05563.SI0106             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19127.0946
IEF374I STEP /STEP01 / STOP 19127.0946 CPU      0MIN 00.11SEC SRB      0MIN 00.00SEC VIRT   116K SYS   272K
*****
*      8. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 07.05.19 from 09.46.29 to 09.46.29 *
*      elapsed time 24:00:00,13                      CPU-Identifier:  BSP1                      Page-in:      0 *
*      CPU time 00:00:00,11                      Virtual Storage used:  116K                      Page-out:      0 *
*      corr. CPU: 00:00:00,11      CPU time has been corrected by 1 / 1,0 multiplier *
* *
*      I/O Operation *
*      Number of records read via DD * or DD DATA:      2 *
*      195.....8 DMY.....0 DMY.....0 DMY.....0 240.....0 *
* *
*      Charge for step (w/o SYSOUT):      0,18 *
*****
IEF236I ALLOC. FOR LISTDSJ1 STEP01 VALDAT3
IEF237I 195 ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
IEF237I 240 ALLOCATED TO SYS00003
IEF142I LISTDSJ1 STEP01 VALDAT3 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS2.CMDPROC                      KEPT          *-----8
IEF285I   VOL SER NOS= PUB005.
IEF285I   JES2.JOB05563.S00120             SYSOUT
IEF285I   JES2.JOB05563.S00121             SYSOUT
IEF285I   JES2.JOB05563.SI0107             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19127.0946

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IEF374I STEP /STEP01 / STOP 19127.0946 CPU      0MIN 00.10SEC SRB      0MIN 00.00SEC VIRT    116K SYS    276K
*****
*          9. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01   Executed on 07.05.19 from 09.46.29 to 09.46.29 *
*              elapsed time 24:00:00,11                      CPU-Identifiler: BSP1           Page-in:       0
*              CPU time 00:00:00,10                          Virtual Storage used: 116K           Page-out:       0
*              corr. CPU: 00:00:00,10 CPU time has been corrected by 1 / 1,0 multiplier
*
*          I/O Operation
*          Number of records read via DD * or DD DATA:      2
*          195.....8 DMY.....0 DMY.....0 DMY.....0 240.....0
*
*
*                                  Charge for step (w/o SYSOUT):        0,16
*****
IEF236I ALLOC. FOR LISTDSJ1 STEP01 VALDAT4
IEF237I 195  ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
IEF237I 240  ALLOCATED TO SYS00004
IEF237I 240  ALLOCATED TO SYS00005
IEF285I HERC01.TEST.CNTL                                KEPT                *-----21
IEF285I VOL SER NOS= PUB000.
IEF142I LISTDSJ1 STEP01 VALDAT4 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS2.CMDPROC                                    KEPT                *-----8
IEF285I VOL SER NOS= PUB005.
IEF285I JES2.JOB05563.S00122                            SYSOUT
IEF285I JES2.JOB05563.S00123                            SYSOUT
IEF285I JES2.JOB05563.SI0108                            SYSIN
IEF285I SYS1.UCAT.TS0                                    KEPT                *-----0
IEF285I VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19127.0946
IEF374I STEP /STEP01 / STOP 19127.0946 CPU      0MIN 00.11SEC SRB      0MIN 00.00SEC VIRT    116K SYS    276K
*****
*         10. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01   Executed on 07.05.19 from 09.46.29 to 09.46.29 *
*             elapsed time 24:00:00,13                      CPU-Identifiler: BSP1           Page-in:       0
*             CPU time 00:00:00,11                          Virtual Storage used: 116K           Page-out:       0
*             corr. CPU: 00:00:00,11 CPU time has been corrected by 1 / 1,0 multiplier
*
*         I/O Operation
*         Number of records read via DD * or DD DATA:      2
*         195.....8 DMY.....0 DMY.....0 DMY.....0 240.....0
*
*
*                                  Charge for step (w/o SYSOUT):        0,18
*****
IEF236I ALLOC. FOR LISTDSJ1 STEP01 VALDAT5
IEF237I 195  ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
IEF142I LISTDSJ1 STEP01 VALDAT5 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS2.CMDPROC                                    KEPT                *-----8
IEF285I VOL SER NOS= PUB005.
IEF285I JES2.JOB05563.S00124                            SYSOUT
IEF285I JES2.JOB05563.S00125                            SYSOUT
IEF285I JES2.JOB05563.SI0109                            SYSIN
IEF373I STEP /STEP01 / START 19127.0946
IEF374I STEP /STEP01 / STOP 19127.0946 CPU      0MIN 00.10SEC SRB      0MIN 00.00SEC VIRT    116K SYS    256K
*****
*         11. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01   Executed on 07.05.19 from 09.46.29 to 09.46.29 *
*             elapsed time 24:00:00,10                      CPU-Identifiler: BSP1           Page-in:       0
*             CPU time 00:00:00,10                          Virtual Storage used: 116K           Page-out:       0
*             corr. CPU: 00:00:00,10 CPU time has been corrected by 1 / 1,0 multiplier
*
*         I/O Operation
*         Number of records read via DD * or DD DATA:      2
*         195.....8 DMY.....0 DMY.....0 DMY.....0
```

```
*
*                                     Charge for step (w/o SYSOUT):          0,16
*
*****
IEF236I  ALLOC. FOR LISTDSJ1 STEP01 VALDAT6
IEF237I 195  ALLOCATED TO SYSPROC
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSTSPRT
IEF237I JES2 ALLOCATED TO SYSTSIN
IEF237I 240  ALLOCATED TO SYS00006
IEF142I LISTDSJ1 STEP01 VALDAT6 - STEP WAS EXECUTED - COND CODE 0904
IEF285I   SYS2.CMDPROC              KEPT          *-----8
IEF285I   VOL SER NOS= PUB005.
IEF285I   JES2.JOB05563.S00126      SYSOUT
IEF285I   JES2.JOB05563.S00127      SYSOUT
IEF285I   JES2.JOB05563.SI0110      SYSIN
IEF285I   SYS1.UCAT.TS0             KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01  / START 19127.0946
IEF374I STEP /STEP01  / STOP  19127.0946 CPU      0MIN 00.09SEC SRB      0MIN 00.00SEC VIRT   116K SYS   276K
*****
*      12. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 07.05.19 from 09.46.29 to 09.46.29 *
*      elapsed time 24:00:00,10          CPU-Identifier:  BSP1          Page-in:      0          *
*      CPU time    00:00:00,09          Virtual Storage used:  116K      Page-out:      0          *
*      corr. CPU:   00:00:00,09      CPU time has been corrected by  1 / 1,0 multiplier *
*
*      I/O Operation
*      Number of records read via DD * or DD DATA:      2
*      195.....8 DMY.....0 DMY.....0 DMY.....0 240.....0
*
*
*                                     Charge for step (w/o SYSOUT):          0,15
*
*****
IEF375I  JOB /LISTDSJ1/ START 19127.0946
IEF376I  JOB /LISTDSJ1/ STOP  19127.0946 CPU      0MIN 01.10SEC SRB      0MIN 00.03SEC
```


SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	
LISTDSJ	SD	0001	000000	001FBC		ASM 0201 09.46 05/07/19

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
-----	--------	------	-------	-------	------	--------	-----------	-----	------	-------	----------

```
2 * * * * *
3 *
4 * =====
5 *
6 * LL      II      SSSSS  TTTTTTTT  DDDDDD  SSSSS  JJJJJJJJ
7 * LL      II  SS   SS      TT      DD   DD   SS   SS      JJ
8 * LL      II  SS      TT      DD   DD   SS      JJ
9 * LL      II      SSSSS  TT      DD   DD   SSSSS  JJ
10 * LL      II      SS      TT      DD   DD      SS      JJ
11 * LL      II  SS   SS      TT      DD   DD   SS   SS  JJ JJ
12 * LLLLLLLL II      SSSSS  TT      DDDDDD  SSSSS  JJJ
13 *
14 * =====
15 *
16 * Program: LISTDSJ
17 *
18 * Author:  Larry Belmontes Jr.
19 *         https://ShareABitofIT/LISTDSJ-for-MVS-3-8J
20 *
21 *
22 * Disclaimer: <DSCLAIMR>
23 * =====
24 *
25 *      No guarantee; No warranty; Install / Use at your own risk.
26 *
27 *      This software is provided "AS IS" and without any expressed
28 *      or implied warranties, including, without limitation, the
29 *      implied warranties of merchantability and fitness for a
30 *      particular purpose.
31 *
32 *      The author requests keeping authors name intact in any
33 *      modified versions.
34 *
35 *      In addition, the author requests readers to submit any
36 *      code modifications / enhancements and associated comments
37 *      for consideration into a subsequent release (giving credit
38 *      to contributor(s)) thus, improving overall functionality
39 *      and further benefiting the MVS 3.8J hobbyist public domain
40 *      community.
41 *
42 *
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
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44	*				Overview:	
45	*				=====	
46	*					
47	*				Inspired by LISTDS and other similar TSO CPs that display	
48	*				dataset information and, in particular, the absence of a	
49	*				LISTDSI-type TSO CP in MVS 3.8J, I started to focus on	
50	*				creating one to fill this void!	
51	*					
52	*				Some weeks later, I finalized my functional and design	
53	*				thoughts to embark in writing LISTDSJ for use under TSO and	
54	*				ISPF 2.0 (Wally McLaughlin's product) as my contribution to	
55	*				the MVS 3.8J hobbyist community.	
56	*					
57	*					
58	*				This program, LISTDSJ, accepts a data set name and provides	
59	*				dataset information from various VTOC DSCBs including directory	
60	*				information for PDS files via CLIST variables. A full list of	
61	*				CLIST (symbolic) variables is provided below in Table 3.	
62	*					
63	*				LISTDSJ is similar to LISTDSI introduced and enhanced after	
64	*				MVS3.8J. Some of the symbolic names used by LISTDSJ may not	
65	*				use the same values of a current LISTDSI version or may not be	
66	*				defined as in the current version of LISTDSI.	
67	*					
68	*				This program is written in IFOX00 Assembler (24-bit addressing)	
69	*				using the MVS 3.8J Tur(n)key 3 Operating System. Therefore, the	
70	*				LISTDSJ functions are limited to the features (support) offered by	
71	*				the above OS and/or documentation within this program. For example,	
72	*				PDS/E is not supported by the public domain MVS 3.8J Tur(n)key 3 OS.	
73	*				Thus, not supported by LISTDSJ.	
74	*					
75	*				All CLIST variables are initialized to question marks (?)	
76	*				and accordingly set to dataset attribute values as processed by	
77	*				LISTDSJ.	
78	*					
79	*				Since MVS3.8J is not Y2K compliant, the dates stored in DSCBs	
80	*				will be windowed at 70 by LISTDSJ. For example, a date stored as	
81	*				format YYJJJ (YY-year, JJJ-Julian date) of value 70002 and	
82	*				converting to format of MM/DD/CCYY will be displayed as 01/02/1970.	
83	*				Another example where the year is less than 70, say 04060 (format	
84	*				YYJJJ) will be converted to 02/01/2004. Leap year detection	
85	*				is part of the date conversion process.	
86	*					
87	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
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					89 *	Overview: (continued)	
--	--	--	--	--	------	-----------------------	--

					90 *	=====	
--	--	--	--	--	------	-------	--

					91 *		
--	--	--	--	--	------	--	--

					92 *	Dataset information provided are for datasets residing on a	
--	--	--	--	--	------	---	--

					93 *	single volume.	
--	--	--	--	--	------	----------------	--

					94 *		
--	--	--	--	--	------	--	--

					95 *	However, if a dataset residing on multiple volumes is requested,	
--	--	--	--	--	------	--	--

					96 *	a volume list (currently limited to 5 by LISTDSJ) will be provided	
--	--	--	--	--	------	--	--

					97 *	with an error code with no other dataset information due to	
--	--	--	--	--	------	---	--

					98 *	allocations spanning across multiple volumes. This is intentional.	
--	--	--	--	--	------	--	--

					99 *		
--	--	--	--	--	------	--	--

					100 *	LISTDSJ was developed and tested using Volker Bandke's MVS CD -	
--	--	--	--	--	-------	---	--

					101 *	MVS38J TK3 with Hercules 3.07 hosted on a Windows 10 Pro machine.	
--	--	--	--	--	-------	---	--

					102 *		
--	--	--	--	--	-------	--	--

					103 *	MVS38J TK4- update 8 (maintained by Juergen Winkelmann) includes	
--	--	--	--	--	-------	--	--

					104 *	user-mod ZP60014. After applying user-mod ZP60038, LISTDSJ was	
--	--	--	--	--	-------	--	--

					105 *	installed and successfully validated with a CLIST harness under	
--	--	--	--	--	-------	---	--

					106 *	TSO.	
--	--	--	--	--	-------	------	--

					107 *		
--	--	--	--	--	-------	--	--

					108 *	Enjoy LISTDSJ!	
--	--	--	--	--	-------	----------------	--

					109 *	Larry Belmontes Jr.	
--	--	--	--	--	-------	---------------------	--

					110 *		
--	--	--	--	--	-------	--	--

					111 *		
--	--	--	--	--	-------	--	--

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
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113	*				Prerequisite: User Modifications <PREREQS>	
114	*				=====	
115	*					
116	*				Two user-mods, ZP60014 and ZP60038, are REQUIRED to process	
117	*				CLIST symbolic variables via the IKJCT441 API on MVS 3.8J before	
118	*				using LISTDSJ. Otherwise, LISTDSJ is rendered useless!	
119	*					
120	*				More information on the above user-mods can be obtained from	
121	*				the following website:	
122	*				http://www.prycroft6.com.au/vs2mods/	
123	*					
124	*				If the above user-mods are not installed, a system abend	
125	*				806-4 will occur when LISTDSJ is executed. Additionally, an	
126	*				error message will be displayed on your TSO session screen:	
127	*				'LISTDSJ 4098 -Cannot link to IKJCT441'	
128	*					
129	*				Check your system to determine if one or both user-mods are	
130	*				required. ZP60038 requires ZP60014.	
131	*					
132	*					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
-----	-------------	-------	-------	------	------------------	-------------------------

134	*				Command Syntax for LISTDSJ: <CMDSYNTAX>	
135	*				=====	
136	*					
137	*				LISTDSJ NAME VOL(volser) DIR PNL ABOUT	
138	*				where:	
139	*					
140	*				1) NAME, required, fully qualified dataset name with no quotes	
141	*				as the FIRST parameter in the command line.	
142	*					
143	*				2) VOL, optional, target VOLUME for data set name	
144	*				bypassing catalog search.	
145	*					
146	*				3) DIR, optional, retrieve PDS directory information.	
147	*				This option will be ignored when requested file	
148	*				is not Partitioned.	
149	*				Additionally, a message will be set in DJMSG as-	
150	*				'DIR option not valid, ignored'	
151	*				NOTE: Last Referenced Date updated when file open.	
152	*					
153	*				4) PNL, optional, CLIST symbolic names use short format,	
154	*				&Snn.	
155	*				See Table 3, column 'S#' for name specifics.	
156	*					
157	*				5) ABOUT, optional, display LISTDSJ date time stamp on TSO	
158	*				session screen.	
159	*				NOTE: Although a dataset name must be specified as	
160	*				the first parameter before the ABOUT keyword,	
161	*				no dataset information is retrieved. All CLIST	
162	*				variables will contain default values of question	
163	*				marks (?).	
164	*					
165	*					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
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167	*				LISTDSJ Command Examples:	
168	*				=====	
169	*					
170	*				1) LISTDSJ HERC01.TEST.CNTL	
171	*				Dataset attributes and other information for HERC01.ETST.CNTL	
172	*				are set for each LISTDSJ SYS* CLIST variable excluding	
173	*				DIRECTORY information.	
174	*					
175	*				2) LISTDSJ HERC01.TEST.CNTL DIR	
176	*				Dataset attributes and other information for HERC01.ETST.CNTL	
177	*				are set for each LISTDSJ SYS* CLIST variable including	
178	*				DIRECTORY information.	
179	*				NOTE: Last Referenced Date updated when file opened.	
180	*					
181	*				3) LISTDSJ HERC01.TEST.CNTL PNL	
182	*				Dataset attributes and other information for HERC01.ETST.CNTL	
183	*				are set for each LISTDSJ Snn CLIST variable excluding	
184	*				DIRECTORY information.	
185	*				NOTE: Short variable name notation is used for this	
186	*				request (&Snn).	
187	*					
188	*				4) LISTDSJ HERC01.TEST.CNTL ABOUT	
189	*				Display LISTDSJ date time stamp on TSO session screen and set	
190	*				all LISTDSJ SYS* CLIST variables to question marks (?).	
191	*					
192	*					

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 09.46 05/07/19

194 * Table 1 - Program Register Usage

195 *

196 *

197 *

198 *

199 *

200 *

201 *

202 *

203 *

204 *

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210 *

211 *

212 *

213 *

214 *

215 *

216 *

217 *

218 *

219 *

220 *

221 *

222 *

REG

USAGE

DESCRIPTION

R13 Calling program registers (R14-R12) upon entry

R14 Calling program return address upon entry

R15 Called program entry address upon entry

R1 Called program parms starting address

R0 Working Register

R1 Working Register

R2 Working Register

R3 Working Register

R4 Working Register

R5 Working Register

R6 Working Register

R7 Working Register

R8 Working Register

R9 Address of WORKAREA via GETMAIN/FREEMAIN

R10 Base Register 1

R11 Base Register 2

R12 Base Register 3

R13 Address of SAVEAREA

R15 Return Code upon exit

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 09.46 05/07/19

224 * Table 2 - Return Codes

225 *

226 *

227 * | RETURN |

228 * | CODE | DESCRIPTION

229 * +-----+

230 * | 00 | Successful Request

231 * +-----+

232 * | 04 | Some dataset information is unavailable. All variable
233 * | | values are valid except for those with question marks
234 * | | (?) which could not resolved or not valid for request.

235 * +-----+

236 * | 16 | Severe error occurred.

237 * | | None of the variables values are valid.

238 * +-----+

239 * | 4004- | Parm not supplied to LISTDSJ

240 * | 4005 | None of the variables values are valid.

241 * | | Program terminated.

242 * +-----+

243 * | 4008- | CPPL error no variables found

244 * | 4010 | None of the variables values are valid.

245 * | | Program terminated.

246 * +-----+

247 * | 4097 | Program cannot link to TSO dynamic allocation interface

248 * | | Program terminated.

249 * +-----+

250 * | 4098 | Program cannot link to CLIST variable processing API

251 * | | Program terminated.

252 * +-----+

253 * | 4099 | Program not executing under TSO

254 * | | Program terminated.

255 * +-----+

256 * Note: -Symbolic Variable &LASTCC contains LISTDSJ return code

257 * -Messages in the 4xxx range issue a TSO session message

	259	*	Table 3 - CLIST Variables <CLSTVARS>	
	260	*		
	261	*	+--+-----+-----+	+
	262	*	S# CLIST VARIABLE	CONTENT
	263	*	+--+-----+-----+	+
	264	*	LASTCC	Return code from LISTDSJ available
	265	*		immediately after execution of LISTDSJ
	266	*		command
	267	*	+--+-----+-----+	+
	268	*	00 SYSDSNAME	Dataset name
	269	*	+--+-----+-----+	+
	270	*	01 SYSLISTDSJMSG	LISTDSJ message variable
	271	*		Miscellaneous processing message
	272	*	+--+-----+-----+	+
	273	*	02 SYSREASON	LISTDSJ reason code
	274	*		See REASON CODE table, Table 4
	275	*		column REASON CODE
	276	*	+--+-----+-----+	+
	277	*	03 SYSMSGLVL1	First-level message
	278	*		See RETURN CODE table, Table 2
	279	*		column DESCRIPTION
	280	*	+--+-----+-----+	+
	281	*	04 SYSMSGLVL2	Second-level message
	282	*		See REASON CODE table, Table 4
	283	*		column DESCRIPTION
	284	*	+--+-----+-----+	+
	285	*	05 SYSCREATE	Creation Date format CCYY/JJJ
	286	*		CCYY-century year, JJJ-julian date
	287	*		Note: Century windowed at 70.
	288	*	+--+-----+-----+	+
	289	*	06 SYSEXDATE	Expiration Date format CCYY/JJJ
	290	*		CCYY-century year, JJJ-julian date
	291	*		Note: Century windowed at 70.
	292	*	+--+-----+-----+	+
	293	*	07 SYSREFDATE	Last Referenced Date format CCYY/JJJ
	294	*		CCYY-century year, JJJ-julian date
	295	*		Note: Century windowed at 70.
	296	*		Referenced date will be updated with DIR
	297	*		option is used on a PDS request.
	298	*	+--+-----+-----+	+
	299	*	08 SYSDSORG	Dataset Organization
	300	*		IS -ISAM
	301	*		PS -Physical Sequential
	302	*		DA -Direct Access
	303	*		PO -Partition Organization
	304	*		U -Undefined
	305	*		VS -VSAM
	306	*		
	307	*		xxU -Unmovable
	308	*	+--+-----+-----+	+

310	*	Table 3 - CLIST Variables (continued)		
311	*			
312	*	+---+	-----+	-----+
313	*	S#	CLIST VARIABLE	CONTENT
314	*	+---+	-----+	-----+
315	*	09	SYSRECFM	Record format for non-VSAM datasets
316	*			Character combination e.g. FBA
317	*			U -Undefined
318	*			F -Fixed
319	*			V -Variable
320	*			B -Blocked
321	*			T -Track Overflow
322	*			S -Spanned or Standard
323	*			A -ANSI
324	*			M -Machine
325	*	+---+	-----+	-----+
326	*	10	SYSLRECL	Logical record length
327	*	+---+	-----+	-----+
328	*	11	SYSBLKSIZE	Block size
329	*	+---+	-----+	-----+
330	*	12	SYSKEYLEN	Key Length
331	*	+---+	-----+	-----+
332	*	13	SYSKEYPOS	Relative Key Position
333	*	+---+	-----+	-----+
334	*	14	SYSPASSWORD	Password Indication
335	*			NONE No password required
336	*			READ Password required to READ
337	*			R_W Password required to READ and WRITE
338	*	+---+	-----+	-----+
339	*	15	SYSRACFA	RACF Indication
340	*			NONE
341	*			RACF
342	*	+---+	-----+	-----+
343	*	16	SYSADIRBLK	Directory Blocks Allocated
344	*			Only for PDS when DIR option is specified
345	*	+---+	-----+	-----+
346	*	17	SYSUDIRBLK	Directory Blocks Used
347	*			Only for PDS when DIR option is specified
348	*	+---+	-----+	-----+
349	*	18	SYSNUDIRBLK	Directory Blocks Not Used
350	*			Only for PDS when DIR option is specified
351	*	+---+	-----+	-----+
352	*	19	SYSMEMBERS	Number of Members (total members)
353	*			Only for PDS when DIR option is specified
354	*	+---+	-----+	-----+
355	*	20	SYSMEMBERSALIAS	Number of Alias Members (total within
356	*			SYSMEMBERS)
357	*			Only for PDS when DIR option is specified
358	*	+---+	-----+	-----+

Table 3 - CLIST Variables (continued)		
S#	CLIST VARIABLE	CONTENT
21	SYSVOLUME	Volume serial ID
22	SYSUNIT	Device Unit on which volume resides 2305, 2305-2, 2314, 3330, 3340, 3350, 3375, 3380, 3390
23	SYSUNITS	Space Units CYL -Cylinder TRK -Track BLK -Block ABS -Absolute
24	SYSTRKSUSED	Total Tracks Used
25	SYSEXTENTS	Number of Extents allocated
26	SYSTRKSALLOC	Total Tracks Allocated
27	SYSSECONDS	Secondary Allocation in Space Units
28	SYSTRKSUNUSED	Total Tracks Unused
29	SYSCYLVOL	Cylinders for Volume As stored in volume F4-DSCB
30	SYSTRKSCYL	Tracks per Cylinder for SYSUNIT As stored in volume F4-DSCB
31	SYSJCREATE	Creation Date format YYJJJ YY-year, JJJ-julian date as stored by MVS3.8J
32	SYSJEXDATE	Expiration Date format YYJJJ YY-year, JJJ-julian date as stored by MVS3.8J
33	SYSJREFDATE	Last Referenced Date format YYJJJ YY-year, JJJ-julian date as stored by MVS3.8J Referenced date will be updated when DIR option is used on a PDS request.

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409 *

```

412 * +--+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
413 * |34| SYSTRKLEN          | Track Length             for SYSUNIT
```

```

416 *      |35|  SYSUNITCAP      | Capacity for SYSUNIT
417 *      |   |              | Computed as -

```

420	*	36	SYSBLKSTRK	Blocks per Track for SYSUNIT
421	*			Computed as -

424	*	37	SYSCCREATE	Creation Date format MM/DD/CCYY
425	*			MM-month, DD-day, CCYY-century year

```

428 *      MM-month, DD-day, CCYY-century year
429 *      +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

432	*		Referenced date will be updated with DIR
433	*		option is used on a PDS request.

436	*	15	STORAGE=128	Number of columns in the dataset
437	*	+	+	As stored in catalog

440 *				N	Dataset is cataloged
441 *	+ - + -	+ - + -	+ - + -	+ - + -	Dataset is not cataloged

	443	*	Table 3 - CLIST Variables (continued)	
	444	*		
	445	*	+--+-----+-----+	
	446	*	S# CLIST VARIABLE	CONTENT
	447	*	+--+-----+-----+	
	448	*	42 SYSDSCATV	Dataset cataloged volume serial ID
	449	*		Volume serial of dataset name found
	450	*		on catalog
	451	*	+--+-----+-----+	
	452	*	43 SYSPRIMARY	Primary Allocation in Space units.
	453	*	+--+-----+-----+	
	454	*	44 SYSUSED	Allocation used, in Space units.
	455	*	+--+-----+-----+	
	456	*	45 SYSVOLUMES	List of volume serial numbers for
	457	*		single and multiple volume datasets.
	458	*		Limited to 5 volumes.
	459	*	+--+-----+-----+	
	460	*		

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 09.46 05/07/19

462 * Table 4 - REASON CODES Table

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Table 4 - REASON CODES Table

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LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 09.46 05/07/19

513 * Macros and SYSLIB Location:

514 * =====

515 *

516 * Macro Description Library

517 * -----

518 * YREGS Register Equates SYS2.MACLIB

519 * IHAPSA Prefixed Save Area SYS1.AMODGEN

520 * CVT Communication Vector Table SYS1.AMODGEN

521 * IHAASCB Address Space Control Block SYS1.AMODGEN

522 * IEFUCBOB Unit Control Block SYS1.AMODGEN

523 * IKJCPPL CP Parm List SYS1.MACLIB

524 * IKJPPL Parse Parm List SYS1.MACLIB

525 * IKJIOPL I/O Service Routine Parm List SYS1.MACLIB

526 * IKJDAPL Dynamic Allocation Parm List SYS1.MACLIB

527 * IKJDAP08 Operation block ALLOC Dataset SYS1.MACLIB

528 * IKJDAP18 Operation block FREE Dataset SYS1.MACLIB

529 * IECSDSL1 DSCB Dataset Mapping 1-4 SYS1.AMODGEN

530 *

531 *

532 * References:

533 * =====

534 *

535 * - GC28-6628-9 OS System Control Blocks (R21.7)

536 * - Advanced Assembler Language and MVS Interfaces (C. Cannatello)

537 *

538 *

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
-----	-------------	-------	-------	------	------------------	-------------------------

				540 *	Change History: <CHGHIST>	
--	--	--	--	-------	---------------------------	--

				541 *	=====	
--	--	--	--	-------	-------	--

				542 *		
--	--	--	--	-------	--	--

				543 *	MM/DD/CCYY Version Name / Description	
--	--	--	--	-------	---------------------------------------	--

				544 *	-----	
--	--	--	--	-------	-------	--

				545 *	04/29/2019 1.0.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				546 *	- Initial version released to MVS 3.8J	
--	--	--	--	-------	--	--

				547 *	hobbyist public domain	
--	--	--	--	-------	------------------------	--

				548 *		
--	--	--	--	-------	--	--

				549 *	04/28/2019 0.5.10 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				550 *	- Enhance keyword detection by checking for	
--	--	--	--	-------	---	--

				551 *	a delimiter (blank) after keyword	
--	--	--	--	-------	-----------------------------------	--

				552 *	- KDIR EQU *	
--	--	--	--	-------	--------------	--

				553 *	- KPNL EQU *	
--	--	--	--	-------	--------------	--

				554 *	- KABOUT EQU *	
--	--	--	--	-------	----------------	--

				555 *		
--	--	--	--	-------	--	--

				556 *	04/26/2019 0.5.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				557 *	- Support parms: DSN VOL() DIR PNL ABOUT	
--	--	--	--	-------	--	--

				558 *	- Add ABOUT parm processing	
--	--	--	--	-------	-----------------------------	--

				559 *	- Enhance space used routine	
--	--	--	--	-------	------------------------------	--

				560 *	- SPCUSED EQU *	
--	--	--	--	-------	-----------------	--

				561 *	- Support volumes list for multi-volume DSN	
--	--	--	--	-------	---	--

				562 *	(limited to 5 intentionally)	
--	--	--	--	-------	------------------------------	--

				563 *	- VVOLLST DC C'SYSVOLUMES'	
--	--	--	--	-------	----------------------------	--

				564 *		
--	--	--	--	-------	--	--

				565 *	02/21/2019 0.4.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				566 *	- Support parms: DSN VOL() DIR PNL	
--	--	--	--	-------	------------------------------------	--

				567 *	- Add PNL parm processing	
--	--	--	--	-------	---------------------------	--

				568 *	- Enhance DSORG table processing	
--	--	--	--	-------	----------------------------------	--

				569 *	- Support primary allocations	
--	--	--	--	-------	-------------------------------	--

				570 *	- VPSPCAL DC C'SYSPRIMARY'	
--	--	--	--	-------	----------------------------	--

				571 *	- VPSPCUS DC C'SYSUSED'	
--	--	--	--	-------	-------------------------	--

				572 *	- Add TSO session messages for certain errors	
--	--	--	--	-------	---	--

				573 *	using a message prefix	
--	--	--	--	-------	------------------------	--

				574 *	- 'LISTDSJ nnnn - error...'	
--	--	--	--	-------	-----------------------------	--

				575 *		
--	--	--	--	-------	--	--

				576 *	01/08/2019 0.3.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				577 *	- Enhance device table search	
--	--	--	--	-------	-------------------------------	--

				578 *	- Enhance symbolic variable processing	
--	--	--	--	-------	--	--

				579 *		
--	--	--	--	-------	--	--

				580 *	01/26/2019 0.3.10 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				581 *	- Add error processing	
--	--	--	--	-------	------------------------	--

				582 *	- ERR97	
--	--	--	--	-------	---------	--

				583 *	- ERR99	
--	--	--	--	-------	---------	--

				584 *	- Add Y2k Window value as a variable	
--	--	--	--	-------	--------------------------------------	--

				585 *	- Y2KWIN DC F'70'	
--	--	--	--	-------	-------------------	--

				586 *		
--	--	--	--	-------	--	--

				587 *	12/22/2018 0.2.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				588 *	- Support parms: DSN VOL() DIR	
--	--	--	--	-------	--------------------------------	--

				589 *	- Add DIR parm processing	
--	--	--	--	-------	---------------------------	--

				590 *	- Support catalog variables	
--	--	--	--	-------	-----------------------------	--

				591 *	- VDSCAT DC C'SYSDSCAT'	
--	--	--	--	-------	-------------------------	--

				592 *	- VDSCATV DC C'SYSDSCATV'	
--	--	--	--	-------	---------------------------	--

				593 *	- VNUMVOL DC C'SYSNUMVOLS'	
--	--	--	--	-------	----------------------------	--

				594 *	- catalog / not cataloged	
--	--	--	--	-------	---------------------------	--

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				595 *	- single volume / multi volume	
				596 *	- Support reason code processing	
				597 *	- VRSCODE DC C'SYSREASON'	
				598 *	- VMSGL1 DC C'SYSMSGLVL1'	
				599 *	- VMSGL2 DC C'SYSMSGLVL2'	
				600 *	- Support DSCB F-1 dataset attributes	
				601 *	- VKEYP DC C'SYSKEYPOS'	
				602 *	- Support additional file date format CLIST	
				603 *	variables	
				604 *	- VCREDITJ DC C'SYSJCREATE'	
				605 *	- VEXPDTJ DC C'SYSJEXDATE'	
				606 *	- VREFDTJ DC C'SYSJREFDATE'	
				607 *	- VCREDTC DC C'SYSCCREATE'	
				608 *	- VEXPDTC DC C'SYSCEXDATE'	
				609 *	- VREFDTC DC C'SYSCREFDATE'	
				610 *	- Check for presence of DSCB F-2 ISAM	
				611 *	vtoc record	
				612 *	- Support DSCB F-3 dataset extents	
				613 *	- Support DSCB F-4 volume device	
				614 *	characteristics	
				615 *	- VCCVOL DC C'SYSCYLVOL'	
				616 *	- VTTCC DC C'SYSTRKSCYL'	
				617 *	- VTRKLEN DC C'SYSTRKLEN'	
				618 *	- VBLKTRK DC C'SYSBLKSTRK'	
				619 *	- VUNITCAP DC C'SYSUNITCAP'	
				620 *	- Compute total space allocation in tracks	
				621 *	and cylinders by summarizing extent info	
				622 *	in F-1 and F-3 DSCBs	
				623 *	- VTKAL DC C'SYSTRKSALLOC'	
				624 *	- VTKUS DC C'SYSTRKSUSED'	
				625 *	- VTKUUS DC C'SYSTRKSUNUSED'	
				626 *	- Enhance message communication via new CLIST	
				627 *	variable	
				628 *	- VJMSG DC C'SYSLISTDSJMSG'	
				629 *	- Add DAIR processing for PDS Directory	
				630 *	- Support PDS directory information	
				631 *	- VMEMS DC C'SYSMEMBERS'	
				632 *	- VALIAS DC C'SYSMEMBERSALIAS'	
				633 *	- VDIRBKSU DC C'SYSUDIRBLK'	
				634 *	- VDIRBKSN DC C'SYSNUDIRBLK'	
				635 *	- VDIRBKSA DC C'SYSADIRBLK'	
				636 *		
				637 *	11/25/2018 0.1.00 Larry Belmontes Jr.	
				638 *	- Support parms: DSN	
				639 *	- Add DSN parm processing	
				640 *	- Support basic catalog checks for DSN:	
				641 *	- catalog / not cataloged	
				642 *	- single volume / multi volume	
				643 *	- Support reason code processing	
				644 *	- VRSCODE DC C'SYSREASON'	
				645 *	- VMSGL1 DC C'SYSMSGLVL1'	
				646 *	- VMSGL2 DC C'SYSMSGLVL2'	
				647 *	- Support DSCB F-1 dataset attributes	
				648 *	- VVOL DC C'SYSVOLUME'	
				649 *	- VLRECL DC C'SYSLRECL'	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
-----	--------	------	-------	-------	------	--------	-----------	-------------------------

					650 *	- VBLKSZ	DC C'SYSBLKSIZE'
					651 *	- VKEYL	DC C'SYSKEYLEN'
					652 *	- VDSORG	DC C'SYSDSORG'
					653 *	- VRECFM	DC C'SYSRECFM'
					654 *	- VCREDIT	DC C'SYSCREATE'
					655 *	- VEXPDT	DC C'SYSEXDATE'
					656 *	- VREFDT	DC C'SYSREFDATE'
					657 *	- VPASSWD	DC C'SYSPASSWORD'
					658 *	- VRACF	DC C'SYSRACFA'
					659 *	- VSSPC	DC C'SYSUNITS'
					660 *	- VSSPCNM	DC C'SYSSECONDS'
					661 *	- VUNIT	DC C'SYSUNIT'
					662 *	- VEXTS	DC C'SYSEXTENTS'
					663 *		
					664 *	11/18/2018 0.0.00	Larry Belmontes Jr.
					665 *		- Simple prototype
					666 *		- Return code processing via R15 (&LASTCC TSO)
					667 *		- Support parms: DSN
					668 *		- Echo parm to clist variable
					669 *	- VDSN	DC C'SYSDSNAME'
					670 *		
					671 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
-----	--------	------	-------	-------	------	------------------	-------------------------

					673 *	Potential Enhancements: <ENHMNTS>	
--	--	--	--	--	-------	-----------------------------------	--

					674 *	=====	
--	--	--	--	--	-------	-------	--

					675 *		
--	--	--	--	--	-------	--	--

					676 *	01) Add ability to specify a DD name in place of DSN name	
--	--	--	--	--	-------	---	--

					677 *	Functionality may be limited-	
--	--	--	--	--	-------	-------------------------------	--

					678 *	Allocated filename must be SHR	
--	--	--	--	--	-------	--------------------------------	--

					679 *	Last Reference date will be automatically update upon open.	
--	--	--	--	--	-------	---	--

					680 *	02) Add ability to detect 31-bit addressing and execute ATL	
--	--	--	--	--	-------	---	--

					681 *	for MVS 380	
--	--	--	--	--	-------	-------------	--

					682 *		
--	--	--	--	--	-------	--	--

					683 *		
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					684 *		
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					685 *		
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					691 *		
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					692 *		
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					693 *	* * * * *	
--	--	--	--	--	-------	-----------	--

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000000					695	LISTDSJ	CSECT	
				00000	696		USING LISTDSJ,R10,R11,R12 my BASE REGISTER(S)	
					697		PRINT NOGEN	
					698	*	*	
					699	*	/* *****/	
					700	*	/* Save regs and declare base registers R10,R11,R12 */	
					701	*	/* including saving R1 (PARMS) in R2 */	
					702	*	/* - R1 myPARMS address on entry */	
					703	*	/* - R15 myENTRY address on entry */	
					704	*	/* *****/	
000000	90EC	D00C	0000C		705	STM	R14,R12,12(R13)	Save calling program registers
000004	18AF				706	LR	R10,R15	Load base1 w R15
000006	41BA	0FFF	00FFF		707	LA	R11,4095(R10)	Load base2 (R11) w/ offset
00000A	41BB	0001	00001		708	LA	R11,1(R11)	Adjust base2
00000E	41CB	0FFF	00FFF		709	LA	R12,4095(R11)	Load base3 (R12) w/ offset
000012	41CC	0001	00001		710	LA	R12,1(R12)	Adjust base3
000016	18FD				711	LR	R15,R13	Save callers registers
000018	1821				712	LR	R2,R1	Save PARM addr
					713	*	*	
					714	*	/* *****/	
					715	*	/* Program Eyecatcher */	
					716	*	/* *****/	
00001A	47F0	A052	00052		717	B	OVRSTAMP	Branch past eye-catcher
				0001E	718	MYSTAMP	EQU *	
00001E	D3C9E2E3C4E2D140				719	PGMID	DC CL8'LISTDSJ '	My Program STAMP
000026	D4E5E2F34BF8D140				720		DC CL8'MVS3.8J '	OS
00002E	E5F14BF04BF0F040				721		DC CL8'V1.0.00 '	.Version
000036	F0F4F2F9F2F0F1F9				722		DC CL8'04292019'	..date
00003E	40				723		DC CL1' '	
					724	PGMDS	DC CL8'&SYSDATE'	Assemble Date
000047	406040				726		DC CL3' - '	.and
					727	PGMTS	DC CL8'&SYSTIME'	..Time
				00034	729	MYSTAMPL	EQU *-MYSTAMP	
000052					730	OVRSTAMP	DS 0H	
					731	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					733	*	*/*****	*/
					734	*	/* GETMAIN, working storage, using R9	*/
					735	*	/* - R0 Working register	*/
					736	*	/* - R1 Working register (GETMAIN address)	*/
					737	*	/* - R9 Working Storage DSECT address	*/
					738	*	*/*****	*/
000052	4100	0854	00854		739		LA R0,WSAREAL	R0 = size of Workarea DSECT
					740		GETMAIN R, LV=(R0)	Get Storage, R1 = addr of storage
00005E	1891				744		LR R9,R1	R9 = Workarea DSECT Register
			00000		745		USING WSDSECT,R9	Tell Assembler
					746	*	*/*****	*/
					747	*	*/*****	*/
					748	*	/* Update Save Areas for caller and calling programs	*/
					749	*	/* - R1 myPARMS address on entry (restored)	*/
					750	*	*/*****	*/
000060	18FD				751		LR R15,R13	Save callers savearea addr
000062	41D0	9000	00000		752		LA R13,SAVEAREA	Load Addr of my savearea
000066	50F0	D004	00004		753		ST R15,4(,R13)	Chain callers to my savearea
00006A	50D0	F008	00008		754		ST R13,8(,R15)	Chain my savearea to callers
00006E	1812				755		LR R1,R2	Restore R1 as PARM addr
					756	*	*/*****	*/
					757	*	*/*****	*/
					758	*	/* Initialize IKJCT441 Parm List area	*/
					759	*	/* - R0 Working Register	*/
					760	*	*/*****	*/
000070	4100	B67C	0167C		761		LA R0,ECUPDT	Entry Code
000074	5000	9048	00048		762		ST R0,CT441P1	
000078	4100	9060	00060		763		LA R0,NAMP1	Name Pointer
00007C	5000	904C	0004C		764		ST R0,CT441P2	
000080	4100	9064	00064		765		LA R0,NAML1	Name Length
000084	5000	9050	00050		766		ST R0,CT441P3	
000088	4100	9068	00068		767		LA R0,VALP1	Var Pointer
00008C	5000	9054	00054		768		ST R0,CT441P4	
000090	4100	906C	0006C		769		LA R0,VALL1	Var Length
000094	5000	9058	00058		770		ST R0,CT441P5	
000098	4100	B680	01680		771		LA R0,TOKEN	Token
00009C	5000	905C	0005C		772		ST R0,CT441P6	
0000A0	9280	905C	0005C		773		MVI CT441P6,B'10000000'	Last Parm designation
					774	*	*/*****	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					776	*	/* ***** */	0201 09.46 05/07/19
					777	*	/* Check if we are running under TS0 */	
					778	*	/* - R0 Working Register */	
					779	*	/* -JMSG'LISTDSJ 4099 -Must run under TS0' */	
					780	*	/* ***** */	
					781	*	PSA is at address 0	
0000A4	5800	0220	00220		782		L R0,PSAANEW-PSA(0) R0=ASCB Address	
0000A8	5800	003C	0003C		783		L R0,ASCBTSB-ASCB(R0) R0=ASCBTSB Address	
0000AC	1200				784		LTR R0,R0 If 0, program not under TS0	
0000AE	4780	B194	01194		785		BZ ERR4099 ..error, not under TS0!	
					786	*	/* ***** */	
					787	*	/* ***** */	
					788	*	/* Initialize CLIST Symbol data area */	
					789	*	/* - R3, R4 Working Register */	
					790	*	/* ***** */	
0000B2	4130	9070	00070		791		LA R3,DSYMS Addr of symbolic data area	
0000B6	4140	01F5	001F5		792		LA R4,DSYMSL Len of symbolic data area	
				000BA	793	INITSYMA	EQU *	
0000BA	926F	3000	00000		794		MVI 0(R3),C'?' Populate with '?'	
0000BE	4133	0001	00001		795		LA R3,1(R3) Bump to next byte	
0000C2	4640	A0BA	000BA		796		BCT R4,INITSYMA	
					797	*	/* ***** */	
					798	*	/* ***** */	
					799	*	/* Initialize RC and Reason Code */	
					800	*	/* ***** */	
0000C6	D201	92BA	B5EC	002BA	801		MVC RC,=C'00' Zero Return Code	
0000CC	D203	928C	B598	0028C	802		MVC RCEXIT,=F'0' Zero Return Code R15	
					803	*	/* #Data source: 02 SYSREASON set throughout program */	
0000D2	D201	9100	B5EC	00100	804		MVC DRSNCODE,=C'00' Zero Reason Code	
					805	*	/* ***** */	
					806	*	/* ***** */	
					807	*	/* Initialize - OTHER */	
					808	*	/* ***** */	
0000D8	D703	962C	962C	0062C	809		XC MYECB,MYECB	
					810	*	/* #Data source: 01 SYSLISTDSJMSG set throughout program*/	
0000DE	9240	909C	0009C		811		MVI DJMSG,C' '	
0000E2	D262	909D	909C	0009D	812		MVC DJMSG+1(L'DJMSG-1),DJMSG	
					813	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					815	*	/* ***** */	
					816	*	/* Get PARAMETER information passed to program */	
					817	*	/* - R1 myPARMS address on entry */	
					818	*	/* - R4 Starting parms address */	
					819	*	/* - R6 Parm Length */	
					820	*	/* - R3, R4, R5 Working Register */	
					821	*	/* -ReasonCode 29 Dataset name must be specified */	
					822	*	/* -JMSG'LISTDSJ 4004 -PARM Not supplied' */	
					823	*	/* -JMSG'LISTDSJ 4005 -PARM Not supplied' */	
					824	*	/* -JMSG'LISTDSJ 4008 -CPPL No variables' */	
					825	*	/* -JMSG'LISTDSJ 4009 -CPPL No variables' */	
					826	*	/* -JMSG'LISTDSJ 4010 -CPPL No variables' */	
					827	*	/* ***** */	
				000E8	828	PARMS	EQU *	We have a parm...
0000E8	1211				829		LTR R1,R1	Do I have a PARM?
0000EA	4780	B08C	0108C		830		BZ ERR4005	NO, EXIT with RC = 4005
0000EE	1831				831		LR R3,R1	YES, R3=PARM/CPPL addr
0000F0	9180	3000	00000		832		TM 0(R3),X'80'	Is it PARM or CPPL addr?
0000F4	4780	A10E	0010E		833		BZ CPPLIN	YES, CPPL addr
				000F8	834	PARMIN	EQU *	NO, must be PARM addr
0000F8	5840	3000	00000		835		L R4,0(,R3)	R4=Addr of PARM
0000FC	4860	4000	00000		836		LH R6,0(,R4)	R6=Length of PARM
000100	1266				837		LTR R6,R6	PARM > 0 length?
000102	4780	B05E	0105E		838		BZ ERR4004	NO, EXIT with RC = 4004
000106	4140	4002	00002		839		LA R4,2(,R4)	YES, R4=point to start of PARM data
00010A	47F0	A136	00136		840		B PARMSXT	and continue...
				0010E	841	CPPLIN	EQU *	
00010E	5030	9628	00628		842		ST R3,MYCPPLP	Store CPPL Address
000112	5840	3000	00000		843		L R4,0(,R3)	R4=Command Buffer addr
000116	4850	4002	00002		844		LH R5,2(,R4)	R5=Offset to Command Variables
00011A	1255				845		LTR R5,R5	Any Variables?
00011C	4780	B0B8	010B8		846		BZ ERR4008	NO, EXIT with RC = 4008
000120	4860	4000	00000		847		LH R6,0(,R4)	YES, R6=Length of Command Buffer
000124	1B65				848		SR R6,R5	Subtract variable offset
000126	4B60	B5EE	015EE		849		SH R6,=H'4'	Subtract prefix
00012A	4780	B0E4	010E4		850		BE ERR4009	EXIT with RC = 4009 IF NO VARIABLES
00012E	4740	B110	01110		851		BM ERR4010	EXIT with RC = 4010 IF NO VARIABLES
000132	4144	5004	00004		852		LA R4,4(R4,R5)	R4=Point to variables start addr
				00136	853	*		
					854	PARMSXT	EQU *	We have a parm...
					855	*		
					856	*	/* ***** */	
					857	*	/* Uppercase translation of PARMIN */	
					858	*	/* - R4 Starting parms address */	
					859	*	/* - R6 Parm Length */	
					860	*	/* - R8, R4, R5 Working Register */	
					861	*	/* ***** */	
				00136	862	CAP#EM	EQU *	
000136	1886				863		LR R8,R6	R8=Parm Length
000138	0680				864		BCTR R8,0	Adjust length for OC
00013A	4480	A142	00142		865		EX R8,UPPERC	Execute Uppercase translation
00013E	47F0	A148	00148		866		B UPPERCX	
000142	D600	4000	B478	00000	867	UPPERC	OC 0(0,R4),=256X'40'	EBCDIC Lower-Upper Case Translate
				00148	868	UPPERCX	EQU *	
					869	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19	
					871	*	/* ***** */		
					872	*	/* Scan parm list */		
					873	*	/* ***** */		
			00148		874	PARMSCAN	EQU *		
					875	*	/* ***** */		
					876	*	/* ----- */		
					877	*	/* Initialize parm switches / variables */		
					878	*	/* - R7, R8 Working Register */		
					879	*	/* ----- */		
000148	9240	92C6	002C6		880	MVI	PDSN,C' ' Clear DSN		
00014C	D22A	92C7	92C6	002C7	002C6	881	MVC	PDSN+1(L'PDSN-1),PDSN	
000152	92D5	92F9	002F9		882	MVI	PDIR,C'N' DIR request - init to NO		
000156	92D5	92FA	002FA		883	MVI	PPNL,C'N' PNL request - init to NO		
00015A	92D5	92FB	002FB		884	MVI	PABOUT,C'N' ABOUT request - init to NO		
00015E	92D5	92F8	002F8		885	MVI	PVOL,C'N' VOLUME specified - init to NO		
000162	4170	92C6	002C6		886	LA	R7,PDSN R7=Start of PDSN area		
000166	4180	0000	00000		887	LA	R8,0 R8=PDSN actual length		
00016A	4080	92C4	002C4		888	STH	R8,PDSNL Store length of PDSN		
					889	*	/* ***** */		
					890	*	/* ----- */		
					891	*	/* Get DATASET NAME as 1st required parm */		
					892	*	/* - R4 Starting parms address */		
					893	*	/* - R6 Parm Length */		
					894	*	/* ----- */		
			0016E		895	PRMDSN	EQU *		
00016E	9540	4000	00000		896	CLI	0(R4),C' ' Delimiter?		
000172	4780	A194	00194		897	BE	NEXTPRM YES, next parm		
000176	D200	7000	4000	00000	00000	898	MVC	0(1,R7),0(R4) NO, continue with dataset name	
00017C	4144	0001	00001		899	LA	R4,1(R4) Bump up position PARMIN		
000180	4177	0001	00001		900	LA	R7,1(R7) Bump up position PDSN		
000184	4188	0001	00001		901	LA	R8,1(R8) Bump up length of PDSN		
000188	4080	92C4	002C4		902	STH	R8,PDSNL Store length of PDSN		
00018C	4660	A16E	0016E		903	BCT	R6,PRMDSN Check again...		
000190	47F0	A2AA	002AA		904	B	PARMDONE Done...		
					905	*	/* ***** */		
					906	*	/* ----- */		
					907	*	/* Get other optional parms */		
					908	*	/* - R4 Starting parms address */		
					909	*	/* ----- */		
			00194		910	NEXTPRM	EQU *		
000194	4144	0001	00001		911	LA	R4,1(R4) Bump up position PARMIN		
			00198		912	NEXT01	EQU *		
000198	D502	B66D	4000	0166D	00000	913	CLC	KWDIR,0(R4) Keyword 'DIR'?	
00019E	4780	A1C8	001C8		914	BE	KDIR YES, process		
0001A2	D502	B670	4000	01670	00000	915	CLC	KWPNL,0(R4) Keyword 'PNL'?	
0001A8	4780	A1DE	001DE		916	BE	KPNL YES, process		
0001AC	D504	B673	4000	01673	00000	917	CLC	KWABOUT,0(R4) Keyword 'ABOUT'?	
0001B2	4780	A1F4	001F4		918	BE	KABOUT YES, process		
0001B6	D503	B678	4000	01678	00000	919	CLC	KWVOL,0(R4) Keyword 'VOL('?	
0001BC	4780	A24C	0024C		920	BE	PARMVOL YES, process		
0001C0	4660	A194	00194		921	BCT	R6,NEXTPRM Check again...		
0001C4	47F0	A2AA	002AA		922	B	PARMDONE Done		
					923	*	/* ***** */		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					925	*	/*-----*/	
					926	*	/* DIR keyword delimiter check	
					927	*	/* - R0 Working register	
					928	*	/* - R6 Parm Length	
					929	*	/*-----*/	
				001C8	930	KDIR	EQU *	
0001C8	4100	0003	00003		931		LA R0,(L'KWDIR)	
0001CC	1960				932		CR R6,R0	End of PARMS?
0001CE	4780	A20A	0020A		933		BE PARMDIR	YES, flag it DIR
0001D2	9540	4003	00003		934		CLI L'KWDIR(R4),C' '	Blank follow keyword?
0001D6	4780	A20A	0020A		935		BE PARMDIR	YES, flag it DIR
0001DA	47F0	A194	00194		936		B NEXTPRM	NO, continue checking...
					937	*	/*-----*/	
					938	*	/* PNL keyword delimiter check	
					939	*	/* - R0 Working register	
					940	*	/* - R6 Parm Length	
					941	*	/*-----*/	
				001DE	942	KPNL	EQU *	
0001DE	4100	0003	00003		943		LA R0,(L'KWPNL)	
0001E2	1960				944		CR R6,R0	End of PARMS?
0001E4	4780	A21A	0021A		945		BE PARMPNL	YES, flag it PNL
0001E8	9540	4003	00003		946		CLI L'KWPNL(R4),C' '	Blank follow keyword?
0001EC	4780	A21A	0021A		947		BE PARMPNL	YES, flag it PNL
0001F0	47F0	A194	00194		948		B NEXTPRM	NO, continue checking...
					949			
					950	*	/*-----*/	
					951	*	/* ABOUT keyword delimiter check	
					952	*	/* - R0 Working register	
					953	*	/* - R6 Parm Length	
					954	*	/*-----*/	
				001F4	955	KABOUT	EQU *	
0001F4	4100	0005	00005		956		LA R0,(L'KWABOUT)	
0001F8	1960				957		CR R6,R0	End of PARMS?
0001FA	4780	A22A	0022A		958		BE PARMABOT	YES, flag it ABOUT
0001FE	9540	4005	00005		959		CLI L'KWABOUT(R4),C' '	Blank follow keyword?
000202	4780	A22A	0022A		960		BE PARMABOT	YES, flag it ABOUT
000206	47F0	A194	00194		961		B NEXTPRM	NO, continue checking...
					962			
					963	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					965	*	/*-----*/				
					966	*	/* DIR keyword set				
					967	*	/* - R4 Starting parms address				
					968	*	/* - R0 Keyword Length				
					969	*	/*-----*/				
				0020A	970	PARMDIR	EQU *				
00020A	92E8	92F9	002F9		971		MVI PDIR,C'Y'	Mark DIR action ON			
00020E	4144	0003	00003		972		LA R4,L'KWDIR(R4)	Bump up position PARMIN			
000212	4100	0003	00003		973		LA R0,(L'KWDIR)				
000216	47F0	A23A	0023A		974		B PARM@DEC	Decrement...			
					975	*	/*-----*/				
					976	*	/* PNL keyword set				
					977	*	/* - R4 Starting parms address				
					978	*	/* - R0 Keyword Length				
					979	*	/*-----*/				
				0021A	981	PARMPNL	EQU *				
00021A	92E8	92FA	002FA		982		MVI PPNL,C'Y'	Mark PNL action ON			
00021E	4144	0003	00003		983		LA R4,L'KWPNL(R4)	Bump up position PARMIN			
000222	4100	0003	00003		984		LA R0,(L'KWPNL)				
000226	47F0	A23A	0023A		985		B PARM@DEC	Decrement...			
					986	*	/*-----*/				
					987	*	/* ABOUT keyword set				
					988	*	/* - R4 Starting parms address				
					989	*	/* - R0 Keyword Length				
					990	*	/*-----*/				
				0022A	992	PARMABOT	EQU *				
00022A	92E8	92FB	002FB		993		MVI PABOUT,C'Y'	Mark ABOUT action ON			
00022E	4144	0005	00005		994		LA R4,L'KWABOUT(R4)	Bump up position PARMIN			
000232	4100	0005	00005		995		LA R0,(L'KWABOUT)				
000236	47F0	A23A	0023A		996		B PARM@DEC	Decrement...			
					997	*	/*-----*/				
					998	*	/* Decrement command buffer scanning position				
					999	*	/* - R4 Starting parms address				
					1000	*	/* - R0 Keyword Length				
					1001	*	/* - R6 Parm Length				
					1002	*	/*-----*/				
				0023A	1004	PARM@DEC	EQU *				
00023A	1B60				1005		SR R6,R0	Decrement R6 accordingly			
00023C	4780	A2AA	002AA		1006		BZ PARMDONE	Done when R6 is ZERO			
000240	4740	A2AA	002AA		1007		BM PARMDONE	... or NEGATIVE			
000244	4660	A194	00194		1008		BCT R6,NEXTPRM	Check again			
000248	47F0	A2AA	002AA		1009		B PARMDONE	Done			
					1010	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1012	*	/*-----*/				
					1013	*	/* VOL keyword and subfield process				
					1014	*	/* - R4 Starting parms address				
					1015	*	/* - R0 Keyword Length				
					1016	*	/* - R6 Parm Length				
					1017	*	/* - R7, R8 Working register				
					1018	*	/*-----*/				
				0024C	1019	PARMVOL	EQU *				
00024C	92E8	92F8	002F8		1020		MVI PVOL,C'Y'	Mark VOL specified action ON			
000250	4144	0004	00004		1021		LA R4,L'KWVOL(R4)	Bump up position PARMIN			
000254	4100	0004	00004		1022		LA R0,(L'KWVOL) 1				
000258	1B60				1023		SR R6,R0	Decrement R6 accordingly			
00025A	4780	A2AA	002AA		1024		BZ PARMDONE	Done when R6 is ZERO			
00025E	4740	A2AA	002AA		1025		BM PARMDONE	... or NEGATIVE			
				00262	1026	LOADVOL	EQU *				
000262	9240	92FC	002FC		1027		MVI OBTVOL,C' '	Clear VOL			
000266	D204	92FD	92FC 002FD	002FC	1028		MVC OBTVOL+1(L'OBTVOL-1),OBTVOL				
00026C	4170	92FC	002FC		1029		LA R7,OBTVOL	Start of OBTVOL area			
000270	4180	0006	00006		1030		LA R8,L'OBTVOL	Max limit for VOL			
				00274	1031	VOL00	EQU *				
000274	9540	4000	00000		1032		CLI 0(R4),C' '	Delimiter?			
000278	4780	A194	00194		1033		BE NEXTPRM	YES, branch to NEXTPRM			
00027C	955D	4000	00000		1034		CLI 0(R4),C')'	Delimiter?			
000280	4780	A194	00194		1035		BE NEXTPRM	YES, branch to NEXTPRM			
000284	D200	7000	4000 00000	00000	1036		MVC 0(1,R7),0(R4)	NO, continue with volume			
00028A	4144	0001	00001		1037		LA R4,1(R4)	Bump up position PARMIN			
00028E	4177	0001	00001		1038		LA R7,1(R7)	Bump up position PDSN			
000292	0680				1039		BCTR R8,0	Decrement R8			
000294	1288				1040		LTR R8,R8	0? VOL max length used?			
000296	4780	A2A2	002A2		1041		BZ VOL00A	YES, branch to NEXTPRM via BCT			
00029A	4660	A274	00274		1042		BCT R6,VOL00	Check again... next VOL character			
00029E	47F0	A2AA	002AA		1043		B PARMDONE	Done...			
0002A2	4660	A194	00194		1044	VOL00A	BCT R6,NEXTPRM	Check again... next parm			
0002A6	47F0	A2AA	002AA		1045		B PARMDONE	Done...			
					1046	*	/*-----*/				
					1047	*	/*-----*/				
					1048	*	/* Parm processing complete				
					1049	*	/* -ReasonCode 29 Dataset name must be specified				
					1050	*	/*-----*/				
				002AA	1051	PARMDONE	EQU *	Done with SCAN			
0002AA	9540	92C6	002C6		1052		CLI PDSN,C' '	Have a DSN?			
0002AE	4780	B1C0	011C0		1053		BE RSN29	NO, error Reasoncode 29			
0002B2	D22B	9302	92C6 00302	002C6	1054		MVC CAMDSN,PDSN	YES, Load DSN from PARM data			
0002B8	D205	92F2	92FC 002F2	002FC	1055		MVC PVOLSER,OBTVOL	Save VOLSER from PARM data			
					1056	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1058	*	*/*****	
					1059	*	/* Display ABOUT information on terminal	*/
					1060	*	/* and exit. No dataset processing done...	*/
					1061	*	/* -ReasonCode 99 ABOUT request, no DSN info retrieved	*/
					1062	*	*/*****	
			002BE		1063	ABOUT#	EQU *	
0002BE	95E8	92FB	002FB		1064		CLI PABOUT,C'Y'	Display ABOUT Info?
0002C2	4770	A304	00304		1065		BNE ABOUT#XT	NO.
0002C6	9001	9280	00280		1066		STM R0,R1,DW	SAVE R0,R1 to DW before TPUT
					1067		TPUT MYSTAMP,MYSTAMPL	
0002E4	9801	9280	00280		1078		LM R0,R1,DW	RESTORE R0,R1 from DW after TPUT
0002E8	D233	909C	A01E	0009C	0001E	1079	MVC DJMSG(MYSTAMPL),MYSTAMP	Move to &SYSLISTDSJMSG
0002EE	D201	9100	B5F0	00100	015F0	1080	MVC DRSNCODE,=C'99'	ABOUT, no DSN info msg
0002F4	D203	928C	B59C	0028C	0159C	1081	MVC RCEXIT,=F'00'	
0002FA	D201	92BA	B5EC	002BA	015EC	1082	MVC RC,=C'00'	
000300	47F0	AF18	00F18		1083		B ENDME	
			00304		1084	ABOUT#XT	EQU *	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1086	*	/* *****/				
					1087	*	/* Locate dataset name via catalog				
					1088	*	/* #Data source: 00 SYSDSNAME (1 of 02)				
					1089	*	/* #Data source: 41 SYSDSCAT				
					1090	*	/* #Data source: 42 SYSDSCATV				
					1091	*	/* -ReasonCode 05 DSN not catalogued				
					1092	*	/* -JMSG'RC=xxx DSCB-Fx CAMLIST NAME error'				
					1093	*	/* - R3 Working Register				
					1094	*	/* - R15 Working Register and RC exit code register				
					1095	*	/* *****/				
			00304		1096	LOC8DSN	EQU *				
000304	4130	0000	00000		1097		LA R3,0	ZERO R3			
000308	5030	9330	00330		1098		ST R3,CAMLIST	... FW1 of CAMLIST			
00030C	9244	9330	00330		1099		MVI CAMLIST,X'44'	Indicate NAME option			
000310	4130	9302	00302		1100		LA R3,CAMDSN	Addr of DSN			
000314	5030	9334	00334		1101		ST R3,CAMLIST+4	... FW2 of CAMLIST			
000318	4130	0000	00000		1102		LA R3,0	ZERO R3			
00031C	5030	9338	00338		1103		ST R3,CAMLIST+8	... FW3 of CAMLIST			
000320	4130	9340	00340		1104		LA R3,LOCATEA	Addr of LOCATEA			
000324	5030	933C	0033C		1105		ST R3,CAMLIST+12	... FW4 of CAMLIST			
					1106	*					
					1107		LOCATE CAMLIST	Search for DSN via catalog			
00032E	12FF				1110		LTR R15,R15	Found DSN?			
000330	4780	A376	00376		1111		BZ DSNFOUND	YES, branch to DSNFOUND			
					1112	*		NO, dataset not on catalog			
000334	92D5	9231	00231		1113		MVI DDSCAT,C'N'	Dataset catalogued NO			
000338	95E8	92F8	002F8		1114		CLI PVOL,C'Y'	Volume parm specified?			
00033C	4780	A446	00446		1115		BE DSCBF1	YES, attempt fetch per given VOL			
					1116	*		NO. Error DSN not found in catlg			
000340	D22B	9070	92C6	00070	002C6	1117	MVC DDSN,PDSN	Dataset name from PARMIN			
000346	D21F	909C	BDE2	0009C	01DE2	1118	MVC DJMSG(L'MSGJ020),MSGJ020	Move to &SYSLISTDSJMSG			
00034C	4EF0	9280	00280		1119		CVD R15,DW	Convert to decimal			
000350	F321	909F	9286	0009F	00286	1120	UNPK DJMSG+3(3),DW+6(2)	Unpack and			
000356	96F0	90A1	000A1		1121		OI DJMSG+5,X'F0'	... force and F zone			
00035A	D207	90A3	B578	000A3	01578	1122	MVC DJMSG+07(8),=C'LOCATE '				
000360	D201	9100	B5F2	00100	015F2	1123	MVC DRSNCODE,=C'05'	Dataset not catalogued			
000366	D203	928C	B5A0	0028C	015A0	1124	MVC RCEXIT,=F'16'				
00036C	D201	92BA	B5F4	002BA	015F4	1125	MVC RC,=C'16'				
000372	47F0	AF18	00F18		1126		B ENDME	Done, exit.			
					1127	*					
			00376		1128	DSNFOUND	EQU *				
000376	92E8	9231	00231		1129		MVI DDSCAT,C'Y'	Dataset catalogued YES			
00037A	D205	9232	9346	00232	00346	1130	MVC DDSCATV,LOCAVSR	Dataset catalogued VOLUME			
000380	D22B	9070	9302	00070	00302	1131	MVC DDSN,CAMDSN	Dataset name from catalog			
					1132	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1134	*	*/*****	
					1135	*	/* Number of Volumes for this dataset name	*/
					1136	*	/* #Data source: 40 SYSNUMVOLS	*/
					1137	*	/* - R5 Working Register	*/
					1138	*	*/*****	
			00386		1139	NUMVOL	EQU *	
000386	D703	9288	9288	00288	00288	1140	XC FW,FW	Clear contents
00038C	D201	928A	9340	0028A	00340	1141	MVC FW+2(2),LOCA#VOL	Get Number of Volumes
000392	5850	9288		00288		1142	L R5,FW	... and convert
000396	4E50	9280		00280		1143	CVD R5,DW	... to decimal
00039A	F321	91E3	9286	001E3	00286	1144	UNPK DNUMVOL,DW+6(2)	Unpack and
0003A0	96F0	91E5		001E5		1145	OI DNUMVOL+2,X'F0'	... force and F zone
			003A4		1146	NUMVOLXT	EQU *	
					1147	*	*/*****	
					1148	*	/* Volume list for multivolume datasets	*/
					1149	*	/* #Data source: 45 SYSVOLUMES	*/
					1150	*	/* Limited by DVOLLST# and DVOLLST	*/
					1151	*	/* - R5 contains number of volumes from NUMVOL above	*/
					1152	*	/* - R3, R4, R5, R6 Working Register	*/
					1153	*	/* - R3, R4, R5, R6 Working Register	*/
					1154	*	*/*****	
0003A4	9240	9242		00242		1155	MVI DVOLLST,C' '	Clear DVOLLST
0003A8	D221	9243	9242	00243	00242	1156	MVC DVOLLST+1(L'DVOLLST-1),DVOLLST	
0003AE	4130	9242		00242		1157	LA R3,DVOLLST	R3=addr of DVOLLST
0003B2	4140	9346		00346		1158	LA R4,LOCAVSER	R4=addr of LOCATEA VOLSER
0003B6	4160	0005		00005		1159	LA R6,DVOLLST#	R6=max DVOLLST volumes
0003BA	1956					1160	CR R5,R6	R5>=R6?
0003BC	4780	A3C6		003C6		1161	BE VOLLST	NO, branch to VOLLST
0003C0	4740	A3C6		003C6		1162	BL VOLLST	NO, branch to VOLLST
0003C4	1856					1163	LR R5,R6	YES. Init R5 to R6
			003C6		1164	VOLLST	EQU *	
0003C6	D205	3000	4000	00000	00000	1165	MVC 0(6,R3),0(R4)	Move VOLUME to list
0003CC	4144	000C		0000C		1166	LA R4,LOCAVLLN(R4)	Point to next VOLUME
0003D0	4133	0007		00007		1167	LA R3,7(R3)	Point to next Vol List
0003D4	4650	A3C6		003C6		1168	BCT R5,VOLLST	Do R5 times
			003D8		1169	VOLLSTXT	EQU *	
					1170	*	*/*****	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1172	*	/* ***** */	
					1173	*	/* Check for multiple volumes and DASD device */	
					1174	*	/* #Data source: 21 SYSVOLUME (1 of 02) */	
					1175	*	/* -ReasonCode 19 Data set on multiple volumes */	
					1176	*	/* -ReasonCode 26 Data set on MSS (Mass Storage) device */	
					1177	*	/* ***** */	
				003D8	1178	CHKVOLS	EQU *	Check for MULTI volumes
0003D8	D501	9340	B5F6	00340	015F6	1179	CLC LOCA#VOL,=X'0001'	Volumes = 1?
0003DE	4780	A402		00402		1180	BE SINGLVOL	
0003E2	D501	9340	B5F8	00340	015F8	1181	CLC LOCA#VOL,=X'0000'	Volumes = 0?
0003E8	4780	A430		00430		1182	BE DSERR	
				003EC	1183	MULTIVOL	EQU *	
0003EC	D201	9100	B5FA	00100	015FA	1184	MVC DRSNCODE,=C'19'	Dataset is on mutilple volumes
0003F2	D203	928C	B5A0	0028C	015A0	1185	MVC RCEXIT,=F'16'	
0003F8	D201	92BA	B5F4	002BA	015F4	1186	MVC RC,=C'16'	
0003FE	47F0	AF18		00F18		1187	B ENDME	Done, exit.
				00402	1188	SINGLVOL	EQU *	
000402	D205	9152	9346	00152	00346	1189	MVC DVOLSER,LOCAVSER	LOAD VOLSER FROM CAMLST WORKAREA
000408	D205	92FC	9152	002FC	00152	1190	MVC OBTVOL(6),DVOLSER	MOVE VOLSER TO OBTVOL
00040E	9580	9344		00344		1191	CLI LOCADEV, X'80'	Dataset on Tape?
000412	4780	A41A		0041A		1192	BE ONTAPE	YES.
				00416	1193	ONDASD	EQU *	NO, DASD entry
000416	47F0	A446		00446		1194	B CHKVOLSX	
				0041A	1195	ONTAPE	EQU *	
00041A	D201	9100	B5FC	00100	015FC	1196	MVC DRSNCODE,=C'26'	Dataset is on MSS device
000420	D203	928C	B5A0	0028C	015A0	1197	MVC RCEXIT,=F'16'	
000426	D201	92BA	B5F4	002BA	015F4	1198	MVC RC,=C'16'	
00042C	47F0	AF18		00F18		1199	B ENDME	Done, exit.
				00430	1200	DSERR	EQU *	
000430	D201	9100	B5FE	00100	015FE	1201	MVC DRSNCODE,=C'06'	Error obtaining dataset
000436	D203	928C	B5A0	0028C	015A0	1202	MVC RCEXIT,=F'16'	
00043C	D201	92BA	B5F4	002BA	015F4	1203	MVC RC,=C'16'	
000442	47F0	AF18		00F18		1204	B ENDME	Done, exit.
				00446	1205	CHKVOLSX	EQU *	
					1206	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1208	*	/* *****/	
					1209	*	/* Get Format-1 IDENTIFIER DATA SET CONTROL BLOCK	*/
					1210	*	/* #Data source: 00 SYSDSNAME (1 of 02)	*/
					1211	*	/* #Data source: 21 SYSVOLUME (2 of 02)	*/
					1212	*	/* -ReasonCode 21 Catalog error locating dataset	*/
					1213	*	/* -ReasonCode 22 Volume not mounted	*/
					1214	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST SEARCH error'	*/
					1215	*	/* - R3 Working Register	*/
					1216	*	/* - R15 Working Register and RC exit code register	*/
					1217	*	/* *****/	
				00446	1218	DSCBF1	EQU *	
000446	95E8	92F8	002F8		1219		CLI PVOL,C'Y'	Volume specified?
00044A	4770	A460	00460		1220		BNE DSCBF1A	NO, branch to fetch format-1 DSCB
					1221	*		YES.
00044E	D202	91E3	B63E	001E3	0163E	1222	MVC DNUMVOL,=C'001'	Number of volumes = 1
000454	D205	92FC	92F2	002FC	002F2	1223	MVC OBTVOL,PVOLSER	Override OBTVOL per given VOL
00045A	D205	9152	92F2	00152	002F2	1224	MVC DVOLSER,PVOLSER	LOAD VOLSER FROM given VOL
				00460	1225	DSCBF1A	EQU *	
000460	4130	0000	00000		1226		LA R3,0	ZERO R3
000464	5030	9330	00330		1227		ST R3,CAMLST	... FW1 of CAMLIST
000468	92C1	9330	00330		1228		MVI CAMLIST,X'C1'	Request SEARCH
00046C	4130	9302	00302		1229		LA R3,CAMDSN	Addr of DSN
000470	5030	9334	00334		1230		ST R3,CAMLST+4	... FW2 of CAMLIST
000474	4130	92FC	002FC		1231		LA R3,OBTVOL	Addr of OBTVOL
000478	5030	9338	00338		1232		ST R3,CAMLST+8	... FW3 of CAMLIST
00047C	4130	9450	00450		1233		LA R3,OBTAINA	Addr of OBTAINA
000480	5030	933C	0033C		1234		ST R3,CAMLST+12	... FW4 of CAMPLIST
					1235	*		
					1236		OBTAIN CAMLIST	Get F1 DSCB
00048A	12FF				1239		LTR R15,R15	Successful?
00048C	4780	A4B4	004B4		1240		BZ OBTR00	YES.
					1241	*		NO.
000490	D22B	9070	92C6	00070	002C6	1242	MVC DDSN,PDSN	Dataset name from PARMIN
000496	D221	909C	BE02	0009C	01E02	1243	MVC DJMSG(L'MSGJ021),MSGJ021	Move to &SYSLISTDSJMSG
00049C	4EF0	9280	00280		1244		CVD R15,DW	Convert to decimal
0004A0	F321	909F	9286	0009F	00286	1245	UNPK DJMSG+3(3),DW+6(2)	Unpack and
0004A6	96F0	90A1	000A1		1246		OI DJMSG+5,X'F0'	... force and F zone
0004AA	D200	90A9	B641	000A9	01641	1247	MVC DJMSG+13(1),=C'1'	Mark as F1 request on err msg
					1248	*		
0004B0	47F0	AFEE	00FEE		1249		B CAMRCERR	
				004B4	1250	OBTR00	EQU *	
0004B4	D22B	9070	9302	00070	00302	1251	MVC DDSN,CAMDSN	Dataset name from F1
0004BA	D205	9152	92FC	00152	002FC	1252	MVC DVOLSER,OBTVOL	Save VOLUME
					1253	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1255	*	/* *****	*/
					1256	*	/* Get Format-2 ISAM DATA SET CONTROL BLOCK	*/
					1257	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST SEEK error'	*/
					1258	*	/* - R3 Working Register	*/
					1259	*	/* - R15 Working Register and RC exit code register	*/
					1260	*	/* *****	*/
			004C0		1261	DSCBF2	EQU *	
0004C0	9180	9476	00476		1262		TM DS1DSORG,X'80'	ISAM ?
0004C4	47E0	A51A	0051A		1263		BNO DSCBF3	NO, bypass DSCB-F2 and get DSCB-F3
0004C8	4130	0000	00000		1264		LA R3,0	ZERO R3
0004CC	5030	9330	00330		1265		ST R3,CAMLIST	... FW1 of CAMLIST
0004D0	92C0	9330	00330		1266		MVI CAMLIST,X'C0'	Request SEEK
0004D4	9280	9331	00331		1267		MVI CAMLIST+1,X'80'	
0004D8	4130	94AB	004AB		1268		LA R3,DS1PTRDS	CCHHR OF FORMAT 2 DSCB
0004DC	5030	9334	00334		1269		ST R3,CAMLIST+4	... FW2 of CAMLIST
0004E0	4130	92FC	002FC		1270		LA R3,OBTVOL	Addr of OBTVOL
0004E4	5030	9338	00338		1271		ST R3,CAMLIST+8	... FW3 of CAMLIST
0004E8	4130	94B0	004B0		1272		LA R3,IECSDSF2	Addr of FORMAT 2 DSCB
0004EC	5030	933C	0033C		1273		ST R3,CAMLIST+12	... FW4 of CAMLIST
					1274	*		
					1275		OBTAIN CAMLIST	Get F2 DSCB (Extents)
0004F6	12FF				1278		LTR R15,R15	Successful?
0004F8	4780	A51A	0051A		1279		BZ DSCBF2X	YES.
					1280	*		NO.
0004FC	D21F	909C	BE24	0009C	01E24	1281	MVC DJMSG(L'MSGJ022),MSGJ022	Move to &SYSLISTDSJMSG
000502	4EF0	9280		00280		1282	CVD R15,DW	Convert to decimal
000506	F321	909F	9286	0009F	00286	1283	UNPK DJMSG+3(3),DW+6(2)	Unpack and
00050C	96F0	90A1		000A1		1284	OI DJMSG+5,X'F0'	... force and F zone
000510	D200	90A9	B642	000A9	01642	1285	MVC DJMSG+13(1),=C'2'	Mark as F2 request on err msg
					1286	*		
000516	47F0	AFEE		00FEE		1287	B CAMRCERR	
				0051A	1288	DSCBF2X	EQU *	
					1289	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1291	*	*/*****				
					1292	*	/* Get Format-3 EXTENSION DATA SET CONTROL BLOCK				
					1293	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST SEEK error'				
					1294	*	/* - R3 Working Register				
					1295	*	/* - R15 Working Register and RC exit code register				
					1296	*	*/*****				
			0051A		1297	DSCBF3	EQU *				
00051A	9503	945F	0045F		1298		CLI DS1NOEPV,3	Dataset > 3 Extents?			
00051E	47D0	A580	00580		1299		BNH DSCBF3X	NO. F3 DSCB not needed!			
000522	4130	0000	00000		1300		LA R3,0	ZERO R3			
000526	5030	9330	00330		1301		ST R3,CAMLST	... FW1 of CAMLIST			
00052A	92C0	9330	00330		1302		MVI CAMLIST,X'C0'	Request SEEK			
00052E	9280	9331	00331		1303		MVI CAMLIST+1,X'80'				
000532	4130	94AB	004AB		1304		LA R3,DS1PTRDS	CCHHR OF FORMAT 3 DSCB			
000536	9180	9476	00476		1305		TM DS1DSORG,X'80'	ISAM ?			
00053A	47E0	A542	00542		1306		BNO *+8	NO.			
00053E	4130	9537	00537		1307		LA R3,DS2PTRDS	CCHHR OF FORMAT 3 DSCB			
000542	5030	9334	00334		1308		ST R3,CAMLST+4	... FW2 of CAMLIST			
000546	4130	92FC	002FC		1309		LA R3,OBTVOL	Addr of OBTVOL			
00054A	5030	9338	00338		1310		ST R3,CAMLST+8	... FW3 of CAMLIST			
00054E	4130	953C	0053C		1311		LA R3,IECSDSF3	Addr of FORMAT 3 DSCB			
000552	5030	933C	0033C		1312		ST R3,CAMLST+12	... FW4 of CAMLIST			
					1313	*					
					1314		OBTAIN CAMLIST	Get F3 DSCB (Extents)			
00055C	12FF				1317		LTR R15,R15	Successful?			
00055E	4780	A580	00580		1318		BZ DSCBF3X	YES.			
					1319	*		NO.			
000562	D21F	909C	BE24	0009C	01E24	1320	MVC DJMSG(L'MSGJ022),MSGJ022	Move to &SYSLISTDSJMSG			
000568	4EF0	9280		00280		1321	CVD R15,DW	Convert to decimal			
00056C	F321	909F	9286	0009F	00286	1322	UNPK DJMSG+3(3),DW+6(2)	Unpack and			
000572	96F0	90A1		000A1		1323	OI DJMSG+5,X'F0'	... force and F zone			
000576	D200	90A9	B643	000A9	01643	1324	MVC DJMSG+13(1),=C'3'	Mark as F3 request on err msg			
					1325	*					
00057C	47F0	AFEE	00FEE		1326		B CAMRCERR				
			00580		1327	DSCBF3X	EQU *				
					1328	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19	
					1330	*	/* *****/		
					1331	*	/* Get Format-4 DSCB for VOLUME device characterics	*/	
					1332	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST NAME error'	*/	
					1333	*	/* - R3 Working Register	*/	
					1334	*	/* - R15 Working Register and RC exit code register	*/	
					1335	*	/* *****/		
			00580		1336	DSCBF4	EQU *		
000580	9204	9302	00302		1337	MVI	CAMDSN,X'04'	Set to F4 DSCB	
000584	D22A	9303	9302	00303	1338	MVC	CAMDSN+1(L'CAMDSN-1),CAMDSN		
					1339	*			
00058A	4130	0000	00000		1340	LA	R3,0	ZERO R3	
00058E	5030	9330	00330		1341	ST	R3,CAMLST	... FW1 of CAMLIST	
000592	92C1	9330	00330		1342	MVI	CAMLST,X'C1'	INDICATE NAME OPTION	
000596	4130	9302	00302		1343	LA	R3,CAMDSN	Addr of DSN	
00059A	5030	9334	00334		1344	ST	R3,CAMLST+4	... FW2 of CAMLIST	
00059E	4130	92FC	002FC		1345	LA	R3,OBTVOL	Addr of OBTVOL	
0005A2	5030	9338	00338		1346	ST	R3,CAMLST+8	... FW3 of CAMLIST	
0005A6	4130	95C8	005C8		1347	LA	R3,IECSDSF4	Addr of FORMAT 4 DSCB	
0005AA	5030	933C	0033C		1348	ST	R3,CAMLST+12	... FW4 of CAMLIST	
					1349	*			
					1350		OBTAIN CAMLIST	Get F4 DSCB (Volume Info)	
0005B4	12FF				1353	LTR	R15,R15	Successful?	
0005B6	4780	A5D8	005D8		1354	BZ	DSCBF4X	YES.	
					1355	*		NO.	
0005BA	D21F	909C	BDE2	0009C	01DE2	1356	MVC	DJMSG(L'MSGJ020),MSGJ020	Move to &SYSLISTDSJMSG
0005C0	4EF0	9280	00280		1357	CVD	R15,DW	Convert to decimal	
0005C4	F321	909F	9286	0009F	00286	1358	UNPK	DJMSG+3(3),DW+6(2)	Unpack and
0005CA	96F0	90A1	000A1		1359	OI	DJMSG+5,X'F0'	... force and F zone	
0005CE	D200	90A9	B644	000A9	01644	1360	MVC	DJMSG+13(1),=C'4'	Mark as F4 request on err msg
					1361	*			
0005D4	47F0	AFEE	00FEE		1362	B	CAMRCERR		
			005D8		1363	DSCBF4X	EQU *		
					1364	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1366	*	*/*****	
					1367	*	/* Cylinders for Volume	from format-4 DSCB */
					1368	*	/* #Data source: 29 SYSCYLVOL	*/
					1369	*	/* - R3 Working Register	*/
					1370	*	*/*****	
0005D8	4830	95DA	005DA		1371		LH R3,DS4DEVSZ	Cylinders for volume
0005DC	5030	92A0	002A0		1372		ST R3,CYL4VOL	
0005E0	4E30	9280	00280		1373		CVD R3,DW	Convert to decimal
0005E4	F342	9204	9285 00204	00285	1374		UNPK DCYL4VOL(5),DW+5(3)	Unpack and
0005EA	96F0	9208	00208		1375		OI DCYL4VOL+4,X'F0'	... force and F zone
					1376	*	*/*****	
					1377	*	/* Tracks per Cylinder for Volume	from format-4 DSCB */
					1378	*	/* #Data source: 30 SYSTRKSCYL	*/
					1379	*	/* - R3 Working Register	*/
					1380	*	*/*****	
					1381	*	*/*****	
0005EE	4830	95DC	005DC		1382		LH R3,DS4DEVSZ+2	Tracks/Cylinder
0005F2	5030	9290	00290		1383		ST R3,TRKSCYL	
0005F6	4E30	9280	00280		1384		CVD R3,DW	Convert to decimal
0005FA	F342	91F5	9285 001F5	00285	1385		UNPK DTRKSCYL(5),DW+5(3)	Unpack and
000600	96F0	91F9	001F9		1386		OI DTRKSCYL+4,X'F0'	... force and F zone
					1387	*	*/*****	
					1388	*	/* Track Length for volume	from format-4 DSCB */
					1389	*	/* #Data source: 34 SYSTRKLEN	*/
					1390	*	/* - R3 Working Register	*/
					1391	*	*/*****	
					1392	*	*/*****	
000604	4830	95DE	005DE		1393		LH R3,DS4DEVTK	Track Length
000608	5030	9294	00294		1394		ST R3,TRKLEN	
00060C	4E30	9280	00280		1395		CVD R3,DW	Convert to decimal
000610	F342	91FA	9285 001FA	00285	1396		UNPK DTRKLEN(5),DW+5(3)	Unpack and
000616	96F0	91FE	001FE		1397		OI DTRKLEN+4,X'F0'	... force and F zone
					1398	*	*/*****	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					1400	*	*/*****	0201 09.46 05/07/19
					1401	*	/* Capacity for volume =	
					1402	*	/* Cylinders for Volume * Tracks per Cylinder *	
					1403	*	/* Track Length	
					1404	*	/* #Data source: 35 SYSUNITCAP	
					1405	*	/* - R2, R3 Working Registers	
					1406	*	*/*****	
00061A	5830	92A0	002A0		1407		L R3,CYL4VOL R3=CYLS for volume	
00061E	5C20	9290	00290		1408		M R2,TRKSCYL (R2,R3)=CYL4VOL*TRKSCYL	
					1409	*	R3 tracks for volume	
000622	5C20	9294	00294		1410		M R2,TRKLEN (R2,R3)=R3*TRKLEN	
000626	4E30	9280	00280		1411		CVD R3,DW Convert to decimal	
00062A	F3E7	9209	9280 00209	00280	1412		UNPK DUNITCAP,DW Unpack and	
000630	96F0	9217	00217		1413		OI DUNITCAP+14,X'F0' ... force and F zone	
					1414	*	*/*****	
					1415	*	/* Blocks per Track =	
					1416	*	/* Track Length / Blocksize	
					1417	*	/* #Data source: 36 SYSBLKSTRK	
					1418	*	/* - R2, R3 Working Registers	
					1419	*	*/*****	
					1420	*	*/*****	
000634	1B33				1421		SR R3,R3 Zero R3	
000636	D501	947A	B600 0047A	01600	1422		CLC DS1BLKL,=H'0' Is BLOCKSIZE 0?	
00063C	4780	A658	00658		1423		BE BLKTRKC YES, BLKTRKC is 0	
000640	5830	9294	00294		1424		L R3,TRKLEN NO, compute BLKTRKC	
000644	5C20	B5A4	015A4		1425		M R2,=F'1'	
000648	D703	9288	9288 00288	00288	1426		XC FW,FW Clear FW	
00064E	D201	928A	947A 0028A	0047A	1427		MVC FW+2(2),DS1BLKL Move BLOCKSIZE	
000654	5D20	9288	00288		1428		D R2,FW TrackLength/Blocksize	
				00658	1429	BLKTRKC	EQU *	
000658	4E30	9280	00280		1430		CVD R3,DW Convert to decimal	
00065C	F342	91FF	9285 001FF	00285	1431		UNPK DBLKTRK(5),DW+5(3) Unpack and	
000662	96F0	9203	00203		1432		OI DBLKTRK+4,X'F0' ... force and F zone	
000666	5030	92AC	002AC		1433		ST R3,BLKSPTRK Store blocks per track	
					1434	*	*/*****	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1436	*	/* ***** */	/*
					1437	*	/* Total Space Allocation	*/
					1438	*	/* - Sum extents; 3 F1, 4 F3, 9 F3	*/
					1439	*	/* - R1, R2, R3, R4, R5, R7 Working Registers	*/
					1440	*	/* ***** */	*/
				0066A	1441	SUMEXT	EQU *	
00066A	9500	945F	0045F		1442		CLI DS1NOEPV,0	Extents to process?
00066E	4780	A6D2	006D2		1443		BE SUMEXTXT	NO. Zero.
000672	1B22				1444		SR R2,R2	Zero, R2 = TRK Counter (HH)
000674	1B33				1445		SR R3,R3	Zero, R3 = CYL Counter (CC)
					1446	*	/* ----- */	*/
					1447	*	/* Sum- 1st 3 extents in F1 DSCB	*/
					1448	*	/* ----- */	*/
000676	4140	948D	0048D		1449		LA R4,DS1EXT1	Addr of 1st extent (F1)
00067A	4150	0003	00003		1450		LA R5,3	3 times...
				0067E	1451	EXTF1	EQU *	
00067E	9500	4000	00000		1452		CLI 0(R4),X'00'	Extent slot null?
000682	4780	A6D2	006D2		1453		BE SUMEXTXT	YES, Done.
000686	4570	B290	01290		1454		BAL R7,TOTEXTS	Sum extents
00068A	4144	000A	0000A		1455		LA R4,10(R4)	Point to next extent
00068E	4650	A67E	0067E		1456		BCT R5,EXTF1	
					1457	*	/* ----- */	*/
					1458	*	/* Sum- Count F3 DSCB extents?	*/
					1459	*	/* ----- */	*/
000692	9503	945F	0045F		1460		CLI DS1NOEPV,3	Dataset > 3 Extents?
000696	47D0	A6D2	006D2		1461		BNH SUMEXTXT	NO. Done...
					1462	*	/* ----- */	*/
					1463	*	/* Sum- 4 extents in F3 DSCB	*/
					1464	*	/* ----- */	*/
00069A	4140	9540	00540		1465		LA R4,DS3EXTNT	Addr of 1st extent (F3)
00069E	4150	0004	00004		1466		LA R5,4	4 times...
				006A2	1467	EXTF3	EQU *	
0006A2	9500	4000	00000		1468		CLI 0(R4),X'00'	Extent slot null?
0006A6	4780	A6D2	006D2		1469		BE SUMEXTXT	YES, Done.
0006AA	4570	B290	01290		1470		BAL R7,TOTEXTS	Sum extents
0006AE	4144	000A	0000A		1471		LA R4,10(R4)	Point to next extent
0006B2	4650	A6A2	006A2		1472		BCT R5,EXTF3	
					1473	*	/* ----- */	*/
					1474	*	/* Sum- last 9 extents in F3 DSCB	*/
					1475	*	/* ----- */	*/
0006B6	4140	9569	00569		1476		LA R4,DS3ADEXT	Addr of 1st extent (F3)
0006BA	4150	0009	00009		1477		LA R5,9	9 times...
				006BE	1478	EXTF3B	EQU *	
0006BE	9500	4000	00000		1479		CLI 0(R4),X'00'	Extent slot null?
0006C2	4780	A6D2	006D2		1480		BE SUMEXTXT	YES, Done.
0006C6	4570	B290	01290		1481		BAL R7,TOTEXTS	Sum extents
0006CA	4144	000A	0000A		1482		LA R4,10(R4)	Point to next extent
0006CE	4650	A6BE	006BE		1483		BCT R5,EXTF3B	
					1484	*	/* ----- */	*/
				006D2	1485	SUMEXTXT	EQU *	
					1486	*	/* ----- */	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1488	*	* /*-----*/				
					1489	*	* /* TOTALS R2=TRKS, R3=CYL				
					1490	*	* /*-----*/				
0006D2	1812				1491		LR R1,R2 R1=TRKS accumulated				
0006D4	5C20	9290	00290		1492		M R2,TRKSCYL CYL to TRKS (R2,R3)				
0006D8	1A31				1493		AR R3,R1 R3=Total TRKS allocated				
					1494	*	*				
					1495	*	* /*-----*/				
					1496	*	* /* Total Allocated Tracks				
					1497	*	* /* #Data source: 26 SYSTRKSALLOC				
					1498	*	* /*-----*/				
0006DA	4E30	9280	00280		1499		CVD R3,DW Convert to decimal				
0006DE	F342	91E6	9285	001E6	1500		UNPK DTRKSAL(5),DW+5(3) Unpack and				
0006E4	96F0	91EA		001EA	1501		OI DTRKSAL+4,X'F0' ... force and F zone				
0006E8	5030	9298	00298		1502		ST R3,TRKSTOTA Store tot alloc tracks				
					1503	*	*				
					1504	*	* /*-----*/				
					1505	*	* /* Total Allocated Cylinders				
					1506	*	* /*-----*/				
0006EC	1813				1507		LR R1,R3 R1=Total Allocated Tracks				
0006EE	5D20	9290	00290		1508		D R2,TRKSCYL Revise CYL and TRK (R2,R3)				
0006F2	5030	92A4	002A4		1509		ST R3,CYLSTOTA Store tot alloc cys				
					1510	*	*				
					1511	*	* /*-----*/				
					1512	*	* /* TOTALS: R2=TRKS, R3=CYL				
					1513	*	* /*-----*/				
					1514	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1516	*	/* ***** */	
					1517	*	/* Space Used in Tracks for PS and PO Organization */	
					1518	*	/* - R1, R2 Working Registers */	
					1519	*	/* ***** */	
			006F6		1520	SPCUSED	EQU *	
0006F6	9140	9476	00476		1521	TM	DS1DSORG,X'40'	PS SEQ Dataset ?
0006FA	4710	A710	00710		1522	BO	SPCUSEDX	YES, continue.
0006FE	9102	9476	00476		1523	TM	DS1DSORG,X'02'	PO PDS Dataset ?
000702	4710	A710	00710		1524	BO	SPCUSEDX	YES, continue.
000706	D703	929C	929C 0029C	0029C	1525	XC	TTRKUSED,TTRKUSED	Clear Total Used Tracks
00070C	47F0	A744	00744		1526	B	SPCUSEDX	NO, Exit.
			00710		1527	SPCUSEDX	EQU *	
000710	1B22				1528	SR	R2,R2	R2=Total Tracks Used
000712	BF23	9486	00486		1529	ICM	R2,B'0011',DS1LSTAR	Last Block Written TT of TTR
000716	9500	9488	00488		1530	CLI	DS1LSTAR+2,0	Portion of track used? R of TTR
00071A	4780	A722	00722		1531	BE	TOTUSED	NO.
00071E	4122	0001	00001		1532	LA	R2,1(R2)	YES, add 1 to tracks
					1533	*	/* ***** */	
					1534	*	/* Total Used Tracks */	
					1535	*	/* #Data source: 24 SYSTRKSUSED */	
					1536	*	/* ***** */	
			00722		1538	TOTUSED	EQU *	
000722	5020	929C	0029C		1539	ST	R2,TTRKUSED	Store total tracks used
000726	4E20	9280	00280		1540	CVD	R2,DW	Convert to decmial
00072A	F342	91EB	9285 001EB	00285	1541	UNPK	DTRKSUS(5),DW+5(3)	Unpack and
000730	96F0	91EF	001EF		1542	OI	DTRKSUS+4,X'F0'	... force and F zone
					1543	*	/* ***** */	
					1544	*	/* Total Unused Tracks */	
					1545	*	/* #Data source: 28 SYSTRKSUNUSED */	
					1546	*	/* ***** */	
			00734		1548	TOTUSED	EQU *	
000734	1B12				1549	SR	R1,R2	R1=Unused tracks
000736	4E10	9280	00280		1550	CVD	R1,DW	Convert to decmial
00073A	F342	91F0	9285 001F0	00285	1551	UNPK	DTRKSUUS(5),DW+5(3)	Unpack and
000740	96F0	91F4	001F4		1552	OI	DTRKSUUS+4,X'F0'	... force and F zone
			00744		1553	SPCUSEDX	EQU *	
					1554	*	/* ***** */	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1556	*	/* *****/	
					1557	*	/* Logical Record Length	*/
					1558	*	/* #Data source: 10 SYSLRECL	*/
					1559	*	/* - R3 Working Register	*/
					1560	*	/* *****/	
			00744		1561	LRECL	EQU *	
000744	D703	9288	9288	00288	00288	1562	XC FW,FW	Clear contents
00074A	D201	928A	947C	0028A	0047C	1563	MVC FW+2(2),DS1LRECL	Get LRECL
000750	5830	9288		00288		1564	L R3,FW	... and convert
000754	4E30	9280		00280		1565	CVD R3,DW	... to decimal
000758	F342	9158	9285	00158	00285	1566	UNPK DLRECL(5),DW+5(3)	Unpack and
00075E	96F0	915C		0015C		1567	OI DLRECL+4,X'F0'	... force and F zone
			00762		1568	LRECLXT	EQU *	
					1569	*	/* *****/	
					1570	*	/* *****/	
					1571	*	/* Blocksize	*/
					1572	*	/* #Data source: 11 SYSBLKSIZE	*/
					1573	*	/* - R3 Working Register	*/
					1574	*	/* *****/	
			00762		1575	BLKSIZ	EQU *	
000762	D703	9288	9288	00288	00288	1576	XC FW,FW	Clear contents
000768	D201	928A	947A	0028A	0047A	1577	MVC FW+2(2),DS1BLKL	Get BLKSIZE
00076E	5830	9288		00288		1578	L R3,FW	... and convert
000772	4E30	9280		00280		1579	CVD R3,DW	... to decimal
000776	F342	915D	9285	0015D	00285	1580	UNPK DBLKSZ(5),DW+5(3)	Unpack and
00077C	96F0	9161		00161		1581	OI DBLKSZ+4,X'F0'	... force and F zone
			00780		1582	BLKSIZXT	EQU *	
					1583	*	/* *****/	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1585	*	/* *****/				
					1586	*	/* Keylength				
					1587	*	/* #Data source: 12 SYSKEYLEN				
					1588	*	/* - R3 Working Register				
					1589	*	/* *****/				
				00780	1590	KEYL	EQU *				
000780	D703	9288	9288	00288	00288	1591	XC FW,FW	Clear contents			
000786	D200	928B	947E	0028B	0047E	1592	MVC FW+3(1),DS1KEYL	Get KEY LENGTH			
00078C	5830	9288		00288		1593	L R3,FW	... and convert			
000790	4E30	9280		00280		1594	CVD R3,DW	... to decimal			
000794	F321	91AF	9286	001AF	00286	1595	UNPK DKEYL(3),DW+6(2)	Unpack and			
00079A	96F0	91B1		001B1		1596	OI DKEYL+2,X'F0'	... force and F zone			
				0079E	1597	KEYLXT	EQU *				
					1598	*	/* *****/				
					1599	*	/* *****/				
					1600	*	/* Relative Key Position				
					1601	*	/* #Data source: 13 SYSKEYPOS				
					1602	*	/* - R3 Working Register				
					1603	*	/* *****/				
				0079E	1604	RKP	EQU *				
00079E	D703	9288	9288	00288	00288	1605	XC FW,FW	Clear contents			
0007A4	D201	928A	947F	0028A	0047F	1606	MVC FW+2(2),DS1RKP	Get RELATIVE KEY POSITION			
0007AA	5830	9288		00288		1607	L R3,FW	... and convert			
0007AE	4E30	9280		00280		1608	CVD R3,DW	... to decimal			
0007B2	F342	91B2	9285	001B2	00285	1609	UNPK DRKP(5),DW+5(3)	Unpack and			
0007B8	96F0	91B6		001B6		1610	OI DRKP+4,X'F0'	... force and F zone			
				007BC	1611	RKPXT	EQU *				
					1612	*	/* *****/				
					1613	*	/* *****/				
					1614	*	/* Extents Allocated				
					1615	*	/* #Data source: 25 SYSEXTENTS				
					1616	*	/* - R3 Working Register				
					1617	*	/* *****/				
				007BC	1618	EXTS	EQU *				
0007BC	D703	9288	9288	00288	00288	1619	XC FW,FW	Clear contents			
0007C2	D200	928B	945F	0028B	0045F	1620	MVC FW+3(1),DS1N0EPV	Get ALLOCATED EXTENTS			
0007C8	5830	9288		00288		1621	L R3,FW	... and convert			
0007CC	4E30	9280		00280		1622	CVD R3,DW	... to decimal			
0007D0	F321	91E0	9286	001E0	00286	1623	UNPK DEXTS(3),DW+6(2)	Unpack and			
0007D6	96F0	91E2		001E2		1624	OI DEXTS+2,X'F0'	... force and F zone			
				007DA	1625	EXTSXT	EQU *				
					1626	*	/* *****/				

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1628	*	/* *****/	
					1629	*	/* Dataset Organization	*/
					1630	*	/* #Data source: 08 SYSDSORG	*/
					1631	*	/* -JMSG'DSORG Type xxx not defined in table'	*/
					1632	*	/* - R2, R3, R4, R5 Working Registers	*/
					1633	*	/* *****/	*/
				007DA	1634	DSORG	EQU *	
0007DA	4130	A848	00848		1635		LA R3,TBLDSOB	Address of TBL
0007DE	4140	0005	00005		1636		LA R4,TBLDSOE	Number of tbl entries
0007E2	1B55				1637		SR R5,R5	Clear R5
				007E4	1638	DSORGLP	EQU *	
0007E4	4120	9476	00476		1639		LA R2,DS1DSORG	Address of DSORG
0007E8	4A23	0000	00000		1640		AH R2,0(R3)	Adj Addr of DSORG
0007EC	BF51	3002	00002		1641		ICM R5,B'0001',2(R3)	Load DSORG bit pattern
0007F0	4450	A844	00844		1642		EX R5,TMDSORG	Execute TM
0007F4	4710	A82E	0082E		1643		BO DS0#FND	Found DSORG Type
0007F8	4133	0006	00006		1644		LA R3,TBLDSOL(R3)	Otherwise, check next
0007FC	4640	A7E4	007E4		1645		BCT R4,DSORGLP	... TBLDS0 entry
					1646	*		Exhausted TBLDS entries, not found
000800	D222	909C	BE44	0009C	01E44	1647	MVC DJMSG(L'MSGJ025),MSGJ025	Move to &SYSLISTDSJMSG
000806	D209	909C	B602	0009C	01602	1648	MVC DJMSG(10),=C'DSORG Type'	
00080C	D703	9288	9288	00288	00288	1649	XC FW,FW	
000812	D200	928B	9476	0028B	00476	1650	MVC FW+3(1),DS1DSORG	
000818	58F0	9288		00288		1651	L R15,FW	
00081C	4EF0	9280		00280		1652	CVD R15,DW	Convert to decimal
000820	F321	90A7	9286	000A7	00286	1653	UNPK DJMSG+11(3),DW+6(2)	Unpack and
000826	96F0	90A9		000A9		1654	OI DJMSG+13,X'F0'	... force and F zone
00082A	47F0	A866		00866		1655	B DSORGXT	
				0082E	1656	*		
00082E	D202	9162	3003	00162	00003	1657	DSO#FND EQU *	
				00834	1658		MVC DDSORG,3(R3)	Move DSORG type
000834	9101	9476		00476		1659	DSOUNMOV EQU *	
000838	4780	A866		00866		1660	TM DS1DSORG,B'00000001'	Unmovable?
00083C	92E4	9164		00164		1661	BZ DSORGXT	YES, movable (default)
000840	47F0	A866		00866		1662	MVI DDSORG+2,C'U'	NO, unmovable
					1663		B DSORGXT	
000844	9100	2000		00000		1664	*	
					1665	TMDSORG	TM 0(R2),B'00000000'	DSORG TM instruction (EX)
					1666	*		- TBLDS0 Table-----
					1667	*		6 bytes / halfword, offset relative to DS1DSORG
					1668	*		per entry+ 01 bytes, DS1DSORG bit pattern
					1669	*		\ 03 bytes, file organization type
					1670	*		-
000848					1671	TBLDSOB	DS 0H	
000848	000080C9E240				1672		DC H'0',B'10000000',C'IS '	ISAM
				00006	1673	TBLDSOL	EQU *-TBLDSOB	** Entry Length
00084E	000040D7E240				1674		DC H'0',B'01000000',C'PS '	Sequential
000854	000020C4C140				1675		DC H'0',B'00100000',C'DA '	Direct
00085A	000002D7D640				1676		DC H'0',B'00000010',C'PO '	Partitioned
000860	000108E5E240				1677		DC H'1',B'00001000',C'VS '	VSAM
				00005	1678	TBLDSOE	EQU (*-TBLDSOB)/TBLDSOL	** Num of entries
				00866	1680	DSORGXT	EQU *	
					1681	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1683	*	*/*****	
					1684	*	/* Length Attribute (F,V,U)	*/
					1685	*	/* - R2, R3, R4, R5 Working Registers	*/
					1686	*	*/*****	
				00866	1687	LENTY	EQU *	
000866	9240	9165	00165		1688	MVI	DRECFM,C' ' Clear DRECFM	
00086A	D203	9166	9165	00166	00165	MVC	DRECFM+1(L'DRECFM-1),DRECFM	
000870	4130	A8A4	008A4		1690	LA	R3,TBLRFM1B Address of TBL	
000874	4140	0003	00003		1691	LA	R4,TBLRFM1E Number of tbl entries	
000878	4120	9478	00478		1692	LA	R2,DS1RECFM Address of DS1RECFM	
00087C	1B55				1693	SR	R5,R5 Clear R5	
				0087E	1694	LENTYLP	EQU *	
00087E	BF51	3000	00000		1695	ICM	R5,B'0001',0(R3) Load DS1RECFM bit pattern	
000882	4450	A8A0	008A0		1696	EX	R5,TMDSRFM1 Execute TM	
000886	4710	A896	00896		1697	BO	LEN#FND Found RECFM Type	
00088A	4133	0002	00002		1698	LA	R3,TBLRFM1L(R3) Otherwise, check next	
00088E	4640	A87E	0087E		1699	BCT	R4,LENTYLP ... TBL entry	
					1700	*		Exhausted TBL entries
000892	47F0	A8AA	008AA		1701	B	LENTYXT	
				00896	1702	LEN#FND	EQU *	
000896	D200	9165	3001	00165	00001	MVC	DRECFM+0(1),TBLRFM1L-1(R3)	
00089C	47F0	A8AA	008AA		1704	B	LENTYXT	
					1705	*		
0008A0	9100	2000	00000		1706	TMDSRFM1	TM 0(R2),B'00000000' DSRFM TM instruction	
					1707	*		
					1708	*	2 bytes / TBLRFM1 Table-----	
					1709	*	per entry+ 01 bytes, DS1RECFM bit pattern	
					1710	*	\ 01 bytes, Length type	
0008A4					1711	TBLRFM1B	DS 0H	
0008A4	C0E4				1712	DC	B'11000000',C'U' Undefined Length	
				00002	1713	TBLRFM1L	EQU *-TBLRFM1B ** Entry Length	
0008A6	40E5				1714	DC	B'01000000',C'V' Variable Length	
0008A8	80C6				1715	DC	B'10000000',C'F' Fixed Length	
				00003	1716	TBLRFM1E	EQU (*-TBLRFM1B)/TBLRFM1L ** Num of entries	
					1717	*		
				008AA	1718	LENTYXT	EQU *	
					1719	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1721	*	*/*****	
					1722	*	/* Block attribute (B)	
					1723	*	*/*****	
				008AA	1724	BLK	EQU *	
0008AA	9110	9478	00478		1725	TM	DS1RECFM,B'00010000'	Blocked
0008AE	4710	A8B6	008B6		1726	BO	BLK#B	
0008B2	47F0	A8BE	008BE		1727	B	BLKXT	
				008B6	1728	BLK#B	EQU *	
0008B6	92C2	9166	00166		1729	MVI	DRECFM+1,C'B'	Blocked
0008BA	47F0	A8BE	008BE		1730	B	BLKXT	
				008BE	1731	BLKXT	EQU *	
					1732	*	*	
					1733	*	*/*****	
					1734	*	/* Span - Standard Attribute (S)	
					1735	*	*/*****	
				008BE	1736	SPNCHR	EQU *	
0008BE	9108	9478	00478		1737	TM	DS1RECFM,B'00001000'	Span - Standard
0008C2	4710	A8CA	008CA		1738	BO	SPN#S	
0008C6	47F0	A8CE	008CE		1739	B	SPNCHRXT	
				008CA	1740	SPN#S	EQU *	
0008CA	92E2	9167	00167		1741	MVI	DRECFM+2,C'S'	Span - Standard
				008CE	1742	SPNCHRXT	EQU *	
					1743	*	*	
					1744	*	*/*****	
					1745	*	/* Track Overflow Attribute (T)	
					1746	*	*/*****	
				008CE	1747	OVFCHR	EQU *	
0008CE	9120	9478	00478		1748	TM	DS1RECFM,B'00100000'	Track Overflow
0008D2	4710	A8DA	008DA		1749	BO	OVF#S	
0008D6	47F0	A8DE	008DE		1750	B	OVFCHRXT	
				008DA	1751	OVF#S	EQU *	
0008DA	92E3	9168	00168		1752	MVI	DRECFM+3,C'T'	Track Overflow
				008DE	1753	OVFCHRXT	EQU *	
					1754	*	*	
					1755	*	*/*****	
					1756	*	/* ANSI Control Character Attribute (A,M)	
					1757	*	*/*****	
				008DE	1758	CTLCHR	EQU *	
0008DE	9104	9478	00478		1759	TM	DS1RECFM,B'00000100'	ANSI
0008E2	4710	A8F2	008F2		1760	BO	CTL#A	
0008E6	9102	9478	00478		1761	TM	DS1RECFM,B'00000010'	Machine Code
0008EA	4710	A8FA	008FA		1762	BO	CTL#M	
0008EE	47F0	A902	00902		1763	B	CTLCHRXT	
				008F2	1764	CTL#A	EQU *	ANSI Control Character
0008F2	92C1	9169	00169		1765	MVI	DRECFM+4,C'A'	
0008F6	47F0	A902	00902		1766	B	CTLCHRXT	
				008FA	1767	CTL#M	EQU *	Machine Code Control Character
0008FA	92D4	9169	00169		1768	MVI	DRECFM+4,C'M'	
0008FE	47F0	A902	00902		1769	B	CTLCHRXT	
				00902	1770	CTLCHRXT	EQU *	
					1771	*	*	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1773	*	/* *****/	
					1774	*	/* Record Format - Concatenate RECFM characters */	
					1775	*	/* #Data source: 09 SYSRECFM */	
					1776	*	/* - R2, R3, R4 Working Registers */	
					1777	*	/* *****/	
			00902		1778	RECFM	EQU *	
000902	9240	9280	00280		1779		MVI DW,C' ' Clear DW Temp Workarea 8-bytes	
000906	D206	9281 9280	00281 00280		1780		MVC DW+1(L'DW-1),DW	
00090C	4120	9165	00165		1781		LA R2,DRECFM Load Addr of DRECFM	
000910	4130	0005	00005		1782		LA R3,L'DRECFM Load Length of DRECFM	
000914	4140	9280	00280		1783		LA R4,DW Load Addr of DW	
			00918		1784	RECFML	EQU *	
000918	9540	2000	00000		1785		CLI 0(R2),C' ' Blank?	
00091C	4780	A92A	0092A		1786		BE RECFMLA YES, skip, next DRECFM position	
000920	D200	4000 2000	00000 00000		1787		MVC 0(1,R4),0(R2) NO, move DRECFM pos to DW	
000926	4144	0001	00001		1788		LA R4,1(R4) Point to next DW position	
			0092A		1789	RECFMLA	EQU *	
00092A	4122	0001	00001		1790		LA R2,1(R2) Point to next DRECFM position	
00092E	4630	A918	00918		1791		BCT R3,RECFML Do again.	
000932	D204	9165 9280	00165 00280		1792		MVC DRECFM,DW Move temp work to DRECFM	
			00938		1793	RECFMXT	EQU *	
					1794	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					1796 *	/* *****/	
					1797 *	/* Allocation Parameters CYL,TRK,BLK,ABS	*/
					1798 *	/* Calculate SYSPRIMARY and SYSUSED	*/
					1799 *	/* #Data source: 23 SYSUNITS	*/
					1800 *	/* #Data source: 43 SYSPRIMARY	*/
					1801 *	/* #Data source: 44 SYSUSED	*/
					1802 *	/* - R2, R3, R5 Working Registers	*/
					1803 *	/* *****/	
			00938		1804 SSPC	EQU *	
					1805 **	DISPLAY DATA=(DS1SCALO,B,1)	
000938	91C0	9482	00482		1806	TM DS1SCALO,X'C0' Allocation- CYL	
					1807 *	TM DS1SCALO,B'11000000' Allocation- CYL	
00093C	4710	A954	00954		1808	BO SSPC#CYL	
000940	9180	9482	00482		1809	TM DS1SCALO,X'80' Allocation- TRK	
					1810 *	TM DS1SCALO,B'10000000' Allocation- TRK	
000944	4710	A98A	0098A		1811	BO SSPC#TRK	
000948	9140	9482	00482		1812	TM DS1SCALO,X'40' Allocation- BLK	
					1813 *	TM DS1SCALO,B'01000000' Allocation- BLK	
00094C	4710	A9D4	009D4		1814	BO SSPC#BLK	
000950	47F0	A9B8	009B8		1815	B SSPC#ABS Must be Allocation - ABS	
			00954		1816 SSPC#CYL	EQU *	
000954	D202	91CF	B645	001CF	01645	1817 MVC DSSPC,=C'CYL'	
					1818 *	/* Calculate SYSPRIMARY=CYLSTOTA	*/
00095A	5850	92A4	002A4		1819	L R5,CYLSTOTA ... and convert	
00095E	4E50	9280	00280		1820	CVD R5,DW ... to decimal	
000962	F342	9238	9285	00238	00285	1821 UNPK DPSPCAL,DW+5(3) Unpack and	
000968	96F0	923C	0023C		1822	OI DPSPCAL+4,X'F0' ... force and F zone	
					1823 *	/* Calculate SYSUSED=TTRKUSED/TRKSCYL	*/
00096C	5830	929C	0029C		1824	L R3,TTRKUSED TTRKSUSED	
000970	5C20	B5A4	015A4		1825	M R2,=F'1'	
000974	5D20	9290	00290		1826	D R2,TRKSCYL TTRKSUSED/TRKSCYL	
000978	4E30	9280	00280		1827	CVD R3,DW	
00097C	F342	923D	9285	0023D	00285	1828 UNPK DPSPCUS,DW+5(3) Unpack and	
000982	96F0	9241	00241		1829	OI DPSPCUS+4,X'F0' ... force and F zone	
000986	47F0	AA0A	00A0A		1830	B SSPCXT	
			0098A		1831 SSPC#TRK	EQU *	
00098A	D202	91CF	B648	001CF	01648	1832 MVC DSSPC,=C'TRK' TRACK Allocation...	
					1833 *	/* Calculate SYSPRIMARY=TRKSTOTA	*/
000990	5850	9298	00298		1834	L R5,TRKSTOTA ... and convert	
000994	4E50	9280	00280		1835	CVD R5,DW ... to decimal	
000998	F342	9238	9285	00238	00285	1836 UNPK DPSPCAL,DW+5(3) Unpack and	
00099E	96F0	923C	0023C		1837	OI DPSPCAL+4,X'F0' ... force and F zone	
					1838 *	/* Calculate SYSUSED=TTRKUSED	*/
0009A2	5850	929C	0029C		1839	L R5,TTRKUSED ... and convert	
0009A6	4E50	9280	00280		1840	CVD R5,DW ... to decimal	
0009AA	F342	923D	9285	0023D	00285	1841 UNPK DPSPCUS,DW+5(3) Unpack and	
0009B0	96F0	9241	00241		1842	OI DPSPCUS+4,X'F0' ... force and F zone	
0009B4	47F0	AA0A	00A0A		1843	B SSPCXT	
					1844 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				009B8	1846	SSPC#ABS	EQU *	
0009B8	D202	91CF	B64B	001CF	0164B	1847	MVC DSSPC,=C'ABS' TRACK Allocation...	
					1848	*	/* Calculate SYSPRIMARY=TRKSTOTA */	
0009BE	5850	9298		00298		1849	L R5,TRKSTOTA ... and convert	
0009C2	4E50	9280		00280		1850	CVD R5,DW ... to decimal	
0009C6	F342	9238	9285	00238	00285	1851	UNPK DPSPCAL,DW+5(3) Unpack and	
0009CC	96F0	923C		0023C		1852	OI DPSPCAL+4,X'F0' ... force and F zone	
					1853	*	/* Calculate SYSUSED= not applicable */	
0009D0	47F0	AA0A		00A0A		1854	B SSPCXT	
				009D4		1855	SSPC#BLK EQU *	
0009D4	D202	91CF	B64E	001CF	0164E	1856	MVC DSSPC,=C'BLK'	
					1857	*	/* Calculate SYSPRIMARY=TRKSTOTA*BLKSPTRK */	
0009DA	5830	9298		00298		1858	L R3,TRKSTOTA TRKSTOTA	
0009DE	5C20	92AC		002AC		1859	M R2,BLKSPTRK BLKSPTRK	
0009E2	4E30	9280		00280		1860	CVD R3,DW ... to decimal	
0009E6	F342	9238	9285	00238	00285	1861	UNPK DPSPCAL,DW+5(3) Unpack and	
0009EC	96F0	923C		0023C		1862	OI DPSPCAL+4,X'F0' ... force and F zone	
					1863	*	/* Calculate SYSUSED=TTRKUSED*BLKSPTRK */	
0009F0	5830	929C		0029C		1864	L R3,TTRKUSED TRKSUSED	
0009F4	5C20	92AC		002AC		1865	M R2,BLKSPTRK BLKSPTRK	
0009F8	4E30	9280		00280		1866	CVD R3,DW ... to decimal	
0009FC	F342	923D	9285	0023D	00285	1867	UNPK DPSPCUS,DW+5(3) Unpack and	
000A02	96F0	9241		00241		1868	OI DPSPCUS+4,X'F0' ... force and F zone	
000A06	47F0	AA0A		00A0A		1869	B SSPCXT	
				00A0A		1870	SSPCXT EQU *	
					1871	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					1873	*	/* ***** */	0201 09.46 05/07/19
					1874	*	/* Secondary Allocation Quantity */	
					1875	*	/* #Data source: 27 SYSSECONDS */	
					1876	*	/* - R3 Working Register */	
					1877	*	/* ***** */	
000A0A	D703	9288	9288	00A0A 00288	1878	SSPCNM	EQU *	
					1879		XC FW,FW Clear contents	
000A10	D202	9289	9483	00289 00483	1880		MVC FW+1(3),DS1SCALO+1 Get Secondary Allocation quantity	
000A16	5830	9288		00288	1881		L R3,FW ... and convert	
000A1A	4E30	9280		00280	1882		CVD R3,DW ... to decimal	
000A1E	F363	91D2	9284	001D2 00284	1883		UNPK DSSPCNM,DW+4(4) Unpack and	
000A24	96F0	91D8		001D8	1884		OI DSSPCNM+6,X'F0' ... force and F zone	
				00A28	1885	SSPCNMXT	EQU *	
					1886	*	/* ***** */	
					1887	*	/* Password Protection */	
					1888	*	/* #Data source: 14 SYSPASSWORD */	
					1889	*	/* ***** */	
				00A28	1891	PASSWD	EQU *	
					1892	**	DISPLAY DATA=(DS1DSIND+49,B,1)	
000A28	9114	9481		00481	1893		TM DS1DSIND,X'14' Write Password required?	
000A2C	4710	AA42		00A42	1894		BO WRPW YES.	
000A30	9110	9481		00481	1895		TM DS1DSIND,X'10' Read-Write PW required?	
000A34	4710	AA4C		00A4C	1896		BO RWPW YES.	
				00A38	1897	PWDNONE	EQU *	
000A38	D204	91B7	B651	001B7 01651	1898		MVC DPASSWD,=C'NONE ' No password needed	
000A3E	47F0	AA56		00A56	1899		B PASSWDXT	
				00A42	1900	WRPW	EQU *	
000A42	D204	91B7	B656	001B7 01656	1901		MVC DPASSWD,=C'WRITE' Password needed for READ	
000A48	47F0	AA56		00A56	1902		B PASSWDXT	
				00A4C	1903	RWPW	EQU *	
000A4C	D204	91B7	B65B	001B7 0165B	1904		MVC DPASSWD,=C'R_W ' Password needed for READ/WRITE	
000A52	47F0	AA56		00A56	1905		B PASSWDXT	
				00A56	1906	PASSWDXT	EQU *	
					1907	*	/* ***** */	
					1908	*	/* RACF Secured */	
					1909	*	/* #Data source: 15 SYSRACF */	
					1910	*	/* ***** */	
				00A56	1912	RACF	EQU *	
000A56	9140	9481		00481	1913		TM DS1DSIND,X'40' RACF defined?	
000A5A	4710	AA68		00A68	1914		BO RACFRQD YES.	
				00A5E	1915	RACFNONE	EQU *	
000A5E	D203	91BC	B5A8	001BC 015A8	1916		MVC DRACF,=C'NONE' No RACF	
000A64	47F0	AA72		00A72	1917		B RACFXT	
				00A68	1918	RACFRQD	EQU *	
000A68	D203	91BC	B5AC	001BC 015AC	1919		MVC DRACF,=C'RACF' We have RACF...	
000A6E	47F0	AA72		00A72	1920		B RACFXT	
				00A72	1921	RACFXT	EQU *	
					1922	*	/* ***** */	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					1924	*	*/*****	
					1925	*	/* File Create Date X'yy0jjj'	
					1926	*	/* #Data source: 05 SYSCREATE	
					1927	*	/* #Data source: 31 SYSJCREATE	
					1928	*	/* #Data source: 37 SYSCCREATE	
					1929	*	/* - R6, R7 Working Register	
					1930	*	*/*****	
			00A72		1931	CREDIT	EQU *	
000A72	D207	916A	B580	0016A	01580	1932	MVC DCREDIT,=C'0000/000'	Default date CCYY/JJJ
000A78	D204	9172	B660	00172	01660	1933	MVC DCREDJ,=C'00000'	Default date YYJJJ
000A7E	D209	9177	B60C	00177	0160C	1934	MVC DCREDC,=C'00/00/0000'	Default date MM/DD/CCYY
000A84	D502	9459	B665	00459	01665	1935	CLC DS1CREDIT,=X'000000'	Zero date?
000A8A	4780	AAC0		00AC0		1936	BE CREDITXT	YES, done.
000A8E	4160	9459		00459		1937	LA R6,DS1CREDIT	Create Date
000A92	4570	B338		01338		1938	BAL R7,DATECONV	Convert date to CCYY/JJJJ
000A96	D203	916A	9276	0016A	00276	1939	MVC DCREDIT(4),DC#CCYY+1	CCYY -\ JulianCCYY
000A9C	D202	916F	926C	0016F	0026C	1940	MVC DCREDIT+5(3),DC#JJJ	JJJ +---- CCYY/JJJ
000AA2	D201	9172	9278	00172	00278	1941	MVC DCREDJ(2),DC#CCYY+3	YY -\ MVS38J
000AA8	D202	9174	926C	00174	0026C	1942	MVC DCREDJ+2(3),DC#JJJ	JJJ +---- YYJJJ
000AAE	D201	9177	9270	00177	00270	1943	MVC DCREDC(2),DC#MM+1	MM -\
000AB4	D201	917A	9273	0017A	00273	1944	MVC DCREDC+3(2),DC#DD+1	DD \ Calendar
000ABA	D203	917D	9276	0017D	00276	1945	MVC DCREDC+6(4),DC#CCYY+1	CCYY +--- MM/DD/CCYY
			00AC0		1946	CREDITXT	EQU *	
					1947	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1949	*	*/*****				
					1950	*	/* File Expire Date X'yy0jjj'				
					1951	*	/* #Data source: 06 SYSEXDATE				
					1952	*	/* #Data source: 32 SYSJEXDATE				
					1953	*	/* #Data source: 38 SYSEXDATE				
					1954	*	/* - R6, R7 Working Register				
					1955	*	*/*****				
			00AC0		1956	EXPDT	EQU *				
000AC0	D207	9181	B580	00181	01580	1957	MVC DEXPDT,=C'0000/000'	Default date	CCYY/JJJ		
000AC6	D204	9189	B660	00189	01660	1958	MVC DEXPDJ,=C'00000'	Default date	YYJJJ		
000ACC	D209	918E	B60C	0018E	0160C	1959	MVC DEXPDC,=C'00/00/0000'	Default date	MM/DD/CCYY		
000AD2	D502	945C	B665	0045C	01665	1960	CLC DS1EXPDT,=X'000000'	Zero date?			
000AD8	4780	AB0E		00B0E		1961	BE EXPDXT	YES, done.			
000ADC	4160	945C		0045C		1962	LA R6,DS1EXPDT	Expire Date			
000AE0	4570	B338		01338		1963	BAL R7,DATECONV	Convert date to	CCYY/JJJJ		
000AE4	D203	9181	9276	00181	00276	1964	MVC DEXPDT(4),DC#CCYY+1	CCYY -\	JulianCCYY		
000AEA	D202	9186	926C	00186	0026C	1965	MVC DEXPDT+5(3),DC#JJJ	JJJ +----	CCYY/JJJ		
000AF0	D201	9189	9278	00189	00278	1966	MVC DEXPDJ(2),DC#CCYY+3	YY -\	MVS38J		
000AF6	D202	918B	926C	0018B	0026C	1967	MVC DEXPDJ+2(3),DC#JJJ	JJJ +----	YYJJJ		
000AFC	D201	918E	9270	0018E	00270	1968	MVC DEXPDC(2),DC#MM+1	MM -\			
000B02	D201	9191	9273	00191	00273	1969	MVC DEXPDC+3(2),DC#DD+1	DD \	Calendar		
000B08	D203	9194	9276	00194	00276	1970	MVC DEXPDC+6(4),DC#CCYY+1	CCYY +---	MM/DD/CCYY		
			00B0E		1971	EXPDTXT	EQU *				
					1972	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					1974	*	*/*****				
					1975	*	/* File Reference Date X'yy0jjj'				
					1976	*	/* #Data source: 07 SYSREFDATE				
					1977	*	/* #Data source: 33 SYSJREFDATE				
					1978	*	/* #Data source: 39 SYSCREFDATE				
					1979	*	/* - R6, R7 Working Register				
					1980	*	*/*****				
			00B0E		1981	REFDT	EQU *				
000B0E	D207	9198	B580	00198	01580	1982	MVC DREFDT,=C'0000/000'	Default date	CCYY/JJJ		
000B14	D204	91A0	B660	001A0	01660	1983	MVC DREFDJ,=C'00000'	Default date	YYJJJ		
000B1A	D209	91A5	B60C	001A5	0160C	1984	MVC DREFDC,=C'00/00/0000'	Default date	MM/DD/CCYY		
000B20	D502	946F	B665	0046F	01665	1985	CLC DS1REFD,=X'000000'	Zero date?			
000B26	4780	AB5C		00B5C		1986	BE REFDTXT	YES, done.			
000B2A	4160	946F		0046F		1987	LA R6,DS1REFD	Referenced Date			
000B2E	4570	B338		01338		1988	BAL R7,DATECONV	Convert date to	CCYY/JJJJ		
000B32	D203	9198	9276	00198	00276	1989	MVC DREFDT(4),DC#CCYY+1	CCYY -\	JulianCCYY		
000B38	D202	919D	926C	0019D	0026C	1990	MVC DREFDT+5(3),DC#JJJ	JJJ +----	CCYY/JJJ		
000B3E	D201	91A0	9278	001A0	00278	1991	MVC DREFDJ(2),DC#CCYY+3	YY -\	MVS38J		
000B44	D202	91A2	926C	001A2	0026C	1992	MVC DREFDJ+2(3),DC#JJJ	JJJ +----	YYJJJ		
000B4A	D201	91A5	9270	001A5	00270	1993	MVC DREFDC(2),DC#MM+1	MM -\			
000B50	D201	91A8	9273	001A8	00273	1994	MVC DREFDC+3(2),DC#DD+1	DD \	Calendar		
000B56	D203	91AB	9276	001AB	00276	1995	MVC DREFDC+6(4),DC#CCYY+1	CCYY +---	MM/DD/CCYY		
			00B5C		1996	REFDTXT	EQU *				
					1997	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					1999	*	/* *****	0201 09.46 05/07/19
					2000	*	/* Device Type	
					2001	*	/* For catalogued Datasets, use catalog unit type	
					2002	*	/* to determine device type	
					2003	*	/* For Uncatalogued Datasets, match VOLSER in UCB list	
					2004	*	/* to obtain unit type to determine device type	
					2005	*	/* #Data source: 22 SYSUNIT	
					2006	*	/* - R4, R2, R3, R5, R6 Working Registers	
					2007	*	/* *****	
			00B5C		2008	DEVTP	EQU *	
000B5C	95E8	9231	00231		2009		CLI DDSCAT,C'Y'	Dataset catalogued?
000B60	4780	AB9E	00B9E		2010		BE GETDEVTY	YES, branch to GETDEVTY
					2011	*		NO, find unit type from VOLSER
					2012	*		using UCB
000B64	5840	0010	00010		2013		L R4,CVTPTR	Address of CVT
				00000	2014		USING CVT,R4	
000B68	5820	4028	00028		2015		L R2,CVTILK2	Address of UCB Lookup table
				00000	2016		USING UCB,R3	
				00B6C	2017	UCBSCAN	EQU *	
000B6C	1B33				2018		SR R3,R3	Clear R3
000B6E	4832	0000	00000		2019		LH R3,0(R2)	Point to UCB
000B72	4122	0002	00002		2020		LA R2,2(R2)	Bump to next UCB entry
000B76	1233				2021		LTR R3,R3	NULL?
000B78	4780	AB6C	00B6C		2022		BZ UCBSCAN	YES, get another
000B7C	5530	B5B0	015B0		2023		CL R3,=X'0000FFFF'	End of UCB Table?
000B80	4780	AC86	00C86		2024		BE DEVTPXT	YES. Done.
000B84	9180	3000	00000		2025		TM UCBJBNR,UCBVRDEV	VIO Device?
000B88	4710	AB6C	00B6C		2026		BO UCBSCAN	NO, re-scan
000B8C	9180	3003	00003		2027		TM UCBSTAT,UCBONLI	Device ONLINE?
000B90	47E0	AB6C	00B6C		2028		BNO UCBSCAN	NO, re-scan
000B94	D505	9152	301C 00152	0001C	2029		CLC DVOLSER,UCBVOLI	Is this the VOLUME?
000B9A	4770	AB6C	00B6C		2030		BNE UCBSCAN	NO, re-scan
					2031	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					2033	*	/* *****/				
					2034	*	/* Find device type (e.g. 3350) given unit type				
					2035	*	/* using below table (DVCLST)				
					2036	*	/* -JMSG'DeviceType xxx not defined in table'				
					2037	*	/* - R4, R2, R3, R5, R6 Working Registers				
					2038	*	/* *****/				
			00B9E		2039	GETDEVTY	EQU *	YES, determine type!			
000B9E	4150	0010	00010		2040		LA R5,DVCLST\$E	Load # of DVCLST entries			
000BA2	4160	AC06	00C06		2041		LA R6,DVCLST\$	Address of DVCLST entries			
				00BA6	2042	LOOK4DT	EQU *				
000BA6	95E8	9231	00231		2043		CLI DDSCAT,C'Y'	Dataset catalogued?			
000BAA	4780	ABBC	00BBC		2044		BE LOOK4DT2	YES, check catlg device type			
				00BAE	2045	LOOK4DT1	EQU *				
					2046	**	CLC 19(1,R3),0(R6)	NO. UCB device type in table?			
000BAE	D500	3013	6000	00013	00000	2047	CLC UCBUNTYP,0(R6)	NO. UCB device type in table?			
000BB4	4780	ABFC	00BFC		2048		BE DEVFND	YES, found device in table			
000BB8	47F0	ABC6	00BC6		2049		B LOOK4DT3	NO, check next one...			
				00BBC	2050	LOOK4DT2	EQU *				
000BBC	D500	9345	6000	00345	00000	2051	CLC LOCAUNTY,0(R6)	Catlg device type in table?			
000BC2	4780	ABFC	00BFC		2052		BE DEVFND	YES, found device in table			
				00BC6	2053	LOOK4DT3	EQU *				
000BC6	4166	0008	00008		2054		LA R6,DVCLST\$(R6)	NO, point to next device entry			
000BCA	4650	ABA6	00BA6		2055		BCT R5,LOOK4DT	Look at next entry			
				00BCE	2056	NODEVFND	EQU *				
					2057	*		Not defined, Error.			
000BCE	D222	909C	BE44	0009C	01E44	2058	MVC DJMSG(L'MSGJ025),MSGJ025	Move to &SYSLISTDSJMSG			
000BD4	D209	909C	B616	0009C	01616	2059	MVC DJMSG(10),=C'DeviceType'				
000BDA	D703	9288	9288	00288	00288	2060	XC FW,FW				
000BE0	D200	928B	3013	0028B	00013	2061	MVC FW+3(1),19(R3)				
000BE6	58F0	9288		00288		2062	L R15,FW				
000BEA	4EF0	9280		00280		2063	CVD R15,DW	Convert to decmial			
000BEE	F321	90A7	9286	000A7	00286	2064	UNPK DJMSG+11(3),DW+6(2)	Unpack and			
000BF4	96F0	90A9		000A9		2065	OI DJMSG+13,X'F0'	... force and F zone			
000BF8	47F0	AC86		00C86		2066	B DEVTPXT				
				00BFC	2067	DEVFND	EQU *				
000BFC	D206	91D9	6001	001D9	00001	2068	MVC DUNIT,1(R6)	MOVE DEVTTYPE			
000C02	47F0	AC86		00C86		2069	B DEVTPXT				
					2070	*					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				2072 *	8 bytes / DVCLST Table-----	
				2073 *	per entry+ 01 bytes, device type code	
				2074 *	\ 07 bytes, Device Type	
				2075 *		
000C06	006F6F5C5C5C6F6F			2076 DVCLST\$ DC	X'00',CL7'??**??'	
		00008		2077 DVCLST\$L EQU	*-DVCLST\$ Table Entry length	
000C0E	01F2F3F1F1404040			2078 DC	X'01',CL7'2311	
000C16	02F2F3F0F1404040			2079 DC	X'02',CL7'2301	
000C1E	03F2F3F0F3404040			2080 DC	X'03',CL7'2303	
000C26	04F9F3F4F5404040			2081 DC	X'04',CL7'9345	
000C2E	05F2F3F2F1404040			2082 DC	X'05',CL7'2321	
000C36	06F2F3F0F560F140			2083 DC	X'06',CL7'2305-1	
000C3E	07F2F3F0F560F240			2084 DC	X'07',CL7'2305-2	
000C46	08F2F3F1F4404040			2085 DC	X'08',CL7'2314	
000C4E	09F3F3F3F0404040			2086 DC	X'09',CL7'3330	
000C56	0AF3F3F4F0404040			2087 DC	X'0A',CL7'3340	
000C5E	0BF3F3F5F0404040			2088 DC	X'0B',CL7'3350	
000C66	0CF3F3F7F5404040			2089 DC	X'0C',CL7'3375	
000C6E	0DF3F3F3F060F1F1			2090 DC	X'0D',CL7'3330-11	
000C76	0EF3F3F8F0404040			2091 DC	X'0E',CL7'3380	
000C7E	0FF3F3F9F0404040			2092 DC	X'0F',CL7'3390	
		00010		2093 DVCLST\$E EQU	(*-DVCLST\$)/DVCLST\$L Table Entries	
				2094 *		
		00C86		2095 DEVTPXT EQU	*	
				2096 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					2098	*	*/*****	*/
					2099	*	/* PO Directory Information	*/
					2100	*	/* Allocate PDS	*/
					2101	*	/* -JMSG'RC=xxx Allocate PDS error'	*/
					2102	*	/* - R7, R2, R1 Working Register	*/
					2103	*	/* - R15 Working Register and RC exit code register	*/
					2104	*	*/*****	*/
			00C86		2105	PODDIR	EQU *	
			00C86		2106	PODALLOC	EQU *	
000C86	95E8	92F9	002F9		2107		CLI PDIR,C'Y'	PDS DIR Info requested?
000C8A	4770	AF18	00F18		2108		BNE PODDIRXT	NO, bypass PDS Info
000C8E	D501	9162	B620	00162	01620	2109	CLC DDSORG(2),=C'PO'	YES. Is file a PDS?
000C94	4770	AF12	00F12		2110		BNE PODDIRNN	NO, bypass PDS Info w/ MSG
000C98	4570	B1F8	011F8		2111		BAL R7,PDSALC	YES, allocate dataset
000C9C	12FF				2112		LTR R15,R15	Successful?
000C9E	4780	ACCC	00CCC		2113		BZ PODINFO	YES, get DIR information
					2114	*		NO, ERROR, cannot alloc PDS
000CA2	D218	909C	BDB4	0009C	01DB4	2115	MVC DJMSG(L'MSGJ017),MSGJ017	Move to &SYSLISTDSJMSG
000CA8	4EF0	9280	00280		2116		CVD R15,DW	Convert to decimal
000CAC	F321	909F	9286	0009F	00286	2117	UNPK DJMSG+3(3),DW+6(2)	Unpack and
000CB2	96F0	90A1	000A1		2118		OI DJMSG+5,X'F0'	... force and F zone
000CB6	D201	9100	B622	00100	01622	2119	MVC DRSCODE,=C'02'	Dynam Alloc error
000CBC	D203	928C	B5B4	0028C	015B4	2120	MVC RCEXIT,=F'04'	
000CC2	D201	92BA	B624	002BA	01624	2121	MVC RC,=C'04'	
000CC8	47F0	AF18	00F18		2122		B ENDME	Done, exit.
					2123	*		

2125	*	*	PDS DIR BLOCK STRUCTURE					
2126	*	*	+-----+ +---+ +-----+					
2127	*	*	Count	Key	Data			
2128	*	*	()	(8)	(256)			
2129	*	*	+-----+ +---+ +-----+					
2130	*	*						
2131	*	*	The KEY is an external key to the data block. It contains					
2132	*	*	the last member name in the block for search efficiency.					
2133	*	*						
2134	*	*	+-----+					
2135	*	*	Data(256)					
2136	*	*	+-----+					
2137	*	*	DIR Bytes	Member	Member	Member	Member	Unused
2138	*	*	Used (2)	Ent #1	Ent #2	Ent #3	Ent #n	
2139	*	*	+-----+					
2140	*	*						
2141	*	*	+-----+					
2142	*	*	Member Entry					
2143	*	*	+-----+					
2144	*	*	Member	TTR	C	Optional User Data		
2145	*	*	Name (8)	(3)	(1)	(2-62)		
2146	*	*	+-----+					
2147	*	*						
2148	*	*	PDS dir block is 256 bytes in length. First 2 bytes contains					
2149	*	*	a count field representing the number of bytes used INCLUDING					
2150	*	*	count field (2 bytes). The remaining 254 bytes contain					
2151	*	*	member entries.					
2152	*	*						
2153	*	*	Last member entry contains binary ones. All the directory					
2154	*	*	blocks that follow are unused. This is key when counting					
2155	*	*	used and unused blocks.					
2156	*	*						
2157	*	*	C in Member Entry:					
2158	*	*	Bit 0-0 0=Primary Name 1=Alias Name					
2159	*	*	Bit 1-2 Number of TTRN fields in the user data					
2160	*	*	Bit 3-7 Length of user data in HALFWORDS					
2161	*	*						
2162	*	*						

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					2164	*	/* *****/	
					2165	*	/* PO Directory Information */	
					2166	*	/* Get DIR block and member count information */	
					2167	*	/* -JMSG'RC=xxx Open PDS error' */	
					2168	*	/* - R7, R0, R1. R2 Working Register */	
					2169	*	/* - R15 Working Register and RC exit code register */	
					2170	*	/* *****/	
000CCC	D703	97AC	97AC	007AC	007AC	2171	PODINFO EQU *	Initialize FW counters
000CD2	D703	97B0	97B0	007B0	007B0	2172	XC PODBLKS,PODBLKS	Zero PDS DIR Blocks Count
000CD8	D703	97B4	97B4	007B4	007B4	2173	XC PODBLKSU,PODBLKSU	Zero PDS Used DIR Blocks Count
000CDE	D703	97B8	97B8	007B8	007B8	2174	XC POMEMS,POMEMS	Zero PDS Member Count
					2175	XC POALIS,POALIS	Zero PDS Alias Count	
					2176	*		
					2177	*		
000CE4	4120	97BC		007BC		2178	LA R2,DIRDCBW	Init DIRDCBW from DIRDCB
000CE8	D257	2000	BF50	00000	01F50	2179	MVC 0(DIRDCBL,R2),DIRDCB	Addr of myDIRDCB
000CEE	D207	2028	97A0	00028	007A0	2180	MVC DDNAM(8,R2),DDNAME	Init myDIRDCB with DIRDCB
000CF4	9280	9828		00828		2181	MVI PARMVL1,X'80'	Apply DDN from DAIR
					2182	PRINT GEN	Mark as last parm FW (VL=1)	
					2183	PODOPEN EQU *		
000CF8	4110	9828		00828		2184	OPEN ((R2),INPUT),MF=(E,PARMVL1)	Open DIRDCBW execute form
000CFC	94F0	1000		00000		2185+	LA 1,PARMVL1	LOAD PARAMETER REG 1 01900002
000D00	43E1	0000		00000		2186+	NI 0(1),X'F0'	CLEAR OPTION 1 BITS 03780001
000D04	5021	0000		00000		2187+	IC 14,0(1,0)	SAVE OPTION BYTE 03440000
000D08	42E1	0000		00000		2188+	ST R2,0(1,0)	STORE INTO LIST 03620000
000D0C	0A13					2189+	STC 14,0(1,0)	RESTORE OPTION BYTE 03520001
000D0E	12FF					2190+	SVC 19	ISSUE OPEN SVC 04000000
000D10	4780	AD3E		00D3E		2191	LTR R15,R15	Successful?
					2192	BZ PODCONT0	YES, continue...	
					2193	*		
000D14	D214	909C	BE91	0009C	01E91	2194	MVC DJMSG(L'MSGJ030),MSGJ030	NO, ERROR, cannot open PDS
000D1A	4EF0	9280		00280		2195	CVD R15,DW	Move to &SYSLISTDSJMSG
000D1E	F321	909F	9286	0009F	00286	2196	UNPK DJMSG+3(3),DW+6(2)	Convert to decimal
000D24	96F0	90A1		000A1		2197	OI DJMSG+5,X'F0'	Unpack and
000D28	D201	9100	B626	00100	01626	2198	MVC DRSNCODE,=C'13'	... force and F zone
000D2E	D203	928C	B5B4	0028C	015B4	2199	MVC RCEXIT,=F'04'	Cannot open file error
000D34	D201	92BA	B624	002BA	01624	2200	MVC RC,=C'04'	
000D3A	47F0	AF18		00F18		2201	B ENDME	Done, exit.
					2202	*		
					2203	PODCONT0 EQU *		
					2204	*		
000D3E	D213	9814	BFA8	00814	01FA8	2205	MVC DIRDECBW(DIRDECB),DIRDECB	Init DIRDECBW from DIRDECB
000D44	9200	97A8		007A8		2206	MVI DIRSW,0	Set to Initial value
					2207	*	DIRSW=0	Initial, process used blocks
					2208	*	DIRSW=1	Used Blocks elapsed, process unused blocks
					2209	*	DIRSW=2	IO Error
					2210	PODREAD EQU *		
000D48	4110	9814		00814		2211	READ DIRDECBW,SF,(R2),BLOCK,256,MF=E	Read DIR Block
000D4C	9280	1005		00005		2212+	LA 1,DIRDECBW	READ Execute form
000D50	5021	0008		00008		2213+	MVI 5(1),X'80'	LOAD DECB ADDRESS 01260000
000D54	41E0	96A0		006A0		2214+	ST R2,8(1,0)	SET TYPE FIELD 01420019
000D58	50E1	000C		0000C		2215+	LA 14,BLOCK	STORE DCB ADDRESS 01540000
000D5C	9200	1004		00004		2216+	ST 14,12(1,0)	LOAD AREA ADDRESS 01600000
000D60	41E0	0100		00100		2217+	MVI 4(1),X'00'	STORE AREA ADDRESS 01620000
					2218+	LA 14,256(0,0)	SET TYPE FIELD 01760000	LOAD LENGTH 01900000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000D64	40E1	0006	00006		2219+	STH	14,6(1,0)	STORE LENGTH 01920000
000D68	58F1	0008	00008		2220+	L	15,8(1,0)	LOAD DCB ADDRESS 02091503
000D6C	58F0	F030	00030		2221+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR 02097203
000D70	05EF				2222+	BALR	14,15	LINK TO RDWR ROUTINE 02102903
					2223	CHECK	DIRDECBW	
000D72	4110	9814	00814		2224+	LA	1,DIRDECBW	LOAD PARAMETER REG 1 01900002
000D76	58E0	1008	00008		2225+	L	14,8(0,1)	PICK UP DCB ADDR 00700000
000D7A	58F0	E034	00034		2226+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 00750000
000D7E	05EF				2227+	BALR	14,15	LINK TO CHECK ROUTINE 00800000
000D80	9102	97A8	007A8		2228	TM	DIRSW,2	I/O Error?
000D84	4710	AE36	00E36		2229	BO	PODERR	YES, report and exit
					2230 *			
			00D88		2231	PODBLKSC	EQU *	Count DIR Blocks
000D88	5810	97AC	007AC		2232	L	R1,PODBLKS	R1=PODBLKS
000D8C	4111	0001	00001		2233	LA	R1,1(R1)	Add 1 to PODBLS
000D90	5010	97AC	007AC		2234	ST	R1,PODBLKS	Save PODBLS count
000D94	9101	97A8	007A8		2235	TM	DIRSW,1	Past USED blocks?
000D98	4710	AD48	00D48		2236	BO	PODREAD	YES, read another block
000D9C	4110	96A0	006A0		2237	LA	R1,BLOCK	NO, R1=Addr of BLOCK
000DA0	4800	1000	00000		2238	LH	R0,0(,R1)	R0=Bytes in use
000DA4	1A01				2239	AR	R0,R1	R0=Addr past last entry
000DA6	4110	1002	00002		2240	LA	R1,2(,R1)	R1=Addr of first member in block
					2241 *			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				00DAA	2243	PODENTRY	EQU *	USED and UNUSED DIR BLK Test
000DAA	D507	1000	B588	00000	01588	2244	CLC 0(8,R1),=8X'FF'	Last member in DIR BLK?
000DB0	4780	ADF4		00DF4	2245		BE PODUSED	YES, mark End of USED BLKS and read
					2246	*		NO, test for ALIAS or MEMBER entry
000DB4	9180	100B		0000B	2247		TM 11(R1),X'80'	ALIAS?
000DB8	4710	ADCC		00DCC	2248		BO PODALIAS	YES, branch to PODALIAS
					2249	*		NO, count MEMBER type
				00DBC	2250	PODMEMBR	EQU *	Member Count
000DBC	5830	97B4		007B4	2251		L R3,POMEMS	R3=POMEMS
000DC0	4133	0001		00001	2252		LA R3,1(R3)	Add 1 to POMEMS
000DC4	5030	97B4		007B4	2253		ST R3,POMEMS	Save member count
000DC8	47F0	ADD8		00DD8	2254		B PODNEXT	Branch to next DIR entry
					2255	*		
				00DCC	2256	PODALIAS	EQU *	Alias Member Count
000DCC	5830	97B8		007B8	2257		L R3,POALIS	R3=POALIS
000DD0	4133	0001		00001	2258		LA R3,1(R3)	Add 1 to POALIS
000DD4	5030	97B8		007B8	2259		ST R3,POALIS	Save POALIS count
					2260	*		
				00DD8	2261	PODNEXT	EQU *	Get next DIR ENTRY
000DD8	1F33				2262		SLR R3,R3	Clear R3
000DDA	4330	100B		0000B	2263		IC R3,11(,R1)	Load C (Control Info)
000DDE	5430	B5B8		015B8	2264		N R3,=F'31'	All BITS OFF except bits 3-7
000DE2	8930	0001		00001	2265		SLL R3,1	Multiply by 2; HALFWORDS to bytes
000DE6	4113	100C		0000C	2266		LA R1,12(R3,R1)	Point past user data...
000DEA	1910				2267		CR R1,R0	End of DIR block?
000DEC	4740	ADAA		00DAA	2268		BL PODENTRY	NO, process next entry
000DF0	47F0	AD48		00D48	2269		B PODREAD	YES, read next block
					2270	*		
000DF4	9601	97A8		007A8	2271	PODUSED	OI DIRSW,1	Passed Used blocks...
000DF8	D203	97B0	97AC	007B0	007AC	2272	MVC PODBLKSU,PODBLKS	Store Used Blocks count
000DFE	47F0	AD48		00D48	2273		B PODREAD	Read next block
					2274	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
				00E02	2276	PODSYN	EQU *	IO ERROR from reading PDS DIR			
					2277		SYNADAF ACSMETH=BSAM	Obtain msg/err code for I/O error			
000E02	41F0	F000	00000		2278+		LA 15,0(0,15)	ZERO HIGH ORDER BYTE	15138	31200016	
000E06	0700				2279+		CNOP 0,4		15138	32000016	
000E08	56F0	AE10	00E10		2280+		0 15,*+8	SET ACCESS METHOD IN REG. 15		33000013	
000E0C	47F0	AE14	00E14		2281+		BC 15,*+8	BRANCH AROUND LIST		34000013	
000E10	02				2282+		DC AL1(2)	ACCESS METHOD CODE		35000013	
000E11	000000				2283+		DC AL3(0)			36000013	
000E14	0A44				2284+		SVC 68	ISSUE SVC		51000013	
000E16	D24D	909C	102C	0009C	0002C	2285	MVC DJMSG(78),44(R1)	Move to &SYSLISTDSJMSG			
000E1C	9602	97A8		007A8	2286		OI DIRSW,2	I/O error setting			
					2287		SYNADRLS	Release msg buff/saveareas -SYNADAF			
000E20	41F0	F000	00000		2288+		LA 15,0(0,15)	ZERO HIGH ORDER BYTE		27000013	
000E24					2289+		CNOP 0,4			36000013	
000E24	56F0	AE2C	00E2C		2290+		0 15,*+8	SET RELEASE CODE		45000013	
000E28	47F0	AE30	00E30		2291+		B *+8	BRANCH AROUND CODE		54000019	
000E2C	FF000000				2292+		DC X'FF000000'	RELEASE CODE		63000013	
000E30	0A44				2293+		SVC 68	ISSUE SVC		72000013	
000E32	47F0	AE7C	00E7C		2294		B PODCNTS	Go Unpack DIR INFO and FREE PDS			
				00E36	2296	PODERR	EQU *	SYNADAF Error			
					2297	*		Message already in DJMSG			
000E36	47F0	AE7C	00E7C		2298		B PODCNTS	Go Unpack DIR INFO and FREE PDS			
				00E3A	2300	PODEOF	EQU *	End of File Detected (DCB)			
					2301		CLOSE ((R2)),MF=(E,PARMVL1)	Close PDS execute form			
000E3A	4110	9828	00828		2302+		LA 1,PARMVL1	LOAD PARAMETER REG 1	01900002		
000E3E	43E1	0000	00000		2303+		IC 14,0(1,0)	SAVE OPTION BYTE	01140000		
000E42	5021	0000	00000		2304+		ST R2,0(1,0)	STORE DCB ADDR IN LIST	01320000		
000E46	42E1	0000	00000		2305+		STC 14,0(1,0)	RESTORE OPTION BYTE	01340000		
000E4A	0A14				2306+		SVC 20	ISSUE CLOSE SVC	01640000		
000E4C	12FF				2307		LTR R15,R15	Successful?			
000E4E	4780	AE7C	00E7C		2308		BZ PODCONT9	YES, continue...			
					2309	*		NO, ERROR, cannot close PDS			
000E52	D215	909C	BEA6	0009C	01EA6	2310	MVC DJMSG(L'MSGJ031),MSGJ031	Move to &SYSLISTDSJMSG			
000E58	4EF0	9280	00280		2311		CVD R15,DW	Convert to decimal			
000E5C	F321	909F	9286	0009F	00286	2312	UNPK DJMSG+3(3),DW+6(2)	Unpack and			
000E62	96F0	90A1	000A1		2313		OI DJMSG+5,X'F0'	... force and F zone			
000E66	D201	9100	B626	00100	01626	2314	MVC DRSNCODE,=C'13'	Cannot close file error			
000E6C	D203	928C	B5B4	0028C	015B4	2315	MVC RCEXIT,=F'04'				
000E72	D201	92BA	B624	002BA	01624	2316	MVC RC,=C'04'				
000E78	47F0	AF18	00F18		2317		B ENDME	Done, exit.			
					2318		PRINT NOGEN				
					2319	*					
				00E7C	2320	PODCONT9	EQU *				
					2321	*					

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2323 *	/* *****/	
					2324 *	/* PO Directory Information */	
					2325 *	/* Save block and member information */	
					2326 *	/* - R3, R7 Working Register */	
					2327 *	/* *****/	
			00E7C		2328 PODCNTS EQU *		
					2329 *	/* #Data source: 16 SYSADIRBLK */	
000E7C	5830	97AC	007AC		2330	L R3,PODBLKS DIR Blocks	
000E80	4E30	9280	00280		2331	CVD R3,DW convert to decimal	
000E84	F342	9218	9285 00218	00285	2332	UNPK DDBLKS,DW+5(3) Unpack and	
000E8A	96F0	921C	0021C		2333	OI DDBLKS+4,X'F0' ... force F zone	
					2334 *		
					2335 *	/* #Data source: 17 SYSUDIRBLK */	
000E8E	5830	97B0	007B0		2336	L R3,PODBLKSU DIR Blocks Used	
000E92	4E30	9280	00280		2337	CVD R3,DW convert to decimal	
000E96	F342	921D	9285 0021D	00285	2338	UNPK DDIRBKSU,DW+5(3) Unpack and	
000E9C	96F0	9221	00221		2339	OI DDIRBKSU+4,X'F0' ... force F zone	
					2340 *		
					2341 *	/* #Data source: 18 SYSNUDIRBLK */	
000EA0	5830	97AC	007AC		2342	L R3,PODBLKS DIR Blocks Unused (calculate)	
000EA4	5B30	97B0	007B0		2343	S R3,PODBLKSU	
000EA8	4E30	9280	00280		2344	CVD R3,DW convert to decimal	
000EAC	F342	9222	9285 00222	00285	2345	UNPK DDIRBKSN,DW+5(3) Unpack and	
000EB2	96F0	9226	00226		2346	OI DDIRBKSN+4,X'F0' ... force F zone	
					2347 *		
					2348 *	/* #Data source: 19 SYSMEMBERS */	
000EB6	5830	97B4	007B4		2349	L R3,POMEMS PDS POMEMS	
000EBA	5A30	97B8	007B8		2350	A R3,POALIS plus PDS Aliases	
000EBE	4E30	9280	00280		2351	CVD R3,DW convert to decimal	
000EC2	F342	9227	9285 00227	00285	2352	UNPK DMEMBERS,DW+5(3) Unpack and	
000EC8	96F0	922B	0022B		2353	OI DMEMBERS+4,X'F0' ... force F zone	
					2354 *		
					2355 *	/* #Data source: 20 SYSMEMBERSALIAS */	
000ECC	5830	97B8	007B8		2356	L R3,POALIS PDS Aliases	
000ED0	4E30	9280	00280		2357	CVD R3,DW convert to decimal	
000ED4	F342	922C	9285 0022C	00285	2358	UNPK DALIASES,DW+5(3) Unpack and	
000EDA	96F0	9230	00230		2359	OI DALIASES+4,X'F0' ... force F zone	
					2360 *		
			00EDE		2361 PODX EQU *		
					2362 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					2364	*	*/*****	*/
					2365	*	/* PDS Directory Information	*/
					2366	*	/* Free PDS	*/
					2367	*	/* -JMSG'RC=xxx Free PDS error'	*/
					2368	*	/* - R7 Working Register	*/
					2369	*	/* - R15 Working Register and RC exit code register	*/
					2370	*	*/*****	*/
			00EDE		2371	PDSUNALC	EQU *	
000EDE	4570	B256	01256		2372	BAL	R7,PDSFRE	FREE dataset
000EE2	12FF				2373	LTR	R15,R15	Successful?
000EE4	4780	AF18	00F18		2374	BZ	PODDIRXT	YES, Done.
					2375	*		NO, cannot FREE PDS
000EE8	D214	909C	BDCD	0009C	01DCD	2376	MVC	DJMSG(L'MSGJ018),MSGJ018 Move to &SYSLISTDSJMSG
000EEE	4EF0	9280		00280		2377	CVD	R15,DW Convert to decimal
000EF2	F321	909F	9286	0009F	00286	2378	UNPK	DJMSG+3(3),DW+6(2) Unpack and
000EF8	96F0	90A1		000A1		2379	OI	DJMSG+5,X'F0' ... force and F zone
000EFC	D201	9100	B622	00100	01622	2380	MVC	DRSNCODE,=C'02' Dynam Alloc error
000F02	D203	928C	B5B4	0028C	015B4	2381	MVC	RCEXIT,=F'04'
000F08	D201	92BA	B624	002BA	01624	2382	MVC	RC,=C'04'
000F0E	47F0	AF18	00F18		2383	B	ENDME	Done, exit.
			00F12		2385	PODDIRNN	EQU *	DIR option not valid
000F12	D21C	909C	BD97	0009C	01D97	2386	MVC	DJMSG(L'MSGJ015),MSGJ015 Move to &SYSLISTDSJMSG
			00F18		2388	PODDIRXT	EQU *	
					2389	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2391 *	/* *****/	
					2392 *	/* Pre-exit Processing */	
					2393 *	/* - Create symbolic variables, FREEMAIN, and */	
					2394 *	/* return to caller */	
					2395 *	/* - R5, R7, R3, R4, R9 Working Register */	
					2396 *	/* *****/	
000F18					2397 ENDME	DS 0H Pre-exit processing	
					2398 *		
					2399 *	/-----/	
					2400 *	/* Create Symbolic Variables */	
					2401 *	/-----/	
			00F18		2402 CR8SYMS	EQU * Get DMSGL2 text and length	
000F18	4570	B2C8	012C8		2403	BAL R7,SETML2	
000F1C	D203	92B4	92B0	002B4 002B0	2404	MVC DMSGL2L,DMSGL1L	
					2405 *	/* #Data source: 03 SYMSGLVL1 */	
000F22	D227	912A	9102	0012A 00102	2406	MVC DMSGL2,DMSGL1	
					2407 *	/* #Data source: 04 SYMSGLVL2 via SETML1 subrtn */	
000F28	4570	B2B2	012B2		2408	BAL R7,SETML1 Get DMSGL1 text and length	
000F2C	F810	92BC	B668	002BC 01668	2409	ZAP SNN,=P'+0' Initialize Snn to 000	
000F32	4130	002E	0002E		2410	LA R3,S#@NUM Number of Symbolic Variables	
000F36	4140	B864	01864		2411	LA R4,S#@ Start addr of Sym Var meta table	
					2412 *	/-----/	
					2413 *	/* Loop through symbol parm table */	
					2414 *	/-----/	
			00F3A		2415 S#@VAR	EQU * PNL action for Snn vars?	
000F3A	95E8	92FA	002FA		2416	CLI PPNL,C'Y'	
000F3E	4770	AF6A	00F6A		2417	BNE S#@VARLN NO, use Long Symbolic Names	
			00F42		2418 S#@VARSN	EQU * YES, use Short Symbolic Names	
000F42	F321	92C1	92BC	002C1 002BC	2419	UNPK SNNUPK,SNN Unpack seq number 3 digits	
000F48	96F0	92C3	002C3		2420	OI SNNUPK+2,X'F0' ... force an F zone	
000F4C	92E2	92BE	002BE		2421	MVI SNNC,C'S' Panel Symbols are format 'Snn'	
000F50	D201	92BF	92C2	002BF 002C2	2422	MVC SNNC+1(2),SNNUPK+1 Move right-most 2 digits	
000F56	4150	92BE	002BE		2423	LA R5,SNNC Set Var Name Address	
000F5A	5050	9060	00060		2424	ST R5,NAMP1	
000F5E	4150	0003	00003		2425	LA R5,3 Set Var Name Length	
000F62	5050	9064	00064		2426	ST R5,NAML1	
000F66	47F0	AF76	00F76		2427	B S#@VARC Branch to ...	
			00F6A		2428 S#@VARLN	EQU * Long Symbolic Names	
000F6A	D203	9060	4000	00060 00000	2429	MVC NAMP1,0(R4) Set Var Name Address	
000F70	D203	9064	4004	00064 00004	2430	MVC NAML1,4(R4) Set Var Name Length	
			00F76		2431 *		
					2432 S#@VARC	EQU * Continue...	
000F76	4854	0008	00008		2433	LH R5,8(R4) Load Base-Displacement HW	
000F7A	4B50	B628	01628		2434	SH R5,=X'9000' Subtract Base from S-adcon	
000F7E	1A59				2435	AR R5,R9 Add Base R9 to displacement R5	
000F80	5050	9068	00068		2436	ST R5,VALP1 Set Var Value Address	
					2437 *		
000F84	F910	92BC	B669	002BC 01669	2438	CP SNN,=P'+3' Custom MSG1?	
000F8A	4780	AF9C	00F9C		2439	BE MSG11 YES.	
000F8E	F910	92BC	B66A	002BC 0166A	2440	CP SNN,=P'+4' Custom MSG2?	
000F94	4780	AFA4	00FA4		2441	BE MSG12 YES.	
000F98	47F0	AFB0	00FB0		2442	B OTHR Normal	
					2443 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				00F9C	2445	MSGL1	EQU *	Custom MSGL1
000F9C	5850	92B0	002B0		2446		L R5,DMSGL1L	
000FA0	47F0	AFA8	00FA8		2447		B MSG LX	
				00FA4	2448	MSGL2	EQU *	Custom MSGL2
000FA4	5850	92B4	002B4		2449		L R5,DMSGL2L	
				00FA8	2450	MSGLX	EQU *	Custom common
000FA8	5050	906C	0006C		2451		ST R5,VALL1	
000FAC	47F0	AFB6	00FB6		2452		B CONTZ	
				00FB0	2453	OTHR	EQU *	Normal
000FB0	D203	906C	400C	0006C	2454		MVC VALL1,12(R4)	Set Var Value Length
					2455	*		
				00FB6	2456	CONTZ	EQU *	Continue...
000FB6	4550	B410	01410		2457		BAL R5,SETVAR	Set Variable via IKJCT441
000FBA	4144	0010	00010		2458		LA R4,16(R4)	Bump to next Sym Var meta entry
000FBE	FA10	92BC	B66B	002BC	2459		AP SNN,=P'+1'	Increment seq no
000FC4	4630	AF3A	00F3A		2460		BCT R3,S#@VAR	
				00FC8	2461	S#@VARXT	EQU *	
					2462	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				00FC8	2464	MYEXIT	EQU *	
					2465	*	/* ***** */	
					2466	*	/* - Restore savearea, FREEMAIN, and	*/
					2467	*	/* return to caller	*/
					2468	*	/* ***** */	
					2469	*		
					2470	*	/* ----- */	
					2471	*	/* R1 = my Working Storage Address from GETMAIN	*/
					2472	*	/* ***** */	
000FC8	181D				2473		LR R1,R13 Working Storage Addr	
					2474	*		
					2475	*	/* ----- */	
					2476	*	/* Get callers savearea into R13 and overlay my R15	*/
					2477	*	/* to be returned to caller	*/
					2478	*	/* ----- */	
000FCA	58D0	9004	00004		2479		L R13,SAVEAREA+4 Restore R13	
000FCE	D203	9010	928C	00010	0028C	2480	MVC SAVEAREA+16(4),RCEXIT Set R15 to my exit value	
					2481	*		
					2482	*	/* ----- */	
					2483	*	/* Working Storage FREEMAIN	*/
					2484	*	/* ----- */	
000FD4	4100	0854		00854	2485		LA R0,WSAREAL Size of WSAREA DSECT	
					2486		FREEMAIN R, LV=(R0),A=(R1) Free Storage	
					2491	*		
					2492	*	/* ----- */	
					2493	*	/* Restore caller registers and return to caller	*/
					2494	*	/* ----- */	
					2495	****	LM R14,R12,12(R13) Restore R14 thru R12	
000FE0	58ED	000C	0000C		2496		L R14,12(R13) Restore R14	
000FE4	58F0	9010	00010		2497		L R15,SAVEAREA+16 R15 = RC for exit	
000FE8	980C	D014	00014		2498		LM R0,R12,20(R13) Restore R0 thru R12	
000FEC	07FE				2499		BR R14 Return to caller	
					2500	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
					2502	*	/* *****/	
					2503	*	/* Error Setting */	
					2504	*	/* - R15 Working Register and RC exit code register */	
					2505	*	/* *****/	
			00FEE		2506	CAMRCERR	EQU *	
000FEE	59F0	B5BC	015BC		2507		C R15,=F'4'	RC = 4?
000FF2	4780	B01C	0101C		2508		BE CAMR04	YES.
000FF6	59F0	B5C0	015C0		2509		C R15,=F'8'	RC = 8?
000FFA	4780	B032	01032		2510		BE CAMR08	YES.
000FFE	59F0	B5C4	015C4		2511		C R15,=F'12'	RC = 12?
001002	4780	B048	01048		2512		BE CAMR12	YES.
					2513	*		NO, must be catalog error
001006	D201	9100	B62A	00100	0162A	2514	MVC DRSNCODE,=C'21'	Catalog error, obtain err rc=8,12,16
00100C	D203	928C	B5A0	0028C	015A0	2515	MVC RCEXIT,=F'16'	
001012	D201	92BA	B5F4	002BA	015F4	2516	MVC RC,=C'16'	
001018	47F0	AF18	00F18		2517	B	ENDME	Done, exit.
			0101C		2518	CAMR04	EQU *	
00101C	D201	9100	B62C	00100	0162C	2519	MVC DRSNCODE,=C'22'	Volume not mounted
001022	D203	928C	B5A0	0028C	015A0	2520	MVC RCEXIT,=F'16'	
001028	D201	92BA	B5F4	002BA	015F4	2521	MVC RC,=C'16'	
00102E	47F0	AF18	00F18		2522	B	ENDME	Done, exit.
			01032		2523	CAMR08	EQU *	
001032	D201	9100	B62E	00100	0162E	2524	MVC DRSNCODE,=C'24'	Dataset not found
001038	D203	928C	B5A0	0028C	015A0	2525	MVC RCEXIT,=F'16'	
00103E	D201	92BA	B5F4	002BA	015F4	2526	MVC RC,=C'16'	
001044	47F0	AF18	00F18		2527	B	ENDME	Done, exit.
			01048		2528	CAMR12	EQU *	
001048	D201	9100	B630	00100	01630	2529	MVC DRSNCODE,=C'23'	Permanent I/O error
00104E	D203	928C	B5A0	0028C	015A0	2530	MVC RCEXIT,=F'16'	
001054	D201	92BA	B5F4	002BA	015F4	2531	MVC RC,=C'16'	
00105A	47F0	AF18	00F18		2532	B	ENDME	Done, exit.
					2533	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				0105E	2535	ERR4004	EQU *	
00105E	D203	928C	B5C8	0028C	015C8	2536	MVC RCEXIT,=F'4004'	PARM not supplied
001064	4570	B1D6		011D6	2537	BAL R7,PREFXMSG	Prefix start of message	
001068	D210	90AB	BD36	000AB	01D36	2538	MVC DJMSG+15(MSG4004L),MSG4004	Move to &SYSLISTDSJMSG
					2539	TPUT DJMSG,MSG4004L+15		
001088	47F0	B1C0		011C0	2550	B RSN29		
				0108C	2551	ERR4005	EQU *	
00108C	D203	928C	B5CC	0028C	015CC	2552	MVC RCEXIT,=F'4005'	PARM not supplied R1
001092	4570	B1D6		011D6	2553	BAL R7,PREFXMSG	Prefix start of message	
001096	D210	90AB	BD36	000AB	01D36	2554	MVC DJMSG+15(MSG4004L),MSG4004	Move to &SYSLISTDSJMSG
					2555	TPUT DJMSG,MSG4004L+15		
0010B4	47F0	B1C0		011C0	2566	B RSN29		
				010B8	2567	ERR4008	EQU *	
0010B8	D203	928C	B5D0	0028C	015D0	2568	MVC RCEXIT,=F'4008'	CPPL error no variables
0010BE	4570	B1D6		011D6	2569	BAL R7,PREFXMSG	Prefix start of message	
0010C2	D210	90AB	BD47	000AB	01D47	2570	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2571	TPUT DJMSG,MSG4009L+15		
0010E0	47F0	B1C0		011C0	2582	B RSN29		
				010E4	2583	ERR4009	EQU *	
0010E4	D203	928C	B5D4	0028C	015D4	2584	MVC RCEXIT,=F'4009'	CPPL error no variables ZERO
0010EA	4570	B1D6		011D6	2585	BAL R7,PREFXMSG	Prefix start of message	
0010EE	D210	90AB	BD47	000AB	01D47	2586	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2587	TPUT DJMSG,MSG4009L+15		
00110C	47F0	B1C0		011C0	2598	B RSN29		
				01110	2599	ERR4010	EQU *	
001110	D203	928C	B5D8	0028C	015D8	2600	MVC RCEXIT,=F'4010'	CPPL error no variables NEGATIVE
001116	4570	B1D6		011D6	2601	BAL R7,PREFXMSG	Prefix start of message	
00111A	D210	90AB	BD47	000AB	01D47	2602	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2603	TPUT DJMSG,MSG4009L+15		
001138	47F0	B1C0		011C0	2614	B RSN29		
				0113C	2615	ERR4097	EQU *	
00113C	D203	928C	B5DC	0028C	015DC	2616	MVC RCEXIT,=F'4097'	IKJDAIR not found, link error
001142	4570	B1D6		011D6	2617	BAL R7,PREFXMSG	Prefix start of message	
001146	D215	90AB	BD58	000AB	01D58	2618	MVC DJMSG+15(MSG4097L),MSG4097	Move to &SYSLISTDSJMSG
					2619	TPUT DJMSG,MSG4097L+15		
001164	47F0	AFC8		00FC8	2630	B MYEXIT		
				01168	2631	ERR4098	EQU *	
001168	D203	928C	B5E0	0028C	015E0	2632	MVC RCEXIT,=F'4098'	IKJCT441 not found, link error
00116E	4570	B1D6		011D6	2633	BAL R7,PREFXMSG	Prefix start of message	
001172	D216	90AB	BD6E	000AB	01D6E	2634	MVC DJMSG+15(MSG4098L),MSG4098	Move to &SYSLISTDSJMSG
					2635	TPUT DJMSG,MSG4098L+15		
001190	47F0	AFC8		00FC8	2646	B MYEXIT		
				01194	2647	ERR4099	EQU *	
001194	D203	928C	B5E4	0028C	015E4	2648	MVC RCEXIT,=F'4099'	Program requires TSO
00119A	4570	B1D6		011D6	2649	BAL R7,PREFXMSG	Prefix start of message	
00119E	D211	90AB	BD85	000AB	01D85	2650	MVC DJMSG+15(MSG4099L),MSG4099	Move to &SYSLISTDSJMSG
					2651	TPUT DJMSG,MSG4099L+15		
0011BC	47F0	AFC8		00FC8	2662	B MYEXIT		
				011C0	2663	RSN29	EQU *	
0011C0	D201	9100	B632	00100	01632	2664	MVC DRSNCODE,=C'29'	DSN/DD must be specified
0011C6	D203	928C	B5A0	0028C	015A0	2665	MVC RCEXIT,=F'16'	
0011CC	D201	92BA	B5F4	002BA	015F4	2666	MVC RC,=C'16'	
0011D2	47F0	AF18		00F18	2667	B ENDME		Done, exit.
					2668	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2670	*	*
					2671	*	/* *****/
					2672	*	/* Subroutine - Prefix message (R7) */
					2673	*	/* w/ 14-byte header 'LISTSDJ nnnn - ' */
					2674	*	/* - R3, R7 Working Register */
					2675	*	/* *****/
			011D6		2676	PREFXMSG EQU	*
0011D6	D207	909C	A01E	0009C	0001E	2677	MVC DJMSG+00(8),PGMID
0011DC	5830	928C		0028C		2678	L R3,RCEXIT Load RCEXIT code value
0011E0	4E30	9280		00280		2679	CVD R3,DW Convert to decimal
0011E4	F342	90A4	9285	000A4	00285	2680	UNPK DJMSG+08(5),DW+5(3) Unpack
0011EA	96F0	90A8		000A8		2681	OI DJMSG+12,X'F0' Force an F Zone
0011EE	9240	90A4		000A4		2682	MVI DJMSG+08,C' ' Blank out digit
0011F2	9260	90AA		000AA		2683	MVI DJMSG+14,C' - ' Blank out digit
					2684	*	
0011F6	07F7				2685	BR R7	Return to caller
					2686	*	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2688	* /* *****	*/
					2689	* /* Subroutine - Allocate Dataset for DIR Info (R7)	*/
					2690	* /* - R0 Working Register	*/
					2691	* /* - R1 Working Register	*/
					2692	* /* - R2 Working Register	*/
					2693	* /* - R3 Working Register	*/
					2694	* /* - R5 Working Register	*/
					2695	* /* *****	*/
			011F8		2696	PDSALC EQU *	
					2697	*	
					2698	* /* Build MYDAPL area comprised of 5 FW	*/
					2699	* /* using DAPL DSECT with data from CPPL	*/
					2700	*	
0011F8	4110	9630	00630		2701	LA R1,MYDAPL MYDAPL area, 5 FW	
				00000	2702	USING DAPL,R1 Use DAPL DSECT	
0011FC	5820	9628	00628		2703	L R2,MYCPPLP MYCPPL address	
				00000	2704	USING CPPL,R2 Use CPPL DSECT	
001200	D203	1000	2004	00000	2705	MVC DAPLUPT(4),CPPLUPT Init DAPLUPT FW1	
001206	D203	1004	200C	00004	2706	MVC DAPLECT(4),CPPLECT Init DAPLECT FW2	
00120C	4100	962C		0062C	2707	LA R0,MYECB	
001210	5000	1008		00008	2708	ST R0,DAPLECB	
001214	D203	100C	2008	0000C	2709	MVC DAPLPSCB(4),CPPLPSCB Init DAPLPSCB FW4	
00121A	4130	9648		00648	2710	LA R3,MYDAPB MYDAPB area, dynalloc block	
00121E	5030	1010		00010	2711	ST R3,DAPLDAPB Init DAPLDAPB FW5	
					2712	* /* ----- */	
					2713	* /* Build DAPB08 Allocate Block for Dynamic	*/
					2714	* /* Allocation Interface Routine (DAIR)	*/
					2715	* /* ----- */	
				00000	2716	USING DAPB08,R3 Use DAPB08 DSECT	
001222	D253	3000	BED0	00000	2717	MVC 0(INPB08L,R3),INPB08 Init MYDAPB w X'08' entry code	
001228	4100	92C4		002C4	2718	LA R0,PDSNL Name length and name of Dataset	
00122C	5000	3008		00008	2719	ST R0,DA08PDSN	
001230	D207	3014	B590	00014	2720	MVC DA08UNIT,=CL8'SYSALLDA' UNIT=SYSALLDA	
001236	D205	301C	9152	0001C	2721	MVC DA08SER(L'DVOLSER),DVOLSER VOL=SER=	
00123C	9208	3044		00044	2722	MVI DA08DSP1,DA08SHR DISP=SHR	
001240	4550	B270		01270	2723	BAL R5,DAIR Call DAIR	
001244	12FF				2724	LTR R15,R15 Allocate successful?	
001246	4770	B254		01254	2725	BNZ PDSALCXT NO, exit	
00124A	4130	9648		00648	2726	LA R3,MYDAPB YES, get DDN	
00124E	D207	97A0	300C	007A0	2727	MVC DDNAME,DA08DDN	
					2728	* OI ALLOCSW,1	
				01254	2729	PDSALCXT EQU *	
					2730	*	
001254	07F7				2731	BR R7 Return to caller	
					2732	*	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19	
					2734 *	/* *****/		
					2735 *	/* Subroutine - Free Dataset (R7) */		
					2736 *	/* *****/		
			01256		2737 PDSFRE	EQU *		
					2738 *	/* ----- */		
					2739 *	/* Build DAPB18 Free Block for Dyanamic */		
					2740 *	/* Allocation Interface Routine (DAIR) */		
					2741 *	/* ----- */		
001256	4130	9648	00648		2742	LA R3,MYDAPB	Addr of MYDAPB for DAIR	
			00000		2743	USING DAPB18,R3	Use DAPB18 DSECT	
00125A	D227	3000	BF28	00000	01F28	2744	MVC 0(INPB18L,R3),INPB18	Init MYDAPB w X'18' entry code
001260	D207	300C	97A0	0000C	007A0	2745	MVC DA18DDN,DDNAME	
001266	4110	9630		00630		2746	LA R1,MYDAPL	Load R1 with block addr
00126A	4550	B270		01270		2747	BAL R5,DAIR	Call DAIR
					2748 *			
			0126E		2749 PDSFREXT	EQU *		
					2750 *			
00126E	07F7				2751	BR R7	Return to caller	
					2752 *			
					2753 *	/* *****/		
					2754 *	/* Subroutine - DAIR Link (R5) */		
					2755 *	/* *****/		
			01270		2756 DAIR	EQU *		
					2757	PRINT GEN		
					2758	LINK EP=IKJDAIR,MF=(E,(R1)),ERRET=ERR4097	Link	
001270	1811				2759+	LR 1,(R1)	LOAD PARAMETER REG 1	02050002
001272	0700				2760+	CNOP 0,4		04900000
001274	45F0	B28C	0128C		2761+	BAL 15,*+24	BRANCH AROUND CONSTANTS	04950000
001278	00001284				2762+	DC A(*+12)	ADDR. OF PARM. LIST	05050000
00127C	80				2763+	DC X'80'	RETURN REQUESTED INDICATOR	06300000
00127D	000000				2764+	DC AL3(0)	DCB ADDRESS PARAMETER	06350000
001280	0000113C				2765+	DC A(ERR4097)	RETURN ADDRESS PARAMETER	06450000
001284	C9D2D1C4C1C9D940				2766+	DC CL8'IKJDAIR'	EP PARAMETER	06750000
00128C	0A06				2767+	SVC 6	ISSUE LINK SVC	48000000
					2768	PRINT NOGEN		
					2769 *			
00128E	07F5				2770	BR R5		
					2771 *			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					2773	*	/* *****	0201 09.46 05/07/19
					2774	*	/* Subroutine - Sum Extents	(R7) */
					2775	*	/* - R0, R1 Working Registers	*/
					2776	*	/* - R2 Total CYL	*/
					2777	*	/* - R3 Total TRKS	*/
					2778	*	/* *****	*/
			01290		2779	TOTEXTS	EQU *	
001290	1B11				2780	SR	R1,R1	Use R1 and R0 for
001292	1B00				2781	SR	R0,R0	...work CC and HH
001294	BF13	4006	00006		2782	ICM	R1,B'0011',6(R4)	CC High value
001298	BF03	4002	00002		2783	ICM	R0,B'0011',2(R4)	CC Low value
00129C	1B10				2784	SR	R1,R0	Extent total
00129E	1A31				2785	AR	R3,R1	R3 = Total CYL (CC)
0012A0	BF13	4008	00008		2787	ICM	R1,B'0011',8(R4)	HH High value
0012A4	4111	0001	00001		2788	LA	R1,1(R1)	HH, up by 1 to account for 0
0012A8	BF03	4004	00004		2789	ICM	R0,B'0011',4(R4)	HH Low value
0012AC	1B10				2790	SR	R1,R0	Extent total
0012AE	1A21				2791	AR	R2,R1	R2 = Total TRKS (HH)
					2792	*		
0012B0	07F7				2793	BR	R7	Return to caller
					2794	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2796 *	/* *****	/*
					2797 *	/* Subroutine - Set MSG1 Text and Length	(R7) */
					2798 *	/* Subroutine - Set MSG2 Text and Length	(R7) */
					2799 *	/* Set R5 to length of DMSG1 / DMSG2 text	*/
					2800 *	/* - R3, R4, R6 Working Registers	*/
					2801 *	/* - R5 Length of DMSG1 text	*/
					2802 *	/* *****	*/
			012B2		2803 SETML1	EQU *	
0012B2	4130	BCCD	01CCD		2804	LA R3,RCTBLBEG	Addr of Return Code TBL
0012B6	4133	0068	00068		2805	LA R3,RCTBLLEN-1(R3)	Calc End Addr of Return Code TBL
0012BA	4140	BCCD	01CCD		2806	LA R4,RCTBLBEG	Addr of Return Code TBL
0012BE	D201	92B8	92BA 002B8	002BA	2807	MVC CD,RC	Return Code
0012C4	47F0	B2DE	012DE		2808	B CHKCD	
			012C8		2809 SETML2	EQU *	
0012C8	4130	BB44	01B44		2810	LA R3,RSTBLBEG	Addr of Reason Code TBL
0012CC	4133	0188	00188		2811	LA R3,RSTBLLEN-1(R3)	Calc End Addr of Reason Code TBL
0012D0	4140	BB44	01B44		2812	LA R4,RSTBLBEG	Addr of Reason Code TBL
0012D4	D201	92B8	9100 002B8	00100	2813	MVC CD,DRSNCODE	Reason Code
0012DA	47F0	B2DE	012DE		2814	B CHKCD	
			012DE		2815 CHKCD	EQU *	Find Return Code
0012DE	1943				2816	CR R4,R3	Exhausted table?
0012E0	4720	B2FE	012FE		2817	BH CDNOFIND	Yes!
0012E4	D501	4000	92B8 00000	002B8	2818	CLC 0(2,R4),CD	Code match?
0012EA	4780	B30C	0130C		2819	BE CDFOUND	YES, found entry
					2820 *		NO, position to next Return Code ent
0012EE	4144	0002	00002		2821	LA R4,2(R4)	Point to len of current msg
0012F2	4A44	0000	00000		2822	AH R4,0(R4)	Add len of current msg
0012F6	4144	0002	00002		2823	LA R4,2(R4)	Adj for len of current msg
0012FA	47F0	B2DE	012DE		2824	B CHKCD	Check again.
			012FE		2825 CDNOFIND	EQU *	
0012FE	D201	9102	B634 00102	01634	2826	MVC DMSG1(2),=C'??'	Exhausted table lookup loop
001304	4150	0002	00002		2827	LA R5,2	.. msg '??', len=2
001308	47F0	B332	01332		2828	B CDC1	
			0130C		2829 CDFOUND	EQU *	
00130C	4144	0002	00002		2830	LA R4,2(R4)	R4 = addr of current msg len
001310	4854	0000	00000		2831	LH R5,0(R4)	R5 = len of current msg
001314	4144	0002	00002		2832	LA R4,2(R4)	R4 = addr of current msg text
001318	4160	0028	00028		2833	LA R6,L'DMSG1	R6 = max length
00131C	1956				2834	CR R5,R6	Max msg length?
00131E	47D0	B324	01324		2835	BNH MOVEML1	NO, move msg text L1
001322	1856				2836	LR R5,R6	Force max msg length
			01324		2837 MOVEML1	EQU *	
001324	4450	B32C	0132C		2838	EX R5,MVCMSG1	EX MSGVLV1 text from table
001328	47F0	B332	01332		2839	B CDC1	
00132C	D200	9102	4000 00102	00000	2840 MVCMSG1	MVC DMSG1(0),0(R4)	MVC DMSG1
			01332		2841 CDC1	EQU *	
001332	5050	92B0	002B0		2842	ST R5,DMSG1L	Store Length
					2843 *		
001336	07F7				2844	BR R7	Return to caller
					2845 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					2847	*	/* *****	0201 09.46 05/07/19
					2848	*	/* Subroutine - Date Convert CCYY/JJJ	(R7) */
					2849	*	/* Date windowing of 70.	*/
					2850	*	/* - R5 Working Register	*/
					2851	*	/* *****	*/
				01338	2852	DATECONV	EQU *	
001338	D703	9288	9288	00288	00288	2853	XC FW,FW	Clear contents
00133E	D200	928B	6000	0028B	00000	2854	MVC FW+3(1),0(R6)	Get YY portion
001344	5850	9288		00288		2855	L R5,FW	Load FW to R5
001348	5950	B69C		0169C		2856	C R5,Y2KWIN	Before Y2k Window?
00134C	4740	B358		01358		2857	BL DATECY2	YES, assume CC 20
				01350	2858	DATECY1	EQU *	
001350	4155	076C		0076C		2859	LA R5,1900(R5)	NO, assume CC 19
001354	47F0	B35C		0135C		2860	B DATECCNT	Continue...
				01358	2861	DATECY2	EQU *	
001358	4155	07D0		007D0		2862	LA R5,2000(R5)	CC 20...
				0135C	2863	DATECCNT	EQU *	
					2864	*	/* -----	*/
					2865	*	/* CCYY, JJJ	*/
					2866	*	/* -----	*/
00135C	4E50	9280		00280		2867	CVD R5,DW	R5 to decimal
001360	F342	9275	9285	00275	00285	2868	UNPK DC#CCYY,DW+5(3)	Unpack 0CCYY and
001366	96F0	9279		00279		2869	OI DC#CCYY+4,X'F0'	... force and F zone
00136A	D703	9288	9288	00288	00288	2870	XC FW,FW	Clear contents
001370	D201	928A	6001	0028A	00001	2871	MVC FW+2(2),1(R6)	Get 0JJJ portion
001376	5850	9288		00288		2872	L R5,FW	... and convert
00137A	4E50	9280		00280		2873	CVD R5,DW	... to decimal
00137E	F321	926C	9286	0026C	00286	2874	UNPK DC#JJJ,DW+6(2)	Unpack JJJ and
001384	96F0	926E		0026E		2875	OI DC#JJJ+2,X'F0'	... force and F zone
					2876	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19	
				01388	2878	DATELEAP	EQU *		
001388	4130	0000	00000		2879	LA	R3,0	Leap Count (0 or 1)	
00138C	4050	926A	0026A		2880	STH	R5,DC#HJJJ	R5 contains JJJ	
001390	4950	B636	01636		2881	CH	R5,=H'59'	R5 = JJJ, > 2/28?	
001394	47D0	B3C2	013C2		2882	BNH	NOLEAP	NO, not leap year eligible	
					2883	*		YES, check for leap year	
001398	F234	9265	9275	00265	00275	2884	PACK	DC#YR,DC#CCYY	Pack CCYY
00139E	FD31	9265	B638	00265	01638	2885	DP	DC#YR,=P'100'	CCYY / 100
0013A4	F910	9267	B66C	00267	0166C	2886	CP	DC#YR+2(2),=P'0'	Remainder 0?
0013AA	4720	B3C2	013C2		2887	BH	NOLEAP	NO, not leap year	
0013AE	FD31	9265	B63A	00265	0163A	2888	DP	DC#YR,=P'400'	YES, check CCYY / 400
0013B4	F910	9267	B66C	00267	0166C	2889	CP	DC#YR+2(2),=P'0'	Remainder 0?
0013BA	4720	B3C2	013C2		2890	BH	NOLEAP	NO, not leap year	
				013BE	2891	YESLEAP	EQU *	YES, leap year	
0013BE	4130	0001	00001		2892	LA	R3,1		
				013C2	2893	NOLEAP	EQU *		
0013C2	4150	000C	0000C		2894	LA	R5,12	Number of Months, 12!	
0013C6	4160	B684	01684		2895	LA	R6,DAYSTBLJ	Addr of Julian Days Table,	
				013CA	2896	CHKME	EQU *		
0013CA	4886	0000	00000		2897	LH	R8,0(R6)	Load R8 with month julian start days	
0013CE	4950	B63C	0163C		2898	CH	R5,=H'2'	JAN or FEB?	
0013D2	4780	B3DC	013DC		2899	BE	NOADD	YES,	
0013D6	4740	B3DC	013DC		2900	BL	NOADD	YES,	
0013DA	1A83				2901	AR	R8,R3	NO, Account for leap year	
				013DC	2902	NOADD	EQU *		
0013DC	4980	926A	0026A		2903	CH	R8,DC#HJJJ	Found MONTH based on number of days?	
					2904	***	BE	DONELOOP	YES, done. 334 350 334 334
0013E0	4740	B3EC	013EC		2905	BL	DONELOOP	YES, done.	
0013E4	4166	0002	00002		2906	LA	R6,2(R6)	NO, bump up to next month	
0013E8	4650	B3CA	013CA		2907	BCT	R5,CHKME	Look again.	
				013EC	2909	DONELOOP	EQU *		
					2910	*	*/	*/	
					2911	*	*/	*/	
					2912	*	*/	*/	
					2913	*	R5 month		
0013EC	4E50	9280	00280		2914	CVD	R5,DW	R5 to decimal	
0013F0	F321	926F	9286	0026F	00286	2915	UNPK	DC#MM,DW+6(2)	Unpack 0MM and
0013F6	96F0	9271	00271		2916	OI	DC#MM+2,X'F0'	... force and F zone	
0013FA	4850	926A	0026A		2917	LH	R5,DC#HJJJ	Load R5 with JJJ	
0013FE	1B58				2918	SR	R5,R8	JJJ - Julian Days in Month	
001400	4E50	9280	00280		2919	CVD	R5,DW	R5 to decimal	
001404	F321	9272	9286	00272	00286	2920	UNPK	DC#DD,DW+6(2)	Unpack 0DD and
00140A	96F0	9274	00274		2921	OI	DC#DD+2,X'F0'	... force and F zone	
					2922	*			
00140E	07F7				2923	BR	R7	Return to caller	
					2924	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
					2926 *	*/*****	
					2927 *	/* Subroutine - Store Symbolic Variable (R5) */	
					2928 *	/* -JMSG'RC=xxx IKJCT441 error w zzzzzzzzzzzzzzzzzzzzz' */	
					2929 *	*/*****	
001410	4110	9048	00048	01410	2930 SETVAR	EQU *	
					2931	LA R1,CT441LST R1 = Parm List	
					2932 *	PRINT GEN	
					2933	LINK EP=IKJCT441,ERRET=ERR4098 Link	
00142E	50F0	927C	0027C		2942 *	PRINT NOGEN	
					2943	ST R15,SAVER15 SAVE R15	
001432	12FF				2944 *	DISPLAY DATA=((R15),R,)	
001434	4780	B472	01472		2945	LTR R15,R15 R15=0?	
					2946	BZ SETVARXT YES.	
					2947 *	NO.	
001438	D229	909C	BE67	0009C	2948	MVC DJMSG(L'MSGJ027),MSGJ027 Move to &SYSLISTDSJMSG	
00143E	4EF0	9280		00280	2949	CVD R15,DW Convert to decmial	
001442	F321	909F	9286	0009F	2950	UNPK DJMSG+3(3),DW+6(2) Unpack and	
001448	96F0	90A1		000A1	2951	OI DJMSG+5,X'F0' ... force and F zone	
00144C	5800	9060		00060	2952	L R0,NAMP1	
001450	5810	9064		00064	2953	L R1,NAML1 18	
001454	5910	B5E8		015E8	2954	C R1,=F'18'	
001458	4720	B460		01460	2955	BH MVCMAX	
00145C	47F0	B464		01464	2956	B MVCOK	
				01460	2957 MVCMAX	EQU *	
001460	4110	0012	00012		2958	LA R1,18	
				01464	2959 MVCOK	EQU *	
001464	4410	B46C		0146C	2960	EX R1,MVCSYS	
001468	47F0	B472		01472	2961	B SETVARXT	
00146C	D200	90B4	0000	000B4	2962	MVCSYS MVC DJMSG+24(00),0(R0)	
					2963 *		
				01472	2964 SETVARXT	EQU *	
001472	07F5				2965	BR R5 Return to caller	
					2966 *		
					2967 *	*/*****	
					2968 *	/* Return codes for IKJCT441 */	
					2969 *	/*	
					2970 *	/* 0 - SUCCESS */	
					2971 *	/* 4 - VARIABLE RETURNED SHOULDN'T BE RE-SCANNED */	
					2972 *	/* 8 - VARIABLE RETURNED REQUIRES EVALUATION */	
					2973 *	/* 12 - VARIABLE RETURNED IS A LABEL (CANNOT UPDATE) */	
					2974 *	/* 16 - SYSTEM VARIABLE - CAN'T BE UPDATED BY THE USER */	
					2975 *	/* 20 - FOR LOCATE - NO MORE VARIABLES TO RETURN */	
					2976 *	/* 32 - GETMAIN/FREEMAIN FAILURE */	
					2977 *	/* 36 - NAME LENGTH < 1 OR > 252 */	
					2978 *	/* -OR- VALUE LENGTH < 0 OR > 32767 */	
					2979 *	/* 40 - INCORRECT ENVIRONMENT - */	
					2980 *	/* PLIST ERROR OR NO CLIST ACTIVE */	
					2981 *	/* 44 - INVALID ENTRY CODE */	
					2982 *	/* 52 - UNDEFINED VARIABLE */	
					2983 *	/*	
					2984 *	*/*****	
					2985 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
001478				2987	LTORG	
001478	4040404040404040			2988	=256X'40'	
001578	D3D6C3C1E3C54040			2989	=C'LOCATE '	
001580	F0F0F0F061F0F0F0			2990	=C'0000/000'	
001588	FFFFFFFFFFFFFFFF			2991	=8X'FF'	
001590	E2E8E2C1D3D3C4C1			2992	=CL8'SYSALLDA'	
001598	00000000			2993	=F'0'	
00159C	00000000			2994	=F'00'	
0015A0	00000010			2995	=F'16'	
0015A4	00000001			2996	=F'1'	
0015A8	D5D6D5C5			2997	=C'NONE'	
0015AC	D9C1C3C6			2998	=C'RACF'	
0015B0	0000FFFF			2999	=X'0000FFFF'	
0015B4	00000004			3000	=F'04'	
0015B8	0000001F			3001	=F'31'	
0015BC	00000004			3002	=F'4'	
0015C0	00000008			3003	=F'8'	
0015C4	0000000C			3004	=F'12'	
0015C8	00000FA4			3005	=F'4004'	
0015CC	00000FA5			3006	=F'4005'	
0015D0	00000FA8			3007	=F'4008'	
0015D4	00000FA9			3008	=F'4009'	
0015D8	00000FAA			3009	=F'4010'	
0015DC	00001001			3010	=F'4097'	
0015E0	00001002			3011	=F'4098'	
0015E4	00001003			3012	=F'4099'	
0015E8	00000012			3013	=F'18'	
0015EC	F0F0			3014	=C'00'	
0015EE	0004			3015	=H'4'	
0015F0	F9F9			3016	=C'99'	
0015F2	F0F5			3017	=C'05'	
0015F4	F1F6			3018	=C'16'	
0015F6	0001			3019	=X'0001'	
0015F8	0000			3020	=X'0000'	
0015FA	F1F9			3021	=C'19'	
0015FC	F2F6			3022	=C'26'	
0015FE	F0F6			3023	=C'06'	
001600	0000			3024	=H'0'	
001602	C4E2D6D9C740E3A8			3025	=C'DSORG Type'	
00160C	F0F061F0F061F0F0			3026	=C'00/00/0000'	
001616	C485A5898385E3A8			3027	=C'DeviceType'	
001620	D7D6			3028	=C'P0'	
001622	F0F2			3029	=C'02'	
001624	F0F4			3030	=C'04'	
001626	F1F3			3031	=C'13'	
001628	9000			3032	=X'9000'	
00162A	F2F1			3033	=C'21'	
00162C	F2F2			3034	=C'22'	
00162E	F2F4			3035	=C'24'	
001630	F2F3			3036	=C'23'	
001632	F2F9			3037	=C'29'	
001634	6F6F			3038	=C'??'	
001636	003B			3039	=H'59'	
001638	100C			3040	=P'100'	
00163A	400C			3041	=P'400'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
00163C	0002			3042	=H'2'	
00163E	F0F0F1			3043	=C'001'	
001641	F1			3044	=C'1'	
001642	F2			3045	=C'2'	
001643	F3			3046	=C'3'	
001644	F4			3047	=C'4'	
001645	C3E8D3			3048	=C'CYL'	
001648	E3D9D2			3049	=C'TRK'	
00164B	C1C2E2			3050	=C'ABS'	
00164E	C2D3D2			3051	=C'BLK'	
001651	D5D6D5C540			3052	=C'NONE '	
001656	E6D9C9E3C5			3053	=C'WRITE'	
00165B	D96DE64040			3054	=C'R_W '	
001660	F0F0F0F0F0			3055	=C'00000'	
001665	000000			3056	=X'000000'	
001668	0C			3057	=P'+0'	
001669	3C			3058	=P'+3'	
00166A	4C			3059	=P'+4'	
00166B	1C			3060	=P'+1'	
00166C	0C			3061	=P'0'	
				3062	*	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3064 *	/* *****/	
				3065 *	/* Parm Input Keywords */	
				3066 *	/* *****/	
00166D	C4C9D9			3067	KWDIR DC C'DIR' Keyword DIR	
001670	D7D5D3			3068	KWPNL DC C'PNL' Keyword PNL	
001673	C1C2D6E4E3			3069	KWABOUT DC C'ABOUT' Keyword ABOUT	
001678	E5D6D34D			3070	KWVOL DC C'VOL(' Keyword VOL	
				3071 *	/* *****/	
				3072 *	/* *****/	
				3073 *	/* Entry codes for IKJCT441 */	
				3074 *	/* *****/	
00167C	00000002			3075	ECUPDT DC A(TSVEUPDT) ENTRY CODE FOR UPDATE/CREATE	
001680	00000000			3076	TOKEN DC F'0' TOKEN	
				3077 *	/* *****/	
				3078 *	/* *****/	
				3079 *	/* Julian start day by month in reverse order */	
				3080 *	/* *****/	
001684	014E0130011100F3			3081	DAYSTBLJ DC H'334',H'304',H'273',H'243',H'212',H'181' Dec-Jul	
001690	00970078005A003B			3082	DC H'151',H'120',H'090',H'059',H'031',H'000' Jun-Jan	
00169C	00000046			3083	Y2KWIN DC F'70' Y2k Window value	
				3084 *	/* *****/	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				3086	*	*/*****/	
				3087	*	/* Symbolic Variable Names for CLIST use */	
				3088	*	*/*****/	
		016A0		3089	V#@	EQU *	
0016A0	E2E8E2C4E2D5C1D4			3090	VDSN	DC C'SYSDSNAME'	
0016A9	E2E8E2D9C5C1E2D6			3091	VRSCODE	DC C'SYSREASON'	
0016B2	E2E8E2D4E2C7D3E5			3092	VMSGL1	DC C'SYSMSGLVL1'	
0016BC	E2E8E2D4E2C7D3E5			3093	VMSGL2	DC C'SYSMSGLVL2'	
0016C6	E2E8E2E5D6D3E4D4			3094	VVOL	DC C'SYSVOLUME'	
0016CF	E2E8E2D3D9C5C3D3			3095	VLRECL	DC C'SYSLRECL'	
0016D7	E2E8E2C2D3D2E2C9			3096	VLKSZ	DC C'SYSBLKSIZE'	
0016E1	E2E8E2D2C5E8D3C5			3097	VKEYL	DC C'SYSKEYLEN'	
0016EA	E2E8E2D2C5E8D7D6			3098	VKEYP	DC C'SYSKEYPOS'	
0016F3	E2E8E2C4E2D6D9C7			3099	VDSORG	DC C'SYSDSORG'	
0016FB	E2E8E2D9C5C3C6D4			3100	VRECFM	DC C'SYSRECFM'	
001703	E2E8E2C3D9C5C1E3			3101	VCREDIT	DC C'SYSCREATE'	
00170C	E2E8E2C5E7C4C1E3			3102	VEXPDT	DC C'SYSEXDATE'	
001715	E2E8E2D9C5C6C4C1			3103	VREFDT	DC C'SYSREFDATE'	
00171F	E2E8E2D1C3D9C5C1			3104	VCREDITJ	DC C'SYSJCREATE'	
001729	E2E8E2D1C5E7C4C1			3105	VEXPDTJ	DC C'SYSJEXDATE'	
001733	E2E8E2D1D9C5C6C4			3106	VREFDTJ	DC C'SYSJREFDATE'	
00173E	E2E8E2C3C3D9C5C1			3107	VCREDITC	DC C'SYSCCREATE'	
001748	E2E8E2C3C5E7C4C1			3108	VEXPDTC	DC C'SYSCEXDATE'	
001752	E2E8E2C3D9C5C6C4			3109	VREFDTC	DC C'SYSCREFDATE'	
00175D	E2E8E2D7C1E2E2E6			3110	VPASSWD	DC C'SYSPASSWORD'	
001768	E2E8E2D9C1C3C6C1			3111	VRACF	DC C'SYSRACFA'	
001770	E2E8E2E4D5C9E3E2			3112	VSSPC	DC C'SYSUNITS'	
001778	E2E8E2E2C5C3D6D5			3113	VSSPCNM	DC C'SYSSECONDS'	
001782	E2E8E2E4D5C9E3			3114	VUNIT	DC C'SYSUNIT'	
001789	E2E8E2C5E7E3C5D5			3115	VEXTS	DC C'SYSEXTENTS'	
001793	E2E8E2D5E4D4E5D6			3116	VNUMVOL	DC C'SYSNUMVOLS'	
00179D	E2E8E2C3E8D3E5D6			3117	VCCVOL	DC C'SYSCYLVOL'	
0017A6	E2E8E2E3D9D2E2C3			3118	VTTCC	DC C'SYSTRKSCYL'	
0017B0	E2E8E2E3D9D2D3C5			3119	VTRKLEN	DC C'SYSTRKLEN'	
0017B9	E2E8E2C2D3D2E2E3			3120	VLKTRK	DC C'SYSBLKSTRK'	
0017C3	E2E8E2E4D5C9E3C3			3121	VUNITCAP	DC C'SYSUNITCAP'	
0017CD	E2E8E2E3D9D2E2C1			3122	VTKAL	DC C'SYSTRKSALLOC'	
0017D9	E2E8E2E3D9D2E2E4			3123	VTKUS	DC C'SYSTRKSUSED'	
0017E4	E2E8E2E3D9D2E2E4			3124	VTKUUS	DC C'SYSTRKSUNUSED'	
0017F1	E2E8E2D3C9E2E3C4			3125	VJMSG	DC C'SYSLISTDSJMSG'	
0017FE	E2E8E2D4C5D4C2C5			3126	VMEMS	DC C'SYSMEMBERS'	
001808	E2E8E2D4C5D4C2C5			3127	VALIAS	DC C'SYSMEMBERSALIAS'	
001817	E2E8E2E4C4C9D9C2			3128	VDIRBKSU	DC C'SYSUDIRBLK'	
001821	E2E8E2D5E4C4C9D9			3129	VDIRBKSN	DC C'SYSNUDIRBLK'	
00182C	E2E8E2C1C4C9D9C2			3130	VDIRBKSA	DC C'SYSADIRBLK'	
001836	E2E8E2C4E2C3C1E3			3131	VDSCAT	DC C'SYSDSCAT'	
00183E	E2E8E2C4E2C3C1E3			3132	VDSCATV	DC C'SYSDSCATV'	
001847	E2E8E2D7D9C9D4C1			3133	VPSPCAL	DC C'SYSPRIMARY'	
001851	E2E8E2E4E2C5C4			3134	VPSPCUS	DC C'SYSUSED'	
001858	E2E8E2E5D6D3E4D4			3135	VVOLLST	DC C'SYSVOLUMES'	
		001C2		3136	V#@LEN	EQU *-V#@	Length of area
				3137	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3139 *	*/*****/	
				3140 *	/* Internal table of symbolic variables and data values */	
				3141 *	*/*****/	
001864				3142 S#@	DS 0F	
				3143 *	/*	
				3144 *	/*	
001864	000016A0000000009			3145 A#DSN	DC A(VDSN),A(L'VDSN)	00 SYSDSNAME
00186C	9070000000000002C			3146	DC S(DDSN),A(L'DDSN)	
		00010		3147 S#@ENTL	EQU *-S#@	
001874	000017F100000000D			3148 A#JMSG	DC A(VJMSG),A(L'VJMSG)	01 SYSLISTDSJMSG
00187C	909C0000000000064			3149	DC S(DJMSG),A(L'DJMSG)	
001884	000016A9000000009			3150 A#RSC	DC A(VRSCODE),A(L'VRSCODE)	02 SYSREASON
00188C	91000000000000002			3151	DC S(DRSNCODE),A(L'DRSNCODE)	
001894	000016B200000000A			3152 A#MSG1	DC A(VMSG1),A(L'VMSG1)	03 SYSMSGLVL1
00189C	91020000000000028			3153	DC S(DMSG1),A(L'DMSG1)	
0018A4	000016BC00000000A			3154 A#MSG2	DC A(VMSG2),A(L'VMSG2)	04 SYSMSGLVL2
0018AC	912A0000000000028			3155	DC S(DMSG2),A(L'DMSG2)	
0018B4	00001703000000009			3156 A#CREDIT	DC A(VCREDIT),A(L'VCREDIT)	05 SYSCREATE
0018BC	916A0000000000008			3157	DC S(DCREDIT),A(L'DCREDIT)	
0018C4	0000170C000000009			3158 A#EXPDT	DC A(VEXPDT),A(L'VEXPDT)	06 SYSEXDATE
0018CC	91810000000000008			3159	DC S(DEXPDT),A(L'DEXPDT)	
0018D4	0000171500000000A			3160 A#REFDT	DC A(VREFDT),A(L'VREFDT)	07 SYSREFDATE
0018DC	91980000000000008			3161	DC S(DREFDT),A(L'DREFDT)	
0018E4	000016F3000000008			3162 A#DSORG	DC A(VDSORG),A(L'VDSORG)	08 SYSDSORG
0018EC	91620000000000003			3163	DC S(DDSORG),A(L'DDSORG)	
0018F4	000016FB000000008			3164 A#RECFM	DC A(VRECFM),A(L'VRECFM)	09 SYSRECFM
0018FC	91650000000000005			3165	DC S(DRECFM),A(L'DRECFM)	
001904	000016CF000000008			3166 A#LRECL	DC A(VLRECL),A(L'VLRECL)	10 SYSLRECL
00190C	91580000000000005			3167	DC S(DLRECL),A(L'DLRECL)	
001914	000016D700000000A			3168 A#BLKSZ	DC A(VBLKSZ),A(L'VBLKSZ)	11 SYSBLKSIZE
00191C	915D0000000000005			3169	DC S(DBLKSZ),A(L'DBLKSZ)	
001924	000016E1000000009			3170 A#KEYL	DC A(VKEYL),A(L'VKEYL)	12 SYSKEYLEN
00192C	91AF0000000000003			3171	DC S(DKEYL),A(L'DKEYL)	
001934	000016EA000000009			3172 A#KEYP	DC A(VKEYP),A(L'VKEYP)	13 SYSKEYPOS
00193C	91B20000000000005			3173	DC S(DRKP),A(L'DRKP)	
001944	0000175D00000000B			3174 A#PASSWD	DC A(VPASSWD),A(L'VPASSWD)	14 SYSPASSWORD
00194C	91B70000000000005			3175	DC S(DPASSWD),A(L'DPASSWD)	
001954	00001768000000008			3176 A#RACF	DC A(VRACF),A(L'VRACF)	15 SYSRACF
00195C	91BC0000000000004			3177	DC S(DRACF),A(L'DRACF)	
001964	0000182C00000000A			3178 A#DBKSA	DC A(VDIRBKSA),A(L'VDIRBKSA)	16 SYSADIRBLK
00196C	92180000000000005			3179	DC S(DDBLKS),A(L'DDBLKS)	
001974	0000181700000000A			3180 A#DBKSU	DC A(VDIRBKSU),A(L'VDIRBKSU)	17 SYSUDIRBLK
00197C	921D0000000000005			3181	DC S(DDIRBKSU),A(L'DDIRBKSU)	
001984	0000182100000000B			3182 A#DBKSN	DC A(VDIRBKSN),A(L'VDIRBKSN)	18 SYSNUDIRBLK
00198C	92220000000000005			3183	DC S(DDIRBKSN),A(L'DDIRBKSN)	
001994	000017FE00000000A			3184 A#MEMS	DC A(VMEMS),A(L'VMEMS)	19 SYSMEMBERS
00199C	92270000000000005			3185	DC S(DMEMBERS),A(L'DMEMBERS)	
0019A4	0000180800000000F			3186 A#ALIAS	DC A(VALIAS),A(L'VALIAS)	20 SYSMEMBERSALIAS
0019AC	922C0000000000005			3187	DC S(DALIASES),A(L'DALIASES)	
0019B4	000016C6000000009			3188 A#VOL	DC A(VVOL),A(L'VVOL)	21 SYSVOLUME
0019BC	91520000000000006			3189	DC S(DVOLSER),A(L'DVOLSER)	
0019C4	00001782000000007			3190 A#UNIT	DC A(VUNIT),A(L'VUNIT)	22 SYSUNIT
0019CC	91D90000000000007			3191	DC S(DUNIT),A(L'DUNIT)	
0019D4	00001770000000008			3192 A#UNITS	DC A(VSSPC),A(L'VSSPC)	23 SYSUNITS
0019DC	91CF0000000000003			3193	DC S(DSSPC),A(L'DSSPC)	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
0019E4	000017D900000000B			3194	A#VTKUS	DC A(VTKUS),A(L'VTKUS)	24 SYSTRKSUSED
0019EC	91EB0000000000005			3195		DC S(DTRKSUS),A(L'DTRKSUS)	
0019F4	0000178900000000A			3196	A#EXTS	DC A(VEXTS),A(L'VEXTS)	25 SYSEXTENTS
0019FC	91E00000000000003			3197		DC S(DEXTS),A(L'DEXTS)	
001A04	000017CD00000000C			3198	A#VTKAL	DC A(VTKAL),A(L'VTKAL)	26 SYSTRKSALLOC
001A0C	91E60000000000005			3199		DC S(DTRKSAL),A(L'DTRKSAL)	
001A14	0000177800000000A			3200	A#SCONDS	DC A(VSSPCNM),A(L'VSSPCNM)	27 SYSSECONDS
001A1C	91D20000000000007			3201		DC S(DSSPCNM),A(L'DSSPCNM)	
001A24	000017E400000000D			3202	A#TKUUS	DC A(VTKUUS),A(L'VTKUUS)	28 SYSTRKSUNUSED
001A2C	91F00000000000005			3203		DC S(DTRKSUUS),A(L'DTRKSUUS)	
001A34	0000179D000000009			3204	A#VCCVOL	DC A(VCCVOL),A(L'VCCVOL)	29 SYSCYLVOL
001A3C	92040000000000005			3205		DC S(DCYL4VOL),A(L'DCYL4VOL)	
001A44	000017A600000000A			3206	A#VTTCC	DC A(VTTCC),A(L'VTTCC)	30 SYSTRKSCYL
001A4C	91F50000000000005			3207		DC S(DTRKSCYL),A(L'DTRKSCYL)	
001A54	0000171F00000000A			3208	A#CREDTJ	DC A(VCREDTJ),A(L'VCREDTJ)	31 SYSJCREATE
001A5C	91720000000000005			3209		DC S(DCREDJ),A(L'DCREDJ)	
001A64	0000172900000000A			3210	A#EXPDTJ	DC A(VEXPDTJ),A(L'VEXPDTJ)	32 SYSJEXDATE
001A6C	91890000000000005			3211		DC S(DEXPDJ),A(L'DEXPDJ)	
001A74	0000173300000000B			3212	A#REFDTJ	DC A(VREFDTJ),A(L'VREFDTJ)	33 SYSJREFDATE
001A7C	91A00000000000005			3213		DC S(DREFDJ),A(L'DREFDJ)	
001A84	000017B0000000009			3214	A#VTRKLN	DC A(VTRKLEN),A(L'VTRKLEN)	34 SYSTRKLEN
001A8C	91FA0000000000005			3215		DC S(DTRKLEN),A(L'DTRKLEN)	
001A94	000017C300000000A			3216	A#VUCAP	DC A(VUNITCAP),A(L'VUNITCAP)	35 SYSUNITCAP
001A9C	9209000000000000F			3217		DC S(DUNITCAP),A(L'DUNITCAP)	
001AA4	000017B900000000A			3218	A#VBLKTK	DC A(VBLKTRK),A(L'VBLKTRK)	36 SYSBLKSTRK
001AAC	91FF0000000000005			3219		DC S(DBLKTRK),A(L'DBLKTRK)	
001AB4	0000173E00000000A			3220	A#CREDTC	DC A(VCREDTC),A(L'VCREDTC)	37 SYSCCREATE
001ABC	9177000000000000A			3221		DC S(DCREDC),A(L'DCREDC)	
001AC4	0000174800000000A			3222	A#EXPDTC	DC A(VEXPDTC),A(L'VEXPDTC)	38 SYSCEXDATE
001ACC	918E000000000000A			3223		DC S(DEXPDC),A(L'DEXPDC)	
001AD4	0000175200000000B			3224	A#REFDTC	DC A(VREFDTC),A(L'VREFDTC)	39 SYSCREFDATE
001ADC	91A5000000000000A			3225		DC S(DREFDC),A(L'DREFDC)	
001AE4	0000179300000000A			3226	A#NUMVOL	DC A(VNUMVOL),A(L'VNUMVOL)	40 SYSNUMVOLS
001AEC	91E30000000000003			3227		DC S(DNUMVOL),A(L'DNUMVOL)	
001AF4	00001836000000008			3228	A#DSCAT	DC A(VDSCAT),A(L'VDSCAT)	41 SYSDSCAT
001AFC	92310000000000001			3229		DC S(DDSCAT),A(L'DDSCAT)	
001B04	0000183E000000009			3230	A#DSCATV	DC A(VDSCATV),A(L'VDSCATV)	42 SYSDSCATV
001B0C	92320000000000006			3231		DC S(DDSCATV),A(L'DDSCATV)	
001B14	0000184700000000A			3232	A#PSPCAL	DC A(VPSPCAL),A(L'VPSPCAL)	43 SYSPRIMARY
001B1C	92380000000000005			3233		DC S(DPSPCAL),A(L'DPSPCAL)	
001B24	00001851000000007			3234	A#PSPCUS	DC A(VPSPCUS),A(L'VPSPCUS)	44 SYSUSED
001B2C	923D0000000000005			3235		DC S(DPSPCUS),A(L'DPSPCUS)	
001B34	0000185800000000A			3236	A#DVOLS	DC A(VVOLLST),A(L'VVOLLST)	45 SYSVOLUMES
001B3C	92420000000000023			3237		DC S(DVOLLST),A(L'DVOLLST)	
		002E0		3238	S#@LEN	EQU *-S#@	Length of area
		0002E		3239	S#@NUM	EQU S#@LEN/S#@ENTL	Number of entries
				3240	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3242 *	*/*****	
				3243 *	/* Reason Code Messages */	
				3244 *	*/*****	
		01B44		3245 RSTBL	EQU *	
		01B44		3246 RSTBLBEG	EQU *	
001B44	F0F00011			3247	DC C'00',AL2(L'RSMSG00)	'Reason Code=00
001B48	D596999481934083			3248 RSMSG00	DC C'Normal completion'	
001B59	F0F20018			3249	DC C'02',AL2(L'RSMSG02)	'Reason Code=02
001B5D	C4A8958194898340			3250 RSMSG02	DC C'Dynamic allocation error'	
001B75	F0F50016			3251	DC C'05',AL2(L'RSMSG05)	'Reason Code=05
001B79	C481A381A285A340			3252 RSMSG05	DC C'Dataset not catalogued'	
001B8F	F0F60013			3253	DC C'06',AL2(L'RSMSG06)	'Reason Code=06
001B93	C599999699409682			3254 RSMSG06	DC C'Error obtaining DSN'	
001BA6	F1F3001F			3255	DC C'13',AL2(L'RSMSG13)	'Reason Code=13
001BAA	C481A381A285A340			3256 RSMSG13	DC C'Dataset could not open or close'	
001BC9	F1F90023			3257	DC C'19',AL2(L'RSMSG19)	'Reason Code=19
001BCD	C481A381A285A340			3258 RSMSG19	DC C'Dataset resides on multiple volumes'	
001BF0	F2F10022			3259	DC C'21',AL2(L'RSMSG21)	'Reason Code=21
001BF4	C381A38193968740			3260 RSMSG21	DC C'Catalog error trying to locate DSN'	
001C16	F2F20012			3261	DC C'22',AL2(L'RSMSG22)	'Reason Code=22
001C1A	E59693A494854095			3262 RSMSG22	DC C'Volume not mounted'	
001C2C	F2F3001D			3263	DC C'23',AL2(L'RSMSG23)	'Reason Code=23
001C30	D785999481958595			3264 RSMSG23	DC C'Permanent I/O error on volume'	
001C4D	F2F40016			3265	DC C'24',AL2(L'RSMSG24)	'Reason Code=24
001C51	C481A381A285A340			3266 RSMSG24	DC C'Dataset name not found'	
001C67	F2F6001E			3267	DC C'26',AL2(L'RSMSG26)	'Reason Code=26
001C6B	C481A381A285A340			3268 RSMSG26	DC C'Dataset on Mass Storage device'	
001C89	F2F90018			3269	DC C'29',AL2(L'RSMSG29)	'Reason Code=29
001C8D	C481A381A285A340			3270 RSMSG29	DC C'Dataset name is required'	
001CA5	F9F90024			3271	DC C'99',AL2(L'RSMSG99)	'Reason Code=99
001CA9	C1C2D6E4E3409985			3272 RSMSG99	DC C'ABOUT request, no DSN info retrieved'	
		00189		3273 RSTBLLEN	EQU *-RSTBLBEG	
				3274 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				3276	*	*/*****	
				3277	*	/* Return Code Messages	
				3278	*	*/*****	
		01CCD		3279	RCTBL	EQU *	
		01CCD		3280	RCTBLBEG	EQU *	
001CCD	F0F00012			3281		DC C'00',AL2(L'RCMSG00)	'Return Code=00
001CD1	E2A4838385A2A286			3282	RCMSG00	DC C'Successful request'	
001CE3	F0F40027			3283		DC C'04',AL2(L'RCMSG04)	'Return Code=04
001CE7	E2969485408481A3			3284	RCMSG04	DC C'Some dataset information is unavailable'	
001D0E	F1F60024			3285		DC C'16',AL2(L'RCMSG16)	'Return Code=16
001D12	C599999699409683			3286	RCMSG16	DC C'Error occured, variable data invalid'	
		00069		3287	RCTBLLEN	EQU *-RCTBLBEG	
				3288	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3329 *	/* *****	
				3330 *	/* Initialized DAPB08 Allocate Block	
				3331 *	/* *****	
001ED0				3332 INPB08	DS 0D	Initialized DAPB08 Block
001ED0	0008			3333 IN08CD	DC X'0008'	DAIR ENTRY CODE
001ED2	00			3334 IN08FLG	DC X'00'	FUNCTIONS TO BE PERFORMED WHEN RC=0
001ED3	00			3335	DC X'00'	
001ED4	0000			3336 IN08DARC	DC H'0'	DYN ALLOC RETURN CODE
001ED6	0000			3337 IN08CTRC	DC H'0'	CATALOG RETURN CODE
001ED8	00000000			3338 IN08PDSN	DC A(0)	POINTER TO DSNAME TO BE SEARCHED IN DSE
001EDC	4040404040404040			3339 IN08DDN	DC CL8' '	DDNAME TO BE SEARCHED IN DSE
001EE4	4040404040404040			3340 IN08UNIT	DC CL8' '	UNITNAME REQUESTED
001EEC	4040404040404040			3341 IN08SER	DC CL8' '	VOLUME SERIAL NUMBER-PADDED W/BLANKS
001EF4	00000000			3342 IN08BLK	DC X'00000000'	DATA SET AVERAGE RECORD LENGTH
001EF8	00000000			3343 IN08PQTY	DC X'00000000'	PRIMARY SPACE QUANTITY
001EFC	00000000			3344 IN08SQTY	DC X'00000000'	SECONDARY SPACE QUANTITY
001F00	00000000			3345 IN08DQTY	DC X'00000000'	DIRECTORY BLOCK QUANTITY
001F04	4040404040404040			3346 IN08MNM	DC CL8' '	MEMBER NAME
001F0C	4040404040404040			3347 IN08PSWD	DC CL8' '	PASSWORD
001F14	00			3348 IN08DSP1	DC X'00'	DATA SET STATUS FLGS(IF=0 OLD ASSUMED)
001F15	00			3349 IN08DPS2	DC X'00'	DATA SET DISPOSITION(IF=0 KEEP ASSUMED)
001F16	00			3350 IN08DPS3	DC X'00'	DATA SET CONDITIONAL DISPOSITION
001F17	00			3351 IN08CTL	DC X'00'	FLAGS TO CONTROL ACTIONS TAKEN BY DAIR
001F18	000000			3352	DC X'000000'	RESERVED
001F1B	00			3353 IN08DSO	DC X'00'	DSORG
001F1C	4040404040404040			3354 IN08ALN	DC CL8' '	ATTR-LIST-NAME
		00054		3355 INPB08L	EQU *-INPB08	Length of Initialized DAPB08 Block
				3356 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3358 *	*/*****	
				3359 *	/* Initialized DAPB18 Free Block */	
				3360 *	*/*****	
001F28				3361 INPB18 DS	0D	Initialized DAPB18 Block
001F28 0018				3362 IN18CD DC	X'0018'	DAIR ENTRY CODE
001F2A 00				3363 IN18FLG DC	X'00'	FUNCTIONS TO BE PERFORMED WHEN RC=0
001F2B 00				3364	DC	X'00'
001F2C 0000				3365 IN18DARC DC	H'0'	DYNAMIC ALLOCATION RETURN CODE
001F2E 0000				3366 IN18CTRC DC	H'0'	CATALOG RETURN CODE AREA
001F30 00000000				3367 IN18PDSN DC	A(0)	POINTER TO DSNAME TO BE SEARCHED IN DSE
001F34 4040404040404040				3368 IN18DDN DC	CL8' '	DDNAME TO BE SEARCHED IN DSE
001F3C 4040404040404040				3369 IN18MNM DC	CL8' '	MEMBER NAME
001F44 4040				3370 IN18SCLS DC	CL2' '	SYSOUT CLASS DESIRED WHEN UNALLOCATING A
				3371 *		SYSOUT DATA SET
001F46 00				3372 IN18DPS2 DC	X'00'	DATA SET DISPOSITION
001F47 00				3373 IN18CTL DC	X'00'	FLAGS FOR SPECIAL DAIR PROCESSING
001F48 4040404040404040				3374 IN18JBNM DC	CL8' '	IGNORED AS OF OS VS/2 RELEASE 2
		00028		3375 INPB18L EQU	*-INPB18	Length of Initialized DAPB18 Block
				3376 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3378 *	*/*****	
				3379 *	/* PDS Directory DCB and READ as model */	
				3380 *	*/*****	
				3381	PRINT GEN	
				3382 DIRDCB	DCB DDNAME=DYNAM,DSORG=PO,MACRF=R,EODAD=PODEOF,SYNAD=PODSYN,X RECFM=U,BLKSIZE=256	
				3384+*	DATA CONTROL BLOCK	22770000
				3385+*		22860000
001F50				3386+DIRDCB	DC 0F'0' ORIGIN ON WORD BOUNDARY	22914000
				3388+*	DIRECT ACCESS DEVICE INTERFACE	27360000
001F50	0000000000000000			3390+	DC BL16'0' FDAD,DVTBL	27540000
001F60	00000000			3391+	DC A(0) KEYLE,DEVT,TRBAL	27720000
				3393+*	COMMON ACCESS METHOD INTERFACE	48690000
001F64	00			3395+	DC AL1(0) BUFNO	49050000
001F65	000001			3396+	DC AL3(1) BUFCB	54720000
001F68	0000			3397+	DC AL2(0) BUFL	55170000
001F6A	0200			3398+	DC BL2'0000001000000000'	*55800000
				+	DSORG	55890000
001F6C	00000001			3399+	DC A(1) IOBAD	56340000
				3401+*	FOUNDATION EXTENSION	56610000
001F70	00			3403+	DC BL1'00000000' BFTEK,BFLN,HIARCHY	59850000
001F71	000E3A			3404+	DC AL3(PODEOF) EODAD	65970000
001F74	C0			3405+	DC BL1'11000000'	*66150000
				+	RECFM	66240000
001F75	000000			3406+	DC AL3(0) EXLST	66330000
				3408+*	FOUNDATION BLOCK	66690000
001F78	C4E8D5C1D4404040			3410+	DC CL8'DYNAM' DDNAME	66870000
001F80	02			3411+	DC BL1'00000010' OFLGS	68220000
001F81	00			3412+	DC BL1'00000000' IFLG	68310000
001F82	2400			3413+	DC BL2'0010010000000000'	*68400000
				+		*68490000
				+	MACR	68580000
				3415+*	BSAM-BPAM-QSAM INTERFACE	74430000
001F84	00			3417+	DC BL1'00000000'	*74610000
				+		RER1 74700000
001F85	000001			3418+	DC AL3(1) CHECK, GERR, PERR	74790000
001F88	00000E02			3419+	DC A(PODSYN) SYNAD	74880000
001F8C	0000			3420+	DC H'0' CIND1, CIND2	74970000
001F8E	0100			3421+	DC AL2(256) BLKSIZE	75240000
001F90	00000000			3422+	DC F'0' WCP0, WCPL, OFFSR, OFFSW	75870000
001F94	00000001			3423+	DC A(1) IOBA	75960000
001F98	00			3424+	DC AL1(0) NCP	76050000
001F99	000001			3425+	DC AL3(1) EOBR, EOBA	76140000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				3427+*		BSAM-BPAM INTERFACE	76410000
001F9C	00000001			3429+	DC	A(1)	76590000
001FA0	0000			3430+	DC	H'0'	78210000
001FA2	0000			3431+	DC	AL2(0)	80730000
001FA4	00000001			3432+	DC	A(1)	78480000
		00058		3433	DIRDCBL	EQU *-DIRDCB	
				3434	*		
001FA8				3435	DIRREADM	READ DIRDECB,SF,MF=L	
				3436+	DIRREADM	DS 0F	00220000
001FA8	00000000			3437+	DIRDECB	DC F'0'	00260000
001FAC	00			3438+	DC	X'00'	00500000
001FAD	80			3439+	DC	X'80'	00840000
001FAE	0000			3440+	DC	AL2(0)	00940000
001FB0	00000000			3441+	DC	A(0)	01040000
001FB4	00000000			3442+	DC	A(0)	01140000
001FB8	00000000			3443+	DC	A(0)	01160000
		00014		3444	DIRDECBL	EQU *-DIRDECB	
				3445	*		

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 09.46 05/07/19

```
3447 *      * /*****  
3448 *      * /* E Q U A T E S  
3449 *      * /*****  
3450 *      *  
3451 *      * /*****  
3452 *      * /* IKJCT441 Entry Code Values  
3453 *      * /*****  
00002 3454 TSVEUPDT EQU 2 Update/Create Request  
3455 *      *  
3456 *      * /*****  
3457 *      * /* Register Equates  
3458 *      * /*****  
3459 YREGS Register EQU as Rn or Rnn
```

00000	3461+R0	EQU	0	00060000
00001	3462+R1	EQU	1	00070000
00002	3463+R2	EQU	2	00080000
00003	3464+R3	EQU	3	00090000
00004	3465+R4	EQU	4	00100000
00005	3466+R5	EQU	5	00110000
00006	3467+R6	EQU	6	00120000
00007	3468+R7	EQU	7	00130000
00008	3469+R8	EQU	8	00140000
00009	3470+R9	EQU	9	00150000
0000A	3471+R10	EQU	10	00160000
0000B	3472+R11	EQU	11	00170000
0000C	3473+R12	EQU	12	00180000
0000D	3474+R13	EQU	13	00190000
0000E	3475+R14	EQU	14	00200000
0000F	3476+R15	EQU	15	00210000

```
3478 *  
3479 *R0 EQU 0  
3480 *R1 EQU 0  
3481 *R2 EQU 0  
3482 *R3 EQU 0  
3483 *R4 EQU 0  
3484 *R5 EQU 0  
3485 *R6 EQU 0  
3486 *R7 EQU 0  
3487 *R8 EQU 0  
3488 *R9 EQU 0  
3489 *R10 EQU 0  
3490 *R11 EQU 0  
3491 *R12 EQU 0  
3492 *R13 EQU 0  
3493 *R14 EQU 0  
3494 *R15 EQU 0  
3495 *  
3496 *      * /*****  
3497 *      * /* Other Equates  
3498 *      * /*****  
00028 3499 DDNAM EQU 40 DDNAME DCB offset  
3500 *
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3502 *	*	
				3503 *	/* *****/	
				3504 *	/* System DSECTs */	
				3505 *	/* *****/	
				3506	IHAPSA Prefixed Save Area	
				3507+*	%PSAL1 : ;	00250002
				3508+*		00300002
				3509+*/	*****	*/ 00350002
				3510+*/		*/ 00400002
				3511+*/	PREFIXED SAVE AREA	*/ 00450002
				3512+*/		*/ 00500002
				3513+*/	OS/V S2 SU64, 03/08/79, LEVEL=6	*/ 00502000
				3514+*/		*/ 00600002
				3515+*/	METHOD OF ACCESS	*/ 00650002
				3516+*/	BAL - DSECT IS PRODUCED UNLESS DSECT=NO IS SPECIFIED.	*/ 00700002
				3517+*/	USING ON PSA GIVES ADDRESSABILITY FOR ALL SYMBOLS.	*/ 00710002
				3518+*/	PL/S - PSA WILL BE BASED(0) FOR PL/S I OR LOCATION(0) FOR	*/ 00720002
				3519+*/	PL/S II UNLESS %PSABASE IS SET TO SOME OTHER VALUE	*/ 00730002
				3520+*/	BEFORE INCLUDE FOR MACRO.	*/ 00740002
				3521+*/		*/ 00750002
				3522+*/	NOTE	*/ 00800002
				3523+*/	THE LABELS BEGINNING WITH PSA OR FLC ARE THE PROPER LABELS	*/ 00850002
				3524+*/	TO USE. THE OTHER LABELS ARE GIVEN AS ALIAS NAMES FOR	*/ 00900002
				3525+*/	COMPATIBILITY WITH LABELS USED FOR SYSTEM 360 LOW CORE.	*/ 00910002
				3526+*/		*/ 00950002
				3527+*/	*****	*/ 01000002
				3528+*		01050002
				3529+*	%GOTO PSAL2; /*	01100002
000000				3531+PSA	DSECT	01250002
		00000		3532+FLC	EQU *	01510002
000000				3533+FLCIPPSW	DS 0CL8 - IPL PSW	01511002
000000	040E0000			3534+FLCRNPSW	DC XL4'040E0000' -RESTART NEW PSW (AFTER IPL)	MDC001 01512002
000004	00000000			3535+	DC V(IEAVRSTR) - SECOND HALF OF RESTART NEW PSW	MDC128 01513002
		00000		3536+IPLPSW	EQU FLCIPPSW --- ALIAS	01514002
000008				3537+FLCICCW1	DS 0CL8 - IPL CCW1	01515002
000008	0000000000000000			3538+FLCROPSW	DC XL8'00' - RESTART OLD PSW (AFTER IPL)	01516002
000010				3539+FLCICCW2	DS 0CL8 - IPL CCW2	01517002
000010	00000000			3540+FLCCVT	DC V(IEACVT) - ADDRESS OF CVT (AFTER IPL)	01518002
000014	00000000			3541+	DC XL4'00' - RESERVED (AFTER IPL)	01519002
000018	0000000000000000			3542+FLCEOPSW	DC XL8'00' - EXTERNAL OLD PSW	01520002
		00018		3543+EXOPSW	EQU FLCEOPSW --- ALIAS	01521002
000020	0000000000000000			3544+FLCSOPSW	DC XL8'00' - SVC OLD PSW	01522002
		00020		3545+SVCOPSW	EQU FLCSOPSW --- ALIAS	01523002
000028	0000000000000000			3546+FLCPOPSW	DC XL8'00' - PROGRAM CHECK OLD PSW	01524002
		00028		3547+PIOPSW	EQU FLCPOPSW --- ALIAS	01525002
000030	0000000000000000			3548+FLCMOPSW	DC XL8'00' - MACHINE CHECK OLD PSW	01526002
		00030		3549+MCOPSW	EQU FLCMOPSW --- ALIAS	01527002
000038	0000000000000000			3550+FLCIOPSW	DC XL8'00' - INPUT/OUTPUT OLD PSW	01528002
		00038		3551+I0OPSW	EQU FLCIOPSW --- ALIAS	01529002
000040	0000000000000000			3552+FLCCSW	DC XL8'00' - CHANNEL STATUS WORD	01530002
000048	00000000			3553+FLCCAW	DC XL4'00' - CHANNEL ADDRESS WORD	01531002
00004C	00000000			3554+FLCCVT2	DC V(IEACVT) - ADDRESS OF CVT - USED BY DUMP	01532002
				3555+*	ROUTINES	ICB319 01533002
000050	FFFFFFFF			3556+FLCTIMER	DC XL4'FFFFFFFF' -TIMER	01534002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00050	3557+TIMER	EQU	FLCTIMER	01535002
000054	00000000			3558+FLCTRACE	DC	A(0) - ADDRESS OF TRACE TABLE HEADER	YM2703 01536002
000058	040C0000			3559+FLCENPSW	DC	XL4'040C0000' -EXTERNAL NEW PSW	01537002
00005C	00000000			3560+	DC	V(IEAQEX00) - SECOND HALF OF EXTERNAL NEW PSW	01538002
			00058	3561+EXNPSW	EQU	FLCENPSW --- ALIAS	01539002
000060	040C0000			3562+FLCSNPSW	DC	XL4'040C0000' -SVC NEW PSW	01540002
000064	00000000			3563+	DC	V(IEAQSC00) - SECOND HALF OF SVC NEW PSW	01541002
			00060	3564+SVCNPSW	EQU	FLCSNPSW --- ALIAS	01542002
000068	000E0000			3565+FLCPNPSW	DC	XL4'000E0000' -PROGRAM CHECK NEW PSW	MDC002 01543002
00006C	00000000			3566+	DC	V(IEAQP00) - SECOND HALF OF PROGRAM CHECK NEW PSW	01544002
			00068	3567+PINPSW	EQU	FLCPNPSW --- ALIAS	01545002
000070	00080000			3568+FLCMNPSW	DC	XL4'00080000' -MACHINE CHECK NEW PSW	MDC003 01546002
000074	00000000			3569+	DC	V(IGFPMC00) - SECOND HALF OF MACHINE CHECK NEW PSW	01547002
				3570+*			MDC003 01548002
			00070	3571+MCNPSW	EQU	FLCMNPSW --- ALIAS	01549002
000078	040C0000			3572+FLCINPSW	DC	XL4'040C0000' -INPUT/OUTPUT NEW PSW	01549202
00007C	00000000			3573+	DC	V(IEAQI000) - SECOND HALF OF I/O NEW PSW	01549402
			00078	3574+IONPSW	EQU	FLCINPSW --- ALIAS	01549602
000080	00000000			3575+	DC	XL4'00' - RESERVED	01549802
000084				3576+PSAEEPSW	DS	0F - EXTENDED PSW DATA STORED ON EXTERNAL	01549902
				3577+*		INTERRUPT	MDC084 01550002
000084	0000			3578+PSASPAD	DC	H'0' - ISSUING PROCESSOR'S PHYSICAL ADDRESS ON	01550202
				3579+*		EMS OR EXTERNAL CALL INTERRUPT	MDC046 01550602
000086	0000			3580+FLCEICOD	DC	H'0' - EXTERNAL INTERRUPTION CODE	01550902
			00086	3581+EXCODE	EQU	FLCEICOD --- ALIAS	01551102
000088				3582+PSAESPSW	DS	0F - EXTENDED PSW DATA STORED ON SVC	01551202
				3583+*		INTERRUPT	MDC085 01551902
000088	00			3584+	DC	XL1'00' - RESERVED - SET TO ZERO	01557302
000089	00			3585+FLCSVILC	DC	FL1'0' - SVC INSTRUCTION LENGTH COUNTER -	01558002
				3586+*		NUMBER OF BYTES	MDC079 01558602
			00007	3587+FLCSILCB	EQU	X'07' - SIGNIFICANT BITS IN ILC FIELD - LAST	01558702
				3588+*		BIT IS ALWAYS ZERO	MDC080 01559502
			00089	3589+SVCILC	EQU	FLCSVILC --- ALIAS	01560202
00008A	0000			3590+FLCSVCN	DC	H'0' - SVC INTERRUPTION CODE - SVC NUMBER	MDC081 01560402
			0008A	3591+SVCNUM	EQU	FLCSVCN --- ALIAS	01560802
00008C				3592+PSAEPPSW	DS	0CL8 - EXTENDED PSW FOR PROGRAM INTERRUPT	MDC086 01561402
00008C	00			3593+	DC	XL1'00' - RESERVED - SET TO ZERO	01561502
00008D	00			3594+FLCPIILC	DC	FL1'0' - PROGRAM INTERRUPT LENGTH COUNTER -	01562202
				3595+*		NUMBER OF BYTES IN INSTRUCTION CAUSING	01562802
				3596+*		PROGRAM INTERRUPTION	MDC082 01562902
			00007	3597+FLCPILCB	EQU	X'07' - SIGNIFICANT BITS IN ILC FIELD - LAST	01563102
				3598+*		BIT IS ALWAYS ZERO	MDC083 01563302
			0008D	3599+PIILC	EQU	FLCPIILC --- ALIAS	01563602
00008E				3600+FLCPICOD	DS	0H - PROGRAM INTERRUPTION CODE	01564302
			0008E	3601+PICODE	EQU	FLCPICOD --- ALIAS	01565002
00008E	00			3602+PSARV049	DC	XL1'00' - RESERVED FOR IMPRECISE INTERRUPTS	MDC087 01565502
00008F	00			3603+PSAPICOD	DC	FL1'0' - 8-BIT INTERRUPT CODE	MDC088 01565602
			00080	3604+PSAPIPER	EQU	X'80' - PER INTERRUPT OCCURRED	MDC089 01565702
			00040	3605+PSAPIMC	EQU	X'40' - MONITOR CALL INTERRUPT OCCURRED	MDC090 01565802
			0003F	3606+PSAPIPC	EQU	X'3F' - AN UNSOLICITED PROGRAM CHECK HAS	01565902
				3607+*		OCCURRED IF ANY OF THESE 6 BITS ARE	01566002
				3608+*		ON	MDC091 01566102
000090				3609+FLCTEA	DS	0A - TRANSLATION EXCEPTION ADDRESS	01566302
000090	00			3610+	DC	XL1'00' - RESERVED - SET TO ZERO	01566402
000091	000000			3611+FLCTEAA	DC	AL3(0) - TRANSLATION EXCEPTION ADDRESS	01567102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000094	00			3612+	DC	XL1'00' -	RESERVED - SET TO ZERO 01567802
000095	00			3613+FLCMCNUM	DC	XL1'00' -	MONITOR CLASS NUMBER 01568502
000096	00			3614+FLCPCD	DC	XL1'00' -	PROGRAM EVENT RECORDING CODE 01569202
000097	00			3615+	DC	XL1'00' -	RESERVED - SET TO ZERO 01569902
000098				3616+FLCPC	DS	0A -	PER ADDRESS 01570602
000098	00			3617+	DC	XL1'00' -	RESERVED - SET TO ZERO 01571302
000099	000000			3618+FLCPCRA	DC	AL3(0) -	PER ADDRESS 01572002
00009C	00			3619+	DC	XL1'00' -	RESERVED - SET TO ZERO 01572702
00009D	000000			3620+FLCMTRCD	DC	XL3'00' -	MONITOR CODE 01573402
0000A0	000000000000000000			3621+	DC	XL8'00' -	RESERVED 01574102
0000A8				3622+FLCMCLA	DS	0XL344 -	MACHINE CHECK LOGOUT AREA 01574802
0000A8				3623+FLCCHNID	DS	0XL4 -	CHANNEL ID SET BY STIDC (MDC436) @G51BP9A 01574951
0000A8	0000			3624+FLCCHTM	DC	XL2'00' -	CHANNEL TYPE (4 BITS) AND MODEL NUMBER 01575551
				3625+*			(12 BITS) (MDC437) @G51BP9A 01575651
0000AA	0000			3626+FLCCHIL	DC	H'0' -	I/O EXTENDED LOGOUT (IOEL) LENGTH 01575751
				3627+*			(MDC440) @G51BP9A 01575851
0000AC				3628+FLCIOEL	DS	0A -	SAME AS FLCIOELA BELOW 01576202
0000AC	00			3629+	DC	XL1'00' -	RESERVED 01576902
0000AD	000000			3630+FLCIOELA	DC	AL3(0) -	I/O EXTENDED LOGOUT (IOEL) POINTER 01577602
0000B0	00000000			3631+FLCLCL	DC	XL4'00' -	LIMITED CHANNEL LOGOUT (ECSW) 01578302
0000B4	0000			3632+	DC	XL2'00' -	RESERVED 01579002
0000B6	00			3633+	DC	XL1'00' -	RESERVED MDC051 01579702
0000B7	00			3634+	DC	XL1'00' -	RESERVED MDC052 01580402
0000B8				3635+FLCIOA	DS	0A -	I/O ADDRESS 01581102
0000B8	00			3636+	DC	XL1'00' -	RESERVED 01581802
0000B9	000000			3637+FLCIOAA	DC	AL3(0) -	I/O ADDRESS 01582502
0000BC	000000000000000000			3638+	DC	XL44'00' -	RESERVED 01583202
0000E8	000000000000000000			3639+FLCMCIC	DC	XL8'00' -	MACHINE-CHECK INTERRUPTION CODE 01583902
0000F0	00000000			3640+	DC	XL4'00' -	RESERVED @G51BP9A 01584251
0000F4	00			3641+PSAMEDC	DC	XL1'00' -	EXTERNAL DAMAGE CODE (MDC441) @G51BP9A 01584651
				3642+*	EQU	X'80' -	RESERVED @G51BP9A 01584751
		00040		3643+PSAMCOPR	EQU	X'40' -	CHANNEL CHANGED FROM NOT OPERATIONAL TO 01584851
				3644+*			OPERATIONAL STATE (MDC442) @G51BP9A 01584951
		00020		3645+PSAMEXSR	EQU	X'20' -	EXTERNAL SECONDARY REPORT 01585051
				3646+*			(MDC443) @G51BP9A 01585151
		00010		3647+PSAMCNOPE	EQU	X'10' -	CHANNEL ENTERED NOT OPERATIONAL STATE 01585251
				3648+*			WITHOUT PERFORMING I/O SYSTEM RESET 01585951
				3649+*			(MDC444) @G51BP9A 01586051
		00008		3650+PSAMCCF	EQU	X'08' -	CHANNEL CONTROL FAILURE (MDC445) @G51BP9A 01586151
		00004		3651+PSAMINST	EQU	X'04' -	I/O INSTRUCTION TIMEOUT (MDC446) @G51BP9A 01586251
		00002		3652+PSAMINTR	EQU	X'02' -	I/O INTERRUPTION TIMEOUT 01586351
				3653+*			(MDC447) @G51BP9A 01586451
		00001		3654+PSAMDISC	EQU	X'01' -	DISCONNECT CHANNEL SET (DISCS) 01586551
				3655+*			INSTRUCTION CANNOT BE COMPLETED 01587251
				3656+*			(MDC448) @G51BP9A 01587351
0000F5	000000			3657+	DC	XL3'00' -	ZEROES (MDC449) @G51BP9A 01587451
0000F8				3658+FLCFSA	DS	0A -	FAILING STORAGE ADDRESS 01587551
0000F8	00			3659+	DC	XL1'00' -	ZEROES 01587651
0000F9	000000			3660+FLCFSA	DC	AL3(0) -	FAILING STORAGE ADDRESS 01587951
0000FC	00000000			3661+FLCRGNCD	DC	XL4'00' -	REGION CODE 01588051
000100	000000000000000000			3662+FLCFLA	DC	XL96'00' -	FIXED LOGOUT AREA 01588102
000160	000000000000000000			3663+FLCFPSAV	DC	XL32'00' -	FLOATING POINT REGISTER SAVE AREA 01588802
000180	000000000000000000			3664+FLCGRSAV	DC	16F'0' -	GENERAL REGISTER SAVE AREA 01589502
0001C0	000000000000000000			3665+FLCCRSAV	DC	16F'0' -	CONTROL REGISTER SAVE AREA 01590202
000200				3666+FLCHDEND	DS	0D -	END OF HARDWARE ASSIGNMENTS 01590902

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000200	D7E2C140			3668+PSAPSA	DC	CL4'PSA ' -	CONTROL BLOCK ACRONYM IN EBCDIC 01599302
000204	0000			3669+PSACPUPA	DC	H'0' -	PHYSICAL CPU ADDRESS (CHANGED DURING ACR) 01600002
				3670+*			(MDC130) YM3489 01620002
000206	0000			3671+PSACPULA	DC	H'0' -	LOGICAL CPU ADDRESS 01650002
000208	00000000			3672+PSAPCCAV	DC	A(0) -	VIRTUAL ADDRESS OF PCCA 01700002
00020C	00000000			3673+PSAPCCAR	DC	A(0) -	REAL ADDRESS OF PCCA 01750002
000210	00000000			3674+PSALCCAV	DC	A(0) -	VIRTUAL ADDRESS OF LCCA 01800002
000214	00000000			3675+PSALCCAR	DC	A(0) -	REAL ADDRESS OF LCCA 01850002
000218	00000000			3676+PSATNEW	DC	A(0) -	TCB NEW POINTER 01900002
		00218		3677+IEATCBP	EQU	PSATNEW -	ALIAS 01910002
00021C	00000000			3678+PSATOLD	DC	A(0) -	TCB OLD POINTER 01950002
000220	00000000			3679+PSAANew	DC	A(0) -	ASCB NEW POINTER 02000002
000224	00000000			3680+PSAAOLD	DC	A(0) -	ASCB OLD POINTER 02050002
000228				3681+PSASUPER	DS	0BL4 -	SUPERVISOR CONTROL WORD 02100002
000228	00			3682+PSASUP1	DC	XL1'00' -	FIRST BYTE OF PSASUPER 02150002
		00080		3683+PSAIO	EQU	X'80' -	I/O FLIH 02200002
		00040		3684+PSASVC	EQU	X'40' -	SVC FLIH 02250002
		00020		3685+PSAEXT	EQU	X'20' -	EXTERNAL FLIH 02300002
		00010		3686+PSAPI	EQU	X'10' -	PROGRAM CHECK FLIH 02350002
		00008		3687+PSALOCK	EQU	X'08' -	LOCK ROUTINE 02400002
		00004		3688+PSADISP	EQU	X'04' -	DISPATCHER 02450002
		00002		3689+PSATCTL	EQU	X'02' -	TCTL RECOVERY FLAG (MDC310) @Z40FP9A 02500004
		00001		3690+PSATYPE6	EQU	X'01' -	TYPE 6 SVC IN CONTROL (MDC311) @Z40FP9A 02530004
000229	00			3691+PSASUP2	DC	XL1'00' -	SECOND BYTE OF PSASUPER 02600002
		00080		3692+PSAIPCRI	EQU	X'80' -	SIGP - REMOTE IMMEDIATE 02650002
		00040		3693+PSAGTF	EQU	X'40' -	GTF GIVEN CONTROL FROM FLIH 02700002
		00020		3694+PSAIPCEC	EQU	X'20' -	EXTERNAL CALL SLIH IS ACTIVE MDC047 02750002
		00010		3695+PSAIPCES	EQU	X'10' -	EMERGENCY SIGNAL SLIH IS ACTIVE MDC048 02800002
		00008		3696+PSAIPCE2	EQU	X'08' -	EMERGENCY SIGNAL (EMS) SLIH RECURSIVE 02850002
				3697+*			ENTRY FLAG MDC110 02860002
		00004		3698+PSAACR	EQU	X'04' -	AUTOMATIC CPU RECONFIGURATION (ACR) IN 02910002
				3699+*			CONTROL MDC119 02960002
		00002		3700+PSARTM	EQU	X'02' -	RECOVERY TERMINATION MONITOR (RTM) IN 02970002
				3701+*			CONTROL MDC120 02980002
		00001		3702+PSALCR	EQU	X'01' -	LOW CORE REFRESH ROUTINE IS ACTIVE MDC126 03030002
00022A	00			3703+PSASUP3	DC	XL1'00' -	THIRD BYTE OF PSASUPER 03050002
		00080		3704+PSAIOSUP	EQU	X'80' -	IF ON, A MAINLINE IOS COMPONENT SUCH AS 03100002
				3705+*			CHANNEL SCHEDULER HAS ENTERED A 03110002
				3706+*			PHYSICALLY DISABLED STATE WITHOUT REGARD 03120002
				3707+*			TO LOCKING REQUIREMENTS MDC027 03130002
		00040		3708+PSAPI2	EQU	X'40' -	PROGRAM CHECK FLIH RECURSION 03150003
				3709+*			(MDC301) @ZM08516 03200003
		00020		3710+PSAPSREG	EQU	X'20' -	PSA RECOVERY RECURSION (MDC302) @ZM08516 03220003
		00010		3711+PSASPR	EQU	X'10' -	SUPER FRR IS ACTIVE (MDC305) @ZA02995 03250004
		00008		3712+PSAESTA	EQU	X'08' -	ESTAE RECOVERY ROUTINE ACTIVE 03300004
				3713+*			(MDC312) @Z40FP9A 03310004
		00004		3714+PSARV012	EQU	X'04' , , C'X' -	RESERVED 03350002
		00002		3715+PSAULCMS	EQU	X'02' -	LOCK MANAGER UNCONDITIONAL LOCAL OR 03400051
				3716+*			CMS LOCK ROUTINES (MDC469) @ZA28594 03410051
		00001		3717+PSASLIP	EQU	X'01' -	IEAVTSLP RECURSION CONTROL BIT 03450064
				3718+*			(MDC471) @G64RP9A 03460064
00022B	00			3719+PSASUP4	DC	XL1'00' -	FOURTH BYTE OF PSASUPER 03500002
		00080		3720+PSALDWT	EQU	X'80' -	IF ON, IEEVLDWT IS ACTIVE AND PROCESSING 03550064
				3721+*			STOP/RESTART REQUEST (MDC597) @G64UP9A 03560064
		00040		3722+PSARV016	EQU	X'40' , , C'X' -	RESERVED 03600002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00020	3723+PSARV017	EQU	X'20',,,C'X' - RESERVED	03650002
			00010	3724+PSARV018	EQU	X'10',,,C'X' - RESERVED	03700002
			00008	3725+PSARV019	EQU	X'08',,,C'X' - RESERVED	03750002
			00004	3726+PSARV020	EQU	X'04',,,C'X' - RESERVED	03800002
			00002	3727+PSARV021	EQU	X'02',,,C'X' - RESERVED	03850002
			00001	3728+PSARV022	EQU	X'01',,,C'X' - RESERVED	03900002
00022C	000000000000000000			3729+PSAGPREG	DC	3F'0' - REGISTER SAVE AREA FOR I/O FLIH, SVC	03950002
				3730+*		FLIH, EXTERNAL FLIH AND SYSTEM TRACE	04000002
000238	00000000			3731+PSARSREG	DC	F'0' - RESTART FLIH REGISTER SAVE	04050002
00023C	00000000			3732+PSAPIREG	DC	F'0' - PROGRAM CHECK FLIH REGISTER SAVE	04100002
000240				3733+	DS	0D - ALIGN PSAEXPS1 TO DOUBLE WORD	04110002
000240	000000000000000000			3734+PSAEXPS1	DC	XL8'00' - EXTERNAL FLIH PSW SAVE AREA 1	04150002
000248				3735+	DS	0D - ALIGN PSAEXPS2 TO DOUBLE WORD	04160002
000248	000000000000000000			3736+PSAEXPS2	DC	XL8'00' - EXTERNAL FLIH PSW SAVE AREA 2	04200002
000250				3737+	DS	0D - ALIGN PSAMPSW TO DOUBLE WORD	04210002
000250	000C00000000000000			3738+PSAMPSW	DC	XL8'000C000000000000' - SETLOCK MODEL PSW	04250002
000258				3739+	DS	0D - ALIGN PSAMCHEX TO DOUBLE WORD	04260002
000258	000000000000000000			3740+PSAMCHEX	DC	XL8'00' - MCH EXIT PSW	04300002
000260	AD00			3741+PSAIPCR	DC	X'AD00' - FIRST HALF OF IPC INSTRUCTION TO BE	04350002
				3742+*		EXECUTED	04400002
000262	0264			3743+	DC	Y(PSAIPCRM-PSA) - SECOND HALF OF IPC INSTRUCTION	04450002
000264	00			3744+PSAIPCRM	DC	XL1'00' - BYTE USED BY ABOVE IPC INSTRUCTION	04500002
000265	000000			3745+	DC	XL3'00' - RESERVED	04550002
000268	AD00			3746+PSAIPCD	DC	X'AD00' - FIRST HALF OF IPC INSTRUCTION TO BE	04600002
				3747+*		EXECUTED	04650002
00026A	026C			3748+	DC	Y(PSAIPCDM-PSA) - SECOND HALF OF IPC INSTRUCTION	04700002
00026C	00			3749+PSAIPCDM	DC	XL1'00' - BYTE USED BY ABOVE IPC INSTRUCTION	04750002
00026D	00			3750+PSAIPCC3	DC	XL1'00' - BYTE USED BY IPC FOR CC3 STNSM @ZM49378	04800064
				3751+*		(MDC598)	04810064
00026E	0000			3752+	DC	XL2'00' - RESERVED @ZM49378	04820064
000270	00000000			3753+PSAIPCSA	DC	F'0' - IPC REGISTER SAVE AREA MDC049	04850002
000274	00000000			3754+PSAHLHIS	DC	F'0' - SAVE AREA FOR PSAHLHI MDC050	04900002
000278	00			3755+PSARECUR	DC	XL1'00' - RESTART FLIH RECURSION INDICATOR. IF	04950002
				3756+*		X'00', FLIH NOT IN CONTROL. IF X'FF',	04960002
				3757+*		FLIH IN CONTROL, ENTRY IS RECURSIVE.	04970002
				3758+*		MDC093	04980002
000279	00			3759+PSADSSGO	DC	XL1'00' - INITIALIZE DSS FLAG, SET BY OPERATOR.	04990002
				3760+*		IF X'00', DSS NOT TO BE ACTIVATED. IF	04992002
				3761+*		NOT X'00', NEXT RESTART INTERRUPT FROM	04994002
				3762+*		CONSOLE SHOULD INITIALIZE DSS. MDC094	04996002
00027A	00			3763+PSASNSM2	DC	XL1'00' - STNSM AREA FOR IEAVTRT1 (MDC470) @G64RP9A	04998064
00027B	00			3764+PSARV050	DC	XL1'00' - RESERVED	04998264
00027C	00000000			3765+PSASRSA	DC	A(0) - REAL ADDRESS OF SAVE AREA USED DURING	04998402
				3766+*		STOP AND RESTART SUBROUTINE MDC095	04998802
000280				3767+PSACLHT	DS	0CL56 - CPU LOCKS HELD TABLE. INITIALIZED TO	05000002
				3768+*		ZERO. IF LOCK IS HELD, WORD REPRESENTING	05050002
				3769+*		LOCK HAS ITS ADDRESS.	05100002
000280	00000000			3770+PSADISPL	DC	A(0) - GLOBAL DISPATCHER LOCK	05150002
000284	00000000			3771+PSAASML	DC	A(0) - AUXILIARY STORAGE MANAGEMENT (ASM) LOCK	05160002
				3772+*		MDC002	05162002
000288	00000000			3773+PSASALCL	DC	A(0) - SPACE ALLOCATION LOCK MDC003	05170002
00028C	00000000			3774+PSAIOSSL	DC	A(0) - IOS SYNCHRONIZATION LOCK MDC010	05180002
000290	00000000			3775+PSAIOSCL	DC	A(0) - IOS CHANNEL AVAILABLE TABLE LOCK MDC004	05200002
000294	00000000			3776+PSAIOSUL	DC	A(0) - IOS UNIT CONTROL BLOCK LOCK MDC005	05300002
000298	00000000			3777+PSAIOSLL	DC	A(0) - IOS LOGICAL CHANNEL QUEUE LOCK MDC006	05400002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
00029C	00000000			3778+PSATPNCL	DC	A(0) -	TCAM'S TPNCP LOCK MDC007 05510002
0002A0	00000000			3779+PSATPDNL	DC	A(0) -	TCAM'S TPDNCB LOCK MDC008 05520002
0002A4	00000000			3780+PSATPACL	DC	A(0) -	TCAM'S TPACBDEB LOCK MDC009 05530002
0002A8	00000000			3781+PSAOPTL	DC	A(0) -	OPTIMIZER LOCK 05650002
0002AC	00000000			3782+PSACMSL	DC	A(0) -	CROSS MEMORY SERVICES LOCK 05700002
0002B0	00000000			3783+PSALOCAL	DC	A(0) -	LOCAL LOCK 05800002
0002B4	00000000			3784+PSARV023	DC	A(0) -	RESERVED LOCK 05810002
0002B8				3785+PSALKSA	DS	0CL64 -	SETLOCK REGISTER SAVE AREA 05850002
0002B8	00000000			3786+PSALKR0	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 0 05860002
0002BC	00000000			3787+PSALKR1	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 1 05870002
0002C0	00000000			3788+PSALKR2	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 2 05880002
0002C4	00000000			3789+PSALKR3	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 3 05890002
0002C8	00000000			3790+PSALKR4	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 4 05892002
0002CC	00000000			3791+PSALKR5	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 5 05894002
0002D0	00000000			3792+PSALKR6	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 6 05896002
0002D4	00000000			3793+PSALKR7	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 7 05898002
0002D8	00000000			3794+PSALKR8	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 8 05898402
0002DC	00000000			3795+PSALKR9	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 9 05898802
0002E0	00000000			3796+PSALKR10	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 10 05899202
0002E4	00000000			3797+PSALKR11	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 11 05899602
0002E8	00000000			3798+PSALKR12	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 12 05899702
0002EC	00000000			3799+PSALKR13	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 13 05899802
0002F0	00000000			3800+PSALKR14	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 14 05899902
0002F4	00000000			3801+PSALKR15	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 15 05916602
0002F8				3802+PSACLHS	DS	0F -	CPU LOCKS HELD STRING MDC122 05926602
0002F8	00000000			3803+PSAHLHI	DC	F'0' -	HIGHEST LOCK HELD INDICATOR MDC121 05933302
0002FC	00000000			3804+PSALITA	DC	V(IEAVELIT) -	ADDRESS OF LOCK INTERFACE TABLE 05950002
000300				3805+	DS	0D -	ALIGN PSAPSWSV TO DOUBLE WORD 05960002
000300	000000000000000000			3806+PSAPSWSV	DC	XL8'00' -	PSW SAVE AREA FOR DISPATCHER AND ACR 06000002
000308	00000000			3807+PSACR0	DC	F'0' -	SAVE AREA FOR CONTROL REGISTER 0 06050002
00030C	00			3808+PSAMCHFL	DC	XL1'00' -	MCH RECURSION FLAGS 06100002
00030D	00			3809+PSASYMSK	DC	XL1'00' -	THIS FIELD WILL BE USED IN CONJUNCTION 06110002
				3810+*			WITH THE STNSM INSTRUCTION TO PLACE IOS 06120002
				3811+*			CHANNEL SCHEDULER INTO A DISABLED STATE 06130002
				3812+*			AND SIMULTANEOUSLY SAVE THE SYSTEM MASK 06140002
				3813+*			OF THE CALLER MDC022 06142002
00030E	00			3814+PSAACTCD	DC	XL1'00' -	ACTION CODE SUPPLIED BY OPERATOR AFTER 06143051
				3815+*			SYSTEM HAS LOADED RESTARTABLE WAIT STATE 06144051
				3816+*			AND BEFORE THE RESTART KEY IS DEPRESSED. 06146051
				3817+*			VALUE DEPENDS ON RESTARTABLE WAIT STATE 06148051
				3818+*			CODE. UNPREDICTABLE DURING NORMAL SYSTEM 06150051
				3819+*			OPERATION. (MDC433) @G51BP9A 06152051
00030F	00			3820+PSAMCHIC	DC	XL1'00' -	MCH INITIALIZATION COMPLETE FLAGS MDC098 06156002
000310	00000000			3821+PSAWKRAP	DC	A(0) -	REAL ADDRESS OF VARY CPU PARAMETER LIST 06160002
				3822+*			MDC106 06170002
000314	00000000			3823+PSAWKVAP	DC	A(0) -	VIRTUAL ADDRESS OF VARY CPU PARAMETER 06180002
				3824+*			LIST MDC107 06190002
000318	0000			3825+PSAVSTAP	DC	H'0' -	WORK AREA FOR VARY CPU MDC108 06190402
00031A	0000			3826+PSACPUSA	DC	H'0' -	PHYSICAL CPU ADDRESS (STATIC) (MDC131) 06190802
				3827+*			YM3489 06191402
00031C	00000000			3828+PSASTOR	DC	F'0' -	MASTER MEMORY'S SEGMENT TABLE ORIGIN 06192002
				3829+*			REGISTER (STOR) VALUE 06194002
000320	00000000			3830+PSADSSRS	DC	F'0' -	REGISTER SAVE FOR DSS PROGRAM AND SVC 06196002
				3831+*			INTERRUPT HANDLERS MDC053 06198002
000324	00000000			3832+PSADSSR2	DC	F'0' -	REGISTER SAVE AREA FOR DSS I/O AND 06198102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3833+*	EXTERNAL INTERRUPT HANDLERS	MDC054 06198202
000328	00000000			3834+PSADSSR3 DC	F'0' - REGISTER SAVE AREA FOR DSS ERROR RECOVERY	06198302
				3835+*	ROUTINE	MDC055 06199502
00032C	00000000			3836+PSADSSWK DC	F'0' - WORK AREA FOR DSS INTERRUPT HANDLERS	06201502
				3837+*		MDC056 06201902
000330	0000000000000000			3838+PSADSSTS DC	5F'0' - REGISTER SAVE FOR DSS MODULES MAKING	06202002
				3839+*	CALLS TO IQATSS	MDC023 06203202
000344				3840+PSADSSFL DS	0BL4 - DSS FLAG BYTES	MDC024 06204402
000344	00			3841+PSADSSF1 DC	XL1'00' - DSS STATUS BYTE	MDC029 06205602
		00080		3842+PSADSSMV EQU	X'80' - DSS MONITORING, VS2 RUNNING	MDC030 06206802
		00040		3843+PSADSSDM EQU	X'40' - DSS IN VS2-2 VM	MDC031 06208002
		00020		3844+PSADSSDD EQU	X'20' - DSS IN DSS VM	MDC032 06209202
		00010		3845+PSADSSDW EQU	X'10' - DSS IN DSS WAIT	MDC033 06210402
		00008		3846+PSADSSTP EQU	X'08' - DSS PROCESSING SIGP	MDC034 06211602
		00004		3847+PSADSSSP EQU	X'04' - DSS SIGP PENDING	MDC035 06212802
		00002		3848+PSADSSOI EQU	X'02' - DSS EXECUTING OVERLAID INSTRUCTION	MDC036 06214002
		00001		3849+PSADSSPI EQU	X'01' - DSS EXECUTING PRIVILEGED INSTRUCTION	06215202
				3850+*		MDC037 06216402
000345	FF			3851+PSADSSF2 DC	XL1'FF' - SYSTEM STATUS BYTE (MDC038)	YM6287 06217602
		000FF		3852+PSADSSPS EQU	X'FF' - SYSTEM RUNNING IN PROBLEM STATE	MDC039 06218802
		000FE		3853+PSADSSSS EQU	X'FE' - SYSTEM RUNNING IN PRIVILEGED STATE	MDC040 06220002
000346	00			3854+PSADSSF3 DC	XL1'00' - DSS FLAG BYTE	MDC099 06221202
		00080		3855+PSADSSGP EQU	X'80' - DSS SIGP INDICATOR	MDC100 06222402
		00040		3856+PSADSSSES EQU	X'40' - ERROR SHORT SAVE INDICATOR	MDC113 06224402
		00020		3857+PSADSSNM EQU	X'20' - NON-MONITORABLE CODE INDICATOR	MDC114 06224502
		00010		3858+PSADSSRW EQU	X'10' - DSS OWNS CVTRSTWD	MDC117 06224602
		00008		3859+PSADSSMC EQU	X'08' - MACHINE CHECK RUNNING (MDC132)	YM6287 06224702
		00004		3860+PSARV055 EQU	X'04' , , C'X' - RESERVED FOR DSS	MDC100 06226002
		00002		3861+PSARV056 EQU	X'02' , , C'X' - RESERVED FOR DSS	MDC100 06226402
		00001		3862+PSARV057 EQU	X'01' , , C'X' - RESERVED FOR DSS	MDC100 06226802
000347	00			3863+PSADSSF4 DC	XL1'00' - DSS RECURSION FLAGS	MDC101 06227702
		00080		3864+PSADSSRC EQU	X'80' - PROGRAM-SVC RECURSION FLAG	MDC057 06229002
		00040		3865+PSADSS12 EQU	X'40' - PROGRAM INTERRUPT 12 RECURSION FLAG	06230302
				3866+*		MDC058 06231602
		00020		3867+PSADSSIE EQU	X'20' - I/O-EXTERNAL RECURSION FLAG	MDC059 06232902
		00010		3868+PSADSSC0 EQU	X'10' - CONTROL REGISTER 0 INVALID FLAG	MDC092 06234202
		00008		3869+PSADSSDE EQU	X'08' - DAT ERROR WHILE DSS RUNNING IN VS2 VM	06236402
				3870+*		MDC102 06238402
		00004		3871+PSADSSVE EQU	X'04' - DAT ERROR WHILE DSS RUNNING IN DSS VM	06240402
				3872+*		MDC103 06240502
		00002		3873+PSADSS10 EQU	X'02' - SEGMENT EXCEPTION RECURSION FLAG	MDC104 06240602
		00001		3874+PSADSS05 EQU	X'01' - ADDRESSING EXCEPTION RECURSION FLAG	06240902
				3875+*		MDC105 06241302
000348				3876+	DS 0D - ALIGN PSADSSRP TO DOUBLEWORD	MDC025 06241602
000348	0000000000000000			3877+PSADSSRP DC	XL8'00' - DSS TO VS2-2 RESUME PSW	MDC025 06242002
000350				3878+	DS 0D - ALIGN PSADSSPP TO DOUBLEWORD	MDC026 06243302
000350	0000000000000000			3879+PSADSSPP DC	XL8'00' - DSS PSW FOR RETURNING CONTROL FROM	06244602
				3880+*	PRIVILEGED INSTRUCTION STREAM TO VS2	06245902
				3881+*		MDC026 06246302
000358	00000000			3882+PSADSS14 DC	F'0' - DSS RESTART SECOND LEVEL INTERRUPT	06248302
				3883+*	HANDLER CONTROL REGISTER 14 SAVE AREA	06248702
				3884+*		MDC115 06249102
00035C	00000000			3885+PSADSSFW DC	F'0' - FULL-WORD DSS WORK AREA	MDC116 06249502
000360	00000000			3886+PSADSSPR DC	F'0' - DSS REGISTER SAVE FOR PRIVILEGED	06249802
				3887+*	INSTRUCTION STREAM	MDC028 06251102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00364	3888+PSADSSSED	EQU	* -	END OF DSS FIELDS MDC045 06252402
000364	000000000			3889+PSARV025	DC	F'0' -	RESERVED FOR DSS 06253702
000368	000000000			3890+PSARV040	DC	F'0' -	RESERVED FOR DSS 06255002
00036C	000000000			3891+PSARV041	DC	F'0' -	RESERVED FOR DSS 06256302
000370	000000000			3892+PSARV042	DC	F'0' -	RESERVED FOR DSS 06257602
000374	000000000			3893+PSARV043	DC	F'0' -	RESERVED FOR DSS 06258902
000378	0000			3894+PSARV153	DC	H'0' -	RESERVED (MDC607) 06260200
00037A	07FE			3895+PSARET	DC	X'07FE' -	BRANCH RETURN TO CALLER, USED BY 06261200
				3896+*			ROUTINES INVOKED BY IOS 06262200
				3897+*			(MDC607) @ZA38630 06263200
00037C	47FFE000			3898+PSARETCD	DC	X'47FFE000' -	BRANCH RETURN TO CALLER WITH RETURN 06264200
				3899+*			CODE IN REGISTER 15, USED BY ROUTINES 06265200
				3900+*			INVOKED BY IOS (MDC607) @ZA38630 06266200
000380				3901+PSARSVT	DS	0CL64 -	RECOVERY STACK VECTOR TABLE MDC064 06271502
000380				3902+PSARSVTE	DS	0CL64 -	RECOVERY STACK VECTOR TABLE MDC065 06273502
000380	000000000			3903+PSACSTK	DC	A(0) -	ADDRESS OF CURRENTLY USED FUNCTIONAL 06273902
				3904+*			RECOVERY ROUTINE (FRR) STACK MDC061 06274302
000384	000000000			3905+PSANSTK	DC	A(0) -	ADDRESS OF NORMAL FRR STACK MDC062 06278602
000388	000000000			3906+PSASSTK	DC	A(0) -	ADDRESS OF SVC-I/O-DISPATCHER FRR STACK 06280602
				3907+*			MDC063 06282602
00038C	000000000			3908+PSASSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06282702
				3909+*			SVC-I/O-DISPATCHER MDC066 06282802
000390	000000000			3910+PSAMSTK	DC	A(0) -	ADDRESS OF MCH FRR STACK MDC067 06287102
000394	000000000			3911+PSAMSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06289102
				3912+*			MCH MDC068 06291102
000398	000000000			3913+PSAPSTK	DC	A(0) -	ADDRESS OF PROGRAM CHECK FLIH FRR STACK 06291202
				3914+*			MDC069 06291302
00039C	000000000			3915+PSAPSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06303002
				3916+*			PROGRAM CHECK FLIH MDC070 06313002
0003A0	000000000			3917+PSAESTK1	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06313402
				3918+*			NON-RECURSIVE ENTRIES MDC071 06313802
0003A4	000000000			3919+PSAESAV1	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06314202
				3920+*			NON-RECURSIVE ENTRIES MDC072 06314602
0003A8	000000000			3921+PSAESTK2	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06314702
				3922+*			FIRST LEVEL RECURSIONS MDC073 06314802
0003AC	000000000			3923+PSAESAV2	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVE BY 06318702
				3924+*			EXTERNAL FLIH FOR FIRST LEVEL RECURSIONS 06320702
				3925+*			MDC074 06321502
0003B0	000000000			3926+PSAESTK3	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06321902
				3927+*			SECOND LEVEL RECURSIONS AND ACR MDC075 06322302
0003B4	000000000			3928+PSAESAV3	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06322402
				3929+*			EXTERNAL FLIH (ACR) FOR SECOND LEVEL 06322502
				3930+*			RECURSIONS MDC076 06322602
0003B8	000000000			3931+PSARSTK	DC	A(0) -	ADDRESS OF RESTART FLIH FRR STACK MDC077 06326502
0003BC	000000000			3932+PSARSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06328502
				3933+*			RESTART FLIH MDC078 06328902
0003C0				3934+	DS	0D -	ALIGN PSARPSW TO DOUBLE WORD MDC096 06329302
0003C0	000000000000000000			3935+PSASRPSW	DC	XL8'00' -	RESUME PSW FOR STOP AND RESTART 06329702
				3936+*			SUBROUTINE MDC096 06330102
0003C8				3937+	DS	0D -	ALIGN PSARSPSW TO DOUBLE WORD MDC097 06330202
0003C8	000000000000000000			3938+PSARSPSW	DC	XL8'00' -	RESUME PSW FIELD FOR RESTART INTERRUPT 06330302
				3939+*			HANDLER MDC097 06330402
0003D0				3940+	DS	0D -	ALIGN PSASTART TO DOUBLE WORD MDC111 06332402
0003D0	07FE			3941+PSASTART	BR	14 -	START FATHOM RECORDING MDC111 06332802
0003D2	000000000000000000			3942+	DC	XL14'00' -	REST OF PSASTART MDC111 06333202

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
0003E0				3943+	DS	0D -	ALIGN PSASTOP TO DOUBLE WORD MDC112 06333602
0003E0	07FE			3944+PSASTOP	BR	14 -	STOP FATHOM RECORDING MDC112 06334002
0003E2	0000000000000000			3945+	DC	XL14'00' -	REST OF PSASTOP MDC112 06334102
0003F0				3946+	DS	0F -	ALIGN PSASFACC TO FULL WORD MDC123 06334202
0003F0	8007D000			3947+PSASFACC	DC	XL4'8007D000' -	SETFRR ABEND COMPLETION CODE USED WHEN 06334302
				3948+*			A SETFRR ADD IS ISSUED AGAINST A FULL 06340702
				3949+*			FRR STACK MDC123 06342702
0003F4	581003F0			3950+PSALSFCC	DC	XL4'581003F0' -	A LOAD INSTRUCTION TO PRIME REGISTER 1 06344702
				3951+*			WITH THE SETFRR ABEND COMPLETION CODE IN 06346702
				3952+*			PSASFACC MDC124 06347102
0003F8	0A0D			3953+PSASVC13	SVC	13 -	AN SVC 13 INSTRUCTION MDC125 06347502
0003FA	0000			3954+PSARV059	DC	H'0' -	RESERVED 06347902
0003FC	00000000			3955+PSAPIR2	DC	F'0' -	PROGRAM CHECK FLIH REGISTER SAVE 06348203
				3956+*			(MDC303) @ZM08516 06348603
000400				3957+	DS	0D -	ALIGN PSAPCPSW TO DOUBLE WORD YM0943 06348902
000400	0000000000000000			3958+PSAPCPSW	DC	XL8'00' -	TEMPORARY OLD PSW STORAGE FOR PROGRAM 06349202
				3959+*			FLIH (MDC129) YM0943 06349502
000408	00000000			3960+PSAATCVT	DC	A(0) -	ADDRESS OF VTAM ATCVT. INITIALIZED BY 06349703
				3961+*			VTAM. (MDC300) @Z30AP9A 06350003
00040C	00000000			3962+PSAWTCOD	DC	A(0) -	CALLER-SUPPLIED WAIT STATE INFORMATION 06355004
				3963+*			FOR STOP/RESTART (MDC306) @ZA00904 06357004
000410	00000000			3964+PSACDAL	DC	A(0) -	ADDRESS OF COMMON DISPATCHER ELEMENT FOR 06358004
				3965+*			THIS CPU (MDC307) @Z40FP9A 06359004
000414	0000			3966+PSACSID	DC	H'0' -	CURRENT CHANNEL SET ID (MDC472) @G64AP9A 06360064
000416	0000			3967+PSARV100	DC	H'0' -	RESERVED @G64AP9A 06360364
000418				3968+PSAUSEND	DS	0D -	END OF ASSIGNED FIELDS MDC109 06361003
000418	0000000000000000			3969+	DC	2024XL1'00' -	RESERVED @Z40AQ9A 06367504
000C00				3970+	DS	0D -	ALIGN PSASTAK TO DOUBLE WORD MDC118 06374003
000C00	0000000000000000			3971+PSASTAK	DC	596XL1'00' -	NORMAL FRR STACK (MDC304) @ZM32352 06387003
000E54	0000000000000000			3972+	DC	428XL1'00' -	RESERVED FOR EXPANSION OF PSASTAK 06391003
				3973+*			(MDC304) @ZM32352 06395003
		01000		3974 PSALEN	EQU	*-PSA	Length of PSA

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				3976	CVT DSECT=YES,LIST=YES Communication Vector Table	
				3977+*	%CVTL1 : ;	00451001
				3978+*	/*	00500001
				3979+*	/* COMMUNICATION VECTOR TABLE	00700001
				3980+*	/*	00800001
				3981+*	/* OS/VS2 SU64, 04/24/80, LEVEL=6	00802003
				3982+*	/*	01000001
				3983+*	/* METHOD OF ACCESS	01001001
				3984+*	/* PL/S - DCL CVTPTR PTR	01002001
				3985+*	/* BAL - DSECT=YES SHOULD BE SPECIFIED ON MACRO CALL EXCEPT	01003001
				3986+*	/* WHEN CALLED DURING SYSGEN TO CREATE CSECT. CVT FOR	01004001
				3987+*	/* OS/VS2 IS MAPPED UNLESS SYS=AOS1 IS SPECIFIED. THE	01005002
				3988+*	/* PREFIX IS NOT MAPPED UNLESS PREFIX=YES IS SPECIFIED.	01006001
				3989+*	/* A USING ON CVTMAP OR DSECT NAME WILL ESTABLISH	01007001
				3990+*	/* ADDRESSABILITY FOR ALL SYMBOLS EXCEPT IN THE 2	01008001
				3991+*	/* EXTENSIONS. TO ESTABLISH ADDRESSABILITY FOR THE	01009001
				3992+*	/* OS - OS/VS COMMON EXTENSION, YOU SHOULD CODE	01010002
				3993+*	/*	01011001
				3994+*	/* L REG,CVTEXT1	01012001
				3995+*	/* USING CVTXTNT1,REG	01013001
				3996+*	/*	01014001
				3997+*	/* TO ESTABLISH ADDRESSABILITY FOR THE OS/VS1 - OS/VS2	01015002
				3998+*	/* COMMON EXTENSION, YOU SHOULD CODE	01016001
				3999+*	/*	01017001
				4000+*	/* L REG,CVTEXT2	01018001
				4001+*	/* USING CVTXTNT2,REG	01019001
				4002+*	/*	01020001
				4003+*	/* WHERE REG IN EITHER CASE IS ANY REGISTER OTHER	01021001
				4004+*	/* THAN ZERO.	01022001
				4005+*	/*	01023001
				4006+*	/* WHEN LISTING IS SUPPRESSED, YOU CAN DETERMINE WHICH	01024001
				4007+*	/* DSECT A SYMBOL IS IN BY USING THE STATEMENT NUMBER	01025001
				4008+*	/* IN THE DEFN COLUMN IN THE CROSS REFERENCE LISTING.	01026001
				4009+*	/* FOR EXAMPLE, ANY SYMBOL DEFINED BETWEEN THE	01027001
				4010+*	/* STATEMENT NUMBERS FOR CVTXTNT1 AND CVTXTNT2 IS IN	01028001
				4011+*	/* THE OS - OS/VS COMMON EXTENSION.	01029002
				4012+*	/*	01030001
				4013+*	/* F.E.'S	01031001
				4014+*	/* MICROFICHE LISTING - CVT	01032001
				4015+*	/*	01033001
				4016+*	/* DEVELOPERS	01034001
				4017+*	/* BAL LISTING - SPECIFY LIST=YES ON MACRO CALL	01035001
				4018+*	/* PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE INCLUDE	01035401
				4019+*	/*	01037001
				4020+*	/* FOR INTEGRATION, A LISTING MUST NOT BE REQUESTED UNLESS	01038001
				4021+*	/* YOUR MODULE CREATES THE CSECT.	01039001
				4022+*		01040001
				4023+*	%GOTO CVTL2; /*	01041001
				4024+*	PUSH PRINT	03102001
		00010		4025+*	CVTPTR EQU 16 - ABSOLUTE ADDRESS OF POINTER TO CVT	03200001
				4026+*		03366701
				4027+*	BEGINNING OF CVT PROPER	03400001
				4028+*		03500001
000000				4029+*	CVT DSECT , -	03560001
		00000		4030+*	CVTMAP EQU * - CVTPTR CONTENT POINTS HERE	04100001

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				4031+*		04300001
000000	00000000			4032+CVTTCBP DC	V(IEATCBP) - ADDRESS OF A DOUBLE WORD, THE FIRST	04400002
				4033+*	CONTAINING THE NEXT-TO-BE-DISPATCHED TCB	04400402
				4034+*	ADDRESS, THE SECOND CONTAINING THE LAST	04400802
				4035+*	(CURRENT) TCB ADDRESS. BOTH WORDS ARE	04401202
				4036+*	IDENTICAL UNLESS THE TASK GOES INTO A	04401602
				4037+*	WAIT STATE. WHEN IN A WAIT STATE, THE	04401702
				4038+*	FIRST WORD IS SET TO ZERO UNTIL THE	04401802
				4039+*	WAITING IS OVER AND THEN BOTH WORDS ARE	04401902
				4040+*	ONCE AGAIN IDENTICAL. (OS/VS1)	04406402
				4041+*	ADDRESS OF 4-WORD LIST OF ADDRESSES -	04411002
				4042+*	THE NEXT TCB, THE CURRENT TCB, THE NEXT	04415502
				4043+*	ASCB AND THE CURRENT ASCB, IN THAT	04420002
				4044+*	ORDER (OS/VS2) MDC026	04430002
000004	00000000			4045+CVT0EF00 DC	V(IEA0EF00) - ADDRESS OF ROUTINE TO SCHEDULE	04500002
				4046+*	ASYNCHRONOUS EXITS	04600002
000008	00000000			4047+CVTLINK DC	V(IEFLINK) - ADDRESS OF DCB FOR SYS1.LINKLIB DATA SET	04700002
00000C	00000000			4048+ DC	A(0) - ** CVTJOB FIELD UNUSED IN MVS **	04830004
				4049+*	(MDC083) @Z40AQ9A	04836004
000010	00000000			4050+CVTBUF DC	A(0) - ADDRESS OF THE BUFFER OF THE RESIDENT	04900002
				4051+*	CONSOLE INTERRUPT ROUTINE	05000002
000014	00000000			4052+CVTXAPG DC	V(IECXAPG) - ADDRESS OF I/O SUPERVISOR APPENDAGE VECTOR	05100002
				4053+*	TABLE	05150002
000018	00000000			4054+CVT0VL00 DC	V(IEA0VL00) - ADDRESS OF ENTRY POINT OF THE TASK	05200002
				4055+*	SUPERVISOR'S ADDRESS VALIDITY CHECKING	05250002
				4056+*	ROUTINE	05300002
00001C	00000000			4057+CVTPCNVT DC	V(IEPCNVT) - ADDRESS OF ENTRY POINT OF THE ROUTINE	05400002
				4058+*	WHICH CONVERTS A RELATIVE TRACK ADDRESS	05450002
				4059+*	(TTR) TO AN ABSOLUTE TRACK ADDRESS	05500002
				4060+*	(MBBCHHR)	05550002
000020	00000000			4061+CVTPRLTV DC	V(IECPRLTV) - ADDRESS OF ENTRY POINT OF THE ROUTINE	05600002
				4062+*	WHICH CONVERTS AN ABSOLUTE TRACK ADDRESS	05650002
				4063+*	(MBBCHHR) TO A RELATIVE TRACK ADDRESS	05700002
				4064+*	(TTR)	05750002
000024	00000000			4065+CVTILK1 DC	V(IECILK1) - ADDRESS OF THE CHANNEL AND CONTROL UNIT	05800002
				4066+*	PORTION OF THE UCB LOOKUP TABLE	05900002
000028	00000000			4067+CVTILK2 DC	V(IECILK2) - ADDRESS OF THE UCB HALFWORD ADDRESS LIST	06000002
				4068+*	PORTION OF THE UCB LOOKUP TABLE	06100002
00002C	00000000			4069+CVTXTLER DC	V(IECXTLER) - ADDRESS OF ERROR RECOVERY PROCEDURE (ERP)	06200004
				4070+*	LOADER (IECVERPL) ENTRY POINT IECXTLER	06250004
				4071+*	(MDC349) @Z40AQ9A	06300004
000030	00000000			4072+CVTSYSAD DC	A(0) - ADDRESS OF THE SYSTEM RESIDENCE VOLUME	06400002
				4073+*	ENTRY IN THE UCB LOOKUP TABLE	06500002
000034	00000000			4074+CVTBTERM DC	V(IEAVTRT1) - ADDRESS OF ENTRY POINT OF THE ABTERM	06630002
				4075+*	ROUTINE MDC084	06632002
000038	00000000			4076+CVTDATE DC	F'0' - CURRENT DATE IN PACKED DECIMAL	06700002
00003C	00000000			4077+CVTMSLT DC	V(IEEMSER) - ADDRESS OF THE MASTER COMMON AREA IN	07500002
				4078+*	MASTER SCHEDULER RESIDENT DATA AREA.	07550002
				4079+*	NOTE - USE CVTMSER INSTEAD TO ADDRESS	07600002
				4080+*	MASTER SCHEDULER RESIDENT DATA AREA	07650002
000040	00000000			4081+CVTZDTAB DC	V(IECZDTAB) - ADDRESS OF I/O DEVICE CHARACTERISTIC TABLE	08000002
000044	00000000			4082+CVTXITP DC	V(IECXITP) - ADDRESS OF ERROR INTERPRETER ROUTINE	08100002
000048	00000000			4083+ DC	A(0) - ** CVTDAR FIELD UNUSED IN MVS **	08398004
				4084+*	(MDC029) @Z40AQ9A	08398204
00004C	00000000			4085+CVT0FN00 DC	A(0) - RESERVED (OS/VS2)	09400002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000050	0A03			4086+CVTEXTIT	SVC	3 -	EXIT TO DISPATCHER 09700001
000052	07FE			4087+CVTBRET	BR	14 -	RETURN TO CALLER (USED BY DATA MANAGEMENT 09800002
				4088+*			ROUTINES) 09850002
000054	00000000			4089+CVTSVDCB	DC	V(IEASVDCB) -	ADDRESS OF THE DCB FOR THE SYS1.SVCLIB 09900002
				4090+*			DATA SET 09950002
000058	00000000			4091+CVTTPC	DC	V(IEATPC) -	ADDRESS OF THE TIMER SUPERVISOR WORK AREA 10700002
00005C				4092+CVTNIPSV	DS	H -	RESERVED MVS @ZA51978 11810003
00005E	0000			4093+CVTICPID	DC	H'0' -	IPL'ED CPU PHYSICAL ID @ZA51978 11840003
000060	00000000			4094+CVTSJQ	DC	A(0) -	RESERVED (OS/VS2) 11900002
000064	00000000			4095+CVTCUCB	DC	V(IEECUCB) -	ADDRESS OF THE TABLE THAT CONTAINS THE 12200002
				4096+*			CURRENT CONSOLE UCB ADDRESSES 12250002
000068	00000000			4097+CVTQTE00	DC	V(IEAQTE00) -	ADDRESS OF THE TIMER ENQUEUE ROUTINE FOR 13100002
				4098+*			INTERVAL TIMER 13200002
00006C	00000000			4099+CVTQTD00	DC	V(IEAQTD00) -	ADDRESS OF THE TIMER DEQUEUE ROUTINE FOR 13300002
				4100+*			INTERVAL TIMER 13400002
000070	00000000			4101+CVTSTB	DC	V(IECSTB) -	ADDRESS OF THE I/O DEVICE STATISTICS TABLE 13700002
000074	13			4102+CVTDCB	DC	XL1'13' -	OPERATING SYSTEM MDC132 16800002
		00080		4103+CVTRSV08	EQU	X'80',,C'X' -	RESERVED 16810001
		00040		4104+CVT1SSS	EQU	X'40' -	OPTION 1 (PCP) SSS 16900001
		00020		4105+CVT2SPS	EQU	X'20' -	OPTION 2 (MFT) SPS, OS/VS1 17000002
		00010		4106+CVT4MS1	EQU	X'10' -	OPTION 4 (MVT) MS1, OS/VS2 17100002
		00008		4107+CVTRSV09	EQU	X'08',,C'X' -	RESERVED 17110001
		00004		4108+CVT4MPS	EQU	X'04' -	MODEL 65 MULTIPROCESSING 17200001
		00002		4109+CVT6DAT	EQU	X'02' -	DYNAMIC ADDRESS TRANSLATION BY CPU 17250001
				4110+*			(OS/VS1, OS/VS2) 17260002
		00001		4111+CVTMVS2	EQU	X'01' -	MULTIPLE MEMORY OPTION OF OS/VS2 IS 17262002
				4112+*			PRESENT MDC131 17264002
		00012		4113+CVT8AOS2	EQU	CVT4MS1+CVT6DAT -	OS/VS2 SYSTEM 17270002
000075	000000			4114+CVTDCBA	DC	VL3(IFBDCB) -	ADDRESS OF THE DCB FOR THE SYS1.LOGREC 17300002
				4115+*			(OUTBOARD RECORDER) DATA SET FOR SYSTEM 17310002
				4116+*			ENVIRONMENT RECORDING (SER) 17320002
000078	00000000			4117+CVTSV76M	DC	F'0' -	SVC 76 MESSAGE COUNT FIELD (OS/VS2) 17330041
				4118+*			(MDC372) @ZA18857 17350041
00007C	00000000			4119+CVTIXAVL	DC	V(IECIXAVL) -	ADDRESS OF THE I/O SUPERVISOR'S FREELIST 17700002
				4120+*			POINTER WHICH CONTAINS THE ADDRESS OF THE 17750002
				4121+*			NEXT REQUEST ELEMENT (OS/VS1) 17760002
				4122+*			ADDRESS OF THE I/O SUPERVISOR'S 17770002
				4123+*			COMMUNICATION AREA (IOCOM) (OS/VS2) 17780002
000080	00000000			4124+CVTNUCB	DC	A(0) -	LOWEST ADDRESS NOT IN THE NUCLEUS (ON PAGE 17800002
				4125+*			BOUNDARY FOR OS/VS1) (ON SEGMENT BOUNDARY 17850003
				4126+*			FOR OS/VS2) (MDC318) @Z30AQ9A 17860003
000084	00000000			4127+CVTFBOSV	DC	A(0) -	ADDRESS OF PROGRAM FETCH ROUTINE 17930002
				4128+*			(MDC222) YM4043 17940002
000088	00000000			4129+CVT0DS	DC	V(IEA0DS) -	ADDRESS OF ENTRY POINT OF THE DISPATCHER 18000002
00008C	00000000			4130+CVTILCH	DC	V(IECILCH) -	ADDRESS OF THE LOGICAL CHANNEL WORD TABLE 18100002
000090	00000000			4131+CVTRV516	DC	A(0) -	** CVTIERLC FIELD UNUSED IN MVS ** 18600004
				4132+*			(MDC218) YM4043 18650004
000094	00000000			4133+CVTMSER	DC	V(IEEMSER) -	ADDRESS OF DATA AREA OF MASTER SCHEDULER 19000002
				4134+*			RESIDENT DATA AREA 19050002
000098	00000000			4135+CVT0PT01	DC	V(IEA0PT01) -	ADDRESS OF BRANCH ENTRY POINT OF POST 19400002
				4136+*			ROUTINE 19450002
00009C				4137+CVTRSV11	DS	A -	** CVTTRMTB FIELD UNUSED IN OS/VS ** 19500002
0000A0	00000000			4138+CVTSV76C	DC	XL4'00' -	SVC 76 MESSAGE CONTROL FIELD. HIGH-ORDER 19761041
				4139+*			BIT IS DEFINED, AND ALL OTHER BITS ARE 19762041
				4140+*			ZERO. (OS/VS2) (MDC373) @ZA18857 19762641

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
			00080	4141+CVTSV76Q EQU	X'80' -	SVC 76 ENQUEUE SWITCH. THIS IS THE 19764041
				4142+*		HIGH-ORDER BIT OF CVTSV76C. (OS/VS2) 19765041
				4143+*		(MDC374) @ZA18857 19766041
0000A4	00FFFFFF			4144+CVTMZ00 DC	X'00FFFFFF' -	HIGHEST ADDRESS IN VIRTUAL STORAGE FOR 19770002
				4145+*		THIS MACHINE 19772002
0000A8	00000000			4146+CVT1EF00 DC	A(0) -	ADDRESS OF ROUTINE WHICH CREATES IRB'S 19800001
				4147+*		FOR EXITS 19850001
0000AC	00000000			4148+CVTQOCR DC	A(0) -	GRAPHICS INTERFACE TASK (GFX) FIELD. 22300002
				4149+*		ADDRESS OF SEVENTH WORD OF GFX PARAMETER 22350002
				4150+*		LIST, IF GFX IS ACTIVE. ZERO IF GFX IS 22400002
				4151+*		NOT ACTIVE 22450002
0000B0	00000000			4152+CVTQMWR DC	V(IEFQMWR) -	ADDRESS OF QUEUE MANAGER'S SYSTEM OUTPUT 22700002
				4153+*		COMMUNICATIONS-DATA-AREA (CDA), WHICH IS 22750002
				4154+*		STORED ON AN EXTERNAL DEVICE 22800002
0000B4	0000			4155+CVTSNCTR DC	H'0' -	SERIAL NUMBER COUNTER FOR ASSIGNING SERIAL 22900002
				4156+*		NUMBERS TO NON-SPECIFIC, UNLABELED 22950002
				4157+*		MAGNETIC TAPE VOLUMES 22960002
0000B6	00			4158+CVTOPTA DC	AL1(00) -	OPTION INDICATORS 23000002
		00080		4159+CVTCCH EQU	X'80' -	CHANNEL CHECK HANDLER (CCH) OPTION PRESENT 23050002
				4160+*		- RECOVERY MANAGEMENT SUPPORT (RMS) XM4686 23100002
		00040		4161+CVTAPR EQU	X'40' -	ALTERNATE PATH RETRY (APR) OPTION PRESENT 23200002
				4162+*		- RECOVERY MANAGEMENT SUPPORT (RMS) 23250002
		00020		4163+CVTDDR EQU	X'20' -	DYNAMIC DEVICE RECONFIGURATION (DDR) 23350002
				4164+*		OPTION PRESENT - RECOVERY MANAGEMENT 23400002
				4165+*		SUPPORT (RMS) (OS/VS1) 23450002
				4166+*		DDR SYSTEM-INITIATED SWAP ACTIVE (OS/VS2) 23500002
				4167+*		MDC126 23550002
		00010		4168+CVTNIP EQU	X'10' -	NIP IS EXECUTING 23600002
		00008		4169+CVTRSV12 EQU	X'08' , , C'X' -	RESERVED 23610001
		00004		4170+CVT121TR EQU	X'04' , , C'X' -	DO NOT TRANSLATE EXCP V=R @ZA45816 23620003
		00002		4171+CVTASCII EQU	X'02' -	ASCII TAPE PROCESSING IS GENERATED IN 23650002
				4172+*		THIS SYSTEM 23660002
		00001		4173+CVTXPPF EQU	X'01' -	CPU HAS EXTENDED PRECISION FLOATING POINT 23700001
				4174+*		FEATURE 23750002
0000B7	00			4175+CVTOPTB DC	AL1(00) -	MISCELLANEOUS FLAGS 24100001
		00080		4176+CVTPROT EQU	X'80' -	CPU HAS STORE PROTECTION FEATURE (OS/VS1) 24200002
		00040		4177+CVTCTIMS EQU	X'40' -	IF ON, HARDWARE HAS THE CLOCK COMPARATOR 24200102
				4178+*		AND CPU TIMER FEATURE INSTALLED, AND 24200202
				4179+*		OS/VS1 SYSGEN HAS SPECIFIED THIS FEATURE 24200302
				4180+*		(OS/VS1) MDC127 24200402
		00020		4181+CVTTOD EQU	X'20' -	CPU HAS TIME-OF-DAY CLOCK FEATURE 24300002
		00010		4182+CVTNLOG EQU	X'10' -	SYS1.LOGREC IS UNAVAILABLE FOR ERROR 24310002
				4183+*		RECORDING. ALWAYS SET TO ZERO FOR 24320002
				4184+*		OS/VS1. MDC127 24322002
		00008		4185+CVTAPTHR EQU	X'08' -	NIP SETS THIS BIT TO 1 WHEN DEVICE TESTING 24330002
				4186+*		IS COMPLETE. IF 1, I/O SUPERVISOR USES 24332002
				4187+*		AN ALTERNATE PATH TO A DEVICE WHEN A 24334002
				4188+*		CONDITION CODE OF 3 EXISTS. THIS BIT IS 24336002
				4189+*		RESET TO 0 BY NIP AFTER THE LINK PACK 24338002
				4190+*		AREA IS INITIALIZED. YM2670 24338402
		00004		4191+CVTFP EQU	X'04' -	CPU HAS FETCH PROTECTION FEATURE (OS/VS1) 24340002
				4192+*		ICB427 24340402
		00002		4193+CVTVS1A EQU	X'02' -	VS1 ASSIST IS AVAILABLE FOR USE (OS/VS1) 24342006
				4194+*		(MDC353) @X60CA9A 24342606
		00001		4195+CVTVS1B EQU	X'01' -	VS1 ASSIST SUBSET IS AVAILABLE FOR USE 24343306

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				4196+*	(OS/VS1) (MDC365) @X60KU9A	24344006
0000B8	00000000			4197+CVTQCDSR DC	V(IEAQCDJR) - CDE SEARCH ROUTINE ADDRESS (OS/VS2)	26800002
0000BC	00000000			4198+CVTQLPAQ DC	V(IEAQLPAQ) - ADDRESS OF POINTER TO MOST RECENT ENTRY	26900001
				4199+*	ON LINK PACK AREA CDE QUEUE (OS/VS2)	26950002
0000C0	00000000			4200+CVTRSV18 DC	A(0) - ** CVTMPCVT FIELD UNUSED IN OS/VS **	27450002
0000C4	00000000			4201+CVTSMCA DC	A(0) - ADDRESS OF THE SYSTEM MANAGEMENT CONTROL	28900002
				4202+*	AREA (SMCA) IF THE SYSTEM MANAGEMENT	28950002
				4203+*	FACILITIES (SMF) OPTION IS PRESENT IN THE	28960002
				4204+*	SYSTEM. OTHERWISE, ZERO.	28970002
0000C8	00000000			4205+CVTABEND DC	V(IEABEND) - ADDRESS OF SECONDARY CVT FOR ABEND IN EOT	29400002
				4206+*	(OS/VS2)	29500002
0000CC	00000000			4207+CVTUSER DC	A(0) - A WORD AVAILABLE TO THE USER	30100002
0000D0	00000000			4208+CVTMDLDS DC	A(0) - RESERVED FOR MODEL-DEPENDENT SUPPORT	30700001
0000D4	0A0D			4209+CVTQABST SVC	13 - AN ABEND INVOCATION (OS/VS2)	30800002
0000D6	0A06			4210+CVTLNKSC SVC	6 - A LINK INVOCATION ICB369	30900002
0000D8	00000000			4211+CVTTSCE DC	A(0) - ADDRESS OF THE FIRST TIME SLICE CONTROL	31700002
				4212+*	ELEMENT (TSCE)	31750002
0000DC	00000000			4213+CVTPATCH DC	V(IEAPATCH) - ADDRESS OF A 200-BYTE FE PATCH AREA	32300002
0000E0	00000000			4214+CVTRMS DC	V(IGFRVT) - RECOVERY MANAGEMENT SUPPORT (RMS)	33050002
				4215+*	COMMUNICATIONS VECTOR. ADDRESS OF A	33052002
				4216+*	MACHINE STATUS BLOCK.	33054002
0000E4	00000000			4217+CVTRV515 DC	A(0) - ** CVTTSCVT FIELD UNUSED IN MVS **	33100004
				4218+*	(MDC037) @Z40AQ9A	33150004
0000E8	00000000			4219+CVT0SCR1 DC	A(0) - ADDRESS OF THE SECTOR CALCULATION ROUTINE	33570002
				4220+*	FOR ROTATIONAL POSITION SENSING (RPS)	33572002
0000EC				4221+CVTGTF DS	0A - GENERALIZED TRACE FACILITY (GTF) CONTROL	33630002
				4222+*	WORD ICB312	33650002
0000EC	00			4223+CVTGTFST DC	AL1(0) - GTF FLAG BYTES ICB312	33680001
		00080		4224+CVTGTFST EQU	X'80' - IF ZERO, GTF NOT ACTIVE. IF ONE, GTF	33709002
				4225+*	ACTIVE. (OS/VS2) MDC098	33710802
		00040		4226+CVTRV315 EQU	X'40',,C'X' - RESERVED (OS/VS2)	33712602
		00020		4227+CVTRV316 EQU	X'20',,C'X' - RESERVED (OS/VS2)	33714402
		00010		4228+CVTRV317 EQU	X'10',,C'X' - RESERVED (OS/VS2)	33716202
		00008		4229+CVTRV318 EQU	X'08',,C'X' - RESERVED (OS/VS2)	33718002
		00004		4230+CVTUSR EQU	X'04' - TRACE=USR SPECIFIED. USER-REQUESTED TRACE	33722103
				4231+*	DATA IS TO BE INCLUDED IN THE TRACE DATA	33722603
				4232+*	SET. (MDC317) @Z30AP9A	33723103
		00002		4233+CVTRNIO EQU	X'02' - GTF IS ACTIVE AND TRACING RNIO EVENTS	33723602
				4234+*	MDC187	33724002
		00001		4235+CVTRSV27 EQU	X'01',,C'X' - RESERVED	33725202
0000ED	000000			4236+CVTGTFDC	VL3(AHLHEAD) - ADDRESS OF MAIN MONITOR CALL ROUTING	33736002
				4237+*	TABLE, MCHEAD (OS/VS2) MDC156	33737802
0000F0				4238+CVTAQAVT DS	0A - ADDRESS OF THE FIRST WORD OF THE TCAM	33741402
				4239+*	DISPATCHER WHICH CONTAINS THE ADDRESS OF	33751402
				4240+*	THE ADDRESS VECTOR TABLE (AVT). IF ZERO,	33761402
				4241+*	TCAM IS NOT STARTED.	33763402
0000F0	00			4242+CVTTCMFG DC	X'00' - TCAM FLAGS	33766701
		00080		4243+CVTTCDY EQU	X'80' - TCAM IS READY TO ACCEPT USERS	33800002
		00040		4244+CVTLDEV EQU	X'40' - LOCAL DEVICE ATTACHED TO TCAM	33805040
				4245+*	(MDC357) @Z40XA9A	33810040
		00020		4246+CVTRSV29 EQU	X'20',,C'X' - RESERVED	33820001
		00010		4247+CVTRSV30 EQU	X'10',,C'X' - RESERVED	33830001
		00008		4248+CVTRSV31 EQU	X'08',,C'X' - RESERVED	33840001
		00004		4249+CVTRSV32 EQU	X'04',,C'X' - RESERVED	33842001
		00002		4250+CVTRSV33 EQU	X'02',,C'X' - RESERVED	33844001

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00001	4251+CVTRSV34	EQU	X'01',,C'X' - RESERVED	33846001
0000F1	000000			4252+CVTAQAVB	DC	AL3(0) - SAME AS CVTAQAVT ABOVE	33850002
0000F4				4253+CVTVOLM2	DS	0A - ADDRESS OF TABLE FOR POWER WARNING FEATURE	35686003
				4254+*		(PWF) (OS/VS2) (MDC308) @Z30AQ9A	35689003
0000F4	80			4255+CVTVOLF2	DC	X'80' - PWF FLAG BYTE. THIS BYTE IS OVERLAID BY	35692803
				4256+*		CVTVOLM2 AFTER PWF INITIALIZATION.	35693603
				4257+*		(OS/VS2) (MDC309) @Z30AQ9A	35694403
			00080	4258+CVTVOLI2	EQU	X'80' - PWF INITIALIZATION HAS NOT OCCURRED	35695203
				4259+*		(OS/VS2) (MDC310) @Z30AQ9A	35696103
0000F5	000000			4260+CVTVOLT2	DC	AL3(0) - PWF RECHECK TIME DELAY. THIS VALUE IS	35697003
				4261+*		OVERLAID BY CVTVOLM2 AFTER PWF	35697903
				4262+*		INITIALIZATION. (OS/VS2) (MDC311) @Z30AQ9A	35698803
0000F8	00000000			4263+	DC	A(0) - RESERVED (OS/VS2)	35700002
0000FC	00000000			4264+CVTEXT1	DC	A(CVTXTNT1) - ADDRESS OF OS - OS/VS COMMON EXTENSION	35710002
				4265+*		ICB421	35712002
000100	00000000			4266+CVTCBSP	DC	A(0) - ADDRESS OF ACCESS METHOD CONTROL BLOCK	35760002
				4267+*		STRUCTURE MDC195	35790002
000104				4268+CVTPURG	DS	0A - ADDRESS OF SUBSYSTEM PURGE ROUTINE	ICB330 35800002
000104				4269+CVTRSV35	DS	XL1 - RESERVED	ICB330 35802001
000105	000000			4270+CVTPURGA	DC	AL3(0) - ADDRESS OF SUBSYSTEM PURGE ROUTINE	ICB330 35804001
000108	00000000			4271+CVTAMFF	DC	XL4'00' - RESERVED FOR ACCESS METHOD FLAGS	ICB436 35810001
00010C				4272+CVTQMSG	DS	0A - ADDRESS OF INFORMATION TO BE PRINTED	35820002
				4273+*		BY ABEND ICB307	35822001
00010C				4274+CVTRSV36	DS	XL1 - RESERVED	ICB307 35824001
00010D	000000			4275+CVTQMSG	DC	VL3(IEAQMSG) ADDRESS OF INFORMATION TO BE PRINTED	35826001
				4276+*		BY ABEND ICB449	35828001
000110				4277+CVTDMSR	DS	0A - SAME AS CVTDMSRA BELOW	ICB346 35830001
000110	00			4278+CVTDMSRF	DC	XL1'00' - OPEN/CLOSE/EOV FLAG BYTE. SETTING BOTH	35845204
				4279+*		BIT 0 AND BIT 1 ON WILL CAUSE BOTH KINDS	35845604
				4280+*		OF DUMPS TO BE TAKEN. THESE BITS ARE USED	35846004
				4281+*		DURING TESTING AND DEBUGGING WHEN OTHER	35846404
				4282+*		DEBUG METHODS ARE INEFFECTIVE. (OS/VS2)	35846804
				4283+*		(MDC350) @Z40AQ9A	35847204
			00080	4284+CVTSDUMP	EQU	X'80' - SET BY COREZAP. WILL CAUSE AN SDUMP TO BE	35847604
				4285+*		TAKEN AND IEC999I MESSAGE ISSUED FOR EVERY	35848004
				4286+*		ABEND ISSUED WITHIN AN OPEN/CLOSE/EOV OR	35848404
				4287+*		DADSM FUNCTION. (OS/VS2) (MDC351) @Z40AQ9A	35848804
			00040	4288+CVTUDUMP	EQU	X'40' - SET BY COREZAP. WILL CAUSE AN ABEND DUMP	35849204
				4289+*		TO BE TAKEN FOR EVERY ABEND ISSUED WITHIN	35849604
				4290+*		AN OPEN/CLOSE/EOV OR DADSM FUNCTION.	35850004
				4291+*		(OS/VS2) (MDC352) @Z40AQ9A	35850404
			00020	4292+CVTRV629	EQU	X'20',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35850804
			00010	4293+CVTRV630	EQU	X'10',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35851204
			00008	4294+CVTRV631	EQU	X'08',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35851604
			00004	4295+CVTRV632	EQU	X'04',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852004
			00002	4296+CVTRV633	EQU	X'02',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852404
			00001	4297+CVTRV634	EQU	X'01',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852804
000111	000000			4298+CVTDMSRA	DC	AL3(0) - ADDRESS OF THE OPEN/CLOSE/EOV SUPERVISORY	35853804
				4299+*		ROUTINE IN THE NUCLEUS. THIS ROUTINE	35854204
				4300+*		HANDLES THE ROUTING OF CONTROL AMONG THE	35854602
				4301+*		I/O SUPPORT ROUTINES. ICB346	35856602
000114				4302+CVTRSV38	DS	F - RESERVED	35873002
000118				4303+CVTRSV39	DS	F - RESERVED	35882002
				4304+*			35891002
				4305+*		OS/VS1 - OS/VS2 COMMON SECTION	35900002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				4306+*			35950001
00011C	00000000			4307+CVTREAL	DC	A(0) - ADDRESS OF THE VIRTUAL STORAGE BYTE	35960001
				4308+*		FOLLOWING THE HIGHEST VIRTUAL=REAL	35970001
				4309+*		STORAGE ADDRESS	ICB368 35972001
000120	00000000			4310+CVTPTRV	DC	V(IEAPTRV) - ADDRESS OF PAGING SUPERVISOR GENERAL	35980001
				4311+*		ROUTINE TO TRANSLATE REAL ADDRESSES TO	35990001
				4312+*		VIRTUAL ADDRESSES	35992002
000124	00000000			4313+	DC	A(0) - RESERVED (WAS CVTMODE) (OS/VS2)	36003202
				4314+*		(MDC217)	YM4244 36003602
000128	00000000			4315+CVTJESCT	DC	V(IEFJESCT) - ADDRESS OF JOB ENTRY SUBSYSTEM (JES)	36004102
				4316+*		CONTROL TABLE	ICB342 36005202
00012C				4317+	DS	A - RESERVED (WAS CVTJEPS) (OS/VS2)	YM2702 36005402
000130	00000000			4318+CVTTZ	DC	F'0' - DIFFERENCE BETWEEN LOCAL TIME AND	36008002
				4319+*		GREENWICH MEAN TIME IN BINARY UNITS OF	36009302
				4320+*		1.048576 SECONDS	36010602
000134				4321+CVTMCHPR	DS	A - ADDRESS OF MACHINE CHECK PARAMETER LIST	36011902
000138	00000000			4322+CVTEORM	DC	A(0) - POTENTIAL REAL HIGH STORAGE	YM3613 36021602
				4323+*		ADDRESS (OS/VS2)	YM3613 36021902
00013C	00000000			4324+CVTRV517	DC	A(0) - ** CVTERPV FIELD UNUSED IN MVS **	36022204
				4325+*		(MDC219)	YM4043 36022604
000140	00000000			4326+CVTRV518	DC	A(0) - ** CVTINTLA FIELD UNUSED IN MVS **	36023004
				4327+*		(MDC220)	YM4043 36023404
000144				4328+CVTAPF	DS	0A - SAME AS CVTAPFA BELOW	ICB360 36041802
000144				4329+CVTRSV40	DS	X - RESERVED	ICB360 36043102
000145	000000			4330+CVTAPFA	DC	VL3(IEAVTEST) ADDRESS OF BRANCH ENTRY POINT IN	36044402
				4331+*		AUTHORIZED PROGRAM FACILITY (APF) ROUTINE	36045702
000148				4332+CVTEXT2	DS	0A - ADDRESS OF OS/VS1 - OS/VS2 COMMON	36047002
				4333+*		EXTENSION	ICB330 36047602
000148				4334+CVTRSV41	DS	XL1 - RESERVED	ICB330 36048302
000149	000000			4335+CVTEXT2A	DC	AL3(CVTXTNT2) SAME AS CVTEXT2 ABOVE	ICB330 36049602
00014C				4336+CVTHJES	DS	0A - SAME AS CVTHJESA BELOW	ICB454 36050902
00014C				4337+CVTRSV42	DS	X - RESERVED	ICB454 36052202
00014D	000000			4338+CVTHJESA	DC	AL3(0) - ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM	36053502
				4339+*		(JES) COMMUNICATION VECTOR TABLE	ICB454 36054102
000150				4340+CVTRSV43	DS	H - RESERVED	36054802
000152				4341+CVTRSV44	DS	H - RESERVED	36056102
000154				4342+CVTRSV45	DS	F - RESERVED	36057402
000158				4343+CVTRSV46	DS	F - RESERVED	36058702
				4344+*			36133602
				4345+*		OS/VS2 OVERLAY	36133902
				4346+*			36134302
00015C	00000000			4347+CVTGETL	DC	A(0) - ADDRESS OF IKJGETL, TSO GET LINE ROUTINE	36134602
				4348+*		(MDC206)	YM2225 36135002
000160	00000000			4349+CVTLPSDR	DC	V(IEAVMSR) - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY	36135702
				4350+*		SEARCH ROUTINE	36136402
000164	00000000			4351+CVTPVTP	DC	V(CSECPVT) - ADDRESS OF PAGE VECTOR TABLE	36137102
000168				4352+CVTLPDIA	DS	0A - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY	36137802
				4353+*		(ON PAGE BOUNDARY)	36138102
000168				4354+CVTDIRST	DS	B - FLAG BYTE	36138502
		00080		4355+CVTDICOM	EQU	X'80' - LPA DIRECTORY HAS BEEN INITIALIZED BY NIP	36139202
		00040		4356+CVTRSV63	EQU	X'40',,C'X' - RESERVED	36139902
		00020		4357+CVTRSV64	EQU	X'20',,C'X' - RESERVED	36140602
		00010		4358+CVTRSV65	EQU	X'10',,C'X' - RESERVED	36141302
		00008		4359+CVTRSV66	EQU	X'08',,C'X' - RESERVED	36141702
		00004		4360+CVTRSV67	EQU	X'04',,C'X' - RESERVED	36142102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00002	4361+CVTRSV68	EQU	X'02',,C'X' - RESERVED	36143202
			00001	4362+CVTRSV69	EQU	X'01',,C'X' - RESERVED	36143302
000169				4363+CVTLPPDIR	DS	AL3 - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY (ON PAGE BOUNDARY)	36144002 36144702
00016C	00000000			4365+CVTPSAD0	DC	V(IGFPSAD0) - PSA PROTECT DISABLE (MDC393) @ZA36872	36145364
000170	00000000			4366+CVTPSAE0	DC	V(IGFPSAE0) - PSA PROTECT ENABLE (MDC394) @ZA36872	36146264
000174				4367+CVTSLIDA	DS	0CL4 - IDENTITY OF TCB CAUSING SUPERVISOR LOCK	36148002
				4368+*		BYTE (CVTSYLK) TO BE SET OR IDENTITY OF	36148302
				4369+*		TCB THAT SECOND EXIT PROCESSING IS FOR	36148702
				4370+*		WHEN CVTSEIC=1	36149402
000174				4371+CVTSYLK	DS	C - SUPERVISOR LOCK. ONLY ENABLED TASKS MAY	36150102
				4372+*		BE DISPATCHED	36150802
		000FF		4373+CVTSYLKS	EQU	X'FF' - SET LOCK BYTE	36151502
		00000		4374+CVTSYLKR	EQU	X'00' - RESET LOCK BYTE	36152202
000175				4375+CVTSLID	DS	CL3 - SAME AS CVTSLIDA ABOVE	36152502
000178	00000000			4376+CVTRV322	DC	A(0) - RESERVED FOR FUTURE USE (MDC343) @Z40AQ9A	36152904
00017C	00000000			4377+CVTRV328	DC	A(0) - ** CVTSEG AND CVTSEGA FIELDS UNUSED IN	36154302
				4378+*		MVS ** (MDC139) @Z40AQ9A	36155004
000180	00000000			4379+CVTVLDWT	DC	V(IEEVLDWT) - ADDRESS OF STOP/RESTART INTERFACE ROUTINE	36155464
				4380+*		(MDC392) @G64UP9A	36155864
000184	01312D00			4381+CVTEXSLF	DC	F'20000000' - EXCESSIVE SPIN LENGTH FACTOR	36156764
				4382+*		(MDC385) @G64UP9A	36157164
000188	00000000			4383+CVTEXSNR	DC	V(IEEVEXSN) - ADDRESS OF EXCESSIVE SPIN NOTIFICATION	36157564
				4384+*		ROUTINE (MDC386) @G64UP9A	36157964
00018C	00			4385+CVTEXSNL	DC	XL1'00' - SERIALIZATION BYTE FOR EXCESSIVE SPIN	36158364
				4386+*		NOTIFICATION ROUTINE (MDC387) @G64UP9A	36158764
00018D				4387+CVTSPVLK	DS	FL1 - NUMBER OF TASKS WHICH HAVE TERMINATED	36159902
				4388+*		WHILE OWNING SUPERVISOR LOCK WITHOUT	36160202
				4389+*		OPERATOR HAVING YET BEEN NOTIFIED	36160602
00018E	00			4390+CVTCTLFG	DC	AL1(00) SYSTEM CONTROL FLAGS	36161302
		00080		4391+CVTRV323	EQU	X'80',,C'X' - ** CVTPSIC BIT UNUSED IN MVS **	36162004
				4392+*		(MDC118) @Z40AQ9A	36162404
		00040		4393+CVTRV333	EQU	X'40',,C'X' - ** CVTAPGB BIT UNUSED IN MVS **	36162804
				4394+*		(MDC151) @Z40AQ9A	36163204
		00020		4395+CVTRSV78	EQU	X'20',,C'X' - RESERVED	36164402
		00010		4396+CVTDSTAT	EQU	X'10' - DEVSTAT OPTION IN EFFECT. DEVICE ADDRESS	36164802
				4397+*		FOR 2319, 3330, 2314, 3330-1, 3340 CAN	36165502
				4398+*		VARY ACROSS SYSTEMS MDC189	36166202
		00008		4399+CVTRSV79	EQU	X'08',,C'X' - RESERVED	36166902
		00004		4400+CVTNOMP	EQU	X'04' - MULTIPROCESSING CODE IS NOT IN THE SYSTEM	36167602
				4401+*		MDC176	36168302
		00002		4402+CVTGTRCE	EQU	X'02' - GENERALIZED TRACE FACILITY (GTF) HAS	36169002
				4403+*		SUPPRESSED SUPERVISOR TRACE ICB446	36169302
		00001		4404+CVTSDTRC	EQU	X'01' - SVC DUMP HAS SUPPRESSED SUPERVISOR TRACE	36169702
				4405+*		ICB446	36170402
00018F	07			4406+CVTAPG	DC	FL1'7' - DISPATCHING PRIORITY OF AUTOMATIC PRIORITY	36171102
				4407+*		GROUP (APG) MDC152	36171802
000190	07FB			4408+CVTTRACE	BR	11 - BRANCH ON REGISTER INSTRUCTION. SET BY	36172502
				4409+*		NIP. REGISTER TEN FOR TRACE. REGISTER	36173202
				4410+*		ELEVEN FOR NO TRACE.	36173502
000192	07FB			4411+CVTTRAC2	BR	11 - THIS ALLOWS FOR SUPPRESSING TRACE	36173902
				4412+*		DYNAMICALLY BY SETTING CONDITION CODE	36174602
				4413+*		MASK TO ZERO IN FIRST INSTRUCTION	36175302
				4414+*		(CVTTRACE)	36176002
000194	00000000			4415+CVTRSCN	DC	V(IEATRSCN) - ADDRESS OF ROUTINE TO SCAN TCB TREE	36176702

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000198	000000000			4416+CVTTAS	DC	A(0) -	ADDRESS OF ROUTINE TO TRANSFER ADDRESS 36177402
				4417+*			SPACE YM2706 36177702
00019C	000000000			4418+CVTRV332	DC	A(0) -	** CVTPVALD FIELD UNUSED IN MVS ** 36178104
				4419+*			(MDC148) @Z40AQ9A 36178504
0001A0				4420+CVTSHRVM	DS	A -	LOWEST ADDRESS OF SHARED VIRTUAL STORAGE 36179502
				4421+*			AREA. THIS ADDRESS WILL BE THE BEGINNING 36180203
				4422+*			OF THE COMMON SERVICE AREA (CSA) 36180903
				4423+*			(MDC324) @Z30AQ9A 36182603
0001A4	000000000			4424+CVT0VL01	DC	V(IEA0VL01) -	ENTRY POINT ADDRESS OF VALIDITY CHECK 36183102
				4425+*			ROUTINE (IEA0VL01) USED TO COMPARE 36183602
				4426+*			PROTECT KEY OF AN ADDRESS WITH TCB 36184102
				4427+*			PROTECT KEY 36184602
0001A8	000000000			4428+CVTPPGMX	DC	V(IEAPPGMX) -	ADDRESS OF A BRANCH ENTRY POINT @ZA58427 36184903
				4429+*			TO PROGRAM MANAGER RESOURCE @ZA58427 36185203
				4430+*			MANAGEMENT ROUTINES @ZA58427 36185503
0001AC	000000000			4431+CVTRV325	DC	A(0) -	** CVTPFIXR FIELD UNUSED IN MVS ** 36185904
				4432+*			(MDC120) @Z40AQ9A 36186304
0001B0	000000000			4433+CVTRV326	DC	A(0) -	** CVTPFIXP FIELD UNUSED IN MVS ** 36186704
				4434+*			(MDC121) @Z40AQ9A 36187104
0001B4	000000000			4435+CVTASCRF	DC	A(0) -	CREATED ASCB QUEUE HEADER 36188104
				4436+*			(MDC337) @ZA04120 36188504
0001B8	000000000			4437+CVTASCRL	DC	A(0) -	CREATED ASCB QUEUE TRAILER 36188904
				4438+*			(MDC338) @ZA04120 36189304
0001BC	000000000			4439+CVTPUTL	DC	A(0) -	ADDRESS OF IKJPUTL, TSO PUT LINE ROUTINE 36190302
				4440+*			(MDC207) YM2225 36190602
0001C0	000000000			4441+CVTSRBRT	DC	V(IEAPDSRT) -	DISPATCHER RETURN ADDRESS FOR SRB ROUTINES 36191602
				4442+*			MDC130 36192102
0001C4	000000000			4443+CVTOLT0A	DC	V(IFDOLT0A) -	BRANCH ENTRY TO OLTEP MEMORY TERMINATION 36192602
				4444+*			RESOURCE MANAGER MDC129 36193102
0001C8	000000000			4445+CVTSMFEX	DC	V(IEASMFEX) -	BRANCH ENTRY TO SYSTEM MANAGEMENT 36193602
				4446+*			FACILITIES (SMF) EXCP COUNTING ROUTINE 36194102
				4447+*			FOR VAM WINDOW INTERCEPT MDC133 36194602
0001CC	000000000			4448+CVTCSPIE	DC	A(0) -	FOR CHECKPOINT/RESTART, BRANCH ENTRY TO 36195102
				4449+*			SPIE MDC149 36195602
0001D0	000000000			4450+CVTPTGT	DC	A(0) -	ADDRESS OF IKJPTGT, TSO PUTGET ROUTINE 36196102
				4451+*			(MDC208) YM2225 36215602
0001D4				4452+CVTIOSPL	DS	FL1 -	PRIORITY LEVEL OF I/O SUPERVISOR CHANNEL 36219102
				4453+*			SCHEDULER MDC019 36219602
0001D5				4454+CVTRV513	DS	XL1 -	RESERVED MDC165 36220102
0001D6	00			4455+CVTDSSAC	DC	XL1'00' -	DYNAMIC SUPPORT SYSTEM (DSS) ACTIVATED 36220602
				4456+*			FLAG - USED BY RESTART FLIH. IF X'00', 36223002
				4457+*			DSS NOT INITIALIZED. IF X'FF', DSS HAS 36223502
				4458+*			BEEN INITIALIZED. MDC163 36224002
0001D7				4459+CVTRV139	DS	XL1 -	RESERVED 36224502
0001D8	000000000			4460+CVTSTCK	DC	A(0) -	ADDRESS OF IKJSTCK, TSO STACK ROUTINE 36224702
				4461+*			(MDC209) YM2225 36225002
0001DC	0001			4462+CVTMAXMP	DC	H'1' -	FOR MEASUREMENT FACILITY (MF/1), MAXIMUM 36226502
				4463+*			PHYSICAL CPU ADDRESS SUPPORTED BY THIS 36227002
				4464+*			RELEASE MDC165 36227502
0001DE				4465+CVTRV144	DS	H -	RESERVED 36228002
0001E0	000000000			4466+CVTSCAN	DC	A(0) -	ADDRESS OF IKJSCAN, TSO SCAN ROUTINE 36228202
				4467+*			(MDC210) YM2225 36228502
0001E4				4468+CVTAUTHL	DS	A -	POINTER TO AUTHORIZED LIBRARY TABLE MDC001 36229502
0001E8	000000000			4469+CVTBLDCP	DC	V(IEAVBLDP) -	BRANCH ENTRY TO BUILD POOL MDC003 36230002
0001EC	000000000			4470+CVTGETCL	DC	V(IEAVGTCL) -	BRANCH ENTRY TO GET CELL MDC004 36231602

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0001F0	00000000			4471+CVTFRECL	DC	V(IEAVFRCL) - BRANCH ENTRY TO FREE CELL	MDC005 36232502
0001F4	00000000			4472+CVTDELCP	DC	V(IEAVDELP) - BRANCH ENTRY TO DELETE POOL	MDC006 36232902
0001F8	00000000			4473+CVTCRMN	DC	V(CRBRANCH) - BRANCH ENTRY TO SVC 120 (GETMAIN/FREEMAIN	36233402
				4474+*		CRBRANCH)	MDC007 36234302
0001FC	00000000			4475+CVTCRAS	DC	V(IEAVGCAS) - BRANCH ENTRY TO 'CREATE ADDRESS SPACE'	36234702
				4476+*			MDC008 36235202
000200	00000000			4477+CVTQSAS	DC	V(IEAQSPET) - BRANCH ENTRY TO TASK TERMINATION	MDC009 36236102
000204	00000000			4478+CVTFRAS	DC	V(IEAVGFAS) - BRANCH ENTRY TO 'FREE ADDRESS SPACE'	36236502
				4479+*			MDC010 36237002
000208	00000000			4480+CVTS1EE	DC	V(IGC043BR) - BRANCH ENTRY TO STAGE 1 EXIT EFFECTOR	36238002
				4481+*			MDC011 36238602
00020C	00000000			4482+CVTPARS	DC	A(0) - ADDRESS OF IKJPARS, TSO PARSE ROUTINE	36238802
				4483+*		(MDC211)	YM2225 36239702
000210	00000000			4484+CVTQUIS	DC	V(IEAVAR02) - BRANCH ENTRY TO QUIESCE	MDC013 36240602
000214	00000000			4485+CVTSTXU	DC	A(0) - BRANCH ENTRY TO ATTENTION EXIT EPILOGUE	36241103
				4486+*		(MDC321)	@Z30HP9A 36241603
000218	00000000			4487+CVTOPT	DC	V(IRARMI00) - BRANCH ENTRY ADDRESS TO SYSEVENT	MDC015 36242102
00021C				4488+CVTSDRM	DS	A - BRANCH ENTRY ADDRESS OF THE RESOURCE	36242602
				4489+*		MANAGER ROUTINE FOR SVC DUMP. THIS	36243102
				4490+*		ROUTINE CAN BE INVOKED BY MEMORY	36243602
				4491+*		TERMINATION	MDC077 36244102
000220				4492+CVTIOSCS	DS	A - ENTRY POINT OF I/O SUPERVISOR CHANNEL	36244602
				4493+*		SCHEDULER	MDC018 36245102
000224	00000000			4494+CVTAQTOP	DC	V(IEFAQTOP) - POINTER TO AREA CONTAINING QUIESCE	36245602
				4495+*		DESCRIPTOR BLOCK (QDB'S) FOR DEVICE	36246102
				4496+*		ALLOCATION	MDC021 36246602
000228				4497+CVTVVMDI	DS	A - CONSTANT USED BY PAGED LINK PACK AREA	36247102
				4498+*		(LPA) DIRECTORY SEARCH ALGORITHM	MDC022 36247602
00022C				4499+CVTASVT	DS	A - POINTER TO ADDRESS SPACE VECTOR TABLE	36248102
				4500+*		(ASVT)	MDC070 36248602
000230				4501+CVTGDA	DS	A - POINTER TO GLOBAL DATA AREA (GDA) IN SQA	36249102
				4502+*			MDC024 36249602
000234	00000000			4503+CVTASCBH	DC	V(IEAMASCB) - POINTER TO HIGHEST PRIORITY ADDRESS SPACE	36250102
				4504+*		CONTROL BLOCK (ASCB) ON THE ASCB	36253002
				4505+*		DISPATCHING QUEUE (HEAD OF ASCB QUEUE)	36253502
				4506+*			MDC027 36253702
000238	00000000			4507+CVTASCBL	DC	V(IEAMASCB) - POINTER TO LOWEST PRIORITY ASCB ON THE	36254040
				4508+*		ASCB DISPATCHING QUEUE (MDC339)	@Z40WP9A 36254440
00023C				4509+CVTRTMCT	DS	A - POINTER TO RECOVERY/TERMINATION CONTROL	36255402
				4510+*		TABLE	MDC031 36255902
000240				4511+CVTSV60	DS	A - ADDRESS OF SVC 60 BRANCH ENTRY POINT	36256402
				4512+*		(MDC354)	@Z40FP9A 36256904
000244	00000000			4513+CVTSDMP	DC	V(IEAVTSDX) - ADDRESS OF SVC DUMP BRANCH ENTRY POINT	36257402
				4514+*			MDC033 36257902
000248	00000000			4515+CVTSCBP	DC	V(IEAVTSBP) - ADDRESS OF SCB PURGE RESOURCE MANAGER	36258402
				4516+*			MDC034 36258902
00024C	80000000			4517+CVTSDBF	DC	X'80000000' - ADDRESS OF 4K SQA BUFFER USED BY SVC	36259402
				4518+*		DUMP. HIGH-ORDER BIT OF THIS CVT WORD	36260702
				4519+*		IS USED AS LOCK TO INDICATE BUFFER IS	36261402
				4520+*		IN USE	MDC035 36261902
000250	00000000			4521+CVTRTMS	DC	A(0) - ADDRESS OF SERVICABILITY LEVEL INDICATOR	36262141
				4522+*		PROCESSING (SLIP) HEADER (MDC358)	@G17SP9A 36262441
000254				4523+CVTTPIOS	DS	A - ADDRESS OF THE TELEPROCESSING I/O	36263402
				4524+*		SUPERVISOR ROUTINE (TPIOS)	MDC078 36263902
000258				4525+CVTSIC	DS	A - BRANCH ADDRESS OF THE ROUTINE TO SCHEDULE	36264402

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				4526+*	SYSTEM INITIALIZED CANCEL	MDC042 36264902
00025C	00000000			4527+CVTOPCTP DC	V(IRARMCNS) - ADDRESS OF SYSTEM RESOURCES MANAGER (SRM)	36265402
				4528+*	CONTROL TABLE	MDC043 36265902
000260	00000000			4529+CVTEXPRO DC	V(IEAVEXPR) - ADDRESS OF EXIT PROLOGUE/TYPE 1 EXIT	36266402
				4530+*		MDC044 36266902
000264	00000000			4531+CVTGSMQ DC	V(IEAGSMQ) - ADDRESS OF GLOBAL SERVICE MANAGER QUEUE	36267402
				4532+*		MDC045 36267902
000268	00000000			4533+CVTLSTMQ DC	V(IEALSMQ) - ADDRESS OF LOCAL SERVICE MANAGER QUEUE	36268402
				4534+*		MDC046 36268902
00026C	00000000			4535+CVTGSPL DC	V(IEAGSPL) - ADDRESS OF GLOBAL SYSTEM PRIORITY LIST	36269402
				4536+*	QUEUE	MDC047 36269902
000270	00000000			4537+CVTVWAIT DC	V(IEAVWAIT) - ADDRESS OF WAIT ROUTINE	MDC048 36270402
000274	00000000			4538+CVTPARRL DC	V(IEAPPGMA) - ADDRESS OF PARTIALLY LOADED DELETE QUEUE	36270902
				4539+*		MDC049 36271402
000278				4540+CVTAPFT DS	A - ADDRESS OF AUTHORIZED PROGRAM FACILITY	36271902
				4541+*	(APF) TABLE. INITIALIZED BY NIP.	MDC050 36272402
00027C	00000000			4542+CVTQCS01 DC	V(IEAQCS01) - BRANCH ENTRY ADDRESS TO PROGRAM MANAGER	36272902
				4543+*	USED BY ATTACH	MDC051 36273402
000280				4544+CVTFQCB DS	A - POINTER TO FIRST MAJOR QCB FOR ENQ	MDC052 36273902
000284				4545+CVTLQCB DS	A - POINTER TO LAST MAJOR QCB FOR ENQ	MDC053 36277002
000288	00000000			4546+CVTRENQ DC	V(IEAVENQ2) - RESOURCE MANAGER ADDRESS FOR ENQ	MDC054 36277602
00028C	00000000			4547+CVTRSPIE DC	A(0) - RESOURCE MANAGER FOR SPIE	MDC055 36278202
000290	00000000			4548+CVTLKRMA DC	V(IEAVELRM) - RESOURCE MANAGER ADDRESS FOR LOCK MANAGER	36278802
				4549+*		MDC056 36279402
000294				4550+CVTCSD DS	A - VIRTUAL ADDRESS OF COMMON SYSTEM DATA AREA	36280002
				4551+*	(CSD). INITIALIZED BY NIP.	MDC057 36280602
000298	00000000			4552+CVTDQIQE DC	V(IEADQIQE) - RESOURCE MANAGER FOR EXIT EFFECTORS	MDC058 36281202
00029C	00000000			4553+CVTRPOST DC	V(IEARPOST) - RESOURCE MANAGER FOR POST	MDC059 36281802
0002A0	00000000			4554+CVT062R1 DC	V(IGC062R1) - BRANCH ENTRY TO DETACH	MDC060 36282402
0002A4	00000000			4555+CVTVEAC0 DC	V(IEAVEAC0) - ASCBCHAP BRANCH ENTRY	MDC061 36283002
0002A8	00000000			4556+CVTGLMN DC	V(GLBRANCH) - GLOBAL BRANCH ENTRY ADDRESS FOR	36283602
				4557+*	GETMAIN/FREEMAIN	MDC062 36284202
0002AC	00000000			4558+CVTSPSA DC	V(IEAVGWSA) - POINTER TO GLOBAL WORK/SAVE AREA VECTOR	36284802
				4559+*	TABLE (WSAG)	MDC071 36285402
0002B0	00000000			4560+CVTWSAL DC	V(IEAVWSAL) - ADDRESS OF TABLE OF LENGTHS OF LOCAL	36286002
				4561+*	WORK/SAVE AREAS	MDC072 36286602
0002B4	00000000			4562+CVTWSAG DC	V(IEAVWSAG) - ADDRESS OF TABLE OF LENGTHS OF GLOBAL	36286964
				4563+*	WORK/SAVE AREAS (MDC391) @G64UP9A	36287464
0002B8	00000000			4564+CVTWSAC DC	V(IEAVWSAC) - ADDRESS OF TABLE OF LENGTHS OF CPU	36288402
				4565+*	WORK/SAVE AREAS	MDC074 36289002
0002BC	00000000			4566+CVTRECRQ DC	V(IEAVTRER) - ADDRESS OF THE RECORDING REQUEST FACILITY	36289602
				4567+*	(PART OF RTM1 - CALLED BY RTM2 AND RMS)	36290202
				4568+*		MDC075 36290802
0002C0	00000000			4569+CVTASMVT DC	V(ASMVT) - POINTER TO AUXILIARY STORAGE MANAGEMENT	36291440
				4570+*	VECTOR TABLE (AMVT) (MDC340) @Z40WP9A	36291840
0002C4	00000000			4571+CVTIOBP DC	V(IDA121CV) - ADDRESS OF THE BLOCK PROCESSOR CVT	36292602
				4572+*	(MDC079)	YM0029 36293202
0002C8	00000000			4573+CVTSPOST DC	V(IEASPOST) - POST RESOURCE MANAGER TERMINATION ROUTINE	36293802
				4574+*	(RMTR) ENTRY POINT	MDC085 36294402
0002CC	00000000			4575+CVTRSTWD DC	F'0' - RESTART RESOURCE MANAGEMENT WORD -	36295002
				4576+*	CONTAINS IDENTIFIER OF USER IF RESTART IS	36295602
				4577+*	IN USE. OTHERWISE, ZERO.	MDC161 36296202
0002D0	00000000			4578+CVTFETCH DC	V(IEWMSEPT) - ADDRESS OF ENTRY POINT FOR BASIC FETCH	36296802
				4579+*		MDC196 36297402
0002D4	00000000			4580+CVT044R2 DC	V(IGC044R2) - ADDRESS OF IGC044R2 IN CHAP SERVICE	36298002

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				4581+*	ROUTINE	MDC197 36298602
0002D8	00000000			4582+CVTPERFM DC	A(0) - ADDRESS OF THE PERFORMANCE WORK AREA.	36299202
				4583+*	SET BY IGX00018.	MDC205 36301002
0002DC	00000000			4584+CVTDAIR DC	A(0) - ADDRESS OF IKJDAIR, TSO DYNAMIC	36301302
				4585+*	ALLOCATION INTERFACE ROUTINE (MDC212)	36301602
				4586+*		YM2225 36302202
0002E0	00000000			4587+CVTEHDEF DC	A(0) - ADDRESS OF IKJEHDEF, TSO DEFAULT SERVICE	36302502
				4588+*	ROUTINE (MDC213)	YM2225 36302802
0002E4	00000000			4589+CVTEHCIR DC	A(0) - ADDRESS OF IKJEHCIR, TSO CATALOG	36303402
				4590+*	INFORMATION ROUTINE (MDC214)	YM2225 36304302
0002E8				4591+CVTSSAP DS	A - ADDRESS OF SYSTEM SAVE AREA	MDC063 36305202
0002EC				4592+CVTAIDVT DS	A - POINTER TO APPENDAGE ID VECTOR TABLE	36305802
				4593+*		MDC064 36306402
0002F0	00000000			4594+CVTIPCDS DC	V(IEAVEDR) - BRANCH ENTRY FOR DIRECT SIGNAL	36307002
				4595+*	SERVICE ROUTINE	MDC065 36307602
0002F4	00000000			4596+CVTIPCRI DC	V(IEAVERI) - BRANCH ENTRY FOR REMOTE IMMEDIATE	36308202
				4597+*	SIGNAL SERVICE ROUTINE	MDC066 36308802
0002F8	00000000			4598+CVTIPCRP DC	V(IEAVERP) - BRANCH ENTRY FOR REMOTE PENDABLE	36309402
				4599+*	SIGNAL SERVICE ROUTINE	MDC067 36310002
0002FC				4600+CVTPCCAT DS	A - POINTER TO PHYSICAL CCA VECTOR TABLE	36310602
				4601+*		MDC068 36311202
000300				4602+CVTLCCAT DS	A - POINTER TO LOGICAL CCA VECTOR TABLE	MDC069 36311802
000304				4603+CVTRV210 DS	B - RESERVED	36312402
		00080		4604+CVTRV211 EQU	X'80',,,C'X' - RESERVED	36313002
		00040		4605+CVTRV212 EQU	X'40',,,C'X' - RESERVED	36313602
		00020		4606+CVTRV213 EQU	X'20',,,C'X' - RESERVED	36314202
		00010		4607+CVTRV214 EQU	X'10',,,C'X' - RESERVED	36314802
		00008		4608+CVTRV215 EQU	X'08',,,C'X' - RESERVED	36315402
		00004		4609+CVTRV216 EQU	X'04',,,C'X' - RESERVED	36316002
		00002		4610+CVTRV217 EQU	X'02',,,C'X' - RESERVED	36316602
		00001		4611+CVTRV218 EQU	X'01',,,C'X' - RESERVED	36317202
000305				4612+CVTRV219 DS	B - RESERVED	36317802
		00080		4613+CVTRV220 EQU	X'80',,,C'X' - RESERVED	36318402
		00040		4614+CVTRV221 EQU	X'40',,,C'X' - RESERVED	36319002
		00020		4615+CVTRV222 EQU	X'20',,,C'X' - RESERVED	36319602
		00010		4616+CVTRV223 EQU	X'10',,,C'X' - RESERVED	36320202
		00008		4617+CVTRV224 EQU	X'08',,,C'X' - RESERVED	36320802
		00004		4618+CVTRV225 EQU	X'04',,,C'X' - RESERVED	36321402
		00002		4619+CVTRV226 EQU	X'02',,,C'X' - RESERVED	36322002
		00001		4620+CVTRV227 EQU	X'01',,,C'X' - RESERVED	36322602
000306				4621+CVTRV228 DS	B - RESERVED	36323202
		00080		4622+CVTRV229 EQU	X'80',,,C'X' - RESERVED	36323802
		00040		4623+CVTRV230 EQU	X'40',,,C'X' - RESERVED	36324402
		00020		4624+CVTRV231 EQU	X'20',,,C'X' - RESERVED	36325002
		00010		4625+CVTRV232 EQU	X'10',,,C'X' - RESERVED	36325602
		00008		4626+CVTRV233 EQU	X'08',,,C'X' - RESERVED	36326202
		00004		4627+CVTRV234 EQU	X'04',,,C'X' - RESERVED	36326802
		00002		4628+CVTRV235 EQU	X'02',,,C'X' - RESERVED	36327402
		00001		4629+CVTRV236 EQU	X'01',,,C'X' - RESERVED	36328002
000307				4630+CVTRV237 DS	B - RESERVED	36328602
		00080		4631+CVTRV238 EQU	X'80',,,C'X' - RESERVED	36329202
		00040		4632+CVTRV239 EQU	X'40',,,C'X' - RESERVED	36329802
		00020		4633+CVTRV240 EQU	X'20',,,C'X' - RESERVED	36330402
		00010		4634+CVTRV241 EQU	X'10',,,C'X' - RESERVED	36331002
		00008		4635+CVTRV242 EQU	X'08',,,C'X' - RESERVED	36331602

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			00004	4636+CVTRV243	EQU	X'04' , , C'X' - RESERVED	36332202
			00002	4637+CVTRV244	EQU	X'02' , , C'X' - RESERVED	36332802
			00001	4638+CVTRV245	EQU	X'01' , , C'X' - RESERVED	36333402
000308				4639+CVTRV246	DS	XL1 - RESERVED	36334002
000309				4640+CVTRV247	DS	XL1 - RESERVED	36334602
00030A				4641+CVTRV248	DS	XL1 - RESERVED	36335202
00030B				4642+CVTRV249	DS	XL1 - RESERVED	36335802
00030C				4643+CVTRV250	DS	XL1 - RESERVED	36336402
00030D				4644+CVTRV251	DS	XL1 - RESERVED	36337002
00030E				4645+CVTRV252	DS	AL2 - RESERVED	36337602
000310				4646+CVTRV253	DS	H - RESERVED	36338202
000312				4647+CVTRV254	DS	H - RESERVED	36338802
000314	00000000			4648+CVTPWI	DC	A(0) - ADDRESS OF THE WINDOW INTERCEPT ROUTINE	36339402
				4649+*		(MDC104) YM4043	36340002
000318	00000000			4650+CVTPVBP	DC	A(0) - ADDRESS OF THE VIRTUAL BLOCK PROCESSOR	36340602
				4651+*		(MDC105) YM4043	36341202
00031C	00000000			4652+CVTMFCTL	DC	A(0) - POINTER TO MEASUREMENT FACILITY CONTROL	36341802
				4653+*		BLOCK MDC100	36342402
000320	00000052			4654+CVTMFRTR	DC	A(CVTBRET) - IF MEASUREMENT FACILITY IS ACTIVE,	36343002
				4655+*		CONTAINS ADDRESS OF MEASUREMENT FACILITY	36343602
				4656+*		ROUTINE. OTHERWISE, ADDRESS OF CVTBRET.	36344202
				4657+*		MDC101	36344802
		00080		4658+CVTMFACT	EQU	X'80' - IF ONE, I/O SUPERVISOR AND TIMER SECOND	36345402
				4659+*		LEVEL INTERRUPT HANDLER HOOKS BRANCH	36345802
				4660+*		TO MEASUREMENT FACILITY ROUTER. USED TO	36346002
				4661+*		SET HIGH-ORDER BIT OF CVTMFRTR. MDC102	36346602
000324	00000000			4662+CVTVPSIB	DC	V(IEAVPSIB) - BRANCH ENTRY TO PAGE SERVICES	MDC108 36347202
000328	00000000			4663+CVTVSI	DC	V(IEAVAMSI) - BRANCH ENTRY TO VAM SERVICES	MDC109 36347802
00032C	00000000			4664+CVTVFP	DC	V(IEAVFP1) - BRANCH ENTRY TO FINDPAGE	MDC110 36348402
000330				4665+CVTRV262	DS	B - RESERVED	36349002
		00080		4666+CVTRV263	EQU	X'80' , , C'X' - RESERVED	36349602
		00040		4667+CVTRV264	EQU	X'40' , , C'X' - RESERVED	36350202
		00020		4668+CVTRV265	EQU	X'20' , , C'X' - RESERVED	36350802
		00010		4669+CVTRV266	EQU	X'10' , , C'X' - RESERVED	36351402
		00008		4670+CVTRV267	EQU	X'08' , , C'X' - RESERVED	36352002
		00004		4671+CVTRV268	EQU	X'04' , , C'X' - RESERVED	36352602
		00002		4672+CVTRV269	EQU	X'02' , , C'X' - RESERVED	36353202
		00001		4673+CVTRV270	EQU	X'01' , , C'X' - RESERVED	36353802
000331				4674+CVTRV271	DS	B - RESERVED	36354402
		00080		4675+CVTRV272	EQU	X'80' , , C'X' - RESERVED	36355002
		00040		4676+CVTRV273	EQU	X'40' , , C'X' - RESERVED	36355602
		00020		4677+CVTRV274	EQU	X'20' , , C'X' - RESERVED	36356202
		00010		4678+CVTRV275	EQU	X'10' , , C'X' - RESERVED	36356802
		00008		4679+CVTRV276	EQU	X'08' , , C'X' - RESERVED	36357402
		00004		4680+CVTRV277	EQU	X'04' , , C'X' - RESERVED	36358002
		00002		4681+CVTRV278	EQU	X'02' , , C'X' - RESERVED	36358602
		00001		4682+CVTRV279	EQU	X'01' , , C'X' - RESERVED	36359202
000332				4683+CVTRV280	DS	B - RESERVED	36359802
		00080		4684+CVTRV281	EQU	X'80' , , C'X' - RESERVED	36360402
		00040		4685+CVTRV282	EQU	X'40' , , C'X' - RESERVED	36361002
		00020		4686+CVTRV283	EQU	X'20' , , C'X' - RESERVED	36361602
		00010		4687+CVTRV284	EQU	X'10' , , C'X' - RESERVED	36362202
		00008		4688+CVTRV285	EQU	X'08' , , C'X' - RESERVED	36362802
		00004		4689+CVTRV286	EQU	X'04' , , C'X' - RESERVED	36363402
		00002		4690+CVTRV287	EQU	X'02' , , C'X' - RESERVED	36364002

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			00001	4691+CVTRV288	EQU	X'01',,,C'X' - RESERVED	36364602
000333				4692+CVTRV289	DS	B - RESERVED	36365202
			00080	4693+CVTRV290	EQU	X'80',,,C'X' - RESERVED	36365802
			00040	4694+CVTRV291	EQU	X'40',,,C'X' - RESERVED	36366402
			00020	4695+CVTRV292	EQU	X'20',,,C'X' - RESERVED	36367002
			00010	4696+CVTRV293	EQU	X'10',,,C'X' - RESERVED	36367602
			00008	4697+CVTRV294	EQU	X'08',,,C'X' - RESERVED	36368202
			00004	4698+CVTRV295	EQU	X'04',,,C'X' - RESERVED	36368802
			00002	4699+CVTRV296	EQU	X'02',,,C'X' - RESERVED	36369402
			00001	4700+CVTRV297	EQU	X'01',,,C'X' - RESERVED	36370002
000334	000000000			4701+CVTTRCA	DC	A(0) - ADDRESS OF TRACE TABLE HEADER	36370603
				4702+*		(MDC327) @ZA02352	36372403
000338				4703+CVTRV302	DS	AL2 - RESERVED	36373002
00033A				4704+CVTRV303	DS	AL2 - RESERVED	36373602
00033C				4705+CVTRV304	DS	H - RESERVED	36374202
00033E				4706+CVTRV305	DS	H - RESERVED	36374802
000340				4707+CVTRV306	DS	H - RESERVED	36375402
000342				4708+CVTRV307	DS	H - RESERVED	36376002
000344	000000000			4709+CVTVIOP	DC	V(IEAVPIOP) - ENTRY POINT OF PAGE I/O POST	MDC111 36376602
000348	000000000			4710+CVTRMBR	DC	V(RMBRANCH) - ADDRESS OF REGMAIN BRANCH ENTRY	MDC123 36377202
00034C	000000000			4711+CVTLFRM	DC	V(FMBRANCH) - LIST FORMAT FREEMAIN BRANCH ENTRY POINT	MDC124 36377802
				4712+*			36378402
000350	000000000			4713+CVTGMBR	DC	V(GMBRANCH) - LIST FORMAT GETMAIN BRANCH ENTRY POINT	MDC125 36379002
				4714+*			36379602
000354	000000000			4715+CVT0TC0A	DC	A(0) - ADDRESS OF TASK CLOSE MODULE IFG0TC0A	MDC128 36380202
				4716+*			36380802
000358	000000000			4717+CVTRLSTG	DC	F'0' - SIZE OF ACTUAL REAL STORAGE ONLINE AT	MDC153 36381402
				4718+*		IPL TIME IN 'K'. VALUE PLACED HERE BY	36382002
				4719+*		IEAVNIPO.	36382602
00035C	000000000			4720+CVTSPFRR	DC	V(IEAVESPR) - 'SUPER FRR' ADDRESS (ADDRESS OF FUNCTIONAL	MDC154 36383202
				4721+*		RECOVERY ROUTINE ESTABLISHED AT NIPO TIME	36383602
				4722+*		TO PROTECT SUPERVISOR CONTROL PROGRAM)	36383802
				4723+*			36384402
000360	000000000			4724+CVTVEMS0	DC	V(IEAVEMS0) - ADDRESS OF MEMORY SWITCH ROUTINE	MDC155 36385002
000364	000000000			4725+CVTJRECM	DC	A(0) - ADDRESS OF SUBSYSTEM INTERFACE RESOURCE	MDC157 36385602
				4726+*		MANAGER	36386202
000368	000000000			4727+CVTIRECM	DC	A(0) - ADDRESS OF INITIATOR RESOURCE MANAGER	MDC158 36386802
				4728+*			36387402
00036C	000000000			4729+CVTDARCM	DC	A(0) - ADDRESS OF DEVICE ALLOCATION RESOURCE	MDC159 36388002
				4730+*		MANAGER	36388602
000370	000000000			4731+CVT0PT02	DC	V(IEA0PT02) - ADDRESS OF POST ENTRY POINT IEA0PT02	MDC160 36389202
				4732+*			36389802
000374	000000000			4733+CVTSTPRS	DC	V(IEESTPRS) - ENTRY POINT OF STOP AND RESTART	MDC162 36390402
				4734+*		SUBROUTINE	36391002
000378	000000000			4735+CVTWTCB	DC	V(IEAWTCB) - ADDRESS OF WAIT STATE TCB	MDC164 36391602
00037C	000000000			4736+CVTVACR	DC	A(0) - ACR/VARY CPU CHANNEL RECOVERY ROUTINE	MDC178 36393602
				4737+*		ADDRESS. ADDRESS FILLED IN BY VARY CPU	36394002
				4738+*		PROCESSOR.	36394402
000380	000000000			4739+CVTQUIT	DC	A(0) - VARY CPU SHUTDOWN ROUTINE ADDRESS.	MDC179 36394802
				4740+*		ADDRESS FILLED IN BY VARY CPU PROCESSOR.	36394902
				4741+*			36395002
000384	000000000			4742+CVTGTFR8	DC	V(AHLVCCR8) - GENERALIZED TRACE FACILITY (GTF) CONTROL	MDC180 36395102
				4743+*		REGISTER 8 INITIALIZATION ROUTINE ADDRESS	36396502
				4744+*			36398502
000388	000000000			4745+CVTVSTOP	DC	V(IEEVSTOP) - ADDRESS OF VARY CPU STOP CPU ROUTINE	36401202

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				4746+*		MDC169 36402602
00038C	00000000			4747+CVTVPSA DC	A(0) - ADDRESS OF COPY OF SYSGEN'ED PSA - PLACED	36404002
				4748+*	HERE BY NIP	MDC170 36405402
000390	00000000			4749+CVTRMPTT DC	A(0) - ADDRESS OF ISTRAMA1, THE VTAM RESOURCE	36406803
				4750+*	MANAGER FOR NORMAL AND ABNORMAL TASK	36407803
				4751+*	TERMINATION (MDC322) @Z30AP9A	36408803
000394	00000000			4752+CVTRMPMT DC	A(0) - ADDRESS OF ISTRAMA2, THE VTAM RESOURCE	36409803
				4753+*	MANAGER FOR NORMAL AND ABNORMAL MEMORY	36410803
				4754+*	TERMINATION (MDC323) @Z30AP9A	36411803
000398	00000000			4755+CVTEXP1 DC	V(IEAVEXP1) - ADDRESS OF EXIT PROLOGUE WHICH RETURNS TO	36415202
				4756+*	THE DISPATCHER	MDC173 36416602
00039C	00000000			4757+CVTCSDRL DC	A(0) - REAL ADDRESS OF COMMON SYSTEM DATA AREA	36418002
				4758+*	(CSD). INITIALIZED BY NIP.	MDC174 36419402
0003A0	00000000			4759+CVTSSRB DC	V(IGC07903) - STATUS STOP SRB ENTRY	MDC175 36420802
0003A4	00000000			4760+CVTRPT DC	A(0) - ADDRESS OF IGARPT01 MODULE OF RADIX	36422202
				4761+*	PARTITION TREE SERVICES. INITIALIZED	36423602
				4762+*	BY NIP.	MDC177 36425002
0003A8	00000000			4763+CVTQV1 DC	V(IEAVEQV1) - ADDRESS OF QUEUE VERIFICATION FOR SINGLE	36427002
				4764+*	THREADED QUEUES WITH HEADERS ONLY	MDC181 36429002
0003AC	00000000			4765+CVTQV2 DC	V(IEAVEQV2) - ADDRESS OF QUEUE VERIFICATION FOR SINGLE	36431002
				4766+*	THREADED QUEUES WITH HEADER AND TRAILER	36433002
				4767+*		MDC182 36433102
0003B0	00000000			4768+CVTQV3 DC	V(IEAVEQV3) - ADDRESS OF QUEUE VERIFICATION FOR DOUBLE	36433202
				4769+*	THREADED QUEUES	MDC183 36433302
0003B4	00000000			4770+CVTGSDA DC	F'0' - ADDRESS OF GLOBAL SYSTEM DUPLEX AREA.	36434802
				4771+*	ADDRESS FILLED IN BY NIP0.	MDC184 36436802
		00080		4772+CVTGSDAB EQU	X'80' - IF HIGH-ORDER BIT IS ONE, THERE IS A VALID	36438802
				4773+*	VALUE IN FOLLOWING 31 BITS	MDC185 36438902
0003B8	00000000			4774+CVTADV DC	V(IEAVEADV) - ADDRESS OF ADDRESS VERIFICATION ROUTINE	36439402
				4775+*		MDC186 36439802
0003BC	00000000			4776+CVTTPIO DC	V(IGC124) - ADDRESS OF VTAM TPIO (SVC 124) ROUTINE	36440002
				4777+*		MDC193 36440202
0003C0	00000000			4778+CVTCRCA DC	A(0) - WHEN CHANNEL RECONFIGURATION HARDWARE	36440303
				4779+*	(CRH) IS ACTIVE, ADDRESS OF CRH	36441303
				4780+*	COMMUNICATION AREA IECVCRCA.	36442303
				4781+*	OTHERWISE, ZERO. (MDC306) @Z30CQ9A	36443303
0003C4	00000000			4782+CVTEVENT DC	V(IEAVEVT0) - BRANCH ENTRY ADDRESS TO EVENTS (FAST	36445103
				4783+*	MULTIPLE WAIT ROUTINE) (MDC316) @Z30HP9A	36445203
0003C8	00000000			4784+CVTSSCR DC	A(0) - ADDRESS OF STORAGE SYSTEM CONTROLLER	36446003
				4785+*	RECOVERY MANAGER CLEANUP ROUTINE	36446803
				4786+*	(SSC RMCR) (MDC319) @Z30LP9A	36447603
0003CC	00000000			4787+CVTCBBR DC	V(CBBRANCH) - BRANCH ENTRY ADDRESS TO GETMAIN/FREEMAIN	36449603
				4788+*	(MDC325) @Z30EN9A	36449803
0003D0	00000000			4789+CVTEFF02 DC	A(0) - ADDRESS OF IKJEFF02, TSO MESSAGE ISSUER	36450003
				4790+*	SERVICE ROUTINE (MDC326) @ZM30972	36450203
0003D4	00000000			4791+CVTRV604 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36450603
0003D8	00000000			4792+CVTRV605 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36451603
0003DC	00000000			4793+CVTHSM DC	A(0) - POINTER TO HIERARCHICAL STORAGE MANAGER	36452641
				4794+*	(HSM) QUEUE CONTROL TABLE	36452741
				4795+*	(MDC375) @ZA27771	36452841
0003E0	00000000			4796+CVTRAC DC	A(0) - ADDRESS OF ACCESS CONTROL CVT	36453441
				4797+*	(MDC320) @Z40RP9A	36453540
0003E4	00000000			4798+CVTCGK DC	V(IEAVCKEY) - ADDRESS OF ROUTINE USED TO CHANGE THE KEY	36454604
				4799+*	OF VIRTUAL PAGES (MDC331) @Z40EP9A	36455604
0003E8	00000000			4800+CVTRV609 DC	A(0) - RESERVED (MDC332) @Z40AQ9A	36455804

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
0003EC	00000000			4801+CVT0PT0E DC	V(IEA0PT0E) - ENTRY POINT TO IDENTIFY POST EXIT ROUTINES	36459604
				4802+*	(MDC334) @Z40EP9A	36460604
0003F0	00000000			4803+CVT0PT03 DC	V(IEA0PT03) - POST REINVOCAION ENTRY POINT FROM POST	36461604
				4804+*	EXIT ROUTINES (MDC335) @Z40EP9A	36462604
0003F4	00000000			4805+CVTTCASP DC	A(0) - RESERVED FOR FUTURE USE (MDC336) @Z40DQ9A	36466604
0003F8	00000000			4806+CVTASMRM DC	V(ILRTERMR) - ADDRESS OF AUXILIARY STORAGE MANAGEMENT	36470640
				4807+*	RESOURCE MANAGER FOR ADDRESS SPACE	36470840
				4808+*	TERMINATION (MDC341) @Z40WP9A	36471040
0003FC	00000000			4809+CVTJTERM DC	V(ILRJTERM) - ADDRESS OF AUXILIARY STORAGE MANAGEMENT	36471640
				4810+*	JOB TERMINATION RESOURCE MANAGER	36472140
				4811+*	(MDC342) @Z40WP9A	36472640
000400	00000000			4812+CVTRSUME DC	V(IEAVRSME) - ADDRESS OF RESUME FUNCTION	36473640
				4813+*	(MDC344) @Z40FP9A	36474240
000404	00000000			4814+CVTTCTL DC	V(IEAVTCTL) - ADDRESS OF TRANSFER CONTROL (TCTL)	36475640
				4815+*	FUNCTION (MDC345) @Z40FP9A	36476240
000408	00000000			4816+CVTCDAL DC	A(0) - ADDRESS OF COMMON DISPATCHER ACTIVE LIST	36477640
				4817+*	(MDC346) @Z40FP9A	36478240
00040C	00000000			4818+CVTT6SVC DC	V(IEAVET6E) - ENTRY POINT ADDRESS FOR TYPE 6 SVC EXIT	36479640
				4819+*	FUNCTION (MDC347) @Z40FP9A	36480240
000410	00000000			4820+CVTSUSP DC	V(IEAVSPND) - ADDRESS OF SUSPEND ROUTINE	36481640
				4821+*	(MDC348) @Z40FP9A	36482540
000414	00000000			4822+CVTIHASU DC	V(IEAIHASU) - ADDRESS OF BIT STRING (MDC355) @Z404P9A	36484504
000418	00000000			4823+CVTVDCCR DC	V(IEEVDCCR) - ADDRESS OF DISABLED CONSOLE COMMUNICATION	36486564
				4824+*	ROUTINE (IEEVDCCR) (MDC384) @G64UP9A	36487164
00041C	00000000			4825+CVTCST DC	A(0) - ADDRESS OF CHANNEL SET TABLE (CST)	36488564
				4826+*	(MDC377) @G64AP9A	36489164
000420	00000000			4827+CVTRV623 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36490504
000424	00000000			4828+CVTRV624 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36493504
000428	00000000			4829+CVTRV625 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36496504
00042C	00000000			4830+CVTRV626 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36497504
000430	00000000			4831+CVTRV627 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36500504
000434	00000000			4832+CVTRV628 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36501504
				4833+*		36506504
				4834+*	OS - OS/VS COMMON EXTENSION	36508504
				4835+*	ADDRESS OF EXTENSION IS IN CVTEXT1	36510504
				4836+*		36512504
000000				4837+CVTXTNT1 DSECT		36517504
000000	00000000			4838+CVTFACHN DC	A(0) - ADDRESS OF CHAIN OF DCB FIELD AREAS	36528004
				4839+*	(ISAM) ICB421	36530004
000004				4840+CVTRSV87 DS	F - RESERVED	36532004
000008				4841+CVTRSV88 DS	F - RESERVED	36534004
				4842+*		36536004
				4843+*	OS/VS1 - OS/VS2 COMMON EXTENSION	36538004
				4844+*	ADDRESS OF EXTENSION IS IN CVTEXT2	36540004
				4845+*		36542004
000000				4846+CVTXTNT2 DSECT		36546004
000000				4847+CVTDSSV DS	0A - ADDRESS OF THE DYNAMIC SUPPORT SYSTEM	36556004
				4848+*	(DSS) VECTOR TABLE ICB313	36558004
000000				4849+CVTRSV89 DS	XL1 - RESERVED ICB313	36560004
000001	000000			4850+CVTDSSVA DC	VL3(IQADSV00) ADDRESS OF THE DYNAMIC SUPPORT SYSTEM	36562004
				4851+*	(DSS) VECTOR TABLE ICB393	36564004
000004				4852+CVTNUCLS DS	C - IDENTIFICATION OF THE NUCLEUS MEMBER	36566004
				4853+*	NAME ICB322	36574001
000005	00			4854+CVTFLGBT DC	XL1'00' - FLAG BYTE (OS/VS1) (MDC301) @X04EP9A	36584003
		00080		4855+CVTNPE EQU	X'80' - INDICATES NON-PAGING ENVIRONMENT (VM	36590003

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				4856+*		HANDSHAKING) (OS/VS1) (MDC302) @X04EP9A	36596003
		00040		4857+CVTVME EQU	X'40' -	INDICATES MACHINE IS OPERATING IN VM	36602003
				4858+*		ENVIRONMENT (OS/VS1) (MDC303) @X04EP9A	36608003
		00020		4859+CVTBAH EQU	X'20' -	INDICATES THAT THE VM/370 - OS/VS1 BTAM	36611006
				4860+*		AUTOPOLL HANDSHAKE IS OPERATIONAL	36614006
				4861+*		(OS/VS1) (MDC356) @X60KL9A	36617006
		00010		4862+CVTRSV9D EQU	X'10' , , C'X' -	RESERVED	36624001
		00008		4863+CVTRSV9E EQU	X'08' , , C'X' -	RESERVED	36626001
		00004		4864+CVTRSV9F EQU	X'04' , , C'X' -	RESERVED	36628001
		00002		4865+CVTRSV9G EQU	X'02' , , C'X' -	RESERVED	36630001
		00001		4866+CVTRSV9H EQU	X'01' , , C'X' -	RESERVED	36632001
000006				4867+CVTRSV91 DS	H -	RESERVED	36632401
000008	00000000			4868+CVTDEBVR DC	V(IFGDEBVR) -	ADDRESS OF BRANCH ENTRY POINT OF DEB	36644002
				4869+*		VALIDITY CHECK ROUTINE (ICB380) XM9028	36654002
00000C	00000000			4870+CVTRSV92 DC	A(0) -	RESERVED (MDC190) YM2278	36664002
000010				4871+CVTRSV93 DS	F -	RESERVED	36672601
000014				4872+CVTRSV94 DS	F -	RESERVED	36672701
000018				4873+CVTQID DS	0A -	SAME AS CVTQIDA BELOW ICB381	36672901
000018	00			4874+CVTRSV95 DC	XL1'00' -	RESERVED ICB381	36673201
000019	000000			4875+CVTQIDA DC	AL3(0) -	ADDRESS OF QUEUE IDENTIFICATION (QID)	36673602
				4876+*		TABLE PREFIX ICB381	36673702
00001C				4877+CVTOLTEP DS	A -	POINTER TO CONTROL BLOCK CREATED BY SVC 59	36673801
				4878+*		TO POINT TO PSEUDO-DEB'S ICB423	36673901
000020				4879+CVTRSV96 DS	H -	RESERVED	36683901
000022				4880+CVTRSV97 DS	H -	RESERVED	36685901
000024				4881+CVTRSV98 DS	F -	RESERVED	36687901
000028	00000000			4882+CVTCCVT DC	A(0) -	ADDRESS OF CRYPTOGRAPHIC FACILITY CVT	36690141
				4883+*		(MDC370) @ZA27771	36691141
00002C	00000000			4884+CVTSKTA DC	A(0) -	ADDRESS OF STORAGE KEY TABLE (VM	36694904
				4885+*		HANDSHAKING) (OS/VS1) (MDC304) @X04EP9A	36695704
000030	00000000			4886+CVTICB DC	A(0) -	ADDRESS OF MASS STORAGE SYSTEM (MSS)	36702704
				4887+*		CONTROL BLOCK (MDC305) @Z30LP9A	36703804
000034				4888+CVTRV400 DS	B -	RESERVED	36705804
		00080		4889+CVTRV401 EQU	X'80' , , C'X' -	RESERVED	36706804
		00040		4890+CVTRV402 EQU	X'40' , , C'X' -	RESERVED	36707804
		00020		4891+CVTRV403 EQU	X'20' , , C'X' -	RESERVED	36708804
		00010		4892+CVTRV404 EQU	X'10' , , C'X' -	RESERVED	36709804
		00008		4893+CVTRV405 EQU	X'08' , , C'X' -	RESERVED	36710804
		00004		4894+CVTRV406 EQU	X'04' , , C'X' -	RESERVED	36711804
		00002		4895+CVTRV407 EQU	X'02' , , C'X' -	RESERVED	36713802
		00001		4896+CVTRV408 EQU	X'01' , , C'X' -	RESERVED	36713902
000035				4897+CVTRV409 DS	B -	RESERVED	36717202
		00080		4898+CVTRV410 EQU	X'80' , , C'X' -	RESERVED	36719202
		00040		4899+CVTRV411 EQU	X'40' , , C'X' -	RESERVED	36719602
		00020		4900+CVTRV412 EQU	X'20' , , C'X' -	RESERVED	36720002
		00010		4901+CVTRV413 EQU	X'10' , , C'X' -	RESERVED	36720402
		00008		4902+CVTRV414 EQU	X'08' , , C'X' -	RESERVED	36720502
		00004		4903+CVTRV415 EQU	X'04' , , C'X' -	RESERVED	36720602
		00002		4904+CVTRV416 EQU	X'02' , , C'X' -	RESERVED	36726402
		00001		4905+CVTRV417 EQU	X'01' , , C'X' -	RESERVED	36728402
000036				4906+CVTRV418 DS	XL1 -	RESERVED	36730402
000037				4907+CVTRV419 DS	XL1 -	RESERVED	36730802
000038				4908+CVTRV420 DS	AL2 -	RESERVED	36731202
00003A				4909+CVTRV421 DS	H -	RESERVED	36731602
00003C				4910+CVTRV422 DS	H -	RESERVED	36732002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
00003E				4911+CVTRV423	DS	H -	RESERVED 36732102
000040				4912+CVTATCVT	DS	A -	POINTER TO VTAM'S CVT MDC080 36732202
		00080		4913+CVTATACT	EQU	X'80'	IF ON, VTAM IS ACTIVE MDC081 36736102
000044				4914+CVTRV425	DS	A -	RESERVED 36744002
000048				4915+CVTRV426	DS	A -	RESERVED 36782302
00004C				4916+CVTRV427	DS	A -	RESERVED 36792302
000050				4917+CVTRV428	DS	F -	RESERVED 36802302
000054				4918+CVTRV429	DS	B -	RESERVED 36812302
		00080		4919+CVTRV430	EQU	X'80' , , C'X' -	RESERVED 36822302
		00040		4920+CVTRV431	EQU	X'40' , , C'X' -	RESERVED 36824302
		00020		4921+CVTRV432	EQU	X'20' , , C'X' -	RESERVED 36826302
		00010		4922+CVTRV433	EQU	X'10' , , C'X' -	RESERVED 36828302
		00008		4923+CVTRV434	EQU	X'08' , , C'X' -	RESERVED 36830302
		00004		4924+CVTRV435	EQU	X'04' , , C'X' -	RESERVED 36830702
		00002		4925+CVTRV436	EQU	X'02' , , C'X' -	RESERVED 36831102
		00001		4926+CVTRV437	EQU	X'01' , , C'X' -	RESERVED 36831502
000055				4927+CVTRV438	DS	B -	RESERVED 36831902
		00080		4928+CVTRV439	EQU	X'80' , , C'X' -	RESERVED 36832002
		00040		4929+CVTRV440	EQU	X'40' , , C'X' -	RESERVED 36832102
		00020		4930+CVTRV441	EQU	X'20' , , C'X' -	RESERVED 36832202
		00010		4931+CVTRV442	EQU	X'10' , , C'X' -	RESERVED 36848902
		00008		4932+CVTRV443	EQU	X'08' , , C'X' -	RESERVED 36858902
		00004		4933+CVTRV444	EQU	X'04' , , C'X' -	RESERVED 36860902
		00002		4934+CVTRV445	EQU	X'02' , , C'X' -	RESERVED 36862902
		00001		4935+CVTRV446	EQU	X'01' , , C'X' -	RESERVED 36864902
000056				4936+CVTRV447	DS	XL1 -	RESERVED 36865302
000057				4937+CVTRV448	DS	XL1 -	RESERVED 36865402
000058				4938+CVTRV449	DS	AL2 -	RESERVED 36865502
00005A				4939+CVTRV450	DS	H -	RESERVED 36871102
00005C				4940+CVTRV451	DS	H -	RESERVED 36873102
00005E				4941+CVTRV452	DS	H -	RESERVED 36875102
000060				4942+CVTRV453	DS	A -	RESERVED 36875502
000064				4943+CVTRV454	DS	A -	RESERVED 36875902
000068				4944+CVTRV455	DS	A -	RESERVED 36876302
00006C				4945+CVTRV456	DS	A -	RESERVED 36876402
000070				4946+CVTRV457	DS	B -	RESERVED 36876502
		00080		4947+CVTRV458	EQU	X'80' , , C'X' -	RESERVED 36876602
		00040		4948+CVTRV459	EQU	X'40' , , C'X' -	RESERVED 36890502
		00020		4949+CVTRV460	EQU	X'20' , , C'X' -	RESERVED 36900502
		00010		4950+CVTRV461	EQU	X'10' , , C'X' -	RESERVED 36902502
		00008		4951+CVTRV462	EQU	X'08' , , C'X' -	RESERVED 36902902
		00004		4952+CVTRV463	EQU	X'04' , , C'X' -	RESERVED 36903302
		00002		4953+CVTRV464	EQU	X'02' , , C'X' -	RESERVED 36903702
		00001		4954+CVTRV465	EQU	X'01' , , C'X' -	RESERVED 36904102
000071				4955+CVTRV466	DS	B -	RESERVED 36904202
		00080		4956+CVTRV467	EQU	X'80' , , C'X' -	RESERVED 36904302
		00040		4957+CVTRV468	EQU	X'40' , , C'X' -	RESERVED 36904402
		00020		4958+CVTRV469	EQU	X'20' , , C'X' -	RESERVED 36909002
		00010		4959+CVTRV470	EQU	X'10' , , C'X' -	RESERVED 36911002
		00008		4960+CVTRV471	EQU	X'08' , , C'X' -	RESERVED 36913002
		00004		4961+CVTRV472	EQU	X'04' , , C'X' -	RESERVED 36913402
		00002		4962+CVTRV473	EQU	X'02' , , C'X' -	RESERVED 36913502
		00001		4963+CVTRV474	EQU	X'01' , , C'X' -	RESERVED 36913602
000072				4964+CVTRV475	DS	XL1 -	RESERVED 36913702
000073				4965+CVTRV476	DS	XL1 -	RESERVED 36918302

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000074				4966+CVTRV477	DS	XL1 - RESERVED	36920302
000075				4967+CVTRV478	DS	XL1 - RESERVED	36922302
000076				4968+CVTRV479	DS	H - RESERVED	36922702
000078				4969+CVTRV480	DS	A - RESERVED	36922802
00007C				4970+CVTRV481	DS	A - RESERVED	36922902
000080				4971+CVTRV482	DS	A - RESERVED	36923002
				4972+*			36923102
				4973+*		END OF CVT	36927702
				4974+	POP	PRINT	36932302

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				4976	IHAASCB	Address Space Control Block
				4977+*	%ASCBL1 : ;	00152002
				4978+*		00154002
				4979+*/	*****	*/ 00156002
				4980+*/		*/ 00158002
				4981+*/	ADDRESS SPACE CONTROL BLOCK	*/ 00158402
				4982+*/		*/ 00158802
				4983+*/	OS/V S2 SU64, 05/12/78, LEVEL=3	*/ 00158964
				4984+*/		*/ 00159602
				4985+*/	METHOD OF ACCESS	*/ 00159702
				4986+*/	BAL - DSECT IS PRODUCED UNLESS DSECT=NO IS SPECIFIED.	*/ 00159802
				4987+*/	USING ON ASCB GIVES ADDRESSABILITY FOR ALL SYMBOLS.	*/ 00159902
				4988+*/	PL/S - DCL ASCBPTR PTR	*/ 00173202
				4989+*/		*/ 00183202
				4990+*/	*****	*/ 00185202
				4991+*	%GOTO ASCBL2; /*	00185602
000000				4993+ASCB	DSECT	00200002
000000				4994+ASCBEGIN	DS 0D -	00250002
000000				4995+ASCBASCB	DS CL4 -	00300002
000004				4996+ASCBFWDP	DS A -	00350002
				4997+*	QUEUE	00400002
000008				4998+ASCBWDP	DS A -	00450002
				4999+*	READY QUEUE	00500002
00000C				5000+ASCBMSF	DS A -	00550040
				5001+*	QUEUE (MDC304) @Z40FP9A	00560040
000010				5002+ASCBSUPC	DS 0D -	00570040
				5003+*	(MDC309) @Z40FP9A	00580040
000010				5004+ASCBSVRB	DS A -	00650040
000014				5005+ASCBSYNC	DS F -	00670040
				5006+*	(MDC311) @Z40FP9A	00690040
000018				5007+ASCBIOSP	DS A -	00710040
				5008+*	CONTROL BLOCK (IPB)	00770040
				5009+*	(MDC308) @Z40FP9A	00790040
00001C				5010+ASCBSPL	DS A -	00850002
000020				5011+ASCBPUS	DS F -	00900002
				5012+*	MEMORY MDC007	00950002
000024				5013+ASCBASID	DS H -	01050002
				5014+*	ASCB	01100002
000026				5015+ASCBSEQN	DS H -	01150002
				5016+*	ASCB'S POSITION ON THE DISPATCHING	01200002
				5017+*	QUEUE	01250002
000028				5018+ASCBIOSM	DS H -	01300002
00002A				5019+ASCBRV07	DS FL1 -	MDC017 01350002
00002B				5020+ASCBDP	DS FL1 -	01450002
				5021+*	0-255	01500002
00002C				5022+ASCBSTOR	DS A -	01550002
				5023+*	SEGMENT TABLE IN THE SAME FORMAT AS	01600002
				5024+*	CONTROL REGISTER ONE MDC027	01610002
000030				5025+ASCB LDA	DS A -	01650002
				5026+*	LSQA FOR VSM	01700002
000034				5027+ASCB RSM	DS 0A -	01720040
				5028+*	HEADER @ZA17355	01730040
000034				5029+ASCB RSMF	DS B -	01800040
				5030+*	RSM ADDRESS SPACE FLAGS (MDC368) @ZA17355	01801040

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
			00080	5031+ASCB2LPU EQU	X'80' -	SECOND LEVEL PREFERRED USER 01806040
				5032+*		(MDC369) @ZA17355 01807040
			00040	5033+ASCB1LPU EQU	X'40' -	FIRST LEVEL PREFERRED USER 01812040
				5034+*		(MDC370) @ZA17355 01813040
			00020	5035+ASCBN2LP EQU	X'20' -	SRM IN SYSEVENT TRANSWAP SHOULD NOT 01815040
				5036+*		SET ASCB2LPU BIT - HOWEVER IT MAY 01818040
				5037+*		ALREADY BE ON AND WILL STAY ON 01818340
				5038+*		(MDC371) @ZA17355 01819040
		00010		5039+ASCBVEQR EQU	X'10' -	V=R ADDRESS SPACE (MDC372) @ZA17355 01821040
		00008		5040+ASCBRV51 EQU	X'08' , , C'X' -	RESERVED @ZA17355 01824040
		00004		5041+ASCBRV52 EQU	X'04' , , C'X' -	RESERVED @ZA17355 01827040
		00002		5042+ASCBRV53 EQU	X'02' , , C'X' -	RESERVED @ZA17355 01830040
		00001		5043+ASCBRV54 EQU	X'01' , , C'X' -	RESERVED @ZA17355 01833040
000035				5044+ASCBRSMA DS	AL3 -	ADDRESS OF RSM'S CONTROL BLOCK 01839040
				5045+*		HEADER (MDC373) @ZA17355 01840040
000038				5046+ASCBBCSCB DS	A -	ADDRESS OF CSCB 01850002
00003C				5047+ASCBTSB DS	A -	ADDRESS OF TSB 01900002
000040				5048+ASCB EJST DS	D -	ELAPSED JOB STEP TIMING UNSIGNED 01950002
				5049+*		64 BIT BINARY NUMBER 02000002
000048				5050+ASCB EWST DS	D -	TIME OF DAY WHENEVER I-STREAM IS 02050002
				5051+*		SWITCHED FROM A MEMORY 02100002
000050				5052+ASCB JSTL DS	F -	CPU TIME LIMIT FOR THE JOB STEP 02150002
				5053+*		UNSIGNED 32 BIT BINARY NUMBER 02200002
000054				5054+ASCB ECB DS	F -	RCT'S WORK ECB 02250002
000058				5055+ASCB UBET DS	F -	TIME STAMP WHEN USER BECOMES READY 02300002
00005C				5056+ASCB RV44 DS	F -	RESERVED (MDC318) @Z40FP9A 02350040
000060				5057+ASCB DUMP DS	A -	SVC DUMP'S ECB POINTER 02400002
000064				5058+ASCB FW1 DS	0F -	FULL-WORD LABEL TO BE USED FOR 02410002
				5059+*		COMPARE AND SWAP FOR ANY BIT IN 02420002
				5060+*		THIS WORD MDC026 02430002
000064				5061+ASCB AFFN DS	H -	CPU AFFINITY INDICATOR 02450002
000066				5062+ASCB RCTF DS	B -	FLAGS FOR RCT 02500002
		00080		5063+ASCB TMNO EQU	X'80' -	MEMORY IS BEING QUIESCED, IS 02550002
				5064+*		QUIESCED, OR IS BEING RESTORED 02600002
		00040		5065+ASCB FR S EQU	X'40' -	RESTORE REQUEST 02650002
		00020		5066+ASCB FQU EQU	X'20' -	QUIESCE REQUEST 02700002
		00010		5067+ASCB RV08 EQU	X'10' , , C'X' -	RESERVED (MDC031) YM2236 02750002
		00008		5068+ASCB WAIT EQU	X'08' -	LONG WAIT INDICATOR 02800002
		00004		5069+ASCB OUT EQU	X'04' -	ADDRESS SPACE CONSIDERED SWAPPED OUT 02850002
		00002		5070+ASCB TMLW EQU	X'02' -	MEMORY IS IN A LONG WAIT 02900002
		00001		5071+ASCB RF01 EQU	X'01' , , C'X' -	RESERVED 02950002
000067				5072+ASCB FLG1 DS	B -	FLAG FIELD 03000002
		00080		5073+ASCB TOFF EQU	X'80' -	MEMORY SHOULD NOT BE CHECKED FOR JOB 03050002
				5074+*		STEP TIMING 03100002
		00040		5075+ASCB CM SH EQU	X'40' -	CMS LOCK HELD 03150002
		00020		5076+ASCB S3S EQU	X'20' -	STAGE II EXIT EFFECTOR HAS SCHEDULED 03200002
				5077+*		A RQE OR IQE AND STAGE III EXIT 03250002
				5078+*		EFFECTOR SHOULD BE INVOKED 03300002
		00010		5079+ASCB TERM EQU	X'10' -	ADDRESS SPACE TERMINATING NORMALLY 03350002
		00008		5080+ASCB ABNT EQU	X'08' -	ADDRESS SPACE TERMINATING ABNORMALLY 03400002
		00004		5081+ASCB STND EQU	X'04' -	TCB'S NON-DISPATCHABLE 03450002
		00002		5082+ASCB TYP1 EQU	X'02' -	TYPE 1 SVC HAS CONTROL 03500002
		00001		5083+ASCB NSWP EQU	X'01' -	PROGRAM IS NON SWAPPABLE OR WILL 03550002
				5084+*		RUN IN V=R REGION 03600002
000068				5085+ASCB TMCH DS	F -	TERMINATION QUEUE CHAIN 03650002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
00006C				5086+ASCBASXB DS	A -	POINTER TO ADDRESS SPACE EXTENSION	03700002
				5087+*		CONTROL BLOCK (ASXB)	03750002
000070				5088+ASCBWCT DS	H -	NUMBER OF TIMES MEMORY ENTERS SHORT	03800002
				5089+*		WAIT	03850002
000072				5090+ASCBDSP1 DS	B -	NON-DISPATCHABILITY FLAGS	03900002
		00080		5091+ASCBNOQ EQU	X'80' -	ASCB NOT ON ASCB DISPATCHING QUEUE	03950002
		00040		5092+ASCBFAIL EQU	X'40' -	A FAILURE HAS OCCURRED WITHIN THE	04000002
				5093+*		ADDRESS SPACE. THE MEMORY IS NON-	04050002
				5094+*		DISPATCHABLE	04100002
		00020		5095+ASCBRF02 EQU	X'20' , , C'X' -	RESERVED	MDC013 04110002
		00010		5096+ASCBRF03 EQU	X'10' , , C'X' -	RESERVED	MDC014 04120002
		00008		5097+ASCBRF04 EQU	X'08' , , C'X' -	RESERVED	04130002
		00004		5098+ASCBRF05 EQU	X'04' , , C'X' -	RESERVED	04140002
		00002		5099+ASCBRF06 EQU	X'02' , , C'X' -	RESERVED	04142002
		00001		5100+ASCBRF07 EQU	X'01' , , C'X' -	RESERVED	04144002
000073				5101+ASCBFLG2 DS	B -	FLAG BYTE	MDC015 04194002
		00080		5102+ASCBXMPT EQU	X'80' -	ASCB EXEMPT FROM SYSTEM	04198002
				5103+*		NON-DISPATCHABLE	MDC013 04198402
		00040		5104+ASCBPXMT EQU	X'40' -	ASCB PERMANENTLY EXEMPT FROM SYSTEM	04198802
				5105+*		NON-DISPATCHABLE	MDC014 04199202
		00020		5106+ASCBCEXT EQU	X'20' -	CANCEL TIMER EXTENSION BECAUSE EOT	04199602
				5107+*		PROCESSING IS STARTED FOR THE JOB	04199702
				5108+*		STEP TCB	MDC021 04203902
		00010		5109+ASCBS2S EQU	X'10' -	FOR LOCK MANAGER, ENTRY MADE TO	04205902
				5110+*		STAGE II EXIT EFFECTOR WITHOUT	04207902
				5111+*		CORRESPONDING ENTRY TO STAGE III	04208002
				5112+*		EXIT EFFECTOR	MDC020 04208102
		00008		5113+ASCBSNQS EQU	X'08' -	STATUS STOP NON-QUIESCEABLE LEVEL	04210102
				5114+*		SRB'S	MDC028 04212102
		00004		5115+ASCBRV04 EQU	X'04' , , C'X' -	RESERVED	04212402
		00002		5116+ASCBRV05 EQU	X'02' , , C'X' -	RESERVED	04214464
		00001		5117+ASCBRV06 EQU	X'01' , , C'X' -	RESERVED	04220464
000074				5118+ASCBSSRB DS	H -	COUNT OF STATUS STOP SRB'S	04233302
000076				5119+ASCB SRBS DS	H -	COUNT OF SRB'S DISPATCHED IN THIS	04250002
				5120+*		MEMORY	04300002
000078				5121+ASCBVSC DS	H -	ALLOCATED AUXILIARY SLOT COUNT	04350002
				5122+*		(VAM)	MDC004 04400002
00007A				5123+ASCBNVSC DS	H -	ALLOCATED AUXILIARY SLOT COUNT	04450002
				5124+*		(NON-VAM)	MDC005 04460002
00007C				5125+ASCBTCBS DS	F -	NUMBER OF READY TCB'S IN THIS	04470002
				5126+*		MEMORY	MDC006 04480002
000080				5127+ASCB LKGP DS	0D -	LOCK GROUP (MDC306)	@Z40FP9A 04500040
000080				5128+ASCBLOCK DS	F -	LOCAL LOCK (MDC305)	@Z40FP9A 04540040
000084				5129+ASCBLSQH DS	A -	LOCAL LOCK SUSPEND QUEUE HEADER	04580040
				5130+*		(MDC307)	@Z40FP9A 04620040
000088				5131+ASCBQECB DS	F -	QUIESCE ECB	04700002
00008C				5132+ASCBMECB DS	F -	MEMORY CREATE/DELETE ECB	04750002
000090				5133+ASCB OUCB DS	A -	SYSTEM RESOURCES MANAGER (SRM) USER	04760002
				5134+*		CONTROL BLOCK POINTER	04770002
000094				5135+ASCB OUXB DS	A -	SYSTEM RESOURCES MANAGER (SRM) USER	04780002
				5136+*		EXTENSION BLOCK POINTER	04790002
000098				5137+ASCB FMCT DS	H -	ALLOCATED PAGE FRAME COUNT	04792002
00009A				5138+ASCB RS01 DS	H -	RESERVED FOR FUTURE USE	04794002
00009C				5139+ASCBXMPQ DS	A -	POINTER TO XMPOST SRB QUEUE	MDC023 04796002
0000A0				5140+ASCB IQEA DS	A -	POINTER TO IQE FOR ATCAM	04800002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
0000A4				5141+*		ASYNCHRONOUS PROCESSING	MDC010	04810002		
				5142+ASCBRTWA	DS	A -	POINTER TO LAST RTM2 WORK AREA	04860002		
				5143+*		ACQUIRED FROM SQA	MDC011	04870002		
0000A8				5144+ASCBMCC	DS	CL4 -	USED TO HOLD A MEMORY TERMINATION	04900002		
				5145+*		COMPLETION CODE ON ABNORMAL MEMORY		04910002		
				5146+*		TERMINATION	MDC012	04920002		
0000AC				5147+ASCBJBNI	DS	A -	POINTER TO JOBNAME FIELD FOR	04930002		
				5148+*		INITIATED PROGRAMS OR ZERO	MDC018	04940002		
0000B0				5149+ASCBJBNS	DS	A -	POINTER TO JOBNAME FIELD FOR	04950002		
				5150+*		START/MOUNT/LOGON OR ZERO	MDC019	04960002		
0000B4				5151+ASCBSRQ	DS	0F -	DISPATCHER SERIALIZATION QUEUE	05010040		
				5152+*		(MDC312)	@Z40FP9A	05012040		
0000B4				5153+ASCBSRQ1	DS	B -	FIRST BYTE OF ASCBSRQ	05014040		
				5154+*		(MDC313)	@Z40FP9A	05016040		
	00080			5155+ASCBSTA	EQU	X'80' -	STATUS ACTIVE (MDC314)	@Z40FP9A	05018040	
	00040			5156+ASCBRV13	EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A	05020040	
	00020			5157+ASCBRV14	EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A	05022040	
	00010			5158+ASCBRV15	EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A	05024040	
	00008			5159+ASCBRV16	EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A	05026040	
	00004			5160+ASCBRV17	EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A	05028040	
	00002			5161+ASCBRV18	EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A	05030040	
	00001			5162+ASCBRV19	EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A	05032040	
0000B5				5163+ASCBSRQ2	DS	B -	SECOND BYTE OF ASCBSRQ	05034040		
				5164+*		(MDC315)	@Z40FP9A	05036040		
	00080			5165+ASCBRV20	EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A	05038040	
	00040			5166+ASCBRV21	EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A	05040040	
	00020			5167+ASCBRV22	EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A	05042040	
	00010			5168+ASCBRV23	EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A	05044040	
	00008			5169+ASCBRV24	EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A	05046040	
	00004			5170+ASCBRV25	EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A	05048040	
	00002			5171+ASCBRV26	EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A	05050040	
	00001			5172+ASCBRV27	EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A	05052040	
0000B6				5173+ASCBSRQ3	DS	B -	THIRD BYTE OF ASCBSRQ	05054040		
				5174+*		(MDC316)	@Z40FP9A	05056040		
	00080			5175+ASCBRV28	EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A	05058040	
	00040			5176+ASCBRV29	EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A	05060040	
	00020			5177+ASCBRV30	EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A	05062040	
	00010			5178+ASCBRV31	EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A	05064040	
	00008			5179+ASCBRV32	EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A	05066040	
	00004			5180+ASCBRV33	EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A	05068040	
	00002			5181+ASCBRV34	EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A	05070040	
	00001			5182+ASCBRV35	EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A	05072040	
0000B7				5183+ASCBSRQ4	DS	B -	FOURTH BYTE OF ASCBSRQ	05074040		
				5184+*		(MDC317)	@Z40FP9A	05076040		
	00080			5185+ASCBRV36	EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A	05078040	
	00040			5186+ASCBRV37	EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A	05080040	
	00020			5187+ASCBRV38	EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A	05082040	
	00010			5188+ASCBRV39	EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A	05084040	
	00008			5189+ASCBRV40	EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A	05086040	
	00004			5190+ASCBRV41	EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A	05088040	
	00002			5191+ASCBRV42	EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A	05090040	
	00001			5192+ASCBRV43	EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A	05092040	
0000B8				5193+ASCBVGTT	DS	A -	ADDRESS OF VSAM GLOBAL TERMINATION	05110002		
				5194+*		TABLE (VGTT)	MDC024	05160002		
0000BC				5195+ASCBPCTT	DS	A -	ADDRESS OF PRIVATE CATALOG	05210002		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5196+*	TERMINATION TABLE (PCTT)	MDC025 05220002
0000C0				5197+ASCBRS12 DS	H -	RESERVED FOR FUTURE USE 05250002
0000C2				5198+ASCBMCT DS	FL1 -	NUMBER OF OUTSTANDING STEP MUST 05300002
				5199+*		COMPLETE REQUESTS IN ADDRESS 05310002
				5200+*		SPACE MDC016 05320002
0000C3				5201+ASCB SRBM DS	B -	MODEL PSW BYTE 0 USED BY SRB 05330064
				5202+*		DISPATCHER (MDC379) @G64RP9A 05350064
		00040		5203+ASCBPER EQU	X'40' -	PER BIT IN ASCB SRBM - ALSO USED TO 05360064
				5204+*		SHOW PER STATUS FOR THE ADDRESS 05370064
				5205+*		SPACE (MDC380) @G64RP9A 05380064
0000C4				5206+ASCB SWTL DS	F -	STEP WAIT TIME LIMIT MDC029 05400002
0000C8				5207+ASCB SRBT DS	D -	ACCUMULATED SRB TIME MDC030 05410002
0000D0				5208+ASCBEND DS	0D -	END OF ASCB 05450002
		000D0		5209 ASCBLEN EQU	*-ASCB	Length of ASCB

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
000000				5211 UCB	DSECT	
				5212	IEFUCBOB LIST=YES,PREFIX=NO Unit Control Block	
				5213+*/	%UCBL1 : ;	00250000
				5214+*/	*****	*/ 00300000
				5215+*/		*/ 00350000
				5216+*/	UNIT CONTROL BLOCK	*/ 00400000
				5217+*/		*/ 00450000
				5218+*/	*****	*/ 00500000
				5219+*/		*/ 00550000
				5220+*/	STATUS	*/ 00600000
				5221+*/		*/ 00650000
				5222+*/	OS/VS2 PTF. 07/24/79, LEVEL=2, (3800 ENH. FDM1133 SUPPORT).	*/ 00660003
				5223+*/		*/ 00750000
				5224+*/	METHOD OF ACCESS	*/ 00800000
				5225+*/		*/ 00850000
				5226+*/	-MULTIPROCESSING PREFIX, COMMON AND DEVICE DEPENDENT SEGMENTS,	*/ 00900000
				5227+*/	AND DEVICE DEPENDENT EXTENSIONS.	*/ 00950000
				5228+*/	THE UCB ADDRESS LOCATED FROM THE UCB LOOK UP TABLE POINTS	*/ 01000000
				5229+*/	TO THE COMMON SEGMENT. THIS ADDRESS MUST HAVE THE PREFIX	*/ 01050000
				5230+*/	ADDRESSABILITY CONSTANT SUBTRACTED FROM IT IN ORDER TO MAP	*/ 01100000
				5231+*/	THE PREFIX FIELDS AND STANDARD FIELDS VIA THIS MACRO.	*/ 01150000
				5232+*/		*/ 01200000
				5233+*/	PL/S - DCL UCBPTR PTR	*/ 01250000
				5234+*/	BAL - PREFIX=YES	*/ 01300000
				5235+*/	A DSECT STATEMENT LABELED UCB IS PROVIDED. A	*/ 01350000
				5236+*/	USING STATEMENT ON THE SYMBOL UCB WILL PROVIDE	*/ 01400000
				5237+*/	ADDRESSABILITY TO ALL PORTIONS OF THIS MAPPING	*/ 01450000
				5238+*/	MACRO EXCEPT THE EXTENSIONS. ADDITIONAL USING	*/ 01500000
				5239+*/	STATEMENTS ARE NECESSARY TO OBTAIN ADDRESSING	*/ 01550000
				5240+*/	TO THESE EXTENSIONS. THESE ARE AS FOLLOWS -	*/ 01600000
				5241+*/		*/ 01650000
				5242+*/	COMMON EXTENSION UCBCMEXT	*/ 01700000
				5243+*/	MAGNETIC TAPE EXTENSION UCBMT	*/ 01750000
				5244+*/	OPTICAL CHARACTER READER EXT UCBOCR	*/ 01800000
				5245+*/	3540 DEVICE EXTENSION UCB3540X @Z300P9A	*/ 01820003
				5246+*/	3800 DEVICE EXTENSION UCB3800X @Z40MP9A	*/ 01830004
				5247+*/	UNIT RECORD WITH UCS EXTENSION UCBUCS	*/ 01850000
				5248+*/		*/ 01900000
				5249+*/	WHEN LISTING IS SUPPRESSED, YOU CAN DETERMINE WHICH	*/ 01950000
				5250+*/	DSECT A SYMBOL IS IN BY USING THE STATEMENT NUMBER	*/ 02000000
				5251+*/	IN THE DEFN COLUMN IN THE CROSS REFERENCE LISTING.	*/ 02050000
				5252+*/	FOR EXAMPLE, ANY SYMBOL DEFINED BETWEEN THE	*/ 02100000
				5253+*/	STATEMENT NUMBERS FOR UCBMT AND UCBOCR IS IN THE	*/ 02150000
				5254+*/	UCBMT DSECT.	*/ 02200000
				5255+*/		*/ 02250000
				5256+*/	-ALL PORTIONS EXCEPT THE MP PREFIX.	*/ 02300000
				5257+*/		*/ 02350000
				5258+*/	BAL - PREFIX=NO OR THE PREFIX PARAMETER OMITTED OR EQUAL	*/ 02400000
				5259+*/	TO ANY STRING OTHER THAN YES.	*/ 02450000
				5260+*/	A DSECT STATEMENT SHOULD PRECEDE THE MACRO CALL.	*/ 02500000
				5261+*/	SYMBOLS IN THE COMMON SECTION AND DEVICE DEPENDENT	*/ 02550000
				5262+*/	SEGMENTS ARE ADDRESSABLE BY A USING ON UCB0B.	*/ 02600000
				5263+*/	THE ABOVE COMMENTS ON THE EXTENSIONS APPLY HERE.	*/ 02650000
				5264+*/		*/ 02700000
				5265+*/	F.E.'S	*/ 02750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5266+*/	*/	02800000
				5267+*/	MICROFICHE LISTING - IEFUCBOB	*/ 02850000
				5268+*/		*/ 02900000
				5269+*/	DEVELOPERS	*/ 02950000
				5270+*/		*/ 03000000
				5271+*/	BAL LISTING - SPECIFY LIST=YES ON MACRO CALL	*/ 03050000
				5272+*/	PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE INCLUDE	*/ 03100000
				5273+*/		*/ 03150000
				5274+*/		*/ 03200000
				5275+*/	FUNCTION	*/ 03250000
				5276+*/		*/ 03300000
				5277+*/	A UNIT CONTROL BLOCK INCORPORATING A SYSTEM RESOURCE TABLE	*/ 03350000
				5278+*/	RECORDS THE STATUS OF A PHYSICAL INPUT OUTPUT DEVICE	*/ 03400000
				5279+*/	ADDRESS AND IS CREATED AND INITIALIZED DURING SYSTEM	*/ 03450000
				5280+*/	GENERATION. THE UNIT CONTROL BLOCK RESIDES IN THE NUCLEUS	*/ 03500000
				5281+*/	BELOW 64K AND MAY POINT TO A DEVICE TYPE DEPENDENT	*/ 03550003
				5282+*/	EXTENSION RESIDING HIGHER IN THE NUCLEUS.	*/ 03600000
				5283+*/	THE COMMON SEGMENT OF THE UCB IS POINTED TO BY	*/ 03650000
				5284+*/	THE UCB LOOKUP TABLE WHICH IS INDEXED BY	*/ 03700000
				5285+*/	A FUNCTION OF THE CHANNEL CONTROL UNIT DEVICE ADDRESS.	*/ 03750000
				5286+*/	THE UCB MAY BE POINTED TO BY TASK INPUT/OUTPUT TABLES	*/ 03800000
				5287+*/	AND DATA EXTENT BLOCKS. THE UCB WILL CONTAIN INDICES	*/ 03850000
				5288+*/	INTO DEVICE STATISTICS, ATTENTION AND LOGICAL CHANNEL	*/ 03900000
				5289+*/	TABLES.	*/ 03950000
				5290+*/		*/ 04000000
				5291+*/	OUTPUT	*/ 04050000
				5292+*/	MULTIPROCESSING PREFIX	*/ 04100000
				5293+*/	SYSGEN INDEPENDENT COMMON SECTION	*/ 04150000
				5294+*/	INCLUDING UCBTYP WORD	*/ 04200000
				5295+*/	DEVICE DEPENDENT SEGMENT (ONE OF THE FOLLOWING)	*/ 04250000
				5296+*/	DIRECT ACCESS	*/ 04300000
				5297+*/	MAGNETIC TAPE	*/ 04350000
				5298+*/	UNIT RECORD WITH UCS OR 3886 OR 3540 OR 3800	@Z40MP9A*/ 04400004
				5299+*/	GRAPHICS EXCEPT 3270	*/ 04450000
				5300+*/	3270 GRAPHICS	*/ 04500000
				5301+*/	3704, 3705 TELEPROCESSING DEVICE	*/ 04550000
				5302+*/	CHANNEL-TO-CHANNEL DEVICE	*/ 04560004
				5303+*/	3851 OR 3838 DEVICE	@G29AN9A*/ 04565016
				5304+*/	COMMON EXTENSION	*/ 04600000
				5305+*/	UCB EXTENSION (ONE OF THE FOLLOWING)	*/ 04650000
				5306+*/	MAGNETIC TAPE	*/ 04700000
				5307+*/	OPTICAL CHARACTER READER	*/ 04750000
				5308+*/	3540 DEVICE	@Z300P9A*/ 04770003
				5309+*/	3800 DEVICE	@Z40MP9A*/ 04780004
				5310+*/	UNIT RECORD WITH UNIVERSAL CHARACTER SET	*/ 04800000
				5311+*/		*/ 04850000
				5312+*/	*****	*/ 04900000
				5313+*/	%GOTO UCBL2; /*	04950000
				5314+	PUSH PRINT	05000000
				5315+	*****	06250000
				5316+		06300000
				5317+	SYSGEN-INDEPENDENT	06350000
				5318+	COMMON SECTION	06400000
				5319+		06450000
000000				5320+UCBOB	DS 0F	06500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
		00000		5321+UCBBGN	EQU	* -			MDC158	06600000
				5322+*						06700000
				5323+*****						06750000
				5324+*						06800000
000000		00000		5325+UCBCMSEG	EQU	* -	START OF COMMON SECTION		MDC168	06850000
				5326+UCBJBNR	DS	B -	FLAG BYTE (OS/VS2)		MDC012	06900000
		00080		5327+UCBVRDEV	EQU	X'80' -	UCB FOR VIO DEVICE (MDC366) @G51BP9A			06950051
		00040		5328+UCBJES3	EQU	X'40' -	ALL VOLUME MOUNTING AND DEVICE			07000000
				5329+*			MANAGEMENT FOR THIS DEVICE IS			07050000
				5330+*			CONTROLLED BY JES3		MDC246	07100000
		00020		5331+UCBDUC	EQU	X'20' -	DISPLAY DEVICE UNIT CHECK - IPL			07150004
				5332+*			(MDC347) @ZA04127			07160004
		00010		5333+UCBBOX	EQU	X'10' -	IF THIS BIT AND UCBIORST BIT ARE ON,			07200041
				5334+*			THE DEVICE HA BEEN FORCED OFFLINE			07210041
				5335+*			DUE TO A ERROR (MDC383) @ZA36385			07220041
		00008		5336+UCBOLDISM	EQU	X'08' -	OLTEP COMMUNICATING DIRECTLY WITH			07250003
				5337+*			THE MASS STORAGE CONTROL (MSC),			07258003
				5338+*			NOT THROUGH THE MASS STORAGE SYSTEM			07266003
				5339+*			COMMUNICATOR (MSSC)			07274003
				5340+*			(MDC301) @Z30LP9A			07282003
		00004		5341+UCBMMSGP	EQU	X'04' -	MOUNT MESSAGE PENDING. THE DEVICE			07300003
				5342+*			HAS BEEN SELECTED BY DEVICE			07310003
				5343+*			ALLOCATION, BUT NO MOUNT MESSAGE HAS			07320003
				5344+*			BEEN ISSUED. (MDC361) @ZA14242			07330003
		00002		5345+UCBURINP	EQU	X'02' -	UNCONDITIONAL RESERVE IN PROGRESS			07350041
				5346+*			(MDC384) @ZA36385			07360041
		00001		5347+UCBMONT	EQU	X'01' -	VOLUME TO BE MOUNTED IS TO BE			07400000
				5348+*			RETAINED OR CONTAIN A PASSED DATA			07450000
				5349+*			SET (SET BY DEVICE ALLOCATION OR			07500000
000001				5350+*			DATA MANAGEMENT FOR OS/VS2) MDC014			07550000
				5351+UCBFL5	DS	B -	FLAGS			07600000
		00080		5352+UCBDCC	EQU	X'80' -	DISCONNECT COMMAND CHAIN DEVICE			07650000
				5353+*					MDC098	07700000
		00040		5354+UCBAF	EQU	X'40' -	ATTENTION FOR THIS CONSOLE DEVICE			07750000
				5355+*			IS TO BE PROCESSED BY THE			07800000
				5356+*			COMMUNICATIONS TASK ICB321			07850000
		00040		5357+UCBAMV	EQU	X'40' -	SUCCESSFUL COMPARISON CHECKING OF			07900000
				5358+*			THE ACCESS METHOD CATALOG AND THE			07950000
				5359+*			VTOC (VSAM DIRECT ACCESS DEVICES			08000000
				5360+*			ONLY) ICB437			08050000
		00020		5361+UCBSASK	EQU	X'20' -	DEVICE REQUIRES STAND ALONE			08100000
				5362+*			SEEK MDC099			08150000
		00010		5363+UCBVSDR	EQU	X'10' -	DEVICE HAS VARIABLE LENGTH SDR'S			08200000
		00008		5364+UCBENVRD	EQU	X'08' -	DEVICE RETURNS ENVIRONMENTAL			08250000
				5365+*			DATA MDC100			08300000
		00004		5366+UCBNALOC	EQU	X'04' -	THIS OFFLINE DEVICE IS BEING USED BY			08350000
				5367+*			A SYSTEM COMPONENT. THE DEVICE			08400000
				5368+*			STATUS MUST NOT CHANGE TO ONLINE NOR			08450000
				5369+*			WILL IT BE ALLOCATED. THE LAST			08500000
				5370+*			PATH/CHANNEL/CPU TO THE DEVICE MUST			08550000
				5371+*			NOT BE VARY'ED OFFLINE. THE DEVICE			08600000
				5372+*			IS UNAVAILABLE FOR USAGE BY ANOTHER			08650000
				5373+*			SYSTEM COMPONENT WHICH PROCESSES			08700000
				5374+*			OFFLINE DEVICES. TO SET THIS			08750000
				5375+*			INDICATOR ON, A COMPONENT MUST			08800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5376+*	OBTAIN VIA ENQ, EXCLUSIVE, SYSTEM	08850000
				5377+*	LEVEL CONTROL OF RESOURCE SYSIEFSD,	08900000
				5378+*	Q4. SERIALIZATION IS NOT REQUIRED	08950000
				5379+*	TO TURN THIS INDICATOR OFF. MDC027	09000000
		00002		5380+UCBALTCU EQU X'02' -	DEVICE HAS AN ALTERNATE CONTROL UNIT	09050000
				5381+*	ADDRESS	09100000
		00001		5382+UCBALTPH EQU X'01' -	DEVICE HAS AN ALTERNATE PATH	09150000
000002				5383+UCBID DS C -	UCB IDENTIFICATION (FF)	09200000
		000FF		5384+UCBSTND EQU X'FF' -	STANDARD UCB MDC101	09250000
000003				5385+UCBSTAT DS B -	DEVICE STATUS	09300000
		00080		5386+UCBONLI EQU X'80' -	DEVICE IS ONLINE	09350000
		00040		5387+UCBCHGS EQU X'40' -	DEVICE STATUS IS TO BE CHANGED FROM	09400000
				5388+*	ONLINE TO OFFLINE, AND EITHER	09450000
				5389+*	ALLOCATION IS ENQUEUED ON DEVICES	09500000
				5390+*	OR THE DEVICE IS ALLOCATED. (BIT 0	09550000
				5391+*	IS ALSO ON.)	09600000
		00020		5392+UCBRESV EQU X'20' -	THE MOUNT STATUS OF THE VOLUME ON	09650000
				5393+*	THIS DEVICE IS RESERVED	09700000
		00010		5394+UCBUNLD EQU X'10' -	UNLOAD OPERATOR COMMAND HAS BEEN	09750000
				5395+*	ADDRESSED TO THIS DEVICE. THE	09800000
				5396+*	DEVICE IS NOT YET UNLOADED.	09850000
		00008		5397+UCBALOC EQU X'08' -	DEVICE IS ALLOCATED	09900000
		00004		5398+UCBPRES EQU X'04' -	THE MOUNT STATUS OF THE VOLUME ON	09950000
				5399+*	THIS DEVICE IS PERMANENTLY RESIDENT	10000000
		00002		5400+UCBSYSR EQU X'02' -	SYSTEM RESIDENCE DEVICE OR	10050000
				5401+*	PRIMARY CONSOLE OR	10100000
				5402+*	ACTIVE CONSOLE	10150000
		00001		5403+UCBDADI EQU X'01' -	STANDARD TAPE LABELS HAVE BEEN	10200000
				5404+*	VERIFIED FOR THIS TAPE VOLUME	10250000
				5405+*	OR SECONDARY CONSOLE OR	10300000
				5406+*	CONSOLE STATUS CHANGING	10350000
000004				5407+UCBCHAN DS 0FL2 -	BINARY CHANNEL/UNIT ADDRESS MDC102	10400000
000004				5408+UCBCHA DS FL1 -	BINARY CHANNEL ADDRESS OF LAST	10450000
				5409+*	STARTED I/O OPERATION	10500000
000005				5410+UCBUA DS FL1 -	BINARY UNIT ADDRESS	10550000
000006				5411+UCBSFLS DS 0BL2 -	DEVICE STATUS FLAGS MDC103	10600000
000006				5412+UCBFLA DS BL1 -	I/O SUPERVISOR FLAG BYTE A MDC104	10650000
		00006		5413+UCBFL1 EQU UCBFLA -	ALIAS	10700000
		00080		5414+UCBBSY EQU X'80' -	DEVICE IS BUSY MDC105	10750000
		00080		5415+UCBBUSYD EQU UCBBSY -	ALIAS	10800000
		00040		5416+UCBNRY EQU X'40' -	DEVICE NOT READY MDC106	10850000
		00040		5417+UCBNOTRD EQU UCBNRY -	ALIAS	10900000
		00020		5418+UCBPST EQU X'20' -	POST FLAG (ASSOC IOQE) MDC107	10950000
		00020		5419+UCBUSING EQU UCBPST -	ALIAS	11000000
		00010		5420+UCBPSNS EQU X'10' -	PENDING SENSE OPERATION MDC108	11050000
		00008		5421+UCBCUB EQU X'08' -	CONTROL UNIT BUSY MDC109	11100000
		00008		5422+UCBNOTRC EQU UCBCUB -	ALIAS	11150000
		00004		5423+UCBSAP EQU X'04' -	STAND ALONE PROCESS ON DEVICE ACTIVE	11200000
				5424+*	(EG., RESERVE) MDC110	11250000
		00002		5425+UCBACTV EQU X'02' -	CHANNEL PROGRAM ACTIVE ON DEVICE	11300000
				5426+*	MDC111	11350000
		00001		5427+UCBQISCE EQU X'01' -	DEVICE QUIESCED MDC112	11400000
000007				5428+UCBFLB DS BL1 -	I/O SUPERVISOR FLAG BYTE B MDC113	11450000
		00080		5429+UCBIORST EQU X'80' -	I/O RESTART VIA ALTERNATE CPU	11500000
				5430+*	RECOVERY HAS FACTORED DEVICE OUT	11550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5431+*	OF CONFIGURATION BECAUSE OF	11600000
				5432+*	NON-ACCESSABILITY. ALL INCOMING	11650000
				5433+*	I/O REQUESTS ARE INTERCEPTED AND	11700000
				5434+*	MARKED IN PERMANENT ERROR WITH A	11750000
				5435+*	COMPLETION CODE OF X'51'.	11800003
				5436+*	HOWEVER, IF CHANNEL RECONFIGURATION	11805003
				5437+*	HARDWARE (CRH) IS ACTIVE AND CRH	11810003
				5438+*	WILL BE USED TO ACCESS THE DEVICE	11815003
				5439+*	ASSOCIATED WITH THE UCB, THIS BIT	11820003
				5440+*	WILL BE ON IN EVERY UCB THAT HAS	11825003
				5441+*	OUTSTANDING I/O ACROSS A CRH PATH.	11830003
				5442+*	(MDC320) @Z30CQ9A	11835003
	00040			5443+UCBASNS EQU X'40' -	SENSE ACTIVE ON DEVICE MDC115	11850000
	00020			5444+UCBSPST EQU X'20' -	SENSE POST INDICATOR MDC116	11900000
	00010			5445+UCBRESVH EQU X'10' -	DEVICE RESERVED INDICATOR MDC157	11950000
	00008			5446+UCBCRHRV EQU X'08' -	RESERVED PATH THROUGH A CHANNEL	12000003
				5447+*	RECONFIGURATION HARDWARE (CRH)	12010003
				5448+*	CONNECTION (MDC303) @Z30CQ9A	12020003
	00004			5449+UCBCRHSN EQU X'04' -	IF 1, SENSE PENDING FROM INOPERATIVE	12050003
				5450+*	CPU. IF 0, SENSE PENDING FROM	12058003
				5451+*	OPERATIVE CPU. BIT IS SET ONLY WHEN	12066003
				5452+*	CHANNEL RECONFIGURATION HARDWARE	12074003
				5453+*	(CRH) IS ACTIVE. (MDC332) @Z30CQ9A	12082003
	00002			5454+UCBVALPH EQU X'02' -	PATH VALIDATION (MDC337) @ZA00078	12100003
	00001			5455+UCBSIGP EQU X'01' -	IOS SIGP INDICATOR TO PREVENT	12150004
				5456+*	PING/PONG (MDC346) @ZA03601	12160004
000008				5457+UCBCHM DS 0B -	PATH STATUS MASK FOR THIS DEVICE	12200000
				5458+*	MDC198	12250000
000008				5459+UCBCHM1 DS B -	SAME AS UCBCHM MDC199	12300000
	000C0			5460+UCBPTH0 EQU X'C0' -	PATHS FROM CPU 0 MDC200	12350000
	00080			5461+UCBPPA EQU X'80' -	PRIMARY PATH CPU 0. IF 0, PATH IS	12400004
				5462+*	AVAILABLE. IF 1, PATH IS	12410004
				5463+*	UNAVAILABLE. (MDC350) @Z40AQ9A	12420004
	00040			5464+UCBSPA EQU X'40' -	SECONDARY PATH CPU 0. IF 0, PATH IS	12450004
				5465+*	AVAILABLE. IF 1, PATH IS	12460004
				5466+*	UNAVAILABLE. (MDC351) @Z40AQ9A	12470004
	00030			5467+UCBPTH1 EQU X'30' -	PATHS FROM CPU 1 MDC203	12500000
	00020			5468+UCBPPB EQU X'20' -	PRIMARY PATH CPU 1. IF 0, PATH IS	12550004
				5469+*	AVAILABLE. IF 1, PATH IS	12560004
				5470+*	UNAVAILABLE. (MDC352) @Z40AQ9A	12570004
	00010			5471+UCBSPB EQU X'10' -	SECONDARY PATH CPU 1. IF 0, PATH IS	12600004
				5472+*	AVAILABLE. IF 1, PATH IS	12610004
				5473+*	UNAVAILABLE. (MDC353) @Z40AQ9A	12620004
	00008			5474+UCBRV014 EQU X'08' , , C'X' -	RESERVED	12650000
	00004			5475+UCBRV015 EQU X'04' , , C'X' -	RESERVED	12700000
	00002			5476+UCBRV016 EQU X'02' , , C'X' -	RESERVED	12750000
	00001			5477+UCBRV017 EQU X'01' , , C'X' -	RESERVED	12800000
000009				5478+UCBCNT DS FL1 -	COUNT OF QUEUED REQUESTS WAITING	12850000
				5479+*	FOR DEVICE MDC206	12900000
00000A				5480+UCBLCI DS FL1 -	INCREMENT WHICH, WHEN MULTIPLIED BY	12950000
				5481+*	32, BECOMES AN INDEX TO THE LOGICAL	13000004
				5482+*	CHANNEL TABLE (LCHTAB)	13050000
				5483+*	(MDC349) @Z40AQ9A	13070004
00000B				5484+UCBCPU DS XL1 -	LAST SIO TO DEVICE ISSUED FROM THIS	13100000
				5485+*	CPUID MDC207	13150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
00000C				5486+UCBWGT	DS	B -	FLAGS 13200000
		00080		5487+UCBIN	EQU	X'80' -	SYSIN 13250000
		00040		5488+UCBOUT	EQU	X'40' -	SYSOUT 13300000
		00020		5489+UCBPUB	EQU	X'20' -	ASSUMED THAT THIS DEVICE WILL BE 13350000
				5490+*			ALLOCATED FOR A PUBLIC VOLUME 13400000
				5491+*			REQUEST 13450000
		00010		5492+UCBREW	EQU	X'10' -	REWIND COMMAND HAS BEEN ADDRESSED TO 13500000
				5493+*			THIS MAGNETIC DEVICE BY I/O SUPPORT 13550000
		00008		5494+UCBMTPXP	EQU	X'08' -	MULTIPLE EXPOSURE DEVICE MDC117 13600000
		00004		5495+UCBVORSN	EQU	X'04' -	VARY COMMAND OPERATOR REASON 13650000
				5496+*			INDICATOR MDC118 13700000
		00002		5497+UCBVHRSN	EQU	X'02' -	VARY COMMAND HIERARCHY REASON 13750000
				5498+*			INDICATOR MDC119 13800000
		00001		5499+UCBRV029	EQU	X'01' , , C'X' -	RESERVED MDC028 13850000
00000D				5500+UCBNAME	DS	CL3 -	UNIT NAME (EBCDIC) 13900000
000010				5501+UCBTYP	DS	0CL4 -	DEVICE TYPE 13950000
000010				5502+UCBTBYT1	DS	B -	MODEL BITS 14000000
		00080		5503+UCB1FEA0	EQU	X'80' -	BIT 0 14050000
		00040		5504+UCB1FEA1	EQU	X'40' -	BIT 1 14100000
		00020		5505+UCB1FEA2	EQU	X'20' -	BIT 2 14150000
		00010		5506+UCB1FEA3	EQU	X'10' -	BIT 3 14200000
		00008		5507+UCB1FEA4	EQU	X'08' -	BIT 4 14250000
		00004		5508+UCB1FEA5	EQU	X'04' -	BIT 5 14300000
		00004		5509+UCBD1600	EQU	X'04' -	1600 BPI ICB475 14350000
		00002		5510+UCB1FEA6	EQU	X'02' -	BIT 6 14400000
		00002		5511+UCBD6250	EQU	X'02' -	6250 BPI ICB475 14450000
		00001		5512+UCB1FEA7	EQU	X'01' -	BIT 7 14500000
000011				5513+UCBTBYT2	DS	B -	OPTION FLAGS 14550000
		00080		5514+UCB20PT0	EQU	X'80' -	FLAG 0 14600000
		00040		5515+UCB20PT1	EQU	X'40' -	FLAG 1 14650000
		00020		5516+UCB20PT2	EQU	X'20' -	FLAG 2 14700000
		00020		5517+UCBDUDN1	EQU	X'20' -	DUAL DENSITY 800/1600 BPI ICB475 14750000
		00020		5518+UCBRR	EQU	X'20' -	THIS DEVICE IS SHARABLE BETWEEN 14800000
				5519+*			TWO CPU'S (DIRECT ACCESS) MDC159 14850000
		00010		5520+UCB20PT3	EQU	X'10' -	FLAG 3 14900000
		00010		5521+UCBDUDN2	EQU	X'10' -	DUAL DENSITY 1600/6250 BPI ICB475 14950000
		00010		5522+UCBRPS	EQU	X'10' -	ROTATIONAL POSITION SENSING (RPS) 15000000
				5523+*			DEVICE (DIRECT ACCESS) MDC120 15050000
		00008		5524+UCB20PT4	EQU	X'08' -	FLAG 4 15100000
		00008		5525+UCBRWTAU	EQU	X'08' -	READ/WRITE TAPE CONTROL MDC166 15150000
		00008		5526+UCBRVDEV	EQU	X'08' -	IF 0, REAL DEVICE. IF 1, VIRTUAL 15160003
				5527+*			DEVICE. (DIRECT ACCESS) 15170003
				5528+*			(MDC300) @Z30LP9A 15180003
		00004		5529+UCB20PT5	EQU	X'04' -	FLAG 5 15200000
		00002		5530+UCB20PT6	EQU	X'02' -	FLAG 6 15250000
		00002		5531+UCBVLPWR	EQU	X'02' -	VOLUME REQUIRES ALTERNATE POWER 15300003
				5532+*			SOURCE DEVICE (MDC322) @Z30AQ9A 15310003
		00001		5533+UCB20PT7	EQU	X'01' -	FLAG 7 15350000
		00001		5534+UCBDVPWR	EQU	X'01' -	DEVICE HAS ALTERNATE POWER SOURCE 15400003
				5535+*			(MDC323) @Z30AQ9A 15410003
000012				5536+UCBDVCLS	DS	0B -	SAME AS UCBTBYT3 MDC169 15450000
000012				5537+UCBTBYT3	DS	B -	CLASS BITS 15500000
		00080		5538+UCB3TAPE	EQU	X'80' -	TAPE 15550000
		00040		5539+UCB3COMM	EQU	X'40' -	COMMUNICATIONS 15600000
		00041		5540+UCB3CTC	EQU	X'41' -	CHANNEL-TO-CHANNEL ADAPTER MDC239 15650000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00020	5541+UCB3DACC	EQU	X'20' -	DIRECT ACCESS 15700000
			00010	5542+UCB3DISP	EQU	X'10' -	DISPLAY 15750000
			00008	5543+UCB3UREC	EQU	X'08' -	UNIT RECORD 15800000
			00004	5544+UCB3CHAR	EQU	X'04' -	CHARACTER READER 15850000
			00002	5545+UCBRSV10	EQU	X'02' , , C'X' -	RESERVED 15900000
			00001	5546+UCBRSV11	EQU	X'01' , , C'X' -	RESERVED 15950000
000013				5547+UCBUNTYP	DS	0C -	SAME AS UCBTBYT4 MDC170 16000000
000013				5548+UCBTBYT4	DS	C -	DEVICE CODE 16050000
		000F1		5549+UCB3791L	EQU	X'F1' -	3791 LOCAL CONTROL UNIT 16053004
				5550+*			(MDC342) @Z40KP9A 16056004
		0004C		5551+UCB3838	EQU	X'4C' -	3838 ARRAY PROCESSOR 16057016
				5552+*			(MDC360) @G29AN9A 16058016
		00042		5553+UCBDSM	EQU	X'42' -	MASS STORAGE CONTROL (MSC) (3851) 16060003
				5554+*			(MDC329) @Z30LP9A 16070003
		0003D		5555+UCB7443	EQU	X'3D' -	7443 SERVICE RECORD FILE 16073051
				5556+*			(MDC368) @G51DP9A 16076051
		00019		5557+UCB3895	EQU	X'19' -	3895 DEVICE (MDC363) @G30AP9A 16080016
		00011		5558+UCB42AD1	EQU	X'11' -	2702 CONTROL UNIT WITH TYPE 1 16100000
				5559+*			ADAPTOR 16150000
		0000E		5560+UCB3800	EQU	X'0E' -	3800 DEVICE (MDC321) @Z40MP9A 16170004
		0000D		5561+UCB3036	EQU	X'0D' -	3036 DISPLAY CONSOLE 16180051
				5562+*			(MDC367) @G51AP9A 16190051
		00009		5563+UCB3211	EQU	X'09' -	3211 PRINTER MDC165 16200000
		00003		5564+UCB3400	EQU	X'03' -	3400 MAGNETIC TAPE MDC021 16250000
		00001		5565+UCB2400	EQU	X'01' -	2400 SERIES MAGNETIC TAPE 16300000
				5566+*			DEVICE ICB376 16350000
000014				5567+UCBEXTPT	DS	0A -	ADDRESS OF COMMON UCB EXTENSION 16400000
				5568+*			MDC227 16450000
000014				5569+UCBFLC	DS	BL1 -	I/O SUPERVISOR FLAG BYTE C MDC228 16500000
		00080		5570+UCBATTTP	EQU	X'80' -	ATTENTION PENDING MDC229 16550000
		00040		5571+UCBWAA	EQU	X'40' -	WORK AREA APPENDED MDC230 16600000
		00020		5572+UCBUDE	EQU	X'20' -	UNSOLICITED DEVICE END RECEIVED 16650000
				5573+*			MDC231 16700000
		00010		5574+UCBITF	EQU	X'10' -	INTERCEPT CONDITION MDC232 16750000
		00008		5575+UCBIVRS	EQU	X'08' -	INTERVENTION REQUIRED MESSAGE 16800000
				5576+*			ISSUED MDC233 16850000
		00004		5577+UCBIVRR	EQU	X'04' -	INTERVENTION REQUIRED MESSAGE 16900000
				5578+*			IS NEEDED MDC234 16950000
		00002		5579+UCBTICBT	EQU	X'02' -	CHANNEL END AND/OR DEVICE END 17000000
				5580+*			OR MOUNT CONDITION PENDING. MDC235 17050000
		00001		5581+UCBDDRSW	EQU	X'01' -	DDR SWITCH PENDING ON THIS 17100000
				5582+*			DEVICE MDC236 17150000
000015				5583+UCBEXTP	DS	AL3 -	ADDRESS OF COMMON UCB EXTENSION 17200000
				5584+*			MDC237 17250000
				5585+*			17300000
		00000		5586+SRTEJBNR	EQU	UCBJBNR -	ALIAS 17350000
		00001		5587+SRTEMNT	EQU	UCBMONT -	ALIAS 17400000
		00003		5588+SRTESTAT	EQU	UCBSTAT -	ALIAS 17450000
		00080		5589+SRTEONLI	EQU	UCBONLI -	ALIAS 17500000
		00040		5590+SRTECHGS	EQU	UCBCHGS -	ALIAS 17550000
		00020		5591+SRTERESV	EQU	UCBRESV -	ALIAS 17600000
		00010		5592+SRTEUNLD	EQU	UCBUNLD -	ALIAS 17650000
		00008		5593+SRTEALOC	EQU	UCBALOC -	ALIAS 17700000
		00004		5594+SRTEPRES	EQU	UCBPRES -	ALIAS 17750000
		00002		5595+SRTESYSR	EQU	UCBSYSR -	ALIAS 17800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
		00001		5596+	SRTEDADI EQU UCBDAI - ALIAS	17850000
		00006		5597+	UCBFL2 EQU UCBFL1 - ALIAS (UCBCHA WAS ONCE UCBFL1)	17900000
				5598+	*	17950000
				5599+	*****	18000000
				5600+	*	18050000
				5601+	DEVICE-DEPENDENT UCB SEGMENTS	18100000
				5602+	*	18150000
		00018		5603+	UCBDEV EQU *	18200000
				5604+	*	18250000
				5605+	*****	18300000
				5606+	*	18350000
				5607+	DIRECT ACCESS DEVICE SEGMENT	18400000
				5608+	*	18450000
000018		00018		5609+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	18500000
				5610+	*	18550000
				5611+	UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS	18600000
				5612+	IN DIRECT ACCESS SEGMENT	18650000
				5613+	*	18700000
				5614+	*****	18750000
				5615+	*	18800000
000018				5616+	UCBVTOC DS CL4 - RELATIVE ADDRESS OF VTOC FOR THIS	18850000
				5617+	* VOLUME, IN FORM TTR0 MDC085	18900000
00001C				5618+	UCBVOLI DS CL6 - VOLUME SERIAL NUMBER	18950000
000022				5619+	UCBSTAB DS BL1 - VOLUME STATUS	19000000
		00080		5620+	UCBBSVL EQU X'80' - VOLUME DEMOUNTABLE BY DATA	19050000
				5621+	* MANAGEMENT (DIRECT ACCESS)	19100000
				5622+	* (OS/VS2) MDC008	19150000
		00080		5623+	UCBDVSHR EQU X'80' - DEVICE NOT SHARABLE AMONG SEVERAL	19200000
				5624+	* CPU'S (3420 MAGNETIC TAPE DEVICES	19250000
				5625+	* ONLY) (MDC245) XA03017	19300000
		00040		5626+	UCBPGFL EQU X'40' - UCB IS OPEN AND IS BEING USED AS A	19350000
				5627+	* PAGE FILE	19400000
		00020		5628+	UCBPRSRS EQU X'20' - DURING VOLUME ATTRIBUTE PROCESSING	19450000
				5629+	* THIS BIT IS USED BOTH TO DENOTE	19500000
				5630+	* UCB'S THAT WERE MARKED PERMANENTLY	19550000
				5631+	* RESIDENT PRIOR TO GETTING CONTROL	19600000
				5632+	* AND TO IDENTIFY DEVICES THAT WERE	19650000
				5633+	* SELECTED BY THE OPERATOR FOR	19700000
				5634+	* MOUNTING VOLUMES (DIRECT ACCESS)	19750000
				5635+	* MDC162	19800000
		00020		5636+	UCBBALB EQU X'20' - ADDITIONAL VOLUME LABEL PROCESSING	19850000
				5637+	* (TAPE)	19900000
		00010		5638+	UCBBPRV EQU X'10' - PRIVATE - VOLUME USE STATUS	19950000
		00008		5639+	UCBBPUB EQU X'08' - PUBLIC - VOLUME USE STATUS	20000000
		00004		5640+	UCBBSTR EQU X'04' - STORAGE - VOLUME USE STATUS	20050000
				5641+	* (DIRECT ACCESS)	20100000
				5642+	* THE VOLUME MOUNTED HAS AN AMERICAN	20150000
				5643+	* NATIONAL STANDARD LABEL (TAPE)	20200000
		00002		5644+	UCBSHAR EQU X'02' - VOLUME SHAREABLE AMONG JOB STEPS	20250000
				5645+	* (OS/VS2) MDC020	20300000
		00001		5646+	UCBBNUL EQU X'01' - CONTROL VOLUME - A CATALOG DATA SET	20350000
				5647+	* IS ON THIS VOLUME (DIRECT ACCESS)	20400000
				5648+	* IF THE MULTIPLE CONSOLE SUPPORT	20450000
				5649+	* OPTION IS IN THE SYSTEM, DEMOUNT OR	20500000
				5650+	* MOUNT MESSAGES HAVE BEEN ISSUED AND	20550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5651+*	THE MESSAGE ID'S ARE AT OFFSETS 40	20600000
				5652+*	THROUGH 45. OPEN WILL DELETE THE	20650000
				5653+*	MESSAGES AND TURN THIS BIT OFF.	20700000
				5654+*	(TAPE)	20750000
000023				5655+UCBDMCT DS XL1 -	VOLUME USE BYTE	20800000
		00080		5656+UCBMOUNT EQU X'80' -	IF 0, A MOUNT VERIFICATION HAS BEEN	20850000
				5657+*	PERFORMED. IF 1, A MOUNT REQUEST	20900000
				5658+*	HAS BEEN ISSUED. (DIRECT ACCESS)	20950000
				5659+*	FOR TAPE, THE FOLLOWING MEANINGS	21000000
				5660+*	APPLY.	21050000
				5661+*	NORMAL SCHEDULER PROCESSING - IF 0,	21100000
				5662+*	NO VOLUME HAS BEEN MOUNTED. IF 1,	21150000
				5663+*	A VOLUME HAS BEEN MOUNTED BUT NO	21200000
				5664+*	VOLUME LABEL PROCESSING HAS BEEN	21250000
				5665+*	PERFORMED.	21300000
				5666+*	SL OPEN ROUTINE - IF 0, STANDARD	21350000
				5667+*	VOLUME LABEL AND CORRECT SERIAL	21400000
				5668+*	NUMBER HAVE BEEN VERIFIED. IF 1,	21450000
				5669+*	VOLUME LABEL IS NOT STANDARD FORMAT	21500000
				5670+*	OR SERIAL NUMBER IS NOT CORRECT.	21550000
				5671+*	(A MOUNT MESSAGE HAS BEEN ISSUED.)	21600000
				5672+*	NSL OPEN ROUTINE - IF 0,	21650000
				5673+*	NON-STANDARD VOLUME LABEL HAS BEEN	21700000
				5674+*	VERIFIED. IF 1, VOLUME LABEL IS NOT	21750000
				5675+*	STANDARD FORMAT. (CONTROL PASSES TO	21800000
				5676+*	THE PROCESSING PROGRAM'S	21850000
				5677+*	NON-STANDARD LABEL PROCESSING	21900000
				5678+*	ROUTINE.) VOLUME LABEL IS STANDARD	21950000
				5679+*	FORMAT. (CONTROL REMAINS WITH THE	22000000
				5680+*	OPEN ROUTINE. A MOUNT MESSAGE HAS	22050000
				5681+*	BEEN ISSUED.)	22100000
				5682+*	BLP OPEN ROUTINE - IF 0, VOLUME	22150000
				5683+*	LABEL HAS NOT BEEN PROCESSED.	22200000
		0007F		5684+UCBDMC EQU X'7F' -	NUMBER OF DCB'S OPEN FOR THIS VOLUME	22250000
		00024		5685+UCBDATP EQU * -	END OF COMMON DIRECT ACCESS/TAPE	22300000
				5686+*	AREA	22350000
000024				5687+UCBSQC DS FL1 -	NUMBER OF RESERVE MACRO INSTRUCTIONS	22400000
				5688+*	ISSUED MDC086	22450000
000025				5689+UCBFL4 DS BL1 -	DIRECT ACCESS FLAG BYTE MDC087	22500000
		00080		5690+UCBDAVV EQU X'80' -	DIRECT ACCESS VOLUME VERIFICATION	22550000
				5691+*	IN CONTROL (DAVV) MDC127	22600000
		00040		5692+UCBWDAV EQU X'40' -	DAVV WAITING FOR MOUNT MDC128	22650000
		00020		5693+UCBRESVP EQU X'20' -	RESERVE CHANNEL PROGRAM PENDING	22700003
				5694+*	(MDC356) @ZA06072	22710003
		00010		5695+UCBDSS EQU X'10' -	READ HOME ADDRESS AND READ RECORD	22750000
				5696+*	ZERO OPERATIONS HAVE BEEN PERFORMED	22800000
				5697+*	BY DYNAMIC SUPPORT SYSTEM (DSS)	22850000
				5698+*	MDC088	22900000
		00008		5699+UCBATTN EQU X'08' -	3330V ATTENTION RECEIVED	22920016
				5700+*	(MDC357) @G24LP9A	22950016
		00004		5701+UCBHOLD EQU X'04' -	3330V CYLINDER FAULT PENDING	23000016
				5702+*	(MDC358) @G24LP9A	23010016
		00002		5703+UCBMAT EQU X'02' -	3330V ATTENTION OVERDUE	23050016
				5704+*	(MDC359) @G24LP9A	23060016
		00001		5705+UCBRRP EQU X'01' -	RESERVE/RELEASE PENDING	23100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5706+*	(MDC373)	@G64DP9A 23110000
000026				5707+UCBUSER DS	FL1 - NUMBER OF CURRENT USERS	MDC089 23150000
000027				5708+UCBSATI DS	FL1 - ATTENTION TABLE INDEX	@ZA41195 23200003
				5709+*	SAVED BY THE SCHEDULER.	23216603
				5710+*	(MDC395) @ZA41195	23233203
000028				5711+UCBBASE DS	A - ADDRESS OF BASE EXPOSURE UCB	MDC130 23250000
00002C				5712+UCBNEXP DS	A - BASE - ADDRESS OF LAST STARTED	23300000
				5713+*	EXPOSURE	23350000
				5714+*	NON-BASE - ADDRESS OF NEXT	23400000
				5715+*	EXPOSURE IN THE RING	23450000
				5716+*	THIS ADDRESS POINTS TO THE	23500000
				5717+*	MULTIPROCESSING PREFIX	MDC131 23550000
				5718+*		23600000
				5719+*****		23650000
				5720+*		23700000
				5721+*	MAGNETIC TAPE SEGMENT	23750000
				5722+*		23800000
000030		00018		5723+*	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	23850000
				5724+*		23900000
				5725+*	UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS	23950000
				5726+*	IN DIRECT ACCESS SEGMENT	24000000
				5727+*		24050000
				5728+*****		24100000
				5729+*		24150000
000018				5730+UCBFSC T DS	H - DATA SET SEQUENCE COUNT	MDC090 24200000
00001A				5731+UCBFSEQ DS	H - DATA SET SEQUENCE NUMBER	MDC091 24250000
00001C				5732+*	CL8 - UCBVOLI, UCBSTAB AND UCBDMCT AS IN	24300000
				5733+*	DIRECT ACCESS SEGMENT	24350000
000024				5734+UCBFSE R DS	CL6 - BEFORE OPEN, MESSAGE ID'S. SEE	24400000
				5735+*	UCBSTAB BIT 7. AFTER OPEN, DATA	24450000
				5736+*	SET SERIAL NUMBER	MDC092 24500000
00002A				5737+UCBRES1B DS	XL1 - RESERVED	24550000
00002B				5738+UCBTFL1 DS	B - FLAG BYTE (TAPE DEVICES ONLY)	MDC015 24600000
		00080		5739+UCBNLT P EQU	X'80' - TAPE VOLUME DOES NOT CONTAIN	24650000
				5740+*	LABELS	MDC016 24700000
		00040		5741+UCBNSLT P EQU	X'40' - TAPE CONTAINS NON-STANDARD	24750000
				5742+*	LABELS	MDC017 24800000
		00020		5743+UCBDQDSP EQU	X'20' - DEQUEUE TAPE VOLUME WHEN DEMOUNTED	24850003
				5744+*	(MDC369) @ZA18180	24860003
		00010		5745+UCBRV005 EQU	X'10',,C'X' - RESERVED	24900000
		00008		5746+UCBRV006 EQU	X'08',,C'X' - RESERVED	24950000
		00004		5747+UCBRV007 EQU	X'04',,C'X' - RESERVED	25000000
		00002		5748+UCBRV008 EQU	X'02',,C'X' - RESERVED	25050000
		00001		5749+UCBRV009 EQU	X'01',,C'X' - RESERVED	25100000
00002C				5750+UCBXTN DS	0A - ADDRESS OF THE MAGNETIC TAPE UCB	25150000
				5751+*	EXTENSION	MDC093 25200000
00002C				5752+UCBVOPT DS	BL1 - VOLUME STATISTICS OPTION BITS	MDC094 25250000
		00080		5753+UCBESV EQU	X'80' - ERROR STATISTICS BY VOLUME (ESV)	25300000
				5754+*	RECORDS KEPT	MDC094 25350000
		00040		5755+UCBEVA EQU	X'40' - ERROR VOLUME ANALYSIS (EVA) RECORDS	25400000
				5756+*	KEPT	MDC094 25450000
		00020		5757+UCBESVC EQU	X'20' - IF 0, ESV RECORDS SENT TO SYS1.MAN	25500000
				5758+*	(X OR Y) DATA SET.	25550000
				5759+*	IF 1, ESV RECORDS SENT TO CONSOLE.	25600000
				5760+*		MDC094 25650000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
			00010	5761+UCBERPC	EQU	X'10' -	AN ERROR RECOVERY PROCEDURE HAS 25700000
				5762+*			CONTROL MDC094 25750000
			00008	5763+UCBESVE	EQU	X'08' -	AN ESV RECORD HAS BEEN ISSUED FOR 25800000
				5764+*			THIS VOLUME BECAUSE OF AN EOVS 25850000
				5765+*			CONDITION MDC094 25900000
			00004	5766+UCBRSV20	EQU	X'04',,C'X' -	RESERVED MDC094 25950000
			00002	5767+UCBRSV21	EQU	X'02',,C'X' -	RESERVED MDC094 26000000
			00001	5768+UCBRSV22	EQU	X'01',,C'X' -	RESERVED MDC094 26050000
00002D				5769+UCBXTNB	DS	AL3 -	ADDRESS OF THE MAGNETIC TAPE UCB 26100000
				5770+*			EXTENSION MDC095 26150000
				5771+*			26200000
			0001C	5772+SRTEVOLI	EQU	UCBVOLI -	ALIAS 26250000
			00022	5773+SRTESTAB	EQU	UCBSTAB -	ALIAS 26300000
			00080	5774+SRTEBSVL	EQU	UCBBSVL -	ALIAS 26350000
			00020	5775+SRTEBALB	EQU	UCBBALB -	ALIAS 26400000
			00010	5776+SRTEBPRV	EQU	UCBBPRV -	ALIAS 26450000
			00008	5777+SRTEBPUB	EQU	UCBBPUB -	ALIAS 26500000
			00004	5778+SRTEBSTR	EQU	UCBBSTR -	ALIAS 26550000
			00004	5779+SRTEASCI	EQU	UCBBSTR -	ALIAS 26600000
			00004	5780+UCBASCI	EQU	SRTEASCI -	ALIAS 26650000
			00004	5781+SRTEBVQS	EQU	SRTEBSTR -	ALIAS 26700000
			00001	5782+SRTEBNUL	EQU	UCBBNUL -	ALIAS 26750000
			00023	5783+SRTEDMCT	EQU	UCBDMCT -	ALIAS 26800000
			00018	5784+SRTEFSCT	EQU	UCBFSCT -	ALIAS 26850000
			0001A	5785+SRTEFSEQ	EQU	UCBFSEQ -	ALIAS 26900000
			00026	5786+SRTEUSER	EQU	UCBUSER -	ALIAS 26950000
				5787+*			27000000
				5788+*****			27050000
				5789+*			27100000
				5790+*			27150000
				5791+*		UNIT RECORD WITH	27200000
				5792+*		UNIVERSAL CHARACTER SET (1403, 3211)	27250000
				5793+*		OR OPTICAL CHARACTER READER (3886)	27270003
				5794+*		OR 3540 DEVICE	@Z300P9A 27280004
				5795+*		OR 3800 DEVICE	@Z40MP9A 27300000
				5796+*		UCB SEGMENT	27350000
000030			00018	5797+	ORG	UCBDEV -	DEVICE-DEPENDENT SEGMENT 27400000
				5798+*			27450000
				5799+*****			27500000
				5800+*			27550000
000018				5801+UCBXTADR	DS	A -	ADDRESS OF UCS UCB EXTENSION (1403 27600000
				5802+*			OR 3211) OR ADDRESS OF OPTICAL 27650000
				5803+*			CHARACTER READER UCB EXTENSION 27700000
				5804+*			(3886) OR ADDRESS OF 3540 DEVICE 27750003
				5805+*			UCB EXTENSION (3540) OR ADDRESS OF 27760004
				5806+*			3800 UCB EXTENSION (3800) (MDC304) 27763004
				5807+*			@Z40MP9A 27770004
				5808+*			27800000
				5809+*****			27850000
				5810+*			27900000
				5811+*		GRAPHICS EXCEPT 3270	27950000
				5812+*		UCB SEGMENT	28000000
				5813+*			28050000
00001C			00018	5814+	ORG	UCBDEV -	DEVICE-DEPENDENT SEGMENT 28100000
				5815+*			28150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5816+*****		28200000
				5817+*		28250000
000018				5818+UCBSTART DS	H - LAST START ADDRESS (MDC247) YM4067	28300000
00001A				5819+UCBOPEN DS	FL1 - NUMBER OF DCB'S THAT ARE CURRENTLY	28350000
				5820+*	OPEN FOR THIS DEVICE	28400000
00001B				5821+UCBGCB DS	C - GRAPHIC CONTROL BYTE USED FOR	28450000
				5822+*	ATTENTION HANDLING	28500000
00001C				5823+UCBTEB DS	A - ADDRESS OF TASK ENTRY (TE) BLOCK	28550000
000020				5824+UCBSNS DS	XL4 - SENSE INFORMATION (MDC248) YM4067	28600000
000024				5825+UCBBTA DS	0A - ADDRESS OF BUFFER TABLE	28650000
000024				5826+UCBDI DS	FL1 - DEVICE OR DEVICES ON A CONTROL UNIT	28700000
				5827+*	TO WHICH BUFFER SECTIONS ARE	28750000
				5828+*	ASSIGNED	28800000
000025				5829+UCBBTB DS	AL3 - ADDRESS OF BUFFER TABLE	28850000
				5830+*		28900000
				5831+*****		28950000
				5832+*		29000000
				5833+*	3270 GRAPHICS	29050000
				5834+*	UCB SEGMENT	29100000
				5835+*		29150000
000028		00018		5836+ ORG	UCBDEV - DEVICE-DEPENDENT SEGMENT ICB480	29200000
				5837+*		29250000
				5838+*****		29300000
				5839+*		29350000
000018				5840+UCBAOF DS	0BL2 - ADDITIONAL OPTIONAL FEATURES. AN	29400000
				5841+*	EXTENSION OF THE OPTIONAL FEATURES	29450000
				5842+*	BYTE OF THE UCBTYP FIELD. ICB480	29500000
000018				5843+UCBAOF1 DS	B - FIRST BYTE OF UCBAOF ICB480	29550000
		00080		5844+UCBOFMCR EQU	X'80' - MAGNETIC CARD READER ADAPTER -	29600000
				5845+*	FOR 3277 ONLY ICB480	29650000
		00040		5846+UCBOFSP EQU	X'40' - SELECTOR PEN - FOR 3277 ONLY ICB480	29700000
		00020		5847+UCBOFNL EQU	X'20' - NUMERIC LOCK - FOR 3277 ONLY ICB480	29750000
		00010		5848+UCBOFPTR EQU	X'10' - PREPARE TO READ FEATURE	29800003
				5849+*	(MDC388) @ZA41164	29825003
		00008		5850+UCBRVS65 EQU	X'08' , , C'X' - RESERVED ICB480	29850000
		00004		5851+UCBRVS66 EQU	X'04' , , C'X' - RESERVED ICB480	29900000
		00002		5852+UCBRVS67 EQU	X'02' , , C'X' - RESERVED ICB480	29950000
		00001		5853+UCBRVS68 EQU	X'01' , , C'X' - RESERVED ICB480	30000000
000019				5854+UCBAOF2 DS	B - SECOND BYTE OF UCBAOF ICB480	30050000
		00080		5855+UCBRVS69 EQU	X'80' , , C'X' - RESERVED ICB480	30100000
		00040		5856+UCBRVS70 EQU	X'40' , , C'X' - RESERVED ICB480	30150000
		00020		5857+UCBRVS71 EQU	X'20' , , C'X' - RESERVED ICB480	30200000
		00010		5858+UCBRVS72 EQU	X'10' , , C'X' - RESERVED ICB480	30250000
		00008		5859+UCBRVS73 EQU	X'08' , , C'X' - RESERVED ICB480	30300000
		00004		5860+UCBRVS74 EQU	X'04' , , C'X' - RESERVED ICB480	30350000
		00002		5861+UCBRVS75 EQU	X'02' , , C'X' - RESERVED ICB480	30400000
		00001		5862+UCBRVS76 EQU	X'01' , , C'X' - RESERVED ICB480	30450000
00001A				5863+UCBATNCT DS	FL1 - ATTENTION COUNT. THE NUMBER OF	30500000
				5864+*	ATTENTIONS NOT SERVICED IN THE LINE	30550000
				5865+*	GROUP. PRESENT ONLY IF THE DEVICE	30600000
				5866+*	INDEX FIELD IS 1. OTHERWISE, THIS	30650000
				5867+*	FIELD IS RESERVED. ICB480	30700000
00001B				5868+ DS	B - UCBGCB - CONTROL BYTE. USED FOR	30750000
				5869+*	ATTENTION HANDLING FLAGS ICB480	30800000
		00080		5870+UCBOLTEP EQU	X'80' - OLTEP IN CONTROL OF THE DEVICE	30850000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5871+*		ICB480 30900000
		00040	5872+UCBRSV77	EQU	X'40' , , C'X' -	ICB480 30950000
		00020	5873+UCBRSV78	EQU	X'20' , , C'X' -	ICB480 31000000
		00010	5874+UCBRSV79	EQU	X'10' , , C'X' -	ICB480 31050000
		00008	5875+UCBRTIAC	EQU	X'08' -	MDC171 31100000
		00004	5876+UCBRIPND	EQU	X'04' -	ICB480 31150000
		00002	5877+UCBSKPGF	EQU	X'02' -	ICB480 31200000
		00001	5878+UCBATRCD	EQU	X'01' -	31250000
00001C			5879+*		ATTENTION RECEIVED FROM THE DEVICE	ICB480 31300000
			5880+UCBIRB	DS	0A -	31350000
			5881+*		SCHEDULING THE SECOND LEVEL	31400000
00001C			5882+*		ATTENTION ROUTINE	ICB480 31450000
			5883+UCBGRAF	DS	B -	MDC172 31500000
		00080	5884+UCBOIP	EQU	X'80' -	MDC173 31550000
		00040	5885+UCBDRO	EQU	X'40' -	MDC174 31600000
		00020	5886+UCBDRNO	EQU	X'20' -	MDC175 31650000
		00010	5887+UCBBTAM	EQU	X'10' -	MDC176 31700000
		00008	5888+UCBUPM	EQU	X'08' -	MDC177 31750000
		00004	5889+UCBRPND	EQU	X'04' -	MDC178 31800000
		00002	5890+UCBDWNR	EQU	X'02' -	MDC179 31850000
		00001	5891+UCBRV039	EQU	X'01' -	MDC180 31900000
00001D			5892+UCBIRBA	DS	AL3 -	31950000
			5893+*		SCHEDULING THE SECOND LEVEL	32000000
			5894+*		ATTENTION ROUTINE	MDC181 32050000
000020			5895+UCBLDNCA	DS	0A -	32100000
			5896+*		ESTABLISHED BY VTAM	MDC132 32150000
000020			5897+UCBRDYQ	DS	0A -	32200000
			5898+*		ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)	MDC182 32250000
000020			5899+UCBINRLN	DS	0FL1 -	MDC183 32300000
000020			5900+UCBIRLN	DS	FL1 -	32350000
			5901+*		INITIALIZED RLN. THE RELATIVE LINE	32400000
			5902+*		NUMBER (RLN) OF THE IOB INITIALIZED	32450000
			5903+*		FOR A READ INITIAL. IF 0, NO READ	32500000
			5904+*		INITIAL IS OUTSTANDING. PRESENT	32550000
			5905+*		ONLY IF THE DEVICE INDEX FIELD IS 1.	32600000
			5906+*		OTHERWISE, THIS FIELD IS RESERVED.	32650000
000021			5907+UCBLDNCA	DS	0AL3 -	ICB480 32700000
			5908+*		ESTABLISHED BY VTAM	MDC133 32750000
000021			5909+UCBRDYQA	DS	AL3 -	32800000
			5910+*		ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)	MDC184 32850000
000024			5911+UCBCTLNK	DS	0A -	ICB480 32900000
000024			5912+UCBRLN	DS	FL1 -	32950000
			5913+*		SAME AS UCBCTLNA BELOW	33000000
			5914+*		DEVICE INDEX. INDEX TO THE DEB UCB	33050000
			5915+*		ADDRESS FIELD FOR THIS DEVICE.	33100000
000025			5916+UCBCTLNA	DS	AL3 -	ICB480 33150000
			5917+*		THIS VALUE IS ALSO THE RELATIVE	33200000
			5918+*		LINE NUMBER.	33250000
			5919+*		CONTROL BLOCK LINK. IF THE DEVICE	33300000
			5920+*		INDEX FIELD IS 1, THIS FIELD	33350000
			5921+*		CONTAINS THE ADDRESS OF THE DEB FOR	33400000
			5922+*		THE LINE GROUP. IF THE DEVICE INDEX	33450000
			5923+*		FIELD IS BETWEEN 2 AND 255	33500000
			5924+*		INCLUSIVE, THIS FIELD CONTAINS THE	33550000
			5925+*		ADDRESS OF THE UCB WITH A DEVICE	33600000
			5926+*		INDEX OF 1.	ICB480 33650000
			5927+*		*****	33700000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				5926+*		33650000
				5927+*	3704, 3705 TELEPROCESSING DEVICE	33700000
				5928+*	UCB SEGMENT	33750000
				5929+*		33800000
000028		00018		5930+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	33850000
				5931+*		33900000
				5932+*	*****	33950000
				5933+*		34000000
000018				5934+UCBRV040 DS	A - RESERVED FOR USE AS TELEPROCESSING	34050000
				5935+*	EXTENSION POINTER MDC185	34100000
00001C				5936+UCBICNCB DS	A - POINTER TO VTAM'S ICNCB MDC186	34150000
				5937+*		34200000
				5938+*	*****	34250000
				5939+*		34300000
				5940+*	CHANNEL-TO-CHANNEL (CTC) DEVICE	34350000
				5941+*	UCB SEGMENT	34400000
				5942+*		34450000
000020		00018		5943+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	34500000
				5944+*		34550000
				5945+*	*****	34600000
				5946+*		34650000
000018				5947+UCBCTCAD DS	0A - ADDRESS OF AN SRB/IOSB TO BE USED	34700004
				5948+*	FOR SENSE COMMAND BYTE BY IECTCATN	34750000
				5949+*	IF UCBCTC80 BIT IS SET TO ZERO	34800004
				5950+*	(MDC343) @Z40JP9A	34807004
000018				5951+UCBCTCAL DS	A - ADDRESS OF JES3 ROUTINE FOR	34814004
				5952+*	SWITCHING TO ALTERNATE PATH CTC IF	34821004
				5953+*	UCBCTC80 BIT IS SET TO ONE	34828004
				5954+*	(MDC344) @Z40JP9A	34835004
00001C				5955+UCBCTCF1 DS	B - CHANNEL-TO-CHANNEL (CTC) DEVICE FLAG	34850000
				5956+*	BYTE MDC241	34900000
		00080		5957+UCBCTC80 EQU	X'80' - IF THIS BIT IS ON, ABOVE WORD HAS	34904004
				5958+*	UCBCTCAL MEANING. IF THIS BIT IS	34908004
				5959+*	OFF, ABOVE WORD HAS UCBCTCAD	34912004
				5960+*	MEANING. (MDC345) @Z40JP9A	34916004
	00040			5961+UCBRV076 EQU	X'40',,C'X' - RESERVED @Z40JP9A	34920004
	00020			5962+UCBRV077 EQU	X'20',,C'X' - RESERVED @Z40JP9A	34924004
	00010			5963+UCBRV078 EQU	X'10',,C'X' - RESERVED @Z40JP9A	34928004
	00008			5964+UCBRV079 EQU	X'08',,C'X' - RESERVED @Z40JP9A	34932004
	00004			5965+UCBRV080 EQU	X'04',,C'X' - RESERVED @Z40JP9A	34936004
	00002			5966+UCBRV081 EQU	X'02',,C'X' - RESERVED @Z40JP9A	34940004
	00001			5967+UCBRV082 EQU	X'01',,C'X' - RESERVED @Z40JP9A	34944004
00001D				5968+UCBRV042 DS	XL3 - RESERVED MDC242	34950000
				5969+*		34953003
				5970+*	*****	34956003
				5971+*		34959003
				5972+*	3851 OR 3838 DEVICE (MDC362) @G29AN9A	34960016
				5973+*	UCB SEGMENT	34965003
				5974+*		34968003
000020		00018		5975+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	34971003
				5976+*		34974003
				5977+*	*****	34977003
				5978+*		34980003
000018				5979+UCB IOSBA DS	A - ADDRESS OF IOSB. SET BY IOS FOR	34983003
				5980+*	ERROR CONDITIONS. (MDC330) @Z30LP9A	34986003

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
00001C				5981+UCBRV066 DS 0A -	RESERVED (MDC331)	@ZA56736 34990603
00001C				5982+UCBAPUB DS A -	3838 VPSS APUB ADDRESS	@ZA56736 34995203
				5983+*		35000000
				5984+*****		35050000
				5985+*		35100000
				5986+* UNIT CONTROL BLOCK EXTENSIONS		35150000
				5987+*		35200000
				5988+*****		35250000
				5989+*		35300000
				5990+* COMMON UCB EXTENSION		35350000
				5991+*		35400000
				5992+* THIS EXTENSION IS POINTED TO BY THE UCBEXTPT FIELD IN THE		35450000
				5993+* COMMON SEGMENT AND IS NOT CONTIGUOUS TO THE UCB.		35500000
				5994+*		35550000
000000				5995+UCBCMEXT DSECT , -		MDC225 35600000
				5996+*		35650000
				5997+*****		35700000
				5998+*		35750000
000000				5999+UCBETI DS FL1 -	A BINARY NUMBER USED BY THE EXIT	35800000
				6000+*	EFFECTOR ROUTINE TO COMPLETE THE	35850000
				6001+*	8-BYTE NAME OF AN IBM-SUPPLIED	35900000
				6002+*	ERROR ROUTINE FOR THIS DEVICE MDC209	35950000
000001				6003+UCBSTI DS FL1 -	INCREMENT WHICH, WHEN MULTIPLIED BY	36000000
				6004+*	10, BECOMES AN INDEX TO THE	36050000
				6005+*	STATISTICS TABLE (STATAB) MDC210	36100000
000002				6006+UCBDTI DS FL1 -	INDEX TO THE DEVICE TABLE MDC211	36150000
000003				6007+UCBATI DS FL1 -	INDEX TO THE ATTENTION TABLE (ANTAB)	36200000
				6008+*	OR OPTIONAL JOB ENTRY SUBSYSTEM	36250000
				6009+*	(JES) FLAG BYTE MDC212	36300000
	00080			6010+UCBRV04 EQU X'80' , , C'X' -	RESERVED	36350000
	00040			6011+UCBRV05 EQU X'40' , , C'X' -	RESERVED	36400000
	00020			6012+UCBRV06 EQU X'20' , , C'X' -	RESERVED	36450000
	00010			6013+UCBRV07 EQU X'10' , , C'X' -	RESERVED	36500000
	00008			6014+UCBRV08 EQU X'08' , , C'X' -	RESERVED	36550000
	00004			6015+UCBRV09 EQU X'04' , , C'X' -	RESERVED	36600000
	00002			6016+UCBHALI EQU X'02' -	OPTIONAL JOB ENTRY SUBSYSTEM (JES)	36650000
				6017+*	ALLOCATION INDICATOR MDC213	36700000
	00001			6018+UCBHPDV EQU X'01' -	OPTIONAL JOB ENTRY SUBSYSTEM (JES)	36750000
				6019+*	PSEUDO-DEVICE MDC214	36800000
000004				6020+UCBSNSCT DS FL1 -	COUNT OF SENSE BYTES PRESENTED	36850000
				6021+*	BY THIS DEVICE MDC215	36900000
000005				6022+UCBFLP1 DS B -	FLAG BYTE MDC216	36950000
	00080			6023+UCBNSRCH EQU X'80' -	THE CURRENTLY ALLOCATED VOLUME WAS	37000000
				6024+*	SPECIFICALLY REQUESTED BY VOLUME	37050000
				6025+*	SERIAL NUMBER. IT IS NOT AVAILABLE	37100000
				6026+*	FOR ASSIGNMENT BY OPEN/EOV FOR A	37150000
				6027+*	NON-SPECIFIC VOLUME REQUEST. MDC217	37200000
	00040			6028+UCBSHRUP EQU X'40' -	SHAREABLE WHEN IN UNIPROCESSOR MODE	37250003
				6029+*	(MDC333) @ZA00805	37260003
	00020			6030+UCBNSWAP EQU X'20' -	IF THIS BIT IS ON AND UCBPRES BIT IS	37300003
				6031+*	ON, THIS FIXED HEAD DEVICE CANNOT BE	37310003
				6032+*	SWAPPED (MDC364) @ZA16810	37320003
	00010			6033+UCBINHIO EQU X'10' -	INHIBIT HIO FROM SVC 33	37350003
				6034+*	(MDC365) @ZA16811	37360003
	00008			6035+UCBSWAPF EQU X'08' -	WITH BIT SET, THE DEVICE IS ABLE TO	37400003

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6036+*	BE SWAPPED (MDC370)	@ZA31339 37410003
		00004		6037+UCBERLOG EQU X'04' -	INDICATES PRESENCE OF AN ERROR LOG	37420003
				6038+*	IN A DEVICE (MDC328)	@Z40MP9A 37430003
		00002		6039+UCBRV035 EQU X'02',,C'X' -	RESERVED	MDC163 37440003
		00001		6040+UCBRV036 EQU X'01',,C'X' -	RESERVED	MDC163 37490003
000006				6041+UCBRV041 DS CL2 -	RESERVED	MDC226 37600000
000008				6042+UCBCCWOF DS H -	OFFSET TO CCW PREFIX	MDC218 37650000
00000A				6043+UCBPMSK DS BL2 -	PATH MASK FOR MESSAGES ISSUED	MDC219 37700000
00000C				6044+UCBMFCNT DS H -	MEASUREMENT FACILITIES TOTAL DEVICE	37750000
				6045+*	SIO COUNT. DURING NIP UCB	37800000
				6046+*	INITIALIZATION, USED FOR PREVIOUSLY	37850000
				6047+*	TESTED INDICATOR.	MDC220 37900000
00000E				6048+UCBASID DS H -	ASID OF THE MEMORY TO WHICH THIS	37950000
				6049+*	DEVICE IS ALLOCATED EXCEPT FOR	38000004
				6050+*	UNALLOCATED TAPE. FOR UNALLOCATED	38008004
				6051+*	TAPE, ASID OF THE LAST MEMORY TO	38016004
				6052+*	WHICH THIS DEVICE WAS ALLOCATED.	38024004
				6053+*	(MDC348)	@ZA05164 38032004
000010				6054+UCBMIHTI DS B -	MISSING INTERRUPT HANDLER BYTE	38050041
				6055+*	(MDC354)	@ZA31340 38050441
		00080		6056+UCBMIHSF EQU X'80' -	MISSING INTERRUPT HANDLER UCB SCAN	38051441
				6057+*	FLAG (MDC376)	@ZA31340 38052141
		00040		6058+UCBMIHPB EQU X'40' -	WITH BIT SET, MISSING INTERRUPT	38052841
				6059+*	HANDLER CHECKING OF DEVICE IS	38053541
				6060+*	PERMANENTLY BYPASSED	38054241
				6061+*	(MDC375)	@ZA31340 38054941
		00020		6062+UCBMIHT1 EQU X'20' -	WITH BIT SET, MISSING INTERRUPT	38055641
				6063+*	HANDLER CHECKING OF DEVICE IS	38056341
				6064+*	TEMPORARILY BYPASSED	38057041
				6065+*	(MDC374)	@ZA31340 38057741
		00010		6066+UCBMIHT2 EQU X'10' -	WITH BIT SET, MISSING INTERRUPT	38058441
				6067+*	HANDLER CHECKING OF DEVICE IS	38059141
				6068+*	TEMPORARILY BYPASSED	38059841
				6069+*	(MDC378)	@ZA31340 38060541
		00008		6070+UCBRV084 EQU X'08' -	RESERVED (MDC377)	@G64DP9A 38061200
		00004		6071+UCBRV085 EQU X'04' -	RESERVED (MDC377)	@G64DP9A 38071200
		00002		6072+UCBRV086 EQU X'02' -	RESERVED (MDC377)	@G64DP9A 38081200
		00001		6073+UCBRV087 EQU X'01' -	RESERVED (MDC377)	@G64DP9A 38091200
000011				6074+UCBWTOID DS CL3 -	WTO MESSAGE IDENTIFIER (MDC250)	38101200
				6075+*	YM6828	38111200
000014				6076+UCBDDT DS A -	ADDRESS OF DEVICE-DEPENDENT TABLE	38121200
				6077+*	ASSOCIATED WITH UCB	38131200
				6078+*	(MDC371)	@G64DP9A 38141200
				6079+*		38200000
				6080+*****		38250000
				6081+*		38300000
				6082+*	MAGNETIC TAPE	38350000
				6083+*	UCB EXTENSION	38400000
				6084+*		38450000
				6085+*	THIS EXTENSION IS POINTED TO BY THE UCBXTN FIELD OF THE	38500000
				6086+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	38550000
				6087+*		38600000
000000				6088+UCBMT DSECT , -	UCBXTN -> UCBMT	38650000
				6089+*		38700000
				6090+*****		38750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6091+*		38800000
000000				6092+UCBCTD DS H -	SERIAL NUMBER IN BINARY OF TAPE	38850000
				6093+*	DRIVE UPON WHICH THE VOLUME WAS	38900000
				6094+*	CREATED MDC097	38950000
000002				6095+UCBTRT DS FL1 -	TEMPORARY READ ERROR THRESHOLD (IF	39000000
				6096+*	0, EVA IS NOT IN EFFECT). A BINARY	39050000
				6097+*	NUMBER FROM 1 THROUGH 255 AS	39100000
				6098+*	SELECTED AT SYSGEN TIME ON THE	39150000
				6099+*	SCHEDULR MACRO BY EVA=(N1,N2) WHERE	39200000
				6100+*	N1 = TEMPORARY READ ERROR THRESHOLD.	39250000
				6101+*	MDC097	39300000
000003				6102+UCBTWT DS FL1 -	TEMPORARY WRITE ERROR THRESHOLD (IF	39350000
				6103+*	0, EVA IS NOT IN EFFECT). A BINARY	39400000
				6104+*	NUMBER FROM 1 THROUGH 255 AS	39450000
				6105+*	SELECTED AT SYSGEN TIME ON THE	39500000
				6106+*	SCHEDULR MACRO BY EVA=(N1,N2) WHERE	39550000
				6107+*	N2 = TEMPORARY WRITE ERROR	39600000
				6108+*	THRESHOLD. MDC097	39650000
000004				6109+UCBTR DS FL1 -	THE NUMBER (BINARY) OF TEMPORARY	39700000
				6110+*	READ ERRORS THAT HAVE OCCURRED	39750000
				6111+*	MDC097	39800000
000005				6112+UCBTW DS FL1 -	THE NUMBER (BINARY) OF TEMPORARY	39850000
				6113+*	WRITE ERRORS THAT HAVE OCCURRED	39900000
				6114+*	MDC097	39950000
000006				6115+UCBSIO DS H -	THE NUMBER (BINARY) OF START I/O	40000000
				6116+*	OPERATIONS THAT HAVE OCCURRED MDC097	40050000
000008				6117+UCBPR DS FL1 -	THE NUMBER (BINARY) OF PERMANENT	40100000
				6118+*	READ ERRORS THAT HAVE OCCURRED	40150000
				6119+*	MDC097	40200000
000009				6120+UCBPW DS FL1 -	THE NUMBER (BINARY) OF PERMANENT	40250000
				6121+*	WRITE ERRORS THAT HAVE OCCURRED	40300000
				6122+*	MDC097	40350000
00000A				6123+UCBNB DS FL1 -	THE NUMBER (BINARY) OF NOISE BLOCKS	40400000
				6124+*	THAT HAVE BEEN ENCOUNTERED MDC097	40450000
00000B				6125+UCBMS DS CL1 -	MODE SET OPERATION CODE FOR DATA	40500000
				6126+*	BLOCKS ON A 3420 MAGNETIC TAPE UNIT	40550000
				6127+*	MDC097	40600000
00000C				6128+UCBERG DS H -	THE NUMBER (BINARY) OF ERASE GAPS	40650000
				6129+*	THAT HAVE BEEN ENCOUNTERED MDC097	40700000
00000E				6130+UCBCLN DS H -	THE NUMBER (BINARY) OF CLEANER	40750000
				6131+*	ACTIONS THAT HAVE OCCURRED MDC097	40800000
				6132+*		40850000
				6133+*****		40900000
				6134+*		40950000
				6135+*	OPTICAL CHARACTER READER (3886)	41000000
				6136+*	UCB EXTENSION	41050000
				6137+*		41100000
				6138+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41150000
				6139+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	41200000
				6140+*		41250000
000000				6141+UCBOCR DSECT , -	UCBXTADR -> UCBOCR MDC024	41300000
				6142+*		41350000
				6143+*****		41400000
				6144+*		41450000
000000				6145+UCBFRID DS CL4 -	CURRENT FORMAT RECORD ID (FRID)	41500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
000004				6146+*	LOADED	MDC025 41550000
				6147+UCBRDATA DS XL4 -	COMMAND DATA	MDC026 41600000
				6148+*		41601003
				6149+*****		41602003
				6150+*		41603003
				6151+*	3540 DEVICE	@Z300P9A 41604003
				6152+*	UCB EXTENSION	@Z300P9A 41605003
				6153+*		41606003
				6154+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41607003
				6155+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	@Z300P9A 41608003
				6156+*		41609003
000000				6157+UCB3540X DSECT , -	UCBXTADR -> UCB3540X	41610003
				6158+*	(MDC325)	@Z300P9A 41611003
				6159+*		41612003
				6160+*****		41613003
				6161+*		41614003
000000				6162+UCBVLSE DS CL6 -	3540 VOLID (MDC326)	@Z300P9A 41615003
000006				6163+UCBDKBYT DS B -	FLAG BYTE (MDC334)	@Z300P9A 41616003
		00080		6164+UCBDKAMX EQU X'80' -	IBM-SUPPLIED DISKETTE READER,	41617003
				6165+*	DISKETTE WRITER OR COPY/RESTORE	41618003
				6166+*	UTILITIES ARE USING THIS 3540	41619003
				6167+*	DEVICE (MDC335)	@Z300P9A 41620003
		00040		6168+UCBVLVER EQU X'40' -	VOLUME VERIFICATION IS REQUIRED FOR	41621003
				6169+*	CERTAIN INTERVENTION REQUIRED	41622003
				6170+*	CONDITIONS WHILE 3540 DISKETTE	41623003
				6171+*	UTILITIES ARE USING THE DEVICE	41624003
				6172+*	(MDC336)	@Z300P9A 41625003
		00020		6173+UCBRV067 EQU X'20',,C'X' -	RESERVED	@Z300P9A 41626003
		00010		6174+UCBRV068 EQU X'10',,C'X' -	RESERVED	@Z300P9A 41627003
		00008		6175+UCBRV069 EQU X'08',,C'X' -	RESERVED	@Z300P9A 41628003
		00004		6176+UCBRV070 EQU X'04',,C'X' -	RESERVED	@Z300P9A 41629003
		00002		6177+UCBRV071 EQU X'02',,C'X' -	RESERVED	@Z300P9A 41630003
		00001		6178+UCBRV072 EQU X'01',,C'X' -	RESERVED	@Z300P9A 41631003
000007				6179+UCBRV073 DS C -	RESERVED	@Z300P9A 41632003
				6180+*		41650000
				6181+*****		41650804
				6182+*		41651604
				6183+*	3800 DEVICE	@Z40MP9A 41652404
				6184+*	UCB EXTENSION	@Z40MP9A 41653204
				6185+*		41654004
				6186+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41654804
				6187+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	@Z40MP9A 41655604
				6188+*		41656404
000000				6189+UCB3800X DSECT , -	UCBXTADR -> UCB3800X (MDC305)	41657204
				6190+*		@Z40MP9A 41658004
				6191+*		41658804
				6192+*****		41659604
				6193+*		41660404
000000				6194+UCBOPTNS DS B -	OPTIONAL FEATURES INSTALLED ON	41661204
				6195+*	PRINTER (MDC306)	@Z40MP9A 41662004
		00080		6196+UCBRV051 EQU X'80',,C'X' -	RESERVED	@Z40MP9A 41662804
		00040		6197+UCBRV052 EQU X'40',,C'X' -	RESERVED	@Z40MP9A 41663604
		00020		6198+UCBRV053 EQU X'20',,C'X' -	RESERVED	@Z40MP9A 41664404
		00010		6199+UCBRV054 EQU X'10',,C'X' -	RESERVED	@Z40MP9A 41665204
		00008		6200+UCBRV055 EQU X'08',,C'X' -	RESERVED	@Z40MP9A 41666004

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000001			00004	6201+UCBRV056	EQU	X'04' , , C'X' -	RESERVED @Z40MP9A 41666804
			00002	6202+UCBBRSTR	EQU	X'02' -	RESERVED (MDC307) @Z40MP9A 41667604
			00001	6203+UCBRV083	EQU	X'01' , , C'X' -	RESERVED (MDC308) @Z40MP9A 41668404
				6204+UCBCGMNO	DS	FL1 -	NUMBER OF WRITEABLE CHARACTER 41669204
000002				6205+*			GENERATION MODULES (MDC309) @Z40MP9A 41670004
				6206+UCBGRAFS	DS	B -	GRAPHIC CHARACTER FLAG BYTE 41670803
				6207+*			(MDC387) @ZA42324 41670903
		00080		6208+UCBRV046	EQU	X'80' , , C'X' -	RESERVED (MDC387) @ZA42324 41671003
		00040		6209+UCBRV047	EQU	X'40' , , C'X' -	RESERVED (MDC387) @ZA42324 41671103
		00020		6210+UCBRV048	EQU	X'20' , , C'X' -	RESERVED (MDC387) @ZA42324 41671203
		00010		6211+UCBRV049	EQU	X'10' , , C'X' -	RESERVED (MDC387) @ZA42324 41671303
		00008		6212+UCBGRAF0	EQU	X'08' -	WCGM 0 HAS BEEN MODIFIED BY A 41671403
				6213+*			GRAPHIC CHARACTER MODIFICATION 41671503
				6214+*			(MDC387) @ZA42324 41671603
		00004		6215+UCBGRAF1	EQU	X'04' -	WCGM 1 HAS BEEN MODIFIED BY A 41671703
				6216+*			GRAPHIC CHARACTER MODIFICATION 41671803
				6217+*			(MDC387) @ZA42324 41671903
		00002		6218+UCBGRAF2	EQU	X'02' -	WCGM 2 HAS BEEN MODIFIED BY A 41672003
				6219+*			GRAPHIC CHARACTER MODIFICATION 41672103
				6220+*			(MDC387) @ZA42324 41672203
		00001		6221+UCBGRAF3	EQU	X'01' -	WCGM 3 HAS BEEN MODIFIED BY A 41672303
				6222+*			GRAPHIC CHARACTER MODIFICATION 41672403
				6223+*			(MDC387) @ZA42324 41672503
000003				6224+UCBACTIV	DS	B -	ACTIVE FEATURES (MDC311) @Z40MP9A 41672603
		00080		6225+UCBRV057	EQU	X'80' , , C'X' -	RESERVED @Z40MP9A 41672703
		00040		6226+UCBRV058	EQU	X'40' , , C'X' -	RESERVED @Z40MP9A 41673204
		00020		6227+UCBRV059	EQU	X'20' , , C'X' -	RESERVED @Z40MP9A 41674004
		00010		6228+UCBRV060	EQU	X'10' , , C'X' -	RESERVED @Z40MP9A 41674804
		00008		6229+UCBRV061	EQU	X'08' , , C'X' -	RESERVED @Z40MP9A 41675604
		00004		6230+UCBRV062	EQU	X'04' , , C'X' -	RESERVED @Z40MP9A 41676404
		00002		6231+UCBRV063	EQU	X'02' , , C'X' -	RESERVED @Z40MP9A 41677204
000004		00001		6232+UCBBRSTA	EQU	X'01' -	RESERVED (MDC312) @Z40MP9A 41678004
				6233+UCBCGMID	DS	CL4 -	FOUR ONE-BYTE ID'S FOR CHARACTER 41678804
				6234+*			MODULES LOADED IN WRITEABLE 41679604
				6235+*			CHARACTER GENERATION MODULES 41680404
000008				6236+*			(WCGM'S) (MDC313) @Z40MP9A 41681204
				6237+UCBCHAR1	DS	CL4 -	NAME OF FIRST TRANSLATE TABLE 41682004
00000C				6238+*			(MDC314) @Z40MP9A 41682804
				6239+UCBCHAR2	DS	CL4 -	NAME OF SECOND TRANSLATE TABLE 41683604
000010				6240+*			(MDC315) @Z40MP9A 41684404
				6241+UCBCHAR3	DS	CL4 -	NAME OF THIRD TRANSLATE TABLE 41685204
000014				6242+*			(MDC316) @Z40MP9A 41686004
				6243+UCBCHAR4	DS	CL4 -	NAME OF FOURTH TRANSLATE TABLE 41686804
000018				6244+*			(MDC317) @Z40MP9A 41687604
				6245+UCBFCBNM	DS	CL4 -	FORMS CONTROL BUFFER (FCB) IMAGE 41688404
00001C				6246+*			NAME (MDC318) @Z40MP9A 41689204
				6247+UCBIMAGE	DS	CL4 -	FORMS OVERLAY IMAGE IDENTIFICATION 41690004
000020				6248+*			(MDC319) @Z40MP9A 41690804
				6249+UCBLDATA	DS	H -	LOST DATA PAGE COUNT 41691603
000022				6250+*			(MDC387) @ZA42324 41691703
				6251+UCBPGID	DS	H -	ID OF THE LAST FUSED PAGE FOR 41691803
				6252+*			SYSTEM RESTART OR PAGE AT THE 41691903
				6253+*			TRANSFER STATION FOR CANCEL KEY 41692003
000024				6254+*			(MDC387) @ZA42324 41692103
				6255+UCBMDRBF	DS	0A -	MISCELLANEOUS DATA RECORDING (MDR) 41692404

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6256+*	BUFFER ADDRESS (MDC339)	@Z40MP9A 41693204
000024				6257+UCBRV075 DS	FL1 -	RESERVED (MDC340) @Z40MP9A 41694004
000025				6258+UCBMDRBA DS	AL3 -	MDR BUFFER ADDRESS (MDC341) @Z40MP9A 41694804
				6259+*		41695604
				6260+*****		41700000
				6261+*		41750000
				6262+*	UNIT RECORD WITH	41800000
				6263+*	UNIVERSAL CHARACTER SET (1403, 3211)	41850000
				6264+*	UCB EXTENSION	41900000
				6265+*		41950000
				6266+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	42000000
				6267+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	42050000
				6268+*		42100000
000000				6269+UCBUCS DSECT , -	UCBXTADR -> UCBUCS	42150000
				6270+*		42200000
				6271+*****		42250000
				6272+*		42300000
000000				6273+UCBUCSID DS	CL4 -	UCS IMAGE IDENTIFICATION IN BUFFER 42350000
000004				6274+UCBUCSOP DS	B -	FORMAT OF UCS IMAGE IN BUFFER 42400000
				6275+*		(0 FOR OPTION) 42450000
		00080		6276+UCBUCS01 EQU	X'80' -	UCS IMAGE IS A DEFAULT IMAGE 42500000
		00040		6277+UCBUCS02 EQU	X'40' -	UCS IMAGE IS IN FOLD MODE 42550000
		00020		6278+UCBRSV39 EQU	X'20' , , C'X' -	RESERVED 42600000
		00010		6279+UCBRSV40 EQU	X'10' , , C'X' -	RESERVED 42650000
		00008		6280+UCBRSV41 EQU	X'08' , , C'X' -	RESERVED 42700000
		00004		6281+UCBRSV42 EQU	X'04' , , C'X' -	RESERVED 42750000
		00002		6282+UCBRSV43 EQU	X'02' , , C'X' -	RESERVED 42800000
		00001		6283+UCBUCSPE EQU	X'01' -	UCS IMAGE HAS PARITY ERROR (3211) 42850000
000005				6284+UCBFCBOP DS	B -	RESERVED (1403) OR FCB OPTIONS 42900000
				6285+*		(3211) (0 FOR OPTION) 42950000
		00080		6286+UCBFCB01 EQU	X'80' -	FCB IMAGE IS A DEFAULT IMAGE 43000000
		00040		6287+UCBRSV44 EQU	X'40' , , C'X' -	RESERVED 43050000
		00020		6288+UCBRSV45 EQU	X'20' , , C'X' -	RESERVED 43100000
		00010		6289+UCBRSV46 EQU	X'10' , , C'X' -	RESERVED 43150000
		00008		6290+UCBRSV47 EQU	X'08' , , C'X' -	RESERVED 43200000
		00004		6291+UCBRSV48 EQU	X'04' , , C'X' -	RESERVED 43250000
		00002		6292+UCBRSV49 EQU	X'02' , , C'X' -	RESERVED 43300000
		00001		6293+UCBFCBPE EQU	X'01' -	FCB IMAGE HAS PARITY ERROR 43350003
				6294+*		(MDC372) @ZA26074 43360003
000006				6295+UCBRSV51 DS	X -	RESERVED 43400000
000007				6296+UCBERCNT DS	FL1 -	CONTAINS A COUNT OF THE ERRORS THAT 43450000
				6297+*		HAVE OCCURRED. THE COUNT, WHICH MAY 43500000
				6298+*		WRAP AROUND, IS WRITTEN IN STANDARD 43550000
				6299+*		OBR RECORDS (ONE PER ERROR) AND IN 43600000
				6300+*		NEW DEVICE-DEPENDENT OBR RECORDS (0 43650000
				6301+*		TO 3 PER ERROR) AND SERVE TO RELATE 43700000
				6302+*		TO EACH OTHER THE STANDARD AND 43750000
				6303+*		DEVICE-DEPENDENT OBR RECORDS THAT 43800000
				6304+*		PERTAIN TO EACH ERROR (3211) 43850000
000008				6305+UCBFCBID DS	CL4 -	THE FCB IMAGE IDENTIFICATION 43900000
00000C				6306+UCBERADR DS	A -	THE ADDRESS OF THE ERP LOGOUT AREA 43950000
				6307+	POP	PRINT 44000000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6309	IKJCPPL	Command Processor Parm List
				6310+	*****	12000020
				6311+	* THE COMMAND PROCESSOR PARAMETER LIST (CPPL) IS A LIST OF	* 15000020
				6312+	* ADDRESSES PASSED FROM THE TMP TO THE CP VIA REGISTER 1	* 18000020
				6313+	*****	21000020
000000				6314+	CPPL DSECT	24000020
000000				6315+	CPPLCBUF DS A PTR TO COMMAND BUFFER	27000020
000004				6316+	CPPLUPT DS A PTR TO UPT	33000020
000008				6317+	CPPLPSCB DS A PTR TO PSCB	36000020
00000C				6318+	CPPLECT DS A PTR TO ECT	39000020
				6319+	** /	42000020
		00010		6320	CPPLLEN EQU *-CPPL	Length of CPPL

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6322	IKJPPL	Parse Parm List
000000				6323+PPL	DSECT	08000000
				6324+*****		10000000
				6325+*	THE PARSE PARAMETER LIST (PPL) IS A LIST OF ADDRESSES PASSED	* 12000000
				6326+*	FROM THE INVOKER TO PARSE VIA REGISTER 1	* 14000000
				6327+*****		16000000
000000				6329+PPLUPT	DS A PTR TO UPT	20000000
000004				6330+PPLECT	DS A PTR TO ECT	22000000
000008				6331+PPLECB	DS A PTR TO CP'S ECB	24000000
00000C				6332+PPLPCL	DS A PTR TO PCL	26000000
000010				6333+PPLANS	DS A PTR TO ANS PLACE	28000000
000014				6334+PPLCBUF	DS A PTR TO CMD BUFFER	30000000
000018				6335+PPLUWA	DS A PTR TO USER WORK AREA (FOR VALIDITY CK RTNS)	32000000
				6336+**/		34000000
		0001C		6337 PPLLEN	EQU *-PPL Length of PPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6339	IKJIOPL	I/O Service Routine Parm List
000000				6340+IOPL	DSECT	08000056
				6341+	*****	10000056
				6342+*	THE I/O SERVICE ROUTINE PARAMETER LIST (IOPL) IS A LIST OF	* 12000056
				6343+*	FULLWORD ADDRESSES PASSED BY THE INVOKER OF ANY I/O SERVICE	* 14000056
				6344+*	ROUTINE TO THE APPROPRIATE SERVICE ROUTINE VIA REGISTER ONE.	* 16000056
				6345+	*****	18000056
000000				6347+IOPLUPT	DS A PTR TO UPT	22000056
000004				6348+IOPECT	DS A PTR TO ECT	24000056
000008				6349+IOPECB	DS A PTR TO USER'S ECB	26000056
00000C				6350+IOPLIOPB	DS A PTR TO THE I/O SERVICE RTN PARM BLOCK	28000000
				6351+**/		30000056
		00010		6352 IOPLLEN	EQU *-IOPL Length of IOPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6354	IKJDAPL	Dynamic Allocation Parm List
				6355+	*****	08000000
				6356+*	THE DYNAMIC ALLOCATION INTERFACE ROUTINE (DAIR) PARAMETER LIST	* 10000000
				6357+*	(DAPL) IS A LIST OF ADDRESSES PASSED FROM THE INVOKER TO DAIR	* 12000000
				6358+*	VIA REGISTER 1	14000000
				6359+	*****	16000000
000000				6360+	DAPL DSECT	18000000
000000				6362+	DAPLUPT DS A PTR TO UPT	22000000
000004				6363+	DAPLECT DS A PTR TO ECT	24000000
000008				6364+	DAPLECB DS A PTR TO CP'S ECB	26000000
00000C				6365+	DAPLPSCB DS A PTR TO PSCB	28000000
000010				6366+	DAPLDAPB DS A PTR TO DAIR PARAMETER BLOCK	30000000
				6367+	**/	32000000
		00014		6368	DAPLLEN EQU *-DAPL Length of DAPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6370	IKJDAP08	Operation block ALLOC Dataset
000000				6371+DAPB08	DSECT	02800000
				6372+*****		03500000
				6373+*	THIS OPERATION CODE CAUSES ALLOCATION OF A DATA SET. IT CAN ALLOC.	* 04200000
				6374+*	EITHER A NEW OR OLD SET.	* 04900000
				6375+*****		05600000
000000				6376+DA08CD	DS CL2 DAIR ENTRY CODE	06300000
000002				6377+DA08FLG	DS X FUNCTIONS TO BE PERFORMED WHEN RET CODE IS 0	07000000
		00080		6378+DA08FPE	EQU X'80' FUNCT PERFORMED BUT ERROR INDICATED BY RETCD	07700000
000003				6379+	DS X	08400000
000004				6380+DA08DARC	DS H DYN ALLOC RETURN CODE	09100000
000006				6381+DA08CTRC	DS H CATALOG RETURN CODE	09800000
000008				6382+DA08PDSN	DS A POINTER TO DSNAME TO BE SEARCHED IN DSE	10500000
00000C				6383+DA08DDN	DS CL8 DDNAME TO BE SEARCHED IN DSE	11200000
000014				6384+DA08UNIT	DS CL8 UNITNAME REQUESTED	11900000
00001C				6385+DA08SER	DS CL8 VOLUME SERIAL NUMBER-PADDED W/BLANKS	12600000
000024				6386+DA08BLK	DS CL4 DATA SET AVERAGE RECORD LENGTH	13300000
000028				6387+DA08PQTY	DS CL4 PRIMARY SPACE QUANTITY	14000000
00002C				6388+DA08SQTY	DS CL4 SECONDARY SPACE QUANTITY	14700000
000030				6389+DA08DQTY	DS CL4 DIRECTORY BLOCK QUANTITY	15400000
000034				6390+DA08MNM	DS CL8 MEMBER NAME	16100000
00003C				6391+DA08PSWD	DS CL8 PASSWORD	16800000
000044				6392+DA08DSP1	DS X DATA SET STATUS FLGS(IF=0 OLD ASSUMED)	17500000
		00008		6393+DA08SHR	EQU X'08' DATA SET IS SHR	18200000
		00004		6394+DA08NEW	EQU X'04' DATA SET IS NEW	18900000
		00002		6395+DA08MOD	EQU X'02' DATA SET IS MOD	19600000
		00001		6396+DA08OLD	EQU X'01' DATA SET IS OLD	20300000
000045				6397+DA08DPS2	DS X DATA SET DISPOSITION(IF=0 KEEP ASSUMED)	21000000
		00008		6398+DA08KEEP	EQU X'08' DS DISP IS KEEP	21700000
		00004		6399+DA08DEL	EQU X'04' DS DISP IS DELETE	22400000
		00002		6400+DA08CAT	EQU X'02' DS DISP IS CATLG	23100000
		00001		6401+DA08UCAT	EQU X'01' DS DISP IS UNCATALOG	23800000
000046				6402+DA08DPS3	DS X DATA SET CONDITIONAL DISPOSITION	24500000
		00008		6403+DA08KEP	EQU X'08'	25200000
		00004		6404+DA08DELE	EQU X'04'	25900000
		00002		6405+DA08CATL	EQU X'02' DS DISP OF CATLG DESIRED	26600000
		00001		6406+DA08UNCT	EQU X'01' DS DISP OF UNCATLG DESIRED	27300000
000047				6407+DA08CTL	DS X FLAGS TO CONTROL ACTIONS TAKEN BY DAIR	28000000
		00080		6408+DA08TRKS	EQU X'80' UNITS ARE TRKS	28700000
		00040		6409+DA08ABKL	EQU X'40'	29400000
		000C0		6410+DA08CYLS	EQU X'C0' UNITS ARE CYLS	30100000
		00020		6411+DA08UID	EQU X'20' USER ID IS TO BE PREFIXED	30800000
		00010		6412+DA08RLSE	EQU X'10' RELEASE (RLSE) REQUESTED	31500000
		00008		6413+DA08PERM	EQU X'08' DATA SET MUST BE SPECIFICALLY UNALLOCATED	32200000
		00004		6414+DA08DMMY	EQU X'04'	32900000
		00002		6415+DA08ATRL	EQU X'02' ATTRIBUTE LIST SUPPLIED	C99236 32950001
000048				6416+	DS CL3 RESERVED	33600000
00004B				6417+DA08DSO	DS CL1 DSORG	34300000
00004C				6418+DA08ALN	DS CL8 ATTR-LIST-NAME	C99236 34350001
				6419+*	*/	35000000
		00054		6420 DAP08LEN	EQU *-DAPB08 Length of DAP08 LEN=54	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6422	IKJDAP18	Operation block FREE Dataset
000000				6423+DAPB18	DSECT	04000001
				6424+*****		05000001
				6425+*	THIS OPERATION CAUSES THE REQUESTED DATA SET OR DDNAME TO BE	* 06000001
				6426+*	UNALLOCATED. DISPOSITION CAN BE SPECIFIED TO OVERRIDE ANY PREVIOUS	* 07000001
				6427+*	DISPOSITION. LIKewise SYSOUT CLASS MAY BE SPECIFIED TO OVERRIDE ANY	* 08000002
				6428+*	PREVIOUS CLASS.	* 09000001
				6429+*****		10000001
000000				6430+DA18CD	DS CL2 DAIR ENTRY CODE	11000001
000002				6431+DA18FLG	DS X FUNCTIONS TO BE PERFORMED WHEN RET CODE IS 0	12000001
		00080		6432+DA18FPE	EQU X'80' FUNCT PERFORMED BUT ERROR INDICATED BY RETCD	13000001
000003				6433+	DS X	14000001
000004				6434+DA18DARC	DS H DYNAMIC ALLOCATION RETURN CODE	15000002
000006				6435+DA18CTRC	DS H CATALOG RETURN CODE AREA	16000002
000008				6436+DA18PDSN	DS A POINTER TO DSNAME TO BE SEARCHED IN DSE	17000001
00000C				6437+DA18DDN	DS CL8 DDNAME TO BE SEARCHED IN DSE	18000001
000014				6438+DA18MNM	DS CL8 MEMBER NAME	19000001
00001C				6439+DA18SCLS	DS CL2 SYSOUT CLASS DESIRED WHEN UNALLOCATING A	20000001
				6440+*	SYSOUT DATA SET	21000001
00001E				6441+DA18DPS2	DS X DATA SET DISPOSITION	22000001
		00008		6442+DA18KEEP	EQU X'08' CHANGE DISP TO KEEP	23000001
		00004		6443+DA18DEL	EQU X'04' CHANGE DISP TO DELETE	24000001
		00002		6444+DA18CAT	EQU X'02' CHANGE DISP TO CATALOG	25000001
		00001		6445+DA18UCAT	EQU X'01' CHANGE DISP TO UNCATLOG	26000001
00001F				6446+DA18CTL	DS X FLAGS FOR SPECIAL DAIR PROCESSING	27000001
		00020		6447+DA18UID	EQU X'20' USER ID IS TO BE PREFIXED TO DSNAME	28000001
		00010		6448+DA18PERM	EQU X'10' UNALLOCATE PERM. ALLOCATED DSE'S	M0765 29000002
000020				6449+DA18JBNM	DS CL8 IGNORED AS OF OS VS/2 RELEASE 2	Y02670 30000002
				6450+*	*/	31000001
		00028		6451 DAP18LEN	EQU *-DAPB18 Length of DAP18 LEN=28	
				6452 *		
				6453	PRINT NOGEN	
				6454 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6456 *	/* *****/	
				6457 *	/* Working Storage DSECT */	
				6458 *	/* *****/	
000000				6459 WSDSECT	DSECT	
		00000		6460 WSAREA	EQU *	
				6461 *	/* *****/	
				6462 *	/* *****/	
				6463 *	/* mySAVEARA */	
000000				6464 *	/* *****/	
				6465 SAVEAREA DS	18F my Savearea	
				6466 *	+00 A(savearea of current CSECT)	
				6467 *	+04 A(savearea of calling CSECT)	
				6468 *	+08 A(savearea of called CSECT)	
				6469 *	+12 R14	
				6470 *	+16 R15	
				6471 *	+20 R0	
				6472 *	+24 R1	
				6473 *	+28 R2	
				6474 *	+32 R3	
				6475 *	+36 R4	
				6476 *	+40 R5	
				6477 *	+44 R6	
				6478 *	+48 R7	
				6479 *	+52 R8	
				6480 *	+56 R9	
				6481 *	+60 R10	
				6482 *	+64 R11	
				6483 *	+68 R12	
				6484 *	/* *****/	
				6485 *	/* *****/	
				6486 *	/* IKJCT441 Parm Address List */	
				6487 *	/* *****/	
000048				6488 CT441LST DS	0F	
000048				6489 CT441P1 DS	A Entry Code	
00004C				6490 CT441P2 DS	A VAR NAME POINTER	
000050				6491 CT441P3 DS	A VAR NAME LENGTH	
000054				6492 CT441P4 DS	A VAR VALUE POINTER	
000058				6493 CT441P5 DS	A VAR VALUE LENGTH	
00005C				6494 CT441P6 DS	A Token	
				6495 *	/* *****/	
				6496 *	/* *****/	
				6497 *	/* IKJCT441 Parm Variables */	
				6498 *	/* *****/	
000060				6499 NAMP1 DS	A VAR NAME POINTER	
000064				6500 NAML1 DS	A VAR NAME LENGTH	
000068				6501 VALP1 DS	A VAR VALUE POINTER	
00006C				6502 VALL1 DS	A VAR VALUE LENGTH	
				6503 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				6505	*	/* *****/	
				6506	*	/* Symbolic Variable Data Area */	
				6507	*	/* *****/	
		00070		6508	DSYMS	EQU *	
				6509	*		
000070				6510	DDSN	DS CL44	Dataset Name
00009C				6511	DJMSG	DS CL100	MY MESSAGE VARIABLE
000100				6512	DRSNCODE	DS CL2	Reason Code
000102				6513	DMSG1	DS CL40	Message Level 1
00012A				6514	DMSG2	DS CL40	Message Level 2
000152				6515	DVOLSER	DS CL6	Volume Serial Number
000158				6516	DLRECL	DS CL5	LRECL
00015D				6517	DBLKSZ	DS CL5	BLKSIZE
000162				6518	DDSORG	DS CL3	Dataset Organization
000165				6519	DRECFM	DS CL5	Record Format e.g. FBA
00016A				6520	DCREDIT	DS CL8	CCYY/JJJ Create Date
000172				6521	DCREDJ	DS CL5	YYJJJ Create Date
000177				6522	DCREDC	DS CL10	MM/DD/CCYY Create Date
000181				6523	DEXPDT	DS CL8	CCYY/JJJ Expire Date
000189				6524	DEXPDJ	DS CL5	YYJJJ Expire Date
00018E				6525	DEXPDC	DS CL10	MM/DD/CCYY Expire Date
000198				6526	DREFDT	DS CL8	CCYY/JJJ Last Reference Date
0001A0				6527	DREFDJ	DS CL5	YYJJJ Last Reference Date
0001A5				6528	DREFDC	DS CL10	MM/DD/CCYY Last Reference Date
0001AF				6529	DKEYL	DS CL3	Keylength
0001B2				6530	DRKP	DS CL5	Relative Key Position
0001B7				6531	DPASSWD	DS CL5	Password Protection
0001BC				6532	DRACF	DS CL4	RACF
0001C0				6533	DDEVICE	DS CL15	Device
0001CF				6534	DSSPC	DS CL3	Secondary Space Request Type
0001D2				6535	DSSPCNM	DS CL7	Secondary Space Amount
0001D9				6536	DUNIT	DS CL7	Device Unit
0001E0				6537	DEXTS	DS CL3	Number of Extents
0001E3				6538	DNUMVOL	DS CL3	Number of Volumes
0001E6				6539	DTRKSAL	DS CL5	Total Tracks Allocated
0001EB				6540	DTRKSUS	DS CL5	Total Tracks Used
0001F0				6541	DTRKSUUS	DS CL5	Total Tracks Unused
0001F5				6542	DTRKSCYL	DS CL5	Tracks/Cylinder
0001FA				6543	DTRKLEN	DS CL5	Track Length
0001FF				6544	DBLKTRK	DS CL5	Blocks per Track
000204				6545	DCYL4VOL	DS CL5	Cylinders for Volume
000209				6546	DUNITCAP	DS CL15	Capacity for Volume
000218				6547	DDBLKS	DS CL5	PDS Directory Blocks
00021D				6548	DDIRBKSU	DS CL5	PDS Directory Blocks Used
000222				6549	DDIRBKSN	DS CL5	PDS Directory Blocks Unused
000227				6550	DMEMBERS	DS CL5	PDS Total Members
00022C				6551	DALIASES	DS CL5	PDS Alias Members
000231				6552	DDSCAT	DS CL1	Dataset catalog indication Y/N
000232				6553	DDSCATV	DS CL6	Dataset catalog volume
000238				6554	DPSPCAL	DS CL5	Primary Space allocation
00023D				6555	DPSPCUS	DS CL5	Primary Space allocation used
000242				6556	DVOLLST	DS CL35	Up to 5 volumes for multivol DSN
		00005		6557	DVOLLST#	EQU L'DVOLLST/7	7 bytes for each volume
				6558	*		
		001F5		6559	DSYMSL	EQU *-DSYMS	Length of DSYMS area

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT
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					6560	*	
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6562 *	/* *****	*/
				6563 *	/* Date Conversion Variables	*/
				6564 *	/* *****	*/
000265				6565 DC#YR	DS PL4	CCYY Packed workarea
00026A				6566 DC#HJJJ	DS H	JJJ halfword workarea
00026C				6567 DC#JJJ	DS CL3	JJJ Julian Date 001-366
00026F				6568 DC#MM	DS CL3	0MM Month 01-12
000272				6569 DC#DD	DS CL3	0DD Date 01-31
000275				6570 DC#CCYY	DS CL5	0CCYY Century and Year
				6571 *	/* *****	*/
				6572 *	/* Misc Variables	*/
				6573 *	/* *****	*/
				6574 *	/* *****	*/
00027C				6575 SAVER15	DS F	R15 Hold
000280				6576 DW	DS D	Double Word area
000288				6577 FW	DS F	Full Word area
00028C				6578 RCEXIT	DS F	Exit RC
000290				6579 TRKSCYL	DS F	Tracks/Cylinder
000294				6580 TRKLEN	DS F	Track Length
000298				6581 TRKSTOTA	DS F	Track Allocated TOTAL
00029C				6582 TTRKUSED	DS F	Track Used TOTAL
0002A0				6583 CYL4VOL	DS F	Cylinders for Volume
0002A4				6584 CYLSTOTA	DS F	CYLs Allocated TOTAL
0002A8				6585 BLKSTOTA	DS F	BLKs Allocated TOTAL
0002AC				6586 BLKSPTRK	DS F	BLKs per track
0002B0				6587 DMSGL1L	DS F	Length or MSGL1
0002B4				6588 DMSGL2L	DS F	Length or MSGL2
0002B8				6589 CD	DS CL2	Code for searching tables
0002BA				6590 RC	DS CL2	Return Code
0002BC				6591 SNN	DS PL2	Short symbolic seq no
0002BE				6592 SNNC	DS CL3	Short symbolic name Snn
0002C1				6593 SNNUPK	DS CL3	Short symbolic unpacked seq no
				6594 *	/* *****	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					6596	*	*/*****				
					6597	*	/* PARM input scan Variables				
					6598	*	*/*****				
0002C4					6599	PDSNL	DS 0F,H	Dataset Name Length			
0002C6					6600	PDSN	DS CL44	Dataset Name from PARM input			
0002F2					6601	PVOLSER	DS CL6	VOLSER from PARM input			
0002F8					6602	PVOL	DS C	VOL keyword switch			
0002F9					6603	PDIR	DS C	DIR keyword switch			
0002FA					6604	PPNL	DS C	PNL keyword switch			
0002FB					6605	PABOUT	DS C	ABOUT keyword switch			
					6606	*					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6608 *	/* *****/	
				6609 *	/* CAMLIST Workareas */	
				6610 *	/* *****/	
0002FC				6611	OBTVOL DS CL6	VOLSER
000302				6613	CAMDSN DS CL44	Dataset name
000330				6615	CAMLIST DS 4F	CAM Access List
000340				6617	LOCATEA DS 0D	Locate Area
000340				6618	DS 265C	Declare space for catalog rcd
000450				6619	DS 0D	
000450		00340		6621	ORG LOCATEA	REDEFINE catalog rcd
000340				6622	LOCA#VOL DS H	Number of volumes
		00342		6623	LOCAVENT EQU *	Volume List Entry
000342				6624	LOCADEV T DS 0CL4	Device type see UCBTYP field
000342				6625	DS CL1	I/O supervisor flags
000343				6626	DS CL1	Optional features
000344				6627	LOCADEV C DS CL1	Device class
000345				6628	LOCAUNTY DS CL1	Unit Type
000346				6629	LOCAVSER DS CL6	Device serial number
00034C				6630	LOCAVS# DS CL2	Device sequence number
		0000C		6631	LOCAVLLN EQU *-LOCAVENT	Length of Volume List Entry
00034E		00342		6633	ORG LOCAVENT	
000342				6634	LOCAVLST DS 20CL12	Volume list (20 max) 240 bytes
000432				6635	DS CL23	
000450				6636	DS 0D	
000450				6638	OBTAIN A DS 0D	
000450				6639	DS 4CL140	Declare space for 4 DSCBs
000680				6640	DS 0D	
000680		00424		6642	ORG OBTAIN A-44	Start DSCBs after 44 byte DSN

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
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				6644		IECSDSL1 1	DSCB F1	
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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					6727		IECSDSL1 2				
							DSCB F2				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
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6781	IECSDSL1 3	DSCB F3
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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	09.46	05/07/19
					6795		IECSDSL1 4				
							DSCB F4				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 09.46 05/07/19
				6836 *	/* *****/	
				6837 *	/* Workareas for DAPL Build */	
				6838 *	/* *****/	
000628				6839 MYCPPLP	DS F CPPL Address	
00062C				6840 MYECB	DS F Env Control Block	
000630				6841 MYDAPL	DS 0F,(DAPLLEN)C Dynamic Alloc Parm List	
000648				6842 MYDAPB	DS 0D,(DAP08LEN)C Dynamic Alloc Parm Block LEN=X'54'	
				6843 *		
				6844 *	MYDAPB is a variable length area used by DAIR	
				6845 *	NOTE=> ENSURE THE LENGTH is the largest of the DAnn DSECTS used!	
				6846 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
				6848	*	*/*****	
				6849	*	/* PDS DIR Workareas	
				6850	*	*/*****	
0006A0				6851	BLOCK	DS 0D,256C	PDS Block area
0007A0				6852	DDNAME	DS CL8	DDN assigned by Dynamic Alloc
0007A8				6854	DIRSW	DS C	Read PDS Block or process switch
0007AC				6855	PODBLKS	DS F	# of dir blocks used
0007B0				6856	PODBLKSU	DS F	# of dir blocks unused
0007B4				6857	POMEMS	DS F	PDS member count
0007B8				6858	POALIS	DS F	PDS alias count
0007BC				6860	DIRDCBW	DS 0F,(DIRDCBL)X	PDS DIR DCB work area
000814				6861	DIRDECBW	DS 0F,(DIRDECBL)X	PDS
000828				6863	PARMVL1	DS F	Null Parm
				6864	*		
00082C				6865		DS 0F,(40)X	
		00854		6866	WSAREAE	EQU *	Working Storage END
		00854		6867	WSAREAL	EQU WSAREAE-WSAREA	Working Storage Area Length

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 09.46 05/07/19
000000					6869	END	LISTDSJ	

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POS.ID	REL.ID	FLAGS	ADDRESS
0001	0001	0C	001278
0001	0001	0C	001280
0001	0001	0C	001418
0001	0001	0C	001420
0001	0001	0C	001864
0001	0001	0C	001874
0001	0001	0C	001884
0001	0001	0C	001894
0001	0001	0C	0018A4
0001	0001	0C	0018B4
0001	0001	0C	0018C4
0001	0001	0C	0018D4
0001	0001	0C	0018E4
0001	0001	0C	0018F4
0001	0001	0C	001904
0001	0001	0C	001914
0001	0001	0C	001924
0001	0001	0C	001934
0001	0001	0C	001944
0001	0001	0C	001954
0001	0001	0C	001964
0001	0001	0C	001974
0001	0001	0C	001984
0001	0001	0C	001994
0001	0001	0C	0019A4
0001	0001	0C	0019B4
0001	0001	0C	0019C4
0001	0001	0C	0019D4
0001	0001	0C	0019E4
0001	0001	0C	0019F4
0001	0001	0C	001A04
0001	0001	0C	001A14
0001	0001	0C	001A24
0001	0001	0C	001A34
0001	0001	0C	001A44
0001	0001	0C	001A54
0001	0001	0C	001A64
0001	0001	0C	001A74
0001	0001	0C	001A84
0001	0001	0C	001A94
0001	0001	0C	001AA4
0001	0001	0C	001AB4
0001	0001	0C	001AC4
0001	0001	0C	001AD4
0001	0001	0C	001AE4
0001	0001	0C	001AF4
0001	0001	0C	001B04
0001	0001	0C	001B14
0001	0001	0C	001B24
0001	0001	0C	001B34
0001	0001	08	001F71
0001	0001	0C	001F88

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19														
ABOUT#XT	00001	00000304	01084	01065															
ASCB	00001	00000000	04993	00783	05209														
ASCBTSB	00004	0000003C	05047	00783															
BLK#B	00001	000008B6	01728	01726															
BLKSPTRK	00004	000002AC	06586	01433	01859	01865													
BLKTRKC	00001	00000658	01429	01423															
BLKXT	00001	000008BE	01731	01727	01730														
BLOCK	00008	000006A0	06851	02215	02237														
CAMDSN	00044	00000302	06613	01054	01100	01131	01229	01251	01337	01338	01338	01338	01343						
CAMLIST	00004	00000330	06615	01098	01099	01101	01103	01105	01108	01227	01228	01230	01232	01234	01237	01265	01266	01267	
				01269	01271	01273	01276	01301	01302	01303	01308	01310	01312	01315	01341	01342	01344	01346	
				01348	01351														
CAMRCERR	00001	00000FEE	02506	01249	01287	01326	01362												
CAMR04	00001	0000101C	02518	02508															
CAMR08	00001	00001032	02523	02510															
CAMR12	00001	00001048	02528	02512															
CD	00002	000002B8	06589	02807	02813	02818													
CDC1	00001	00001332	02841	02828	02839														
CDFOUND	00001	0000130C	02829	02819															
CDNOFIND	00001	000012FE	02825	02817															
CHKCD	00001	000012DE	02815	02808	02814	02824													
CHKME	00001	000013CA	02896	02907															
CHKVOLSX	00001	00000446	01205	01194															
CONTZ	00001	00000FB6	02456	02452															
CPPL	00001	00000000	06314	02704	06320														
CPPLECT	00004	0000000C	06318	02706															
CPPLIN	00001	0000010E	00841	00833															
CPPLPSCB	00004	00000008	06317	02709															
CPPLUPT	00004	00000004	06316	02705															
CREDTXT	00001	00000AC0	01946	01936															
CTL#A	00001	000008F2	01764	01760															
CTL#M	00001	000008FA	01767	01762															
CTLCHRXT	00001	00000902	01770	01763	01766	01769													
CT441LST	00004	00000048	06488	02931															
CT441P1	00004	00000048	06489	00762															
CT441P2	00004	0000004C	06490	00764															
CT441P3	00004	00000050	06491	00766															
CT441P4	00004	00000054	06492	00768															
CT441P5	00004	00000058	06493	00770															
CT441P6	00004	0000005C	06494	00772	00773														
CVT	00001	00000000	04029	02014															
CVTBRET	00002	00000052	04087	04654															
CVTILK2	00004	00000028	04067	02015															
CVTPTR	00001	00000010	04025	02013															
CVTXTNT1	00001	00000000	04837	04264															
CVTXTNT2	00001	00000000	04846	04335															
CVT4MS1	00001	00000010	04106	04113															
CVT6DAT	00001	00000002	04109	04113															
CYLSTOTA	00004	000002A4	06584	01509	01819														
CYL4VOL	00004	000002A0	06583	01372	01407														
DAIR	00001	00001270	02756	02723	02747														
DALIASES	00005	0000022C	06551	02358	02359	03187	03187												
DAPB08	00001	00000000	06371	02716	06420														
DAPB18	00001	00000000	06423	02743	06451														
DAPL	00001	00000000	06360	02702	06368														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
DAPLDAPB	00004	00000010	06366	02711	
DAPLECB	00004	00000008	06364	02708	
DAPLECT	00004	00000004	06363	02706	
DAPLLEN	00001	00000014	06368	06841	
DAPLPSCB	00004	0000000C	06365	02709	
DAPLUPT	00004	00000000	06362	02705	
DAP08LEN	00001	00000054	06420	06842	
DATECCNT	00001	0000135C	02863	02860	
DATECONV	00001	00001338	02852	01938	01963 01988
DATECY2	00001	00001358	02861	02857	
DAYSTBLJ	00002	00001684	03081	02895	
DA08DDN	00008	0000000C	06383	02727	
DA08DSP1	00001	00000044	06392	02722	
DA08PDSN	00004	00000008	06382	02719	
DA08SER	00008	0000001C	06385	02721	
DA08SHR	00001	00000008	06393	02722	
DA08UNIT	00008	00000014	06384	02720	
DA18DDN	00008	0000000C	06437	02745	
DBLKSZ	00005	0000015D	06517	01580	01581 03169 03169
DBLKTRK	00005	000001FF	06544	01431	01432 03219 03219
DC#CCYY	00005	00000275	06570	01939	01941 01945 01964 01966 01970 01989 01991 01995 02868 02869 02884
DC#DD	00003	00000272	06569	01944	01969 01994 02920 02921
DC#HJJJ	00002	0000026A	06566	02880	02903 02917
DC#JJJ	00003	0000026C	06567	01940	01942 01965 01967 01990 01992 02874 02875
DC#MM	00003	0000026F	06568	01943	01968 01993 02915 02916
DC#YR	00004	00000265	06565	02884	02885 02886 02888 02889
DCREDC	00010	00000177	06522	01934	01943 01944 01945 03221 03221
DCREDJ	00005	00000172	06521	01933	01941 01942 03209 03209
DCREDT	00008	0000016A	06520	01932	01939 01940 03157 03157
DCYL4VOL	00005	00000204	06545	01374	01375 03205 03205
DDBLKS	00005	00000218	06547	02332	02333 03179 03179
DDIRBKSN	00005	00000222	06549	02345	02346 03183 03183
DDIRBKSU	00005	0000021D	06548	02338	02339 03181 03181
DDNAM	00001	00000028	03499	02180	
DDNAME	00008	000007A0	06852	02180	02727 02745
DDSCAT	00001	00000231	06552	01113	01129 02009 02043 03229 03229
DDSCATV	00006	00000232	06553	01130	03231 03231
DDSN	00044	00000070	06510	01117	01131 01242 01251 03146 03146
DDSORG	00003	00000162	06518	01658	01662 02109 03163 03163
DEVFND	00001	00000BFC	02067	02048	02052
DEVTPXT	00001	00000C86	02095	02024	02066 02069
DEXPDC	00010	0000018E	06525	01959	01968 01969 01970 03223 03223
DEXPDJ	00005	00000189	06524	01958	01966 01967 03211 03211
DEXPDT	00008	00000181	06523	01957	01964 01965 03159 03159
DEXTS	00003	000001E0	06537	01623	01624 03197 03197
DIRDCB	00004	00001F50	03386	02179	03433
DIRDCBL	00001	00000058	03433	02179	06860
DIRDCBW	00004	000007BC	06860	02178	
DIRDECB	00004	00001FA8	03437	02205	03444
DIRDECBL	00001	00000014	03444	02205	06861
DIRDECBW	00004	00000814	06861	02205	02212 02224
DIRSW	00001	000007A8	06854	02206	02228 02235 02271 02286
DJMSG	00100	0000009C	06511	00811	00812 00812 00812 01079 01118 01120 01121 01122 01243 01245 01246 01247 01281 01283 01284 01285 01320 01322 01323 01324 01356 01358 01359 01360 01647 01648 01653 01654 02058 02059 02064 02065 02115 02117 02118 02194 02196 02197 02285 02310 02312 02313 02376 02378

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19														
				02379 02386 02538 02546 02554 02562 02570 02578 02586 02594 02602 02610 02618 02626 02634															
				02642 02650 02658 02677 02680 02681 02682 02683 02948 02950 02951 02962 03149 03149															
DKEYL	00003	000001AF	06529	01595 01596 03171 03171															
DLRECL	00005	00000158	06516	01566 01567 03167 03167															
DMEMBERS	00005	00000227	06550	02352 02353 03185 03185															
DMSG1	00040	00000102	06513	02406 02826 02833 02840 03153 03153															
DMSG1L	00004	000002B0	06587	02404 02446 02842															
DMSG2	00040	0000012A	06514	02406 03155 03155															
DMSG2L	00004	000002B4	06588	02404 02449															
DNUMVOL	00003	000001E3	06538	01144 01145 01222 03227 03227															
DONELOOP	00001	000013EC	02909	02905															
DPASSWD	00005	000001B7	06531	01898 01901 01904 03175 03175															
DPSPCAL	00005	00000238	06554	01821 01822 01836 01837 01851 01852 01861 01862 03233 03233															
DPSPCUS	00005	0000023D	06555	01828 01829 01841 01842 01867 01868 03235 03235															
DRACF	00004	000001BC	06532	01916 01919 03177 03177															
DRECFM	00005	00000165	06519	01688 01689 01689 01689 01703 01729 01741 01752 01765 01768 01781 01782 01792 03165 03165															
DREFDC	00010	000001A5	06528	01984 01993 01994 01995 03225 03225															
DREFDJ	00005	000001A0	06527	01983 01991 01992 03213 03213															
DREFDT	00008	00000198	06526	01982 01989 01990 03161 03161															
DRKP	00005	000001B2	06530	01609 01610 03173 03173															
DRSNCODE	00002	00000100	06512	00804 01080 01123 01184 01196 01201 02119 02198 02314 02380 02514 02519 02524 02529 02664															
				02813 03151 03151															
DSCBF1	00001	00000446	01218	01115															
DSCBF1A	00001	00000460	01225	01220															
DSCBF2X	00001	0000051A	01288	01279															
DSCBF3	00001	0000051A	01297	01263															
DSCBF3X	00001	00000580	01327	01299 01318															
DSCBF4X	00001	000005D8	01363	01354															
DSERR	00001	00000430	01200	01182															
DSNFOUND	00001	00000376	01128	01111															
DSO#FND	00001	0000082E	01657	01643															
DSORGLP	00001	000007E4	01638	01645															
DSORGXT	00001	00000866	01680	01655 01661 01663															
DSSPC	00003	000001CF	06534	01817 01832 01847 01856 03193 03193															
DSSPCNM	00007	000001D2	06535	01883 01884 03201 03201															
DSYMS	00001	00000070	06508	00791 06559															
DSYMSL	00001	000001F5	06559	00792															
DS1BLKL	00002	0000047A	06687	01422 01427 01577															
DS1CREDT	00003	00000459	06651	01935 01937															
DS1DSIND	00001	00000481	06691	01893 01895 01913															
DS1DSORG	00002	00000476	06660	01262 01305 01521 01523 01639 01650 01660															
DS1EXPDT	00003	0000045C	06652	01960 01962															
DS1EXT1	00010	0000048D	06717	01449															
DS1IND01	00001	00000001	06711	06712															
DS1IND02	00001	00000002	06707	06710															
DS1KEYL	00001	0000047E	06689	01592															
DS1LRECL	00002	0000047C	06688	01563															
DS1LSTAR	00003	00000486	06714	01529 01530															
DS1NOEPV	00001	0000045F	06653	01298 01442 01460 01620															
DS1PTRDS	00005	000004AB	06724	01268 01304															
DS1RECFM	00001	00000478	06685	01692 01725 01737 01748 01759 01761															
DS1REFD	00003	0000046F	06658	01985 01987															
DS1RKP	00002	0000047F	06690	01606															
DS1SCALO	00004	00000482	06713	01806 01809 01812 01880															
DS2PTRDS	00005	00000537	06778	01307															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19														
DS3ADEXT	00090	00000569	06791	01476															
DS3EXTNT	00040	00000540	06785	01465															
DS4DEVSZ	00004	000005DA	06813	01371	01382														
DS4DEVTK	00002	000005DE	06814	01393															
DTRKLEN	00005	000001FA	06543	01396	01397	03215	03215												
DTRKSAL	00005	000001E6	06539	01500	01501	03199	03199												
DTRKSCYL	00005	000001F5	06542	01385	01386	03207	03207												
DTRKSUS	00005	000001EB	06540	01541	01542	03195	03195												
DTRKSUUS	00005	000001F0	06541	01551	01552	03203	03203												
DUNIT	00007	000001D9	06536	02068	03191	03191													
DUNITCAP	00015	00000209	06546	01412	01413	03217	03217												
DVCLST\$	00001	00000C06	02076	02041	02077	02093													
DVCLST\$E	00001	00000010	02093	02040															
DVCLST\$L	00001	00000008	02077	02054	02093														
DVOLLST	00035	00000242	06556	01155	01156	01156	01156	01157	03237	03237	06557								
DVOLLST#	00001	00000005	06557	01159															
DVOLSER	00006	00000152	06515	01189	01190	01224	01252	02029	02721	02721	03189	03189							
DW	00008	00000280	06576	01066	01078	01119	01120	01143	01144	01244	01245	01282	01283	01321	01322	01357	01358	01373	
				01374	01384	01385	01395	01396	01411	01412	01430	01431	01499	01500	01540	01541	01550	01551	
				01565	01566	01579	01580	01594	01595	01608	01609	01622	01623	01652	01653	01779	01780	01780	
				01780	01783	01792	01820	01821	01827	01828	01835	01836	01840	01841	01850	01851	01860	01861	
				01866	01867	01882	01883	02063	02064	02116	02117	02195	02196	02311	02312	02331	02332	02337	
				02338	02344	02345	02351	02352	02357	02358	02377	02378	02679	02680	02867	02868	02873	02874	
				02914	02915	02919	02920	02949	02950										
ECUPDT	00004	0000167C	03075	00761															
ENDME	00002	00000F18	02397	01083	01126	01187	01199	01204	02122	02201	02317	02383	02517	02522	02527	02532	02667		
ERR4004	00001	0000105E	02535	00838															
ERR4005	00001	0000108C	02551	00830															
ERR4008	00001	000010B8	02567	00846															
ERR4009	00001	000010E4	02583	00850															
ERR4010	00001	00001110	02599	00851															
ERR4097	00001	0000113C	02615	02765															
ERR4098	00001	00001168	02631	02939															
ERR4099	00001	00001194	02647	00785															
EXPDTXT	00001	00000B0E	01971	01961															
EXTF1	00001	0000067E	01451	01456															
EXTF3	00001	000006A2	01467	01472															
EXTF3B	00001	000006BE	01478	01483															
FLCEICOD	00002	00000086	03580	03581															
FLCENPSW	00004	00000058	03559	03561															
FLCEOPSW	00008	00000018	03542	03543															
FLCINPSW	00004	00000078	03572	03574															
FLCIOPSW	00008	00000038	03550	03551															
FLCIPPSW	00008	00000000	03533	03536															
FLCMNPSW	00004	00000070	03568	03571															
FLCMOPSW	00008	00000030	03548	03549															
FLCPICOD	00002	0000008E	03600	03601															
FLCPIILC	00001	0000008D	03594	03599															
FLCPNPSW	00004	00000068	03565	03567															
FLCPOPSW	00008	00000028	03546	03547															
FLCSNPSW	00004	00000060	03562	03564															
FLCSOPSW	00008	00000020	03544	03545															
FLCSVCN	00002	0000008A	03590	03591															
FLCSVILC	00001	00000089	03585	03589															
FLCTIMER	00004	00000050	03556	03557															

SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 09.46 05/07/19					
FW	00004	00000288	06577	01140	01140	01141	01142	01426	01426	01427	01428	01562	01562	01563	01564	01576	01576	01577			
				01578	01591	01591	01592	01593	01605	01605	01606	01607	01619	01619	01620	01621	01649	01649			
				01650	01651	01879	01879	01880	01881	02060	02060	02061	02062	02853	02853	02854	02855	02870			
				02870	02871	02872															
GETDEVTY	00001	00000B9E	02039	02010																	
IECSDSF2	00001	000004B0	06729	01272																	
IECSDSF3	00001	0000053C	06783	01311																	
IECSDSF4	00001	000005C8	06797	01347																	
IECSDSL1	00001	00000424	06645	06646																	
IECSDSL2	00001	000004B0	06728	06729																	
IECSDSL3	00001	0000053C	06782	06783																	
IECSDSL4	00001	000005C8	06796	06797																	
INITSYMA	00001	000000BA	00793	00796																	
INPB08	00008	00001ED0	03332	02717	03355																
INPB08L	00001	00000054	03355	02717																	
INPB18	00008	00001F28	03361	02744	03375																
INPB18L	00001	00000028	03375	02744																	
IOPL	00001	00000000	06340	06352																	
KABOUT	00001	000001F4	00956	00918																	
KDIR	00001	000001C8	00930	00914																	
KPNL	00001	000001DE	00943	00916																	
KWABOUT	00005	00001673	03069	00917	00957	00960	00994	00995													
KWDIR	00003	0000166D	03067	00913	00931	00934	00972	00973													
KWPNL	00003	00001670	03068	00915	00944	00947	00983	00984													
KWVOL	00004	00001678	03070	00919	01021	01022															
LEN#FND	00001	00000896	01702	01697																	
LENTYLP	00001	0000087E	01694	01699																	
LENTYXT	00001	000008AA	01718	01701	01704																
LISTDSJ	00001	00000000	00695	00696	06869																
LOCA#VOL	00002	00000340	06622	01141	01179	01181															
LOCADEVC	00001	00000344	06627	01191																	
LOCATEA	00008	00000340	06617	01104	06621																
LOCAUNTY	00001	00000345	06628	02051																	
LOCAVENT	00001	00000342	06623	06631	06633																
LOCAVLLN	00001	0000000C	06631	01166																	
LOCAVSER	00006	00000346	06629	01130	01158	01189															
LOOK4DT	00001	00000BA6	02042	02055																	
LOOK4DT2	00001	00000BBC	02050	02044																	
LOOK4DT3	00001	00000BC6	02053	02049																	
MM1	00013	00001EBC	03325	03326																	
MOVEML1	00001	00001324	02837	02835																	
MSGJ015	00029	00001D97	03304	02386	02386	03305															
MSGJ017	00025	00001DB4	03306	02115	02115	03307															
MSGJ018	00021	00001DCD	03308	02376	02376	03309															
MSGJ020	00032	00001DE2	03310	01118	01118	01356	01356	03311													
MSGJ021	00034	00001E02	03312	01243	01243	03313															
MSGJ022	00032	00001E24	03314	01281	01281	01320	01320	03315													
MSGJ025	00035	00001E44	03316	01647	01647	02058	02058	03317													
MSGJ027	00042	00001E67	03318	02948	02948	03319															
MSGJ030	00021	00001E91	03320	02194	02194	03321															
MSGJ031	00022	00001EA6	03322	02310	02310	03323															
MSGLX	00001	00000FA8	02450	02447																	
MSGL1	00001	00000F9C	02445	02439																	
MSGL2	00001	00000FA4	02448	02441																	
MSG4004	00017	00001D36	03293	02538	02554	03294															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19									
MSG4004L	00001	00000011	03294	02538 02543 02554 02559										
MSG4009	00017	00001D47	03295	02570 02586 02602 03296										
MSG4009L	00001	00000011	03296	02570 02575 02586 02591 02602 02607										
MSG4097	00022	00001D58	03297	02618 03298										
MSG4097L	00001	00000016	03298	02618 02623										
MSG4098	00023	00001D6E	03299	02634 03300										
MSG4098L	00001	00000017	03300	02634 02639										
MSG4099	00018	00001D85	03301	02650 03302										
MSG4099L	00001	00000012	03302	02650 02655										
MVCMAX	00001	00001460	02957	02955										
MVCMSG1	00006	0000132C	02840	02838										
MVCOK	00001	00001464	02959	02956										
MVCSYS	00006	0000146C	02962	02960										
MYCPPLP	00004	00000628	06839	00842 02703										
MYDAPB	00008	00000648	06842	02710 02726 02742										
MYDAPL	00004	00000630	06841	02701 02746										
MYECB	00004	0000062C	06840	00809 00809 02707										
MYEXIT	00001	00000FC8	02464	02630 02646 02662										
MYSTAMP	00001	0000001E	00718	00729 01074 01079										
MYSTAMPL	00001	00000034	00729	01071 01079										
NAML1	00004	00000064	06500	00765 02426 02430 02953										
NAMP1	00004	00000060	06499	00763 02424 02429 02952										
NEXTPRM	00001	00000194	00910	00897 00921 00936 00949 00962 01008 01033 01035 01044										
NOADD	00001	000013DC	02902	02899 02900										
NOLEAP	00001	000013C2	02893	02882 02887 02890										
OBTAINA	00008	00000450	06638	01233 06642										
OBTR00	00001	000004B4	01250	01240										
OBTVOL	00006	000002FC	06611	01027 01028 01028 01028 01029 01030 01055 01190 01223 01231 01252 01270 01309 01345										
ONTAPE	00001	0000041A	01195	01192										
OTHR	00001	00000FB0	02453	02442										
OVF#S	00001	000008DA	01751	01749										
OVFCHRXT	00001	000008DE	01753	01750										
OVRSTAMP	00002	00000052	00730	00717										
PABOUT	00001	000002FB	06605	00884 00993 01064										
PARM@DEC	00001	0000023A	01004	00974 00985 00996										
PARMABOT	00001	0000022A	00992	00959 00961										
PARMDIR	00001	0000020A	00970	00933 00935										
PARMDONE	00001	000002AA	01051	00904 00922 01006 01007 01009 01024 01025 01043 01045										
PARMPNL	00001	0000021A	00981	00946 00948										
PARMSXT	00001	00000136	00854	00840										
PARMVL1	00004	00000828	06863	02181 02185 02302										
PARMVOL	00001	0000024C	01019	00920										
PASSWDXT	00001	00000A56	01906	01899 01902 01905										
PDIR	00001	000002F9	06603	00882 00971 02107										
PDSALC	00001	000011F8	02696	02111										
PDSALCXT	00001	00001254	02729	02725										
PDSFRE	00001	00001256	02737	02372										
PDSN	00044	000002C6	06600	00880 00881 00881 00881 00886 01052 01054 01117 01242										
PDSNL	00004	000002C4	06599	00888 00902 02718										
PGMID	00008	0000001E	00719	02677										
POALIS	00004	000007B8	06858	02175 02175 02257 02259 02350 02356										
PODALIAS	00001	00000DCC	02256	02248										
PODBLKS	00004	000007AC	06855	02172 02172 02232 02234 02272 02330 02342										
PODBLKSU	00004	000007B0	06856	02173 02173 02272 02336 02343										
PODCNTS	00001	00000E7C	02328	02294 02298										

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
PODCONT0	00001	00000D3E	02203	02192	
PODCONT9	00001	00000E7C	02320	02308	
PODDIRNN	00001	00000F12	02385	02110	
PODDIRXT	00001	00000F18	02388	02108	02374
PODENTRY	00001	00000DAA	02243	02268	
PODEOF	00001	00000E3A	02300	03404	
PODERR	00001	00000E36	02296	02229	
PODINFO	00001	00000CCC	02171	02113	
PODNEXT	00001	00000DD8	02261	02254	
PODREAD	00001	00000D48	02210	02236	02269 02273
PODSYN	00001	00000E02	02276	03419	
PODUSED	00004	00000DF4	02271	02245	
POMEMS	00004	000007B4	06857	02174	02174 02251 02253 02349
PPL	00001	00000000	06323	06337	
PPNL	00001	000002FA	06604	00883	00982 02416
PREFXMSG	00001	000011D6	02676	02537	02553 02569 02585 02601 02617 02633 02649
PRMDSN	00001	0000016E	00895	00903	
PSA	00001	00000000	03531	00782	03743 03748 03974
PSAANEW	00004	00000220	03679	00782	
PSAIPCDM	00001	0000026C	03749	03748	
PSAIPCRM	00001	00000264	03744	03743	
PSATNEW	00004	00000218	03676	03677	
PVOL	00001	000002F8	06602	00885	01020 01114 01219
PVOLSER	00006	000002F2	06601	01055	01223 01224
RACFRQD	00001	00000A68	01918	01914	
RACFXT	00001	00000A72	01921	01917	01920
RC	00002	000002BA	06590	00801	01082 01125 01186 01198 01203 02121 02200 02316 02382 02516 02521 02526 02531 02666
				02807	
RCEXIT	00004	0000028C	06578	00802	01081 01124 01185 01197 01202 02120 02199 02315 02381 02480 02515 02520 02525 02530
				02536	02552 02568 02584 02600 02616 02632 02648 02665 02678
RCMSG00	00018	00001CD1	03282	03281	
RCMSG04	00039	00001CE7	03284	03283	
RCMSG16	00036	00001D12	03286	03285	
RCTBLBEG	00001	00001CCD	03280	02804	02806 03287
RCTBLLEN	00001	00000069	03287	02805	
RECFML	00001	00000918	01784	01791	
RECFMLA	00001	0000092A	01789	01786	
REFDXT	00001	00000B5C	01996	01986	
RMSG00	00017	00001B48	03248	03247	
RMSG02	00024	00001B5D	03250	03249	
RMSG05	00022	00001B79	03252	03251	
RMSG06	00019	00001B93	03254	03253	
RMSG13	00031	00001BAA	03256	03255	
RMSG19	00035	00001BCD	03258	03257	
RMSG21	00034	00001BF4	03260	03259	
RMSG22	00018	00001C1A	03262	03261	
RMSG23	00029	00001C30	03264	03263	
RMSG24	00022	00001C51	03266	03265	
RMSG26	00030	00001C6B	03268	03267	
RMSG29	00024	00001C8D	03270	03269	
RMSG99	00036	00001CA9	03272	03271	
RSN29	00001	000011C0	02663	01053	02550 02566 02582 02598 02614
RSTBLBEG	00001	00001B44	03246	02810	02812 03273
RSTBLLEN	00001	00000189	03273	02811	
RWPW	00001	00000A4C	01903	01896	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
S#@LEN	00001	000002E0	03238	03239	
S#@NUM	00001	0000002E	03239	02410	
S#@VAR	00001	00000F3A	02415	02460	
S#@VARC	00001	00000F76	02432	02427	
S#@VARLN	00001	00000F6A	02428	02417	
SAVEAREA	00004	00000000	06465	00752 02479 02480 02497	
SAVER15	00004	0000027C	06575	02943	
SETML1	00001	000012B2	02803	02408	
SETML2	00001	000012C8	02809	02403	
SETVAR	00001	00001410	02930	02457	
SETVARXT	00001	00001472	02964	02946 02961	
SINGLVOL	00001	00000402	01188	01180	
SNN	00002	000002BC	06591	02409 02419 02438 02440 02459	
SNNC	00003	000002BE	06592	02421 02422 02423	
SNNUPK	00003	000002C1	06593	02419 02420 02422	
SPCUSEDX	00001	00000710	01527	01522 01524	
SPCUSEDX	00001	00000744	01553	01526	
SPN#S	00001	000008CA	01740	01738	
SPNCHRXT	00001	000008CE	01742	01739	
SRTEASCI	00001	00000004	05779	05780	
SRTEBSTR	00001	00000004	05778	05781	
SSPC#ABS	00001	000009B8	01846	01815	
SSPC#BLK	00001	000009D4	01855	01814	
SSPC#CYL	00001	00000954	01816	01808	
SSPC#TRK	00001	0000098A	01831	01811	
SSPCXT	00001	00000A0A	01870	01830 01843 01854 01869	
SUMEXTXT	00001	000006D2	01485	01443 01453 01461 01469 01480	
TBLDSOB	00002	00000848	01671	01635 01673 01678	
TBLDSOE	00001	00000005	01678	01636	
TBLDSOL	00001	00000006	01673	01644 01678	
TBLRFM1B	00002	000008A4	01711	01690 01713 01716	
TBLRFM1E	00001	00000003	01716	01691	
TBLRFM1L	00001	00000002	01713	01698 01703 01716	
TMDSORG	00004	00000844	01665	01642	
TMDSRFM1	00004	000008A0	01706	01696	
TOKEN	00004	00001680	03076	00771	
TOTEXTS	00001	00001290	02779	01454 01470 01481	
TOTUSED	00001	00000722	01538	01531	
TRKLEN	00004	00000294	06580	01394 01410 01424	
TRKSCYL	00004	00000290	06579	01383 01408 01492 01508 01826	
TRKSTOTA	00004	00000298	06581	01502 01834 01849 01858	
TSVEUPDT	00001	00000002	03454	03075	
TTRKUSED	00004	0000029C	06582	01525 01525 01539 01824 01839 01864	
UCB	00001	00000000	05211	02016	
UCBALOC	00001	00000008	05397	05593	
UCBBALB	00001	00000020	05636	05775	
UCBBNUL	00001	00000001	05646	05782	
UCBBPRV	00001	00000010	05638	05776	
UCBBPUB	00001	00000008	05639	05777	
UCBBSTR	00001	00000004	05640	05778 05779	
UCBBSVL	00001	00000080	05620	05774	
UCBBSY	00001	00000080	05414	05415	
UCBCHGS	00001	00000040	05387	05590	
UCBCUB	00001	00000008	05421	05422	
UCBDADI	00001	00000001	05403	05596	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
UCBDEV	00001	00000018	05603	05609 05723 05797 05814 05836 05930 05943 05975	
UCBDMCT	00001	00000023	05655	05783	
UCBFLA	00001	00000006	05412	05413	
UCBFL1	00001	00000006	05413	05597	
UCBFSC	00002	00000018	05730	05784	
UCBFSEQ	00002	0000001A	05731	05785	
UCBJBNR	00001	00000000	05326	02025 05586	
UCBMONT	00001	00000001	05347	05587	
UCBNRY	00001	00000040	05416	05417	
UCBONLI	00001	00000080	05386	02027 05589	
UCBPRES	00001	00000004	05398	05594	
UCBPST	00001	00000020	05418	05419	
UCBRESV	00001	00000020	05392	05591	
UCBSCAN	00001	00000B6C	02017	02022 02026 02028 02030	
UCBSTAB	00001	00000022	05619	05773	
UCBSTAT	00001	00000003	05385	02027 05588	
UCBSYSR	00001	00000002	05400	05595	
UCBUNLD	00001	00000010	05394	05592	
UCBUNTYP	00001	00000013	05547	02047	
UCBUSER	00001	00000026	05707	05786	
UCBVOLI	00006	0000001C	05618	02029 05772	
UCBVRDEV	00001	00000080	05327	02025	
UPPERC	00006	00000142	00867	00865	
UPPERCX	00001	00000148	00868	00866	
V#@	00001	000016A0	03089	03136	
VALIAS	00015	00001808	03127	03186 03186	
VALL1	00004	0000006C	06502	00769 02451 02454	
VALP1	00004	00000068	06501	00767 02436	
VBLKSZ	00010	000016D7	03096	03168 03168	
VBLKTRK	00010	000017B9	03120	03218 03218	
VCCVOL	00009	0000179D	03117	03204 03204	
VCREDT	00009	00001703	03101	03156 03156	
VCREDTC	00010	0000173E	03107	03220 03220	
VCREDTJ	00010	0000171F	03104	03208 03208	
VDIRBKSA	00010	0000182C	03130	03178 03178	
VDIRBKSN	00011	00001821	03129	03182 03182	
VDIRBKSU	00010	00001817	03128	03180 03180	
VDSCAT	00008	00001836	03131	03228 03228	
VDSCATV	00009	0000183E	03132	03230 03230	
VDSN	00009	000016A0	03090	03145 03145	
VDSORG	00008	000016F3	03099	03162 03162	
VEXPDT	00009	0000170C	03102	03158 03158	
VEXPDTC	00010	00001748	03108	03222 03222	
VEXPDTJ	00010	00001729	03105	03210 03210	
VEXTS	00010	00001789	03115	03196 03196	
VJMSG	00013	000017F1	03125	03148 03148	
VKEYL	00009	000016E1	03097	03170 03170	
VKEYP	00009	000016EA	03098	03172 03172	
VLRECL	00008	000016CF	03095	03166 03166	
VMEMS	00010	000017FE	03126	03184 03184	
VMSGL1	00010	000016B2	03092	03152 03152	
VMSGL2	00010	000016BC	03093	03154 03154	
VNUMVOL	00010	00001793	03116	03226 03226	
VOLLST	00001	000003C6	01164	01161 01162 01168	
VOL00	00001	00000274	01031	01042	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
VOL00A	00004	000002A2	01044	01041	
VPASSWD	00011	0000175D	03110	03174 03174	
VPSPCAL	00010	00001847	03133	03232 03232	
VPSPCUS	00007	00001851	03134	03234 03234	
VRACF	00008	00001768	03111	03176 03176	
VRECFM	00008	000016FB	03100	03164 03164	
VREFDT	00010	00001715	03103	03160 03160	
VREFDTC	00011	00001752	03109	03224 03224	
VREFDTJ	00011	00001733	03106	03212 03212	
VRSCODE	00009	000016A9	03091	03150 03150	
VSSPC	00008	00001770	03112	03192 03192	
VSSPCNM	00010	00001778	03113	03200 03200	
VTKAL	00012	000017CD	03122	03198 03198	
VTKUS	00011	000017D9	03123	03194 03194	
VTKUUS	00013	000017E4	03124	03202 03202	
VTRKLEN	00009	000017B0	03119	03214 03214	
VTTCC	00010	000017A6	03118	03206 03206	
VUNIT	00007	00001782	03114	03190 03190	
VUNITCAP	00010	000017C3	03121	03216 03216	
VVOL	00009	000016C6	03094	03188 03188	
VVOLLST	00010	00001858	03135	03236 03236	
WRPW	00001	00000A42	01900	01894	
WSAREA	00001	00000000	06460	06867	
WSAREAE	00001	00000854	06866	06867	
WSAREAL	00001	00000854	06867	00739 02485	
WSDSECT	00001	00000000	06459	00745	
Y2KWIN	00004	0000169C	03083	02856	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
=256X'40'					
	00001	00001478	02988	00867	
=C'LOCATE'					
	00008	00001578	02989	01122	
=C'0000/000'					
	00008	00001580	02990	01932 01957 01982	
=8X'FF'	00001	00001588	02991	02244	
=CL8'SYSALLDA'					
	00008	00001590	02992	02720	
=F'0'	00004	00001598	02993	00802	
=F'00'	00004	0000159C	02994	01081	
=F'16'	00004	000015A0	02995	01124 01185 01197 01202 02515 02520 02525 02530 02665	
=F'1'	00004	000015A4	02996	01425 01825	
=C'NONE'	00004	000015A8	02997	01916	
=C'RACF'	00004	000015AC	02998	01919	
=X'0000FFFF'					
	00004	000015B0	02999	02023	
=F'04'	00004	000015B4	03000	02120 02199 02315 02381	
=F'31'	00004	000015B8	03001	02264	
=F'4'	00004	000015BC	03002	02507	
=F'8'	00004	000015C0	03003	02509	
=F'12'	00004	000015C4	03004	02511	
=F'4004'	00004	000015C8	03005	02536	
=F'4005'	00004	000015CC	03006	02552	
=F'4008'	00004	000015D0	03007	02568	
=F'4009'	00004	000015D4	03008	02584	
=F'4010'	00004	000015D8	03009	02600	
=F'4097'	00004	000015DC	03010	02616	
=F'4098'	00004	000015E0	03011	02632	
=F'4099'	00004	000015E4	03012	02648	
=F'18'	00004	000015E8	03013	02954	
=C'00'	00002	000015EC	03014	00801 00804 01082	
=H'4'	00002	000015EE	03015	00849	
=C'99'	00002	000015F0	03016	01080	
=C'05'	00002	000015F2	03017	01123	
=C'16'	00002	000015F4	03018	01125 01186 01198 01203 02516 02521 02526 02531 02666	
=X'0001'	00002	000015F6	03019	01179	
=X'0000'	00002	000015F8	03020	01181	
=C'19'	00002	000015FA	03021	01184	
=C'26'	00002	000015FC	03022	01196	
=C'06'	00002	000015FE	03023	01201	
=H'0'	00002	00001600	03024	01422	
=C'DSORG Type'					
	00010	00001602	03025	01648	
=C'00/00/0000'					
	00010	0000160C	03026	01934 01959 01984	
=C'DeviceType'					
	00010	00001616	03027	02059	
=C'PO'	00002	00001620	03028	02109	
=C'02'	00002	00001622	03029	02119 02380	
=C'04'	00002	00001624	03030	02121 02200 02316 02382	
=C'13'	00002	00001626	03031	02198 02314	
=X'9000'	00002	00001628	03032	02434	
=C'21'	00002	0000162A	03033	02514	
=C'22'	00002	0000162C	03034	02519	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 09.46 05/07/19
=C'24'	00002	0000162E	03035	02524	
=C'23'	00002	00001630	03036	02529	
=C'29'	00002	00001632	03037	02664	
=C'??'	00002	00001634	03038	02826	
=H'59'	00002	00001636	03039	02881	
=P'100'	00002	00001638	03040	02885	
=P'400'	00002	0000163A	03041	02888	
=H'2'	00002	0000163C	03042	02898	
=C'001'	00003	0000163E	03043	01222	
=C'1'	00001	00001641	03044	01247	
=C'2'	00001	00001642	03045	01285	
=C'3'	00001	00001643	03046	01324	
=C'4'	00001	00001644	03047	01360	
=C'CYL'	00003	00001645	03048	01817	
=C'TRK'	00003	00001648	03049	01832	
=C'ABS'	00003	0000164B	03050	01847	
=C'BLK'	00003	0000164E	03051	01856	
=C'NONE'	00005	00001651	03052	01898	
=C'WRITE'	00005	00001656	03053	01901	
=C'R_W'	00005	0000165B	03054	01904	
=C'00000'	00005	00001660	03055	01933 01958 01983	
=X'000000'	00003	00001665	03056	01935 01960 01985	
=P'+0'	00001	00001668	03057	02409	
=P'+3'	00001	00001669	03058	02438	
=P'+4'	00001	0000166A	03059	02440	
=P'+1'	00001	0000166B	03060	02459	
=P'0'	00001	0000166C	03061	02886 02889	

ASM 0201 09.46 05/07/19

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

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

NOMLOGIC, NUMBER, OBJECT, RENT, RLD, STMT, NOLIBMAC, TERMINAL, NOTEST, XREF(SHORT)

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER =19066/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 3453

TOTAL RECORDS READ FROM SYSTEM LIBRARY 11737

TOTAL RECORDS PUNCHED 153

TOTAL RECORDS PRINTED 7551

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED MAP,LIST,LET,RENT,XREF
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
IEW0000 NAME LISTDSJ(R)

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
LISTDSJ	00	1FBC								

LOCATION REFERS TO SYMBOL IN CONTROL SECTION LOCATION REFERS TO SYMBOL IN CONTROL SECTION
ENTRY ADDRESS 00

TOTAL LENGTH 1FC0
***LISTDSJ NOW REPLACED IN DATA SET
AUTHORIZATION CODE IS 0.
**MODULE HAS BEEN MARKED REENTERABLE, AND REUSABLE.

./ ADD NAME=LISTDSJ

)F FUNCTION -

The LISTDSJ command sets CLIST variables for dataset attributes and other information.

)X SYNTAX -

LISTDSJ NAME VOL(VOLUME) DIR PNL ABOUT

REQUIRED - NAME without quotes

DEFAULTS - NONE

ALIAS - NONE

)O OPERANDS -

Parameters can appear in any order except NAME which must be the first parameter

))NAME - Fully qualified dataset name with no quotes as the FIRST parameter in the command line.

))VOL(VOLUME) - optional, target volume for data set name bypassing catalog search.

))DIR - optional, retrieve PDS directory information. This option will be ignored when requested file is not Partitioned.

))PNL - CLIST symbolic names use short format, &Snn. See Table 3, column 'S#' in program documentation for name specifics.

))ABOUT - optional, display LISTDSJ date time stamp on TSO session screen.
NOTE: Although a data set name, as a placeholder must be specified as the first parameter before the ABOUT keyword, no dataset information is retrieved. All CLIST variables will contain default values of question marks (?).

Sample Commands

1) LISTDSJ HERC01.TEST.CNTL ABOUT

Displays LISTDSJ date time stamp on TSO session screen and sets all LISTDSJ SYS* CLIST variables to question marks (?).

2) LISTDSJ HERC01.TEST.CNTL

Dataset attributes and other information for HERC01.TEST.CNTL are set for each LISTDSJ SYS* CLIST variable excluding DIRECTORY information.

3) LISTDSJ HERC01.TEST.CNTL DIR

Dataset attributes and other information for HERC01.TEST.CNTL are set for each LISTDSJ SYS* CLIST variable including DIRECTORY information.
Note: Last Referenced Date updated when file opened.

4) LISTDSJ HERC01.TEST.CNTL PNL

Dataset attributes and other information for HERC01.TEST.CNTL are set for each LISTDSJ Snn CLIST variable excluding

DIRECTORY information.

Note: Short name notation is used for this request (&Snn).

./ ENDUP

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

IEB818I HIGHEST CONDITION CODE WAS 00000000

IEB819I END OF JOB IEBUPDTE.

```
./ ADD NAME=CLISTDSJ
PROC 1 LTYP PRMS()
```

```
/* **** */
/*
/* CLIST: CLISTDSJ
/* AUTHOR: LARRY BELMONTES, JR.
/* E-DINO@BELMONTES.NET
/* HTTPS://SHAREABITOFIT/LISTDSJ-FOR-MVS-3-8J
/*
/*
/*
/* DESCRIPTION:
/* -----
/*
/* Test harness to display symbolic variable names and values
/* returned from LISTDSJ in one of three formats:
/* 1 - TWO COLUMN LIST
/* 2 - CONDENSED FORM
/* 3 - GROUPED FORM (3270-LIKE)
/*
/* NOTE: Do not use PNL option. CLIST will terminate abnormally.
/* This CLIST can only display &SYS* variable names.
/*
/*
/* COMMAND SYNTAX:
/* -----
/*
/* CLISTDSJ TYPE PRMS('xxxx...xx')
/*
/* TYPE (REQUIRED) DISPLAY LAYOUT TYPE
/* 1 - TWO COLUMN LIST
/* 2 - CONDENSED FORM
/* 3 - GROUPED FORM
/* PRMS (REQUIRED) FULLY QUALIFIED DATASET NAME followed
/* by LISTDSJ valid parameters. PRMS content
/* is enclosed with quotes.
/*
/* Example:
/* CLISTDSJ 1 PRMS('herc01.test.cntl dir')
/*
/*
/* DISCLAIMER:
/* -----
/*
/* NO GUARANTEE; NO WARRANTY; INSTALL / USE AT YOUR OWN RISK.
/*
/* THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESSED
/* OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE
/* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
/* PARTICULAR PURPOSE.
/*
/* THE AUTHOR REQUESTS KEEPING AUTHORS NAME INTACT TO ANY
```

```

/*****
/* INVOKE LISTDSJ
/*****/

```

```
LISTDSJ &PRMS
SET RC=&LASTCC
WRITE --- LISTDSJ RC=&RC
```

```
/******
```

```
/* DISPLAY RESULTS BASED ON LIST TYPE */
```

```
/******
```

```
IF &RC = 0 OR &RC = 4 OR &RC = 8 OR &RC = 16 THEN -
DO
```

```
IF &LTYP EQ 1 THEN -
```

```
DO
```

```
/* 1 - TWO COLUMN LIST */
```

```
WRITE 00. SYSDSNAME      ='&SYSDSNAME'
WRITE 01. SYSLISTDSJMSG   ='&SYSLISTDSJMSG'
WRITE 02. SYSVOLUME       ='&SYSVOLUME'
WRITE 03. SYSUNIT        ='&SYSUNIT'
WRITE 04. SYSDSORG       ='&SYSDSORG'
WRITE 05. SYSRECFM       ='&SYSRECFM'
WRITE 06. SYSLRECL       ='&SYSLRECL'
WRITE 07. SYSBLKSIZE     ='&SYSBLKSIZE'
WRITE 08. SYSKEYLEN      ='&SYSKEYLEN'
WRITE 09. SYSKEYPOS      ='&SYSKEYPOS'
WRITE 10. SYSSECONDS     ='&SYSSECONDS'
WRITE 11. SYSUNITS       ='&SYSUNITS'
WRITE 12. SYSEXTENTS     ='&SYSEXTENTS'
WRITE 13. SYSCREATE      ='&SYSCREATE'
WRITE 14. SYSJCREATE     ='&SYSJCREATE'
WRITE 15. SYSCCREATE     ='&SYSCCREATE'
WRITE 16. SYSREFDATE     ='&SYSREFDATE'
WRITE 17. SYSJREFDATE    ='&SYSJREFDATE'
WRITE 18. SYSCREFDATE    ='&SYSCREFDATE'
WRITE 19. SYSEXDATE      ='&SYSEXDATE'
WRITE 20. SYSJEXDATE     ='&SYSJEXDATE'
WRITE 21. SYSCEXDATE     ='&SYSCEXDATE'
WRITE 22. SYSPASSWORD    ='&SYSPASSWORD'
WRITE 23. SYSRACFA       ='&SYSRACFA'
WRITE 24. SYSTRKSCYL     ='&SYSTRKSCYL'
WRITE 25. SYSTRKLEN      ='&SYSTRKLEN'
WRITE 26. SYSBLKSTRK     ='&SYSBLKSTRK'
WRITE 27. SYSADIRBLK     ='&SYSADIRBLK'
WRITE 28. SYSUDIRBLK     ='&SYSUDIRBLK'
WRITE 29. SYSNUDIRBLK    ='&SYSNUDIRBLK'
WRITE 30. SYSMEMBERS     ='&SYSMEMBERS'
WRITE 31. SYSMEMBERSALIAS='&SYSMEMBERSALIAS'
WRITE 32. SYSREASON      ='&SYSREASON'
WRITE 33. SYSMSGLVL1     ='&SYSMSGLVL1'
WRITE 34. SYSMSGLVL2     ='&SYSMSGLVL2'
WRITE 35. SYSCYLVOL      ='&SYSCYLVOL'
WRITE 36. SYSTRKSALLOC   ='&SYSTRKSALLOC'
WRITE 37. SYSTRKSUSED    ='&SYSTRKSUSED'
WRITE 38. SYSTRKSUNUSED  ='&SYSTRKSUNUSED'
WRITE 39. SYSUNITCAP     ='&SYSUNITCAP'
```

```
WRITE 40. SYSNUMVOLS      ='&SYSNUMVOLS'  
WRITE 41. SYSDSCAT        ='&SYSDSCAT'  
WRITE 42. SYSDSCATV       ='&SYSDSCATV'  
WRITE 43. SYSPRIMARY      ='&SYSPRIMARY'  
WRITE 44. SYSUSED         ='&SYSUSED'  
WRITE 45. SYSVOLUMES     ='&SYSVOLUMES'
```

```
END
```

```
ELSE -
```

```
IF &LTYP EQ 2 THEN -
```

```
DO
```

```
/* 2 - CONDENSED FORM */
```

```
WRITE SYSLISTDSJMSG='&SYSLISTDSJMSG'
```

```
SET WLINE = &STR(RC='&RC')
```

```
SET WLINE = &STR(&WLINE SYMSGLVL1='&SYMSGLVL1')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSREASON='&SYSREASON')
```

```
SET WLINE = &STR(&WLINE SYMSGLVL2='&SYMSGLVL2')
```

```
WRITE &WLINE
```

```
WRITE SYSDSNAME='&SYSDSNAME'
```

```
SET WLINE = &STR(SYSDSORG='&SYSDSORG')
```

```
SET WLINE = &STR(&WLINE SYSRECFM='&SYSRECFM')
```

```
SET WLINE = &STR(&WLINE SYSLRECL='&SYSLRECL')
```

```
SET WLINE = &STR(&WLINE SYSBLKSIZE='&SYSBLKSIZE')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSKEYLEN='&SYSKEYLEN')
```

```
SET WLINE = &STR(&WLINE SYSKEYPOS='&SYSKEYPOS')
```

```
SET WLINE = &STR(&WLINE SYSPASSWORD='&SYSPASSWORD')
```

```
SET WLINE = &STR(&WLINE SYSRACFA='&SYSRACFA')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSJCREATE='&SYSJCREATE')
```

```
SET WLINE = &STR(&WLINE SYSJEXDATE='&SYSJEXDATE')
```

```
SET WLINE = &STR(&WLINE SYSJREFDATE='&SYSJREFDATE')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSCREATE='&SYSCREATE')
```

```
SET WLINE = &STR(&WLINE SYSEXDATE='&SYSEXDATE')
```

```
SET WLINE = &STR(&WLINE SYSREFDATE='&SYSREFDATE')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSCCREATE='&SYSCCREATE')
```

```
SET WLINE = &STR(&WLINE SYSCEXDATE='&SYSCEXDATE')
```

```
SET WLINE = &STR(&WLINE SYSCREFDATE='&SYSCREFDATE')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSTRKLEN='&SYSTRKLEN')
```

```
SET WLINE = &STR(&WLINE SYSBLKSTRK='&SYSBLKSTRK')
```

```
WRITE &WLINE
```

```
SET WLINE = &STR(SYSVOLUME='&SYSVOLUME')
```

```
SET WLINE = &STR(&WLINE SYSUNIT='&SYSUNIT')
SET WLINE = &STR(&WLINE SYSCYLVOL='&SYSCYLVOL')
SET WLINE = &STR(&WLINE SYSTRKSCYL='&SYSTRKSCYL')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSUNITS='&SYSUNITS')
SET WLINE = &STR(&WLINE SYSSECONDS='&SYSSECONDS')
SET WLINE = &STR(&WLINE SYSEXTENTS='&SYSEXTENTS')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSTRKSALLOC='&SYSTRKSALLOC')
SET WLINE = &STR(&WLINE SYSTRKSUSED='&SYSTRKSUSED')
SET WLINE = &STR(&WLINE SYSTRKSUNUSED='&SYSTRKSUNUSED')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSADIRBLK='&SYSADIRBLK')
SET WLINE = &STR(&WLINE SYSUDIRBLK='&SYSUDIRBLK')
SET WLINE = &STR(&WLINE SYSNUDIRBLK='&SYSNUDIRBLK')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSMEMBERS='&SYSMEMBERS')
SET WLINE = &STR(&WLINE SYSMEMBERSALIAS='&SYSMEMBERSALIAS')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSUNITCAP='&SYSUNITCAP')
SET WLINE = &STR(&WLINE SYSNUMVOLS='&SYSNUMVOLS')
SET WLINE = &STR(&WLINE SYSDSCAT='&SYSDSCAT')
SET WLINE = &STR(&WLINE SYSDSCATV='&SYSDSCATV')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSPRIMARY='&SYSPRIMARY')
SET WLINE = &STR(&WLINE SYSUSED='&SYSUSED')
WRITE &WLINE
```

```
SET WLINE = &STR(SYSVOLUMES='&SYSVOLUMES')
WRITE &WLINE
```

```
END
ELSE -
IF &LTYP EQ 3 THEN -
```

```
DO
/* 3 - GROUPED FORM (3270-LIKE) */
SET WLINE = &STR(MSG: &SUBSTR(1:71,&SYSLISTDSJMSG)...)
WRITE &WLINE
```

```
SET WLINE = &STR(RETURN CD: &RC &STR(&SYMSGLVL1))
WRITE &WLINE
```

```
SET WLINE = &STR(SYSREASON: &SYSREASON )
SET WLINE = &STR(&WLINE&STR(&SYMSGLVL2))
WRITE &WLINE
```

```
WRITE
```

```
SET WLINE = &STR(&SYSDSNAME)
WRITE &WLINE
```

```
SET WLINE = &STR(DSORG RECFM LRECL BLKSZ KEYL RKP)
SET WLINE = &STR(&WLINE PASSWORD RACF)
WRITE &WLINE
```

```
SET WLINE = &STR(&SYSDSORG)
SET WLINE = &STR(&WLINE &SYSRECFM)
SET WLINE = &STR(&WLINE &SYSLRECL)
SET WLINE = &STR(&WLINE &SYSBLKSIZE)
SET WLINE = &STR(&WLINE &SYSKEYLEN)
SET WLINE = &STR(&WLINE &SYSKEYPOS)
SET WLINE = &STR(&WLINE &SYSPASSWORD)
SET WLINE = &STR(&WLINE &SYSRACFA)
WRITE &WLINE
```

```
SET WLINE = &STR(CREDIT &SYSCCREATE)
SET WLINE = &STR(&WLINE EXPDT &SYSCEXDATE)
SET WLINE = &STR(&WLINE REFDT &SYSCREFDATE)
SET WLINE = &STR(&WLINE CATL: &SYSDSCAT)
WRITE &WLINE
```

```
SET WLINE = &STR( &SYSJCREATE &SYSCREATE)
SET WLINE = &STR(&WLINE &SYSJEXDATE &SYSEXDATE)
SET WLINE = &STR(&WLINE &SYSJREFDATE &SYSREFDATE)
SET WLINE = &STR(&WLINE CVOL: &SYSDSCATV)
WRITE &WLINE
```

```
SET WLINE = &STR(&SYSVOLUMES )
SET WLINE = &STR(&WLINE VOL: &SYSNUMVOLS)
WRITE &WLINE
```

```
SET WLINE = &STR(ALLOCATION: TYPE PRI USED)
SET WLINE = &STR(&WLINE SEC)
WRITE &WLINE
```

```
SET WLINE = &STR( &SYSVOLUME)
SET WLINE = &STR(&WLINE &SYSUNITS)
SET WLINE = &STR(&WLINE &SYSPRIMARY)
SET WLINE = &STR(&WLINE &SYSUSED)
SET WLINE = &STR(&WLINE &SYSSECONDS)
WRITE &WLINE
```

```
SET WLINE = &STR(TRACKS: TOT USED UNUSED EXTENTS)
SET WLINE = &STR(&WLINE )
WRITE &WLINE
```

```
SET WLINE = &STR( &SYSTRKSALLOC)
SET WLINE = &STR(&WLINE &SYSTRKSUSED)
SET WLINE = &STR(&WLINE &SYSTRKSUNUSED)
```

SET WLINE = &STR(&WLINE &SYSEXTENTS)
WRITE &WLINE

SET WLINE = &STR(DEVICE: CYLS TRKSCYL TRKLEN BLKSTRK)
SET WLINE = &STR(&WLINE CAPACITY)
WRITE &WLINE

SET WLINE = &STR(&SYSUNIT)
SET WLINE = &STR(&WLINE &SYSCYLVOL)
SET WLINE = &STR(&WLINE &SYSTRKSCYL)
SET WLINE = &STR(&WLINE &SYSTRKLEN)
SET WLINE = &STR(&WLINE &SYSBLKSTRK)
SET WLINE = &STR(&WLINE &SYSUNITCAP)
WRITE &WLINE

SET WLINE = &STR(PO DIR: BLKS USED UNUSED MEMBERS)
SET WLINE = &STR(&WLINE ALIAS)
WRITE &WLINE

SET WLINE = &STR(&SYSADIRBLK)
SET WLINE = &STR(&WLINE &SYSUDIRBLK)
SET WLINE = &STR(&WLINE &SYSNUDIRBLK)
SET WLINE = &STR(&WLINE &SYSMEMBERS)
SET WLINE = &STR(&WLINE &SYSMEMBERSALIAS)
WRITE &WLINE

END

END
ELSE -

WRITE --- LISTDSJ BYPASSED VALUE LISTING DUE TO RETURN CODE (&RC).

ENDIT: -
END

EXIT CODE(0)

./ ENDUP

IEB816I MEMBER NAME (CLISTDSJ) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.

CLISTDSJ X PRMS('Validate List type 1')

* * * VALIDATE LIST TYPE 1

CLISTDSJ 1 PRMS('HERC01.TEST.CNTL')

--- CLISTDSJ LIST TYPE '1'

--- LISTDSJ RC=0

00. SYSDSNAME = 'HERC01.TEST.CNTL'

01. SYSLISTDSJMSG = ' '

02. SYSVOLUME = 'PUB000'

03. SYSUNIT = '3350'

04. SYSDSORG = 'PO'

05. SYSRECFM = 'FB'

06. SYSLRECL = '00080'

07. SYSBLKSIZE = '19040'

08. SYSKEYLEN = '000'

09. SYSKEYPOS = '00000'

10. SYSSECONDS = '0000001'

11. SYSUNITS = 'CYL'

12. SYSEXTENTS = '001'

13. SYSCREATE = '1974/194'

14. SYSJCREATE = '74194'

15. SYSCCREATE = '07/13/1974'

16. SYSREFDATE = '2019/126'

17. SYSJREFDATE = '19126'

18. SYSCREFDATE = '05/06/2019'

19. SYSEXDATE = '0000/000'

20. SYSJEXDATE = '00000'

21. SYSCEXDATE = '00/00/0000'

22. SYSPASSWORD = 'NONE'

23. SYSRACFA = 'NONE'

24. SYSTRKSCYL = '00030'

25. SYSTRKLEN = '19254'

26. SYSBLKSTRK = '00001'

27. SYSADIRBLK = '?????'

28. SYSUDIRBLK = '?????'

29. SYSNUDIRBLK = '?????'

30. SYSMEMBERS = '?????'

31. SYSMEMBERSALIAS = '?????'

32. SYSREASON = '00'

33. SYMSGGLVL1 = 'SUCCESSFUL REQUEST'

34. SYMSGGLVL2 = 'NORMAL COMPLETION'

35. SYSCYLVOL = '00555'

36. SYSTRKSALLOC = '00030'

37. SYSTRKSUSED = '00001'

38. SYSTRKSUNUSED = '00029'

39. SYSUNITCAP = '000000320579100'

40. SYSNUMVOLS = '001'

41. SYSDSCAT = 'Y'

42. SYSDSCATV = 'PUB000'

43. SYSPRIMARY = '00001'

44. SYSUSED = '00000'

45. SYSVOLUMES = 'PUB000'

END

```
CLISTDSJ X PRMS('Validate List type 2')

*****
* * * VALIDATE LIST TYPE 2
*****

CLISTDSJ 2 PRMS('HERC01.TEST.CNTL')
--- CLISTDSJ LIST TYPE '2'
--- LISTDSJ RC=0
SYSLISTDSJMSG='
RC='0' SYMSGLVL1='SUCCESSFUL REQUEST'
SYSREASON='00' SYMSGLVL2='NORMAL COMPLETION'
SYSDSNAME='HERC01.TEST.CNTL
SYSDSORG='P0 ' SYSRECFM='FB ' SYSLRECL='00080' SYSBLKSIZE='19040'
SYSKEYLEN='000' SYSKEYPOS='00000' SYSPASSWORD='NONE ' SYSRACFA='NONE'
SYSJCREATE='74194' SYSJEXDATE='00000' SYSJREFDATE='19126'
SYSCREATE='1974/194' SYSEXDATE='0000/000' SYSREFDATE='2019/126'
SYSCCREATE='07/13/1974' SYSCEXDATE='00/00/0000' SYSCREFDATE='05/06/2019'
SYSTRKLEN='19254' SYSBLKSTRK='00001'
SYSVOLUME='PUB000' SYSUNIT='3350 ' SYSCYLVOL='00555' SYSTRKSCYL='00030'
SYSUNITS='CYL' SYSSECONDS='0000001' SYSEXTENTS='001'
SYSTRKSALLOC='00030' SYSTRKSUSED='00001' SYSTRKSUNUSED='00029'
SYSADIRBLK='?????' SYSUDIRBLK='?????' SYSNUDIRBLK='?????'
SYSMEMBERS='?????' SYSMEMBERSALIAS='?????'
SYSUNITCAP='000000320579100' SYSNUMVOLS='001' SYSDSCAT='Y' SYSDSCATV='PUB000'
SYSPRIMARY='00001' SYSUSED='00000'
SYSVOLUMES='PUB000
END
```

CLISTDSJ X PRMS('Validate List type 3')

* * * VALIDATE LIST TYPE 3

CLISTDSJ 1 PRMS('HERC01.TEST.CNTL')

--- CLISTDSJ LIST TYPE '1'

--- LISTDSJ RC=0

00. SYSDSNAME = 'HERC01.TEST.CNTL'

01. SYSLISTDSJMSG = ' '

02. SYSVOLUME = 'PUB000'

03. SYSUNIT = '3350'

04. SYSDSORG = 'PO'

05. SYSRECFM = 'FB'

06. SYSLRECL = '00080'

07. SYSBLKSIZE = '19040'

08. SYSKEYLEN = '000'

09. SYSKEYPOS = '00000'

10. SYSSECONDS = '0000001'

11. SYSUNITS = 'CYL'

12. SYSEXTENTS = '001'

13. SYSCREATE = '1974/194'

14. SYSJCREATE = '74194'

15. SYSCCREATE = '07/13/1974'

16. SYSREFDATE = '2019/126'

17. SYSJREFDATE = '19126'

18. SYSCREFDATE = '05/06/2019'

19. SYSEXDATE = '0000/000'

20. SYSJEXDATE = '00000'

21. SYSCEXDATE = '00/00/0000'

22. SYSPASSWORD = 'NONE'

23. SYSRACFA = 'NONE'

24. SYSTRKSCYL = '00030'

25. SYSTRKLEN = '19254'

26. SYSBLKSTRK = '00001'

27. SYSADIRBLK = '?????'

28. SYSUDIRBLK = '?????'

29. SYSNUDIRBLK = '?????'

30. SYSMEMBERS = '?????'

31. SYSMEMBERSALIAS = '?????'

32. SYSREASON = '00'

33. SYMSGGLVL1 = 'SUCCESSFUL REQUEST'

34. SYMSGGLVL2 = 'NORMAL COMPLETION'

35. SYSCYLVOL = '00555'

36. SYSTRKSALLOC = '00030'

37. SYSTRKSUSED = '00001'

38. SYSTRKSUNUSED = '00029'

39. SYSUNITCAP = '000000320579100'

40. SYSNUMVOLS = '001'

41. SYSDSCAT = 'Y'

42. SYSDSCATV = 'PUB000'

43. SYSPRIMARY = '00001'

44. SYSUSED = '00000'

45. SYSVOLUMES = 'PUB000'

END

```
CLISTDSJ X PRMS('Validate List type 3 with DIR option')

*****
* * * VALIDATE LIST TYPE 3 WITH DIR OPTION
*****

CLISTDSJ 3 PRMS('HERC01.TEST.CNTL DIR')
--- CLISTDSJ LIST TYPE '3'
--- LISTDSJ RC=0
MSG:
RETURN CD: 0    SUCCESSFUL REQUEST
SYSREASON: 00   NORMAL COMPLETION

HERC01.TEST.CNTL
DSORG RECFM LRECL BLKSZ KEYL  RKP   PASSWORD RACF
PO    FB      00080 19040 000   00000 NONE     NONE
CREDIT 07/13/1974  EXPDT 00/00/0000 REFDT 05/06/2019   CATL: Y
      74194 1974/194    00000 0000/000    19126 2019/126   CVOL: PUB000
PUB000                                VOLS: 001
ALLOCATION:      TYPE      PRI      USED      SEC
              PUB000  CYL      00001    00000    0000001
TRACKS: TOT      USED      UNUSED  EXTENTS
      00030    00001    00029    001
DEVICE: CYLS      TRKSCYL  TRKLEN  BLKSTRK  CAPACITY
3350    00555    00030    19254    00001    000000320579100
PO DIR: BLKS      USED      UNUSED  MEMBERS  ALIAS
      00020    00001    00019    00002    00000

END
```

```
*****
*  *  VALIDATE WITH ABOUT OPTION
*****
```

45.
END

CLISTDSJ X PRMS('Validate as to why NOT to use PNL w CLISTDSJ')

* * * VALIDATE AS TO WHY NOT TO USE PNL W CLISTDSJ

CLISTDSJ 3 PRMS('HERC01.TEST.CNTL PNL')
--- CLISTDSJ LIST TYPE '3'
--- LISTDSJ RC=0
SET WLINE = &STR(MSG: &SUBSTR(1:71,&SYSLISTDSJMSG)...)
IKJ56545I THIS STATEMENT HAS AN UNDEFINED SYMBOLIC VARIABLE
END

