

J E S 2 J O B L O G

17.21.44 JOB 5615 \$HASP373 LISTDSJ1 STARTED - INIT 1 - CLASS A - SYS BSP1
17.21.44 JOB 5615 IEF403I LISTDSJ1 - STARTED - TIME=17.21.44
17.21.44 JOB 5615 IEFACTRT - Stepname Procstep Program Retcode
17.21.44 JOB 5615 LISTDSJ1 ASM IFOX00 RC= 0000
17.21.44 JOB 5615 LISTDSJ1 LKED IEWL RC= 0000
17.21.44 JOB 5615 DYNABLDL STOPPED
17.21.44 JOB 5615 LISTDSJ1 DBSTOP IEFPROC DYNABLDL RC= 0000
17.21.44 JOB 5615 DYNABLDL STARTED
17.21.44 JOB 5615 LISTDSJ1 DBSTART IEFPROC DYNABLDL RC= 0000
17.21.44 JOB 5615 LISTDSJ1 ADDHELP IEBUPDTE RC= 0000
17.21.44 JOB 5615 LISTDSJ1 ADDCLST IEBUPDTE RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT1 STEP01 IKJEFT01 RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT2 STEP01 IKJEFT01 RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT3 STEP01 IKJEFT01 RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT4 STEP01 IKJEFT01 RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT5 STEP01 IKJEFT01 RC= 0000
17.21.45 JOB 5615 LISTDSJ1 VALDAT6 STEP01 IKJEFT01 RC= 0904
17.21.45 JOB 5615 IEF404I LISTDSJ1 - ENDED - TIME=17.21.45
17.21.45 JOB 5615 \$HASP395 LISTDSJ1 ENDED

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

18 MAY 19 JOB EXECUTION DATE

4,161 CARDS READ

8,884 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.02 MINUTES EXECUTION TIME

```

1 //LISTDSJ1 JOB (SYS),'Install LISTDSJ TSO',CLASS=A, JOB 5615
*** ** LENOVO2IN1: SUBMVS submitted
*** ** M:\$myMainframe\$submit_work\SUBMIT_LISTDSJ1_JOB09803.JCL
*** ** from source file (len=57):
*** ** m:\$myMainframe\$LARRY_MVS_CNTL\LISTDSJ\V1001\$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)

```

```

*** -----*
*** *
*** *  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 *

```

```
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
    //
```

```

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   SYS19138.T172144.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.JOB05615.S00111                        SYSOUT
IEF285I   JES2.JOB05615.S00112                        SYSOUT
IEF285I   SYS19138.T172144.RA000.LISTDSJ1.R0000001    DELETED      *-----498
IEF285I   SYS19138.T172144.RA000.LISTDSJ1.R0000002    DELETED      *-----104
IEF285I   SYS19138.T172144.RA000.LISTDSJ1.R0000003    DELETED      *-----62
IEF285I   JES2.JOB05615.SI0101                        SYSIN
IEF373I STEP /ASM      / START 19138.1721
IEF374I STEP /ASM      / STOP 19138.1721 CPU      0MIN 00.47SEC SRB      0MIN 00.03SEC VIRT  768K SYS  416K
*****
*      1. Jobstep of job: LISTDSJ1      Stepname: ASM      Program name: IFOX00      Executed on 18.05.19 from 17.21.44 to 17.21.44 *
*      elapsed time 24:00:00,55      CPU-Identifier: BSP1      Page-in: 0 *
*      CPU time 00:00:00,50      Virtual Storage used: 768K      Page-out: 0 *
*      corr. CPU: 00:00:00,50      CPU time has been corrected by 1 / 1,0 multiplier *
*
*      I/O Operation *
*      Number of records read via DD * or DD DATA: 3591 *
*      FFF.....16 148.....95 248.....26 148.....0 DMY.....0 DMY.....0 DMY.....0 FFF.....498 FFF.....104 FFF.....62 *
*      DMY.....0 *
*
*      Charge for step (w/o SYSOUT): 0,83 *
*****
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   SYS19138.T172144.RA000.LISTDSJ1.LOADSET      DELETED      *-----17
IEF285I   JES2.JOB05615.SI0102                        SYSIN
IEF285I   SYS2.CMDLIB                                KEPT          *-----10
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB05615.S00113                        SYSOUT
IEF285I   SYS19138.T172144.RA000.LISTDSJ1.R0000004    DELETED      *-----0
IEF373I STEP /LKED      / START 19138.1721
IEF374I STEP /LKED      / STOP 19138.1721 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT  260K SYS  264K
*****
*      2. Jobstep of job: LISTDSJ1      Stepname: LKED      Program name: IEWL      Executed on 18.05.19 from 17.21.44 to 17.21.44 *
*      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 *

```

```
*      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 19138.1721
IEF374I STEP /IEFPROC / STOP 19138.1721 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 19138.1721
IEF374I STEP /IEFPROC / STOP 19138.1721 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.JOB05615.S00114      SYSOUT
IEF285I SYS2.HELP      KEPT      *-----4
IEF285I VOL SER NOS= PUB000.
IEF285I JES2.JOB05615.SI0103      SYSIN
IEF373I STEP /ADDHELP / START 19138.1721
IEF374I STEP /ADDHELP / STOP 19138.1721 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT      48K SYS      228K
*****
*      5. Jobstep of job: LISTDSJ1      Stepname: ADDHELP      Program name: IEBUPDTE      Executed on 18.05.19 from 17.21.44 to 17.21.44      *
*      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: 67      *
*      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.JOB05615.S00115      SYSOUT
IEF285I SYS2.CMDPROC      KEPT      *-----5
IEF285I VOL SER NOS= PUB005.
IEF285I JES2.JOB05615.SI0104      SYSIN
IEF373I STEP /ADDCLST / START 19138.1721
IEF374I STEP /ADDCLST / STOP 19138.1721 CPU      0MIN 00.01SEC SRB      0MIN 00.00SEC VIRT      48K SYS      228K
*****
*      6. Jobstep of job: LISTDSJ1      Stepname: ADDCLST      Program name: IEBUPDTE      Executed on 18.05.19 from 17.21.44 to 17.21.44      *
*      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: 349      *
*      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
```

```

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.JOB05615.S00116             SYSOUT
IEF285I   JES2.JOB05615.S00117             SYSOUT
IEF285I   JES2.JOB05615.SI0105             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19138.1721
IEF374I STEP /STEP01 / STOP 19138.1721 CPU      0MIN 00.11SEC SRB      0MIN 00.00SEC VIRT   116K SYS   272K
*****
*      7. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.44 to 17.21.45 *
*      elapsed time 24:00:00,13                      CPU-Identifler:  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 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.JOB05615.S00118             SYSOUT
IEF285I   JES2.JOB05615.S00119             SYSOUT
IEF285I   JES2.JOB05615.SI0106             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19138.1721
IEF374I STEP /STEP01 / STOP 19138.1721 CPU      0MIN 00.11SEC SRB      0MIN 00.00SEC VIRT   116K SYS   272K
*****
*      8. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.45 to 17.21.45 *
*      elapsed time 24:00:00,13                      CPU-Identifler:  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.JOB05615.S00120             SYSOUT
IEF285I   JES2.JOB05615.S00121             SYSOUT
IEF285I   JES2.JOB05615.SI0107             SYSIN
IEF285I   SYS1.UCAT.TS0                     KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19138.1721

```

```
IEF374I STEP /STEP01 / STOP 19138.1721 CPU      0MIN 00.11SEC SRB      0MIN 00.00SEC VIRT    116K SYS    276K
*****
*      9. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.45 to 17.21.45 *
*      elapsed time 24:00:00,11      CPU-Identifler:  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 DMY.....0 240.....0      *
*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
*      Charge for step (w/o SYSOUT):      0,18      *
*****
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.JOB05615.S00122      SYSOUT
IEF285I JES2.JOB05615.S00123      SYSOUT
IEF285I JES2.JOB05615.SI0108      SYSIN
IEF285I SYS1.UCAT.TSO      KEPT      *-----0
IEF285I VOL SER NOS= PUB000.
IEF373I STEP /STEP01 / START 19138.1721
IEF374I STEP /STEP01 / STOP 19138.1721 CPU      0MIN 00.12SEC SRB      0MIN 00.00SEC VIRT    116K SYS    276K
*****
*     10. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.45 to 17.21.45 *
*     elapsed time 24:00:00,13      CPU-Identifler:  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 DMY.....0 240.....0      *
*     *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
*     Charge for step (w/o SYSOUT):      0,20      *
*****
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.JOB05615.S00124      SYSOUT
IEF285I JES2.JOB05615.S00125      SYSOUT
IEF285I JES2.JOB05615.SI0109      SYSIN
IEF373I STEP /STEP01 / START 19138.1721
IEF374I STEP /STEP01 / STOP 19138.1721 CPU      0MIN 00.10SEC SRB      0MIN 00.00SEC VIRT    116K SYS    256K
*****
*     11. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.45 to 17.21.45 *
*     elapsed time 24:00:00,10      CPU-Identifler:  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 DMY.....0 240.....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.JOB05615.S00126      SYSOUT
IEF285I   JES2.JOB05615.S00127      SYSOUT
IEF285I   JES2.JOB05615.SI0110      SYSIN
IEF285I   SYS1.UCAT.TS0             KEPT          *-----0
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /STEP01  / START 19138.1721
IEF374I STEP /STEP01  / STOP  19138.1721 CPU      0MIN 00.10SEC SRB      0MIN 00.00SEC VIRT   116K SYS   276K
*****
*      12. Jobstep of job: LISTDSJ1      Stepname: STEP01      Program name: IKJEFT01      Executed on 18.05.19 from 17.21.45 to 17.21.45 *
*      elapsed time 24:00:00,11          CPU-Identifier:  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
*
*****
IEF375I  JOB /LISTDSJ1/ START 19138.1721
IEF376I  JOB /LISTDSJ1/ STOP  19138.1721 CPU      0MIN 01.15SEC SRB      0MIN 00.03SEC
```


SYMBOL	TYPE	ID	ADDR	LENGTH	LDID	ASM 0201 17.21 05/18/19
LISTDSJ	SD	0001	000000	0020C4		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
-----	--------	------	-------	-------	------	--------	-----------	-------------------------

```
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.net/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 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

```
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 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

				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 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

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 17.21 05/18/19
				134 *	Command Syntax for LISTDSJ: <CMDSYNTAX>	
				135 *	=====	
				136 *		
				137 *	LISTDSJ NAME VOL(volser) DIR PNL ABOUT DS(x) DF(n)	LB1001b
				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 *		LB1001a
				165 *	6) DS, optional, date separator to be used for dates	LB1001a
				166 *	DS(D) use dash (-)	LB1001a
				167 *	DS(P) use period (.)	LB1001a
				168 *	DS(S) use slash (/) **Default	LB1001a
				169 *		LB1001b
				170 *	7) DF, optional, date format layout for MDY type dates	LB1001b
				171 *	DF(1) use date format MM_DD_CCYY	LB1001b
				172 *	DF(2) use date format DD_MM_CCYY	LB1001b
				173 *	DF(3) use date format CCYY_MM_DD **Default	LB1001b
				174 *	DF(4) use date format CCYY_DD_MM	LB1001b
				175 *		
				176 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

178	*				LISTDSJ Command Examples:	
179	*				=====	
180	*					
181	*				1) LISTDSJ HERC01.TEST.CNTL	
182	*				Dataset attributes and other information for HERC01.ETST.CNTL	
183	*				are set for each LISTDSJ SYS* CLIST variable excluding	
184	*				DIRECTORY information.	
185	*					
186	*				2) LISTDSJ HERC01.TEST.CNTL DIR	
187	*				Dataset attributes and other information for HERC01.ETST.CNTL	
188	*				are set for each LISTDSJ SYS* CLIST variable including	
189	*				DIRECTORY information.	
190	*				NOTE: Last Referenced Date updated when file opened.	
191	*					
192	*				3) LISTDSJ HERC01.TEST.CNTL PNL	
193	*				Dataset attributes and other information for HERC01.ETST.CNTL	
194	*				are set for each LISTDSJ Snn CLIST variable excluding	
195	*				DIRECTORY information.	
196	*				NOTE: Short variable name notation is used for this	
197	*				request (&Snn).	
198	*					
199	*				4) LISTDSJ HERC01.TEST.CNTL ABOUT	
200	*				Display LISTDSJ date time stamp on TSO session screen and set	
201	*				all LISTDSJ SYS* CLIST variables to question marks (?).	
202	*					
203	*					

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 17.21 05/18/19

205 * Table 1 - Program Register Usage

206 *

207 *

208 *

209 *

210 *

211 *

212 *

213 *

214 *

215 *

216 *

217 *

218 *

219 *

220 *

221 *

222 *

223 *

224 *

225 *

226 *

227 *

228 *

229 *

230 *

231 *

232 *

233 *

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 17.21 05/18/19

235 * Table 2 - Return Codes

236 *

237 *

238 *

239 *

240 *

241 *

242 *

243 *

244 *

245 *

246 *

247 *

248 *

249 *

250 *

251 *

252 *

253 *

254 *

255 *

256 *

257 *

258 *

259 *

260 *

261 *

262 *

263 *

264 *

265 *

266 *

267 *

268 *

| RETURN |

| CODE |

DESCRIPTION

| 00 |

Successful Request

| 04 |

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

| 16 |

Severe error occurred.
None of the variables values are valid.

| 4004- |

Parm not supplied to LISTDSJ

| 4005 |

None of the variables values are valid.

Program terminated.

| 4008- |

CPPL error no variables found

| 4010 |

None of the variables values are valid.

Program terminated.

| 4097 |

Program cannot link to TSO dynamic allocation interface

Program terminated.

| 4098 |

Program cannot link to CLIST variable processing API

Program terminated.

| 4099 |

Program not executing under TSO

Program terminated.

Note: -Symbolic Variable &LASTCC contains LISTDSJ return code

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

	270	*	Table 3 - CLIST Variables <CLSTVARS>		
	271	*			
	272	*	+---+	-----+	-+-----+
	273	*	S#	CLIST VARIABLE	CONTENT
	274	*	+---+	-----+	-+-----+
	275	*		LASTCC	Return code from LISTDSJ available
	276	*			immediately after execution of LISTDSJ
	277	*			command
	278	*	+---+	-----+	-+-----+
	279	*	00	SYSDSNAME	Dataset name
	280	*	+---+	-----+	-+-----+
	281	*	01	SYSLISTDSJMSG	LISTDSJ message variable
	282	*			Miscellaneous processing message
	283	*	+---+	-----+	-+-----+
	284	*	02	SYSREASON	LISTDSJ reason code
	285	*			See REASON CODE table, Table 4
	286	*			column REASON CODE
	287	*	+---+	-----+	-+-----+
	288	*	03	SYSMSGLVL1	First-level message
	289	*			See RETURN CODE table, Table 2
	290	*			column DESCRIPTION
	291	*	+---+	-----+	-+-----+
	292	*	04	SYSMSGLVL2	Second-level message
	293	*			See REASON CODE table, Table 4
	294	*			column DESCRIPTION
	295	*	+---+	-----+	-+-----+
	296	*	05	SYSCREATE	Creation Date format CCYY/JJJ
	297	*			CCYY-century year, JJJ-julian date
	298	*			Note: Century windowed at 70.
	299	*	+---+	-----+	-+-----+
	300	*	06	SYSEXDATE	Expiration Date format CCYY/JJJ
	301	*			CCYY-century year, JJJ-julian date
	302	*			Note: Century windowed at 70.
	303	*	+---+	-----+	-+-----+
	304	*	07	SYSREFDATE	Last Referenced Date format CCYY/JJJ
	305	*			CCYY-century year, JJJ-julian date
	306	*			Note: Century windowed at 70.
	307	*			Referenced date will be updated with DIR
	308	*			option is used on a PDS request.
	309	*	+---+	-----+	-+-----+
	310	*	08	SYSDSORG	Dataset Organization
	311	*			IS -ISAM
	312	*			PS -Physical Sequential
	313	*			DA -Direct Access
	314	*			PO -Partition Organization
	315	*			U -Undefined
	316	*			VS -VSAM
	317	*			
	318	*			xxU -Unmovable
	319	*	+---+	-----+	-+-----+

	321	*	Table 3 - CLIST Variables (continued)						
	322	*							
	323	*	+--+-----+-----+						
	324	*	S#	CLIST VARIABLE	CONTENT				
	325	*	+--+-----+-----+						
	326	*	09	SYSRECFM	Record format for non-VSAM datasets				
	327	*			Character combination e.g. FBA				
	328	*			U -Undefined				
	329	*			F -Fixed				
	330	*			V -Variable				
	331	*			B -Blocked				
	332	*			T -Track Overflow				
	333	*			S -Spanned or Standard				
	334	*			A -ANSI				
	335	*			M -Machine				
	336	*	+--+-----+-----+						
	337	*	10	SYSLRECL	Logical record length				
	338	*	+--+-----+-----+						
	339	*	11	SYSBLKSIZE	Block size				
	340	*	+--+-----+-----+						
	341	*	12	SYSKEYLEN	Key Length				
	342	*	+--+-----+-----+						
	343	*	13	SYSKEYPOS	Relative Key Position				
	344	*	+--+-----+-----+						
	345	*	14	SYSPASSWORD	Password Indication				
	346	*			NONE	No password required			
	347	*			READ	Password required to READ			
	348	*			R_W	Password required to READ and WRITE			
	349	*	+--+-----+-----+						
	350	*	15	SYSRACFA	RACF Indication				
	351	*			NONE				
	352	*			RACF				
	353	*	+--+-----+-----+						
	354	*	16	SYSADIRBLK	Directory Blocks Allocated				
	355	*			Only for PDS when DIR option is specified				
	356	*	+--+-----+-----+						
	357	*	17	SYSUDIRBLK	Directory Blocks Used				
	358	*			Only for PDS when DIR option is specified				
	359	*	+--+-----+-----+						
	360	*	18	SYSNUDIRBLK	Directory Blocks Not Used				
	361	*			Only for PDS when DIR option is specified				
	362	*	+--+-----+-----+						
	363	*	19	SYSMEMBERS	Number of Members (total members)				
	364	*			Only for PDS when DIR option is specified				
	365	*	+--+-----+-----+						
	366	*	20	SYSMEMBERSALIAS	Number of Alias Members (total within SYSMEMBERS)				
	367	*			Only for PDS when DIR option is specified				
	368	*							
	369	*	+--+-----+-----+						

371	*	Table 3 - CLIST Variables (continued)		
372	*			
373	*	+---+	-----+	-----+
374	*	S#	CLIST VARIABLE	CONTENT
375	*	+---+	-----+	-----+
376	*	21	SYSVOLUME	Volume serial ID
377	*	+---+	-----+	-----+
378	*	22	SYSUNIT	Device Unit on which volume resides
379	*			2305, 2305-2, 2314,
380	*			3330, 3340, 3350, 3375, 3380, 3390
381	*	+---+	-----+	-----+
382	*	23	SYSUNITS	Space Units
383	*			CYL -Cylinder
384	*			TRK -Track
385	*			BLK -Block
386	*			ABS -Absolute
387	*	+---+	-----+	-----+
388	*	24	SYSTRKSUSED	Total Tracks Used
389	*	+---+	-----+	-----+
390	*	25	SYSEXTENTS	Number of Extents allocated
391	*	+---+	-----+	-----+
392	*	26	SYSTRKSALLOC	Total Tracks Allocated
393	*	+---+	-----+	-----+
394	*	27	SYSSECONDS	Secondary Allocation in Space Units
395	*	+---+	-----+	-----+
396	*	28	SYSTRKSUNUSED	Total Tracks Unused
397	*	+---+	-----+	-----+
398	*	29	SYSCYLVOL	Cylinders for Volume
399	*			As stored in volume F4-DSCB
400	*	+---+	-----+	-----+
401	*	30	SYSTRKSCYL	Tracks per Cylinder for SYSUNIT
402	*			As stored in volume F4-DSCB
403	*	+---+	-----+	-----+
404	*	31	SYSJCREATE	Creation Date format YYJJJ
405	*			YY-year, JJJ-julian date
406	*			as stored by MVS3.8J
407	*	+---+	-----+	-----+
408	*	32	SYSJEXDATE	Expiration Date format YYJJJ
409	*			YY-year, JJJ-julian date
410	*			as stored by MVS3.8J
411	*	+---+	-----+	-----+
412	*	33	SYSJREFDATE	Last Referenced Date format YYJJJ
413	*			YY-year, JJJ-julian date
414	*			as stored by MVS3.8J
415	*			Referenced date will be updated when DIR
416	*			option is used on a PDS request.
417	*	+---+	-----+	-----+

	419	*	Table 3 - CLIST Variables (continued)			
	420	*				
	421	*	+--+-----+-----+			
	422	*	S#	CLIST VARIABLE	CONTENT	
	423	*	+--+-----+-----+			
	424	*	34	SYSSTRKLEN	Track Length for SYSUNIT	
	425	*			As stored in volume F4-DSCB	
	426	*	+--+-----+-----+			
	427	*	35	SYSUNITCAP	Capacity for SYSUNIT	
	428	*			Computed as -	
	429	*			SYSCYLVOL * SYSTRKSCYL * SYSTRKLEN	
	430	*	+--+-----+-----+			
	431	*	36	SYSBLKSTRK	Blocks per Track for SYSUNIT	
	432	*			Computed as -	
	433	*			SYSTRKLEN / SYSBLKSIZE	
	434	*	+--+-----+-----+			
	435	*	37	SYSCCREATE	Creation Date format CCYY/MM/DD	LB1001b
	436	*			MM-month, DD-day, CCYY-century year	
	437	*			Note: See DF parm to vary date layout	LB1001b
	438	*	+--+-----+-----+			
	439	*	38	SYSCEXDATE	Expiration Date format CCYY/MM/DD	LB1001b
	440	*			MM-month, DD-day, CCYY-century year	
	441	*			Note: See DF parm to vary date layout	LB1001b
	442	*	+--+-----+-----+			
	443	*	39	SYSREFDATE	Last Reference Date format CCYY/MM/DD	LB1001b
	444	*			MM-month, DD-day, CCYY-century year	
	445	*			Note: See DF parm to vary date layout	LB1001b
	446	*			Referenced date will be updated with DIR	
	447	*			option is used on a PDS request.	
	448	*	+--+-----+-----+			
	449	*	40	SYSNUMVOLS	Number of volumes for dataset	
	450	*			As stored in catalog	
	451	*	+--+-----+-----+			
	452	*	41	SYSDESCAT	Dataset catalog indication (Y/N)	
	453	*			Y Dataset is cataloged	
	454	*			N Dataset is not cataloged	
	455	*	+--+-----+-----+			

457	*	Table 3 - CLIST Variables (continued)		
458	*			
459	*	+--+-----+	-----+	
460	*	S#	CLIST VARIABLE	CONTENT
461	*	+--+-----+	-----+	
462	*	42	SYSDSCATV	Dataset cataloged volume serial ID
463	*			Volume serial of dataset name found
464	*			on catalog
465	*	+--+-----+	-----+	
466	*	43	SYSPRIMARY	Primary Allocation in Space units.
467	*	+--+-----+	-----+	
468	*	44	SYSUSED	Allocation used, in Space units.
469	*	+--+-----+	-----+	
470	*	45	SYSVOLUMES	List of volume serial numbers for
471	*			single and multiple volume datasets.
472	*			Limited to 5 volumes.
473	*	+--+-----+	-----+	
474	*			

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 17.21 05/18/19

476 * Table 4 - REASON CODES Table

477 *

478 *

479 *

480 *

481 *

482 *

483 *

484 *

485 *

486 *

487 *

488 *

489 *

490 *

491 *

492 *

493 *

494 *

495 *

496 *

497 *

498 *

499 *

500 *

501 *

502 *

503 *

504 *

505 *

506 *

507 *

508 *

509 *

510 *

511 *

512 *

513 *

514 *

515 *

516 *

517 *

518 *

519 *

520 *

521 *

522 *

523 *

524 *

525 *

Table 4 - REASON CODES Table

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

REASON
CODE

DESCRIPTION

00

Normal completion

02

Dynamic allocation processing error

'RC=xxx Allocate PDS error'

'RC=xxx Free PDS error'

05

Dataset not cataloged

'RC=xxx DSCB-Fx CAMLST NAME error'

06

Error obtaining dataset, volumes=0

13

Dataset could not be opened or closed

'RC=xxx Open PDS error'

'RC=xxx Close PDS error'

19

Dataset resides on multiple volumes

21

Catalogue error when locating dataset

22

Volume not mounted

'RC=xxx DSCB-Fx CAMLST NAME error'

'RC=xxx DSCB-Fx CAMLST SEARCH error'

'RC=xxx DSCB-Fx CAMLST SEEK error'

23

Permanent I/O error on volume

'RC=xxx DSCB-Fx CAMLST NAME error'

'RC=xxx DSCB-Fx CAMLST SEARCH error'

'RC=xxx DSCB-Fx CAMLST SEEK error'

24

Dataset not found

'RC=xxx DSCB-Fx CAMLST NAME error'

'RC=xxx DSCB-Fx CAMLST SEARCH error'

'RC=xxx DSCB-Fx CAMLST SEEK error'

26

Dataset on MSS (Mass Storage) device

29

Dataset name must be specified

99

ABOUT request, no DSN info retrieved

Note: Additional information may be included for selected Reason
Codes in variable SYSLISTDSJMSG show in quotes above

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 17.21 05/18/19

527 * Macros and SYSLIB Location:

528 * =====

529 *

530 *	Macro	Description	Library
-------	-------	-------------	---------

531 * -----

532 *	YREGS	Register Equates	SYS2.MACLIB
-------	-------	------------------	-------------

533 *	IHAPSA	Prefixed Save Area	SYS1.AMODGEN
-------	--------	--------------------	--------------

534 *	CVT	Communication Vector Table	SYS1.AMODGEN
-------	-----	----------------------------	--------------

535 *	IHAASCB	Address Space Control Block	SYS1.AMODGEN
-------	---------	-----------------------------	--------------

536 *	IEFUCBOB	Unit Control Block	SYS1.AMODGEN
-------	----------	--------------------	--------------

537 *	IKJCPPL	CP Parm List	SYS1.MACLIB
-------	---------	--------------	-------------

538 *	IKJPPL	Parse Parm List	SYS1.MACLIB
-------	--------	-----------------	-------------

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

540 *	IKJDAPL	Dynamic Allocation Parm List	SYS1.MACLIB
-------	---------	------------------------------	-------------

541 *	IKJDAP08	Operation block ALLOC Dataset	SYS1.MACLIB
-------	----------	-------------------------------	-------------

542 *	IKJDAP18	Operation block FREE Dataset	SYS1.MACLIB
-------	----------	------------------------------	-------------

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

544 *

545 *

546 * References:

547 * =====

548 *

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

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

551 *

552 *

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

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

				555 *	=====	
--	--	--	--	-------	-------	--

				556 *		
--	--	--	--	-------	--	--

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

				558 *	-----	
--	--	--	--	-------	-------	--

				559 *	05/17/2019 1.0.01 Larry Belmontes Jr.	LB1001a
--	--	--	--	-------	--	---------

				560 *	- Add DS (Date Separator) keyword to support	LB1001a
--	--	--	--	-------	--	---------

				561 *	dash, period, and slash date separators	LB1001a
--	--	--	--	-------	---	---------

				562 *	- Add DF (Date Format layout) keyword to support	LB1001b
--	--	--	--	-------	--	---------

				563 *	the following layouts:	LB1001b
--	--	--	--	-------	------------------------	---------

				564 *	MM_DD_CCYY	LB1001b
--	--	--	--	-------	------------	---------

				565 *	DD_MM_CCYY	LB1001b
--	--	--	--	-------	------------	---------

				566 *	CCYY_MM_DD	LB1001b
--	--	--	--	-------	------------	---------

				567 *	CCYY_DD_MM	LB1001b
--	--	--	--	-------	------------	---------

				568 *		LB1001a
--	--	--	--	-------	--	---------

				569 *	04/29/2019 1.0.00 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

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

				571 *	hobbyist public domain	
--	--	--	--	-------	------------------------	--

				572 *		
--	--	--	--	-------	--	--

				573 *	04/28/2019 0.5.10 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

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

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

				576 *	- KDIR EQU *	
--	--	--	--	-------	------------------------	--

				577 *	- KPNL EQU *	
--	--	--	--	-------	------------------------	--

				578 *	- KABOUT EQU *	
--	--	--	--	-------	-----------------------	--

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

				580 *	04/26/2019 0.5.00 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

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

				582 *	- Add ABOUT parm processing	
--	--	--	--	-------	-----------------------------	--

				583 *	- Enhance space used routine	
--	--	--	--	-------	------------------------------	--

				584 *	- SPCUSED EQU *	
--	--	--	--	-------	-----------------------	--

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

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

				587 *	- VVOLLST DC C'SYSVOLUMES'	
--	--	--	--	-------	------------------------------------	--

				588 *		
--	--	--	--	-------	--	--

				589 *	02/21/2019 0.4.00 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

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

				591 *	- Add PNL parm processing	
--	--	--	--	-------	---------------------------	--

				592 *	- Enhance DSORG table processing	
--	--	--	--	-------	----------------------------------	--

				593 *	- Support primary allocations	
--	--	--	--	-------	-------------------------------	--

				594 *	- VPSPCAL DC C'SYSPRIMARY'	
--	--	--	--	-------	------------------------------------	--

				595 *	- VPSPCUS DC C'SYSUSED'	
--	--	--	--	-------	---------------------------------	--

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

				597 *	using a message prefix	
--	--	--	--	-------	------------------------	--

				598 *	- 'LISTDSJ nnnn - error...'	
--	--	--	--	-------	--------------------------------	--

				599 *		
--	--	--	--	-------	--	--

				600 *	01/08/2019 0.3.00 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

				601 *	- Enhance device table search	
--	--	--	--	-------	-------------------------------	--

				602 *	- Enhance symbolic variable processing	
--	--	--	--	-------	--	--

				603 *		
--	--	--	--	-------	--	--

				604 *	01/26/2019 0.3.10 Larry Belmontes Jr.	
--	--	--	--	-------	--	--

				605 *	- Add error processing	
--	--	--	--	-------	------------------------	--

				606 *	- ERR97	
--	--	--	--	-------	---------	--

				607 *	- ERR99	
--	--	--	--	-------	---------	--

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

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

				609 *	- Y2KWIN DC F'70'	
--	--	--	--	-------	-------------------	--

				610 *		
--	--	--	--	-------	--	--

				611 *	12/22/2018 0.2.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

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

				613 *	- Add DIR parm processing	
--	--	--	--	-------	---------------------------	--

				614 *	- Support catalog variables	
--	--	--	--	-------	-----------------------------	--

				615 *	- VDSCAT DC C'SYSDSCAT'	
--	--	--	--	-------	-------------------------	--

				616 *	- VDSCATV DC C'SYSDSCATV'	
--	--	--	--	-------	---------------------------	--

				617 *	- VNUMVOL DC C'SYSNUMVOLS'	
--	--	--	--	-------	----------------------------	--

				618 *	- catalog / not cataloged	
--	--	--	--	-------	---------------------------	--

				619 *	- single volume / multi volume	
--	--	--	--	-------	--------------------------------	--

				620 *	- Support reason code processing	
--	--	--	--	-------	----------------------------------	--

				621 *	- VRSCODE DC C'SYSREASON'	
--	--	--	--	-------	---------------------------	--

				622 *	- VMSGL1 DC C'SYSMSGLVL1'	
--	--	--	--	-------	---------------------------	--

				623 *	- VMSGL2 DC C'SYSMSGLVL2'	
--	--	--	--	-------	---------------------------	--

				624 *	- Support DSCB F-1 dataset attributes	
--	--	--	--	-------	---------------------------------------	--

				625 *	- VKEYP DC C'SYSKEYPOS'	
--	--	--	--	-------	-------------------------	--

				626 *	- Support additional file date format CLIST	
				627 *	variables	

				628 *	- VCREDITJ DC C'SYSJCREATE'	
--	--	--	--	-------	-----------------------------	--

				629 *	- VEXPDTJ DC C'SYSJEXDATE'	
--	--	--	--	-------	----------------------------	--

				630 *	- VREFDTJ DC C'SYSJREFDATE'	
--	--	--	--	-------	-----------------------------	--

				631 *	- VCREDITC DC C'SYSCCREATE'	
--	--	--	--	-------	-----------------------------	--

				632 *	- VEXPDTC DC C'SYSCEXDATE'	
--	--	--	--	-------	----------------------------	--

				633 *	- VREFDTC DC C'SYSCREFDATE'	
--	--	--	--	-------	-----------------------------	--

				634 *	- Check for presence of DSCB F-2 ISAM	
				635 *	vtoc record	

				636 *	- Support DSCB F-3 dataset extents	
--	--	--	--	-------	------------------------------------	--

				637 *	- Support DSCB F-4 volume device	
				638 *	characteristics	

				639 *	- VCCVOL DC C'SYSCYLVOL'	
--	--	--	--	-------	--------------------------	--

				640 *	- VTTCC DC C'SYSTRKSCYL'	
--	--	--	--	-------	--------------------------	--

				641 *	- VTRKLEN DC C'SYSTRKLEN'	
--	--	--	--	-------	---------------------------	--

				642 *	- VBLKTRK DC C'SYSBLKSTRK'	
--	--	--	--	-------	----------------------------	--

				643 *	- VUNITCAP DC C'SYSUNITCAP'	
--	--	--	--	-------	-----------------------------	--

				644 *	- Compute total space allocation in tracks	
				645 *	and cylinders by summarizing extent info	
				646 *	in F-1 and F-3 DSCBs	

				647 *	- VTKAL DC C'SYSTRKSALLOC'	
--	--	--	--	-------	----------------------------	--

				648 *	- VTKUS DC C'SYSTRKSUSED'	
--	--	--	--	-------	---------------------------	--

				649 *	- VTKUUS DC C'SYSTRKSUNUSED'	
--	--	--	--	-------	------------------------------	--

				650 *	- Enhance message communication via new CLIST	
				651 *	variable	

				652 *	- VJMSG DC C'SYSLISTDSJMSG'	
--	--	--	--	-------	-----------------------------	--

				653 *	- Add DAIR processing for PDS Directory	
--	--	--	--	-------	---	--

				654 *	- Support PDS directory information	
--	--	--	--	-------	-------------------------------------	--

				655 *	- VMEMS DC C'SYSMEMBERS'	
--	--	--	--	-------	--------------------------	--

				656 *	- VALIAS DC C'SYSMEMBERSALIAS'	
--	--	--	--	-------	--------------------------------	--

				657 *	- VDIRBKSU DC C'SYSUDIRBLK'	
--	--	--	--	-------	-----------------------------	--

				658 *	- VDIRBKSN DC C'SYSNUDIRBLK'	
--	--	--	--	-------	------------------------------	--

				659 *	- VDIRBKSA DC C'SYSADIRBLK'	
--	--	--	--	-------	-----------------------------	--

				660 *		
--	--	--	--	-------	--	--

				661 *	11/25/2018 0.1.00 Larry Belmontes Jr.	
--	--	--	--	-------	---------------------------------------	--

				662 *	- Support parms: DSN	
--	--	--	--	-------	----------------------	--

				663 *	- Add DSN parm processing	
--	--	--	--	-------	---------------------------	--

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	--------	------	-------	-------	------	------------------	-------------------------

					664 *	- Support basic catalog checks for DSN:	
					665 *	- catalog / not cataloged	
					666 *	- single volume / multi volume	
					667 *	- Support reason code processing	
					668 *	- VRSCODE DC C'SYSREASON'	
					669 *	- VMSGL1 DC C'SYSMSGVLVL1'	
					670 *	- VMSGL2 DC C'SYSMSGVLVL2'	
					671 *	- Support DSCB F-1 dataset attributes	
					672 *	- VVOL DC C'SYSVOLUME'	
					673 *	- VLRECL DC C'SYSLRECL'	
					674 *	- VBLKSZ DC C'SYSBLKSIZE'	
					675 *	- VKEYL DC C'SYSKEYLEN'	
					676 *	- VDSORG DC C'SYSDSORG'	
					677 *	- VRECFM DC C'SYSRECFM'	
					678 *	- VCREDIT DC C'SYSCREATE'	
					679 *	- VEXPDT DC C'SYSEXDATE'	
					680 *	- VREFDT DC C'SYSREFDATE'	
					681 *	- VPASSWD DC C'SYSPASSWORD'	
					682 *	- VRACF DC C'SYSRACFA'	
					683 *	- VSSPC DC C'SYSUNITS'	
					684 *	- VSSPCNM DC C'SYSSECONDS'	
					685 *	- VUNIT DC C'SYSUNIT'	
					686 *	- VEXTS DC C'SYSEXTENTS'	
					687 *		
					688 *	11/18/2018 0.0.00 Larry Belmontes Jr.	
					689 *	- Simple prototype	
					690 *	- Return code processing via R15 (&LASTCC TSO)	
					691 *	- Support parms: DSN	
					692 *	- Echo parm to clist variable	
					693 *	- VDSN DC C'SYSDSNAME'	
					694 *		
					695 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	--------	------	-------	-------	------	------------------	-------------------------

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

					698 *	=====	
--	--	--	--	--	-------	-------	--

					699 *		
--	--	--	--	--	-------	--	--

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

					701 *	Functionality may be limited-	
--	--	--	--	--	-------	-------------------------------	--

					702 *	Allocated filename must be SHR	
--	--	--	--	--	-------	--------------------------------	--

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

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

					705 *	for MVS 380	
--	--	--	--	--	-------	-------------	--

					706 *		
--	--	--	--	--	-------	--	--

					707 *		
--	--	--	--	--	-------	--	--

					708 *		
--	--	--	--	--	-------	--	--

					709 *		
--	--	--	--	--	-------	--	--

					710 *		
--	--	--	--	--	-------	--	--

					711 *		
--	--	--	--	--	-------	--	--

					712 *		
--	--	--	--	--	-------	--	--

					713 *		
--	--	--	--	--	-------	--	--

					714 *		
--	--	--	--	--	-------	--	--

					715 *		
--	--	--	--	--	-------	--	--

					716 *		
--	--	--	--	--	-------	--	--

					717 *	* * * * *	
--	--	--	--	--	-------	-----------	--

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000000					719	LISTDSJ	CSECT	
				00000	720		USING LISTDSJ,R10,R11,R12 my BASE REGISTER(S)	
					721		PRINT NOGEN	
					722	*	*	
					723	*	/* *****	
					724	*	/* Save regs and declare base registers R10,R11,R12	*/
					725	*	/* including saving R1 (PARMS) in R2	*/
					726	*	/* - R1 myPARMS address on entry	*/
					727	*	/* - R15 myENTRY address on entry	*/
					728	*	/* *****	*/
000000	90EC	D00C	0000C		729	STM	R14,R12,12(R13)	Save calling program registers
000004	18AF				730	LR	R10,R15	Load base1 w R15
000006	41BA	0FFF	00FFF		731	LA	R11,4095(R10)	Load base2 (R11) w/ offset
00000A	41BB	0001	00001		732	LA	R11,1(R11)	Adjust base2
00000E	41CB	0FFF	00FFF		733	LA	R12,4095(R11)	Load base3 (R12) w/ offset
000012	41CC	0001	00001		734	LA	R12,1(R12)	Adjust base3
000016	18FD				735	LR	R15,R13	Save callers registers
000018	1821				736	LR	R2,R1	Save PARM addr
					737	*	*	
					738	*	/* *****	*/
					739	*	/* Program Eyecatcher	*/
					740	*	/* *****	*/
00001A	47F0	A052	00052		741	B	OVRSTAMP	Branch past eye-catcher
				0001E	742	MYSTAMP	EQU *	
00001E	D3C9E2E3C4E2D140				743	PGMID	DC CL8'LISTDSJ '	My Program STAMP
000026	D4E5E2F34BF8D140				744		DC CL8'MVS3.8J '	OS
00002E	E5F14BF04BF0F140				745		DC CL8'V1.0.01 '	.Version
000036	F0F5F1F8F2F0F1F9				746		DC CL8'05182019'	..date MMDDCCYY
00003E	40				747		DC CL1' '	
					748	PGMDS	DC CL8'&SYSDATE'	Assemble Date
000047	406040				750		DC CL3' - '	.and
					751	PGMTS	DC CL8'&SYSTIME'	..Time
			00034		753	MYSTAMPL	EQU *-MYSTAMP	
000052					754	OVRSTAMP	DS 0H	
					755	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					757	*	*/*****	*/
					758	*	/* GETMAIN, working storage, using R9	*/
					759	*	/* - R0 Working register	*/
					760	*	/* - R1 Working register (GETMAIN address)	*/
					761	*	/* - R9 Working Storage DSECT address	*/
					762	*	*/*****	*/
000052	4100	0864	00864		763		LA R0,WSAREAL	R0 = size of Workarea DSECT
					764		GETMAIN R, LV=(R0)	Get Storage, R1 = addr of storage
00005E	1891				768		LR R9,R1	R9 = Workarea DSECT Register
			00000		769		USING WSDSECT,R9	Tell Assembler
					770	*	*/*****	*/
					771	*	/* Update Save Areas for caller and calling programs	*/
					772	*	/* - R1 myPARMS address on entry (restored)	*/
					773	*	*/*****	*/
					774	*	*/*****	*/
000060	18FD				775		LR R15,R13	Save callers savearea addr
000062	41D0	9000	00000		776		LA R13,SAVEAREA	Load Addr of my savearea
000066	50F0	D004	00004		777		ST R15,4(,R13)	Chain callers to my savearea
00006A	50D0	F008	00008		778		ST R13,8(,R15)	Chain my savearea to callers
00006E	1812				779		LR R1,R2	Restore R1 as PARM addr
					780	*	*/*****	*/
					781	*	/* Initialize IKJCT441 Parm List area	*/
					782	*	/* - R0 Working Register	*/
					783	*	*/*****	*/
					784	*	*/*****	*/
000070	4100	B788	01788		785		LA R0,ECUPDT	Entry Code
000074	5000	9048	00048		786		ST R0,CT441P1	
000078	4100	9060	00060		787		LA R0,NAMP1	Name Pointer
00007C	5000	904C	0004C		788		ST R0,CT441P2	
000080	4100	9064	00064		789		LA R0,NAML1	Name Length
000084	5000	9050	00050		790		ST R0,CT441P3	
000088	4100	9068	00068		791		LA R0,VALP1	Var Pointer
00008C	5000	9054	00054		792		ST R0,CT441P4	
000090	4100	906C	0006C		793		LA R0,VALL1	Var Length
000094	5000	9058	00058		794		ST R0,CT441P5	
000098	4100	B78C	0178C		795		LA R0,TOKEN	Token
00009C	5000	905C	0005C		796		ST R0,CT441P6	
0000A0	9280	905C	0005C		797		MVI CT441P6,B'10000000'	Last Parm designation
					798	*	*/*****	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					800 *	/* *****/	
					801 *	/* Check if we are running under TS0	*/
					802 *	/* - R0 Working Register	*/
					803 *	/* -JMSG'LISTDSJ 4099 -Must run under TS0'	*/
					804 *	/* *****/	
					805 *	PSA is at address 0	
0000A4	5800	0220	00220		806	L R0,PSAANEW-PSA(0)	R0=ASCB Address
0000A8	5800	003C	0003C		807	L R0,ASCBTSB-ASCB(R0)	R0=ASCBTSB Address
0000AC	1200				808	LTR R0,R0	If 0, program not under TS0
0000AE	4780	B22C	0122C		809	BZ ERR4099	..error, not under TS0!
					810 *	/* *****/	
					811 *	/* *****/	
					812 *	/* Initialize CLIST Symbol data area	*/
					813 *	/* - R3, R4 Working Register	*/
					814 *	/* *****/	
0000B2	4130	9070	00070		815	LA R3,DSYMS	Addr of symbolic data area
0000B6	4140	01F5	001F5		816	LA R4,DSYMSL	Len of symbolic data area
			000BA		817	INITSYMA EQU *	
0000BA	926F	3000	00000		818	MVI 0(R3),C'?'	Populate with '?'
0000BE	4133	0001	00001		819	LA R3,1(R3)	Bump to next byte
0000C2	4640	A0BA	000BA		820	BCT R4,INITSYMA	
					821 *	/* *****/	
					822 *	/* *****/	
					823 *	/* Initialize RC and Reason Code	*/
					824 *	/* *****/	
0000C6	D201	92CA B6F4	002CA 016F4		825	MVC RC,=C'00'	Zero Return Code
0000CC	D203	929C B6A0	0029C 016A0		826	MVC RCEXIT,=F'0'	Zero Return Code R15
					827 *	/* #Data source: 02 SYSREASON set throughout program	*/
0000D2	D201	9100 B6F4	00100 016F4		828	MVC DRSNCODE,=C'00'	Zero Reason Code
					829 *	/* *****/	
					830 *	/* *****/	
					831 *	/* Initialize - OTHER	*/
					832 *	/* *****/	
0000D8	D703	963C 963C	0063C 0063C		833	XC MYECB,MYECB	
					834 *	/* #Data source: 01 SYSLISTDSJMSG set throughout program	*/
0000DE	9240	909C	0009C		835	MVI DJMSG,C' '	
0000E2	D262	909D 909C	0009D 0009C		836	MVC DJMSG+1(L'DJMSG-1),DJMSG	
					837 *	/* *****/	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					839	*	/* ***** */	
					840	*	/* Get PARAMETER information passed to program */	
					841	*	/* - R1 myPARMS address on entry */	
					842	*	/* - R4 Starting parms address */	
					843	*	/* - R6 Parm Length */	
					844	*	/* - R3, R4, R5 Working Register */	
					845	*	/* -ReasonCode 29 Dataset name must be specified */	
					846	*	/* -JMSG'LISTDSJ 4004 -PARM Not supplied' */	
					847	*	/* -JMSG'LISTDSJ 4005 -PARM Not supplied' */	
					848	*	/* -JMSG'LISTDSJ 4008 -CPPL No variables' */	
					849	*	/* -JMSG'LISTDSJ 4009 -CPPL No variables' */	
					850	*	/* -JMSG'LISTDSJ 4010 -CPPL No variables' */	
					851	*	/* ***** */	
			000E8		852	PARMS	EQU *	We have a parm...
0000E8	1211				853		LTR R1,R1	Do I have a PARM?
0000EA	4780	B124	01124		854		BZ ERR4005	NO, EXIT with RC = 4005
0000EE	1831				855		LR R3,R1	YES, R3=PARM/CPPL addr
0000F0	9180	3000	00000		856		TM 0(R3),X'80'	Is it PARM or CPPL addr?
0000F4	4780	A10E	0010E		857		BZ CPPLIN	YES, CPPL addr
				000F8	858	PARMIN	EQU *	NO, must be PARM addr
0000F8	5840	3000	00000		859		L R4,0(,R3)	R4=Addr of PARM
0000FC	4860	4000	00000		860		LH R6,0(,R4)	R6=Length of PARM
000100	1266				861		LTR R6,R6	PARM > 0 length?
000102	4780	B0F6	010F6		862		BZ ERR4004	NO, EXIT with RC = 4004
000106	4140	4002	00002		863		LA R4,2(,R4)	YES, R4=point to start of PARM data
00010A	47F0	A136	00136		864		B PARMSXT	and continue...
				0010E	865	CPPLIN	EQU *	
00010E	5030	9638	00638		866		ST R3,MYCPPLP	Store CPPL Address
000112	5840	3000	00000		867		L R4,0(,R3)	R4=Command Buffer addr
000116	4850	4002	00002		868		LH R5,2(,R4)	R5=Offset to Command Variables
00011A	1255				869		LTR R5,R5	Any Variables?
00011C	4780	B150	01150		870		BZ ERR4008	NO, EXIT with RC = 4008
000120	4860	4000	00000		871		LH R6,0(,R4)	YES, R6=Length of Command Buffer
000124	1B65				872		SR R6,R5	Subtract variable offset
000126	4B60	B6F6	016F6		873		SH R6,=H'4'	Subtract prefix
00012A	4780	B17C	0117C		874		BE ERR4009	EXIT with RC = 4009 IF NO VARIABLES
00012E	4740	B1A8	011A8		875		BM ERR4010	EXIT with RC = 4010 IF NO VARIABLES
000132	4144	5004	00004		876		LA R4,4(R4,R5)	R4=Point to variables start addr
					877	*		
			00136		878	PARMSXT	EQU *	We have a parm...
					879	*		
					880	*	/* ***** */	
					881	*	/* Uppercase translation of PARMIN */	
					882	*	/* - R4 Starting parms address */	
					883	*	/* - R6 Parm Length */	
					884	*	/* - R8, R4, R5 Working Register */	
					885	*	/* ***** */	
				00136	886	CAP#EM	EQU *	
000136	1886				887		LR R8,R6	R8=Parm Length
000138	0680				888		BCTR R8,0	Adjust length for OC
00013A	4480	A142	00142		889		EX R8,UPPERC	Execute Uppercase translation
00013E	47F0	A148	00148		890		B UPPERCX	
000142	D600	4000	B588	00000	891	UPPERC	OC 0(0,R4),=256X'40'	EBCDIC Lower-Upper Case Translate
				00148	892	UPPERCX	EQU *	
					893	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	17.21	05/18/19
					895	*	/* ***** */				
					896	*	/* Scan parm list */				
					897	*	/* ***** */				
			00148		898	PARMSCAN	EQU *				
					899	*					
					900	*	/*-----*/				
					901	*	/* Initialize parm switches / variables */				
					902	*	/* - R7, R8 Working Register */				
					903	*	/*-----*/				
000148	9240	92D6	002D6		904		MVI PDSN,C' ' Clear DSN				
00014C	D22A	92D7	92D6	002D7	002D6	905		MVC PDSN+1(L'PDSN-1),PDSN			
000152	92D5	9309	00309		906		MVI PDIR,C'N'	DIR request - init to NO			
000156	92D5	930A	0030A		907		MVI PPNL,C'N'	PNL request - init to NO			
00015A	92D5	930B	0030B		908		MVI PABOUT,C'N'	ABOUT request - init to NO			
00015E	92D5	9308	00308		909		MVI PVOL,C'N'	VOLUME specified - init to NO			
000162	9261	927A	0027A		910		MVI DATESEP,C'/'	Date Separator default value			LB1001a
000166	92F3	927B	0027B		911		MVI DATEFMT,C'3'	Date Format default value			LB1001b
00016A	4170	92D6	002D6		912		LA R7,PDSN	R7=Start of PDSN area			
00016E	4180	0000	00000		913		LA R8,0	R8=PDSN actual length			
000172	4080	92D4	002D4		914		STH R8,PDSNL	Store length of PDSN			
					915	*					
					916	*	/*-----*/				
					917	*	/* Get DATASET NAME as 1st required parm */				
					918	*	/* - R4 Starting parms address */				
					919	*	/* - R6 Parm Length */				
					920	*	/*-----*/				
			00176		921	PRMDSN	EQU *				
000176	9540	4000	00000		922		CLI 0(R4),C' ' Delimiter?				
00017A	4780	A19C	0019C		923		BE NEXTPRM	YES, next parm			
00017E	D200	7000	4000	00000	00000	924		MVC 0(1,R7),0(R4)	NO, continue with dataset name		
000184	4144	0001	00001		925		LA R4,1(R4)	Bump up position PARMIN			
000188	4177	0001	00001		926		LA R7,1(R7)	Bump up position PDSN			
00018C	4188	0001	00001		927		LA R8,1(R8)	Bump up length of PDSN			
000190	4080	92D4	002D4		928		STH R8,PDSNL	Store length of PDSN			
000194	4660	A176	00176		929		BCT R6,PRMDSN	Check again...			
000198	47F0	A32C	0032C		930		B PARMDONE	Done...			
					931	*					LB1001a

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					933	*	/*-----*/	
					934	*	/* Get other optional parms	
					935	*	/* - R4 Starting parms address	
					936	*	/*-----*/	
				0019C	937	NEXTPRM	EQU *	
00019C	4144	0001	00001		938		LA R4,1(R4) Bump up position PARMIN	
				001A0	939	NEXT01	EQU *	
0001A0	D502	B766	4000	01766	00000	940	CLC KWDIR,0(R4) Keyword 'DIR'?	
0001A6	4780	A1E4		001E4		941	BE KDIR YES, process	
0001AA	D502	B769	4000	01769	00000	942	CLC KWPNL,0(R4) Keyword 'PNL'?	
0001B0	4780	A1FA		001FA		943	BE KPNL YES, process	
0001B4	D504	B76C	4000	0176C	00000	944	CLC KWABOUT,0(R4) Keyword 'ABOUT'?	
0001BA	4780	A210		00210		945	BE KABOUT YES, process	
0001BE	D503	B771	4000	01771	00000	946	CLC KWVOL,0(R4) Keyword 'VOL('?	
0001C4	4780	A268		00268		947	BE PARMVOL YES, process	
0001C8	D502	B775	4000	01775	00000	948	CLC KWDS,0(R4) Keyword 'DS('?	LB1001a
0001CE	4780	A2C6		002C6		949	BE PARMDS YES, process	LB1001a
0001D2	D502	B778	4000	01778	00000	950	CLC KWDF,0(R4) Keyword 'DF('?	LB1001b
0001D8	4780	A306		00306		951	BE PARMDF YES, process	LB1001b
0001DC	4660	A19C		0019C		952	BCT R6,NEXTPRM Check again...	
0001E0	47F0	A32C		0032C		953	B PARMDONE Done	
					954	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					956	*	/*-----*/	*/
					957	*	/* DIR keyword delimiter check	*/
					958	*	/* - R0 Working register	*/
					959	*	/* - R6 Parm Length	*/
					960	*	/*-----*/	*/
				001E4	961	KDIR	EQU *	
0001E4	4100	0003	00003		962		LA R0,(L'KWDIR)	
0001E8	1960				963		CR R6,R0	End of PARMS?
0001EA	4780	A226	00226		964		BE PARMDIR	YES, flag it DIR
0001EE	9540	4003	00003		965		CLI L'KWDIR(R4),C' '	Blank follow keyword?
0001F2	4780	A226	00226		966		BE PARMDIR	YES, flag it DIR
0001F6	47F0	A19C	0019C		967		B NEXTPRM	NO, continue checking...
					968	*	/*-----*/	*/
					969	*	/* PNL keyword delimiter check	*/
					970	*	/* - R0 Working register	*/
					971	*	/* - R6 Parm Length	*/
					972	*	/*-----*/	*/
				001FA	973	KPNL	EQU *	
0001FA	4100	0003	00003		974		LA R0,(L'KWPNL)	
0001FE	1960				975		CR R6,R0	End of PARMS?
000200	4780	A236	00236		976		BE PARMPNL	YES, flag it PNL
000204	9540	4003	00003		977		CLI L'KWPNL(R4),C' '	Blank follow keyword?
000208	4780	A236	00236		978		BE PARMPNL	YES, flag it PNL
00020C	47F0	A19C	0019C		979		B NEXTPRM	NO, continue checking...
					980	*	/*-----*/	*/
					981	*	/* ABOUT keyword delimiter check	*/
					982	*	/* - R0 Working register	*/
					983	*	/* - R6 Parm Length	*/
					984	*	/*-----*/	*/
				00210	985	KABOUT	EQU *	
000210	4100	0005	00005		986		LA R0,(L'KWABOUT)	
000214	1960				987		CR R6,R0	End of PARMS?
000216	4780	A246	00246		988		BE PARMABOT	YES, flag it ABOUT
00021A	9540	4005	00005		989		CLI L'KWABOUT(R4),C' '	Blank follow keyword?
00021E	4780	A246	00246		990		BE PARMABOT	YES, flag it ABOUT
000222	47F0	A19C	0019C		991		B NEXTPRM	NO, continue checking...
					992	*	/*-----*/	*/
					993	*	/*-----*/	*/
					994	*	/*-----*/	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					996	*	/*-----*/	*/
					997	*	/* DIR keyword set	*/
					998	*	/* - R4 Starting parms address	*/
					999	*	/* - R0 Keyword Length	*/
					1000	*	/*-----*/	*/
				00226	1001	PARMDIR	EQU *	
000226	92E8	9309	00309		1002		MVI PDIR,C'Y'	Mark DIR action ON
00022A	4144	0003	00003		1003		LA R4,L'KWDIR(R4)	Bump up position PARMIN
00022E	4100	0003	00003		1004		LA R0,(L'KWDIR)	
000232	47F0	A256	00256		1005		B PARM@DEC	Decrement...
					1006	*	/*-----*/	*/
					1007	*	/* PNL keyword set	*/
					1008	*	/* - R4 Starting parms address	*/
					1009	*	/* - R0 Keyword Length	*/
					1010	*	/*-----*/	*/
					1011	*	/*-----*/	*/
				00236	1012	PARMPNL	EQU *	
000236	92E8	930A	0030A		1013		MVI PPNL,C'Y'	Mark PNL action ON
00023A	4144	0003	00003		1014		LA R4,L'KWPNL(R4)	Bump up position PARMIN
00023E	4100	0003	00003		1015		LA R0,(L'KWPNL)	
000242	47F0	A256	00256		1016		B PARM@DEC	Decrement...
					1017	*	/*-----*/	*/
					1018	*	/* ABOUT keyword set	*/
					1019	*	/* - R4 Starting parms address	*/
					1020	*	/* - R0 Keyword Length	*/
					1021	*	/*-----*/	*/
					1022	*	/*-----*/	*/
				00246	1023	PARMABOT	EQU *	
000246	92E8	930B	0030B		1024		MVI PABOUT,C'Y'	Mark ABOUT action ON
00024A	4144	0005	00005		1025		LA R4,L'KWABOUT(R4)	Bump up position PARMIN
00024E	4100	0005	00005		1026		LA R0,(L'KWABOUT)	
000252	47F0	A256	00256		1027		B PARM@DEC	Decrement...
					1028	*	/*-----*/	*/
					1029	*	/* Decrement command buffer scanning position	*/
					1030	*	/* - R4 Starting parms address	*/
					1031	*	/* - R0 Keyword Length	*/
					1032	*	/* - R6 Parm Length	*/
					1033	*	/*-----*/	*/
					1034	*	/*-----*/	*/
				00256	1035	PARM@DEC	EQU *	
000256	1B60				1036		SR R6,R0	Decrement R6 accordingly
000258	4780	A32C	0032C		1037		BZ PARMDONE	Done when R6 is ZERO
00025C	4740	A32C	0032C		1038		BM PARMDONE	... or NEGATIVE
000260	4660	A19C	0019C		1039		BCT R6,NEXTPRM	Check again
000264	47F0	A32C	0032C		1040		B PARMDONE	Done
					1041	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1043	*	/*-----*/	
					1044	*	/* VOL keyword and subfield process	
					1045	*	/* - R4 Starting parms address	
					1046	*	/* - R0 Keyword Length	
					1047	*	/* - R6 Parm Length	
					1048	*	/* - R7, R8 Working register	
					1049	*	/*-----*/	
				00268	1050	PARMVOL	EQU *	
000268	92E8	9308	00308		1051	MVI	PVOL,C'Y'	Mark VOL specified action ON
00026C	4144	0004	00004		1052	LA	R4,L'KWVOL(R4)	Bump up position PARMIN
000270	4100	0004	00004		1053	LA	R0,(L'KWVOL) 1	
000274	1B60				1054	SR	R6,R0	Decrement R6 accordingly
000276	4780	A32C	0032C		1055	BZ	PARMDONE	Done when R6 is ZERO
00027A	4740	A32C	0032C		1056	BM	PARMDONE	... or NEGATIVE
				0027E	1057	LOADVOL	EQU *	
00027E	9240	930C	0030C		1058	MVI	OBTVOL,C' '	Clear VOL
000282	D204	930D	930C 0030D	0030C	1059	MVC	OBTVOL+1(L'OBTVOL-1),OBTVOL	
000288	4170	930C	0030C		1060	LA	R7,OBTVOL	Start of OBTVOL area
00028C	4180	0006	00006		1061	LA	R8,L'OBTVOL	Max limit for VOL
				00290	1062	VOL00	EQU *	
000290	9540	4000	00000		1063	CLI	0(R4),C' '	Delimiter?
000294	4780	A19C	0019C		1064	BE	NEXTPRM	YES, branch to NEXTPRM
000298	955D	4000	00000		1065	CLI	0(R4),C')'	Delimiter?
00029C	4780	A19C	0019C		1066	BE	NEXTPRM	YES, branch to NEXTPRM
0002A0	D200	7000	4000 00000	00000	1067	MVC	0(1,R7),0(R4)	NO, continue with volume
0002A6	4144	0001	00001		1068	LA	R4,1(R4)	Bump up position PARMIN
0002AA	4177	0001	00001		1069	LA	R7,1(R7)	Bump up position PDSN
0002AE	0680				1070	BCTR	R8,0	Decrement R8
0002B0	1288				1071	LTR	R8,R8	0? VOL max length used?
0002B2	4780	A2BE	002BE		1072	BZ	VOL00A	YES, branch to NEXTPRM via BCT
0002B6	4660	A290	00290		1073	BCT	R6,VOL00	Check again... next VOL character
0002BA	47F0	A32C	0032C		1074	B	PARMDONE	Done...
0002BE	4660	A19C	0019C		1075	VOL00A	BCT R6,NEXTPRM	Check again... next parm
0002C2	47F0	A32C	0032C		1076	B	PARMDONE	Done...
					1077	*		

LB1001a

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1079	*	/*-----*/	LB1001a
					1080	*	/* DS keyword delimiter check */	LB1001a
					1081	*	/* - R4 Starting parms address */	LB1001a
					1082	*	/*-----*/	LB1001a
				002C6	1083	PARMDS	EQU *	LB1001a
0002C6	4144	0003	00003		1084		LA R4,L'KWDS(R4) Bump up position PARMIN	LB1001a
				002CA	1085	LOADDS	EQU *	LB1001a
0002CA	95C4	4000	00000		1086		CLI 0(R4),C'D' Date Separator DASH?	LB1001a
0002CE	4780	A2EE	002EE		1087		BE LOADDSD YES, load DASH	LB1001a
0002D2	95E2	4000	00000		1088		CLI 0(R4),C'S' Date Separator SLASH?	LB1001a
0002D6	4780	A2E6	002E6		1089		BE LOADDSS YES, load SLASH	LB1001a
0002DA	95D7	4000	00000		1090		CLI 0(R4),C'P' Date Separator PERIOD?	LB1001a
0002DE	4780	A2F6	002F6		1091		BE LOADDSP YES, load PERIOD	LB1001a
0002E2	47F0	A2FE	002FE		1092		B LOADDSX Use Date Separator Default value	LB1001a
				002E6	1093	LOADDSS	EQU *	LB1001a
0002E6	9261	927A	0027A		1094		MVI DATESEP,C'/' SLASH...	LB1001a
0002EA	47F0	A2FE	002FE		1095		B LOADDSX	LB1001a
				002EE	1096	LOADDSD	EQU *	LB1001a
0002EE	9260	927A	0027A		1097		MVI DATESEP,C'-' DASH...	LB1001a
0002F2	47F0	A2FE	002FE		1098		B LOADDSX	LB1001a
				002F6	1099	LOADDSP	EQU *	LB1001a
0002F6	924B	927A	0027A		1100		MVI DATESEP,C'.' PERIOD...	LB1001a
0002FA	47F0	A2FE	002FE		1101		B LOADDSX	LB1001a
				002FE	1102	LOADDSX	EQU *	LB1001a
0002FE	4144	0001	00001		1103		LA R4,1(R4) Bump up position PARMIN	LB1001a
000302	47F0	A19C	0019C		1104		B NEXTPRM Go get NEXTPRM	LB1001a
					1105	*		LB1001b

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1107	*	/*-----*/	LB1001b
					1108	*	/* DF keyword delimiter check */	LB1001b
					1109	*	/* - R4 Starting parms address */	LB1001b
					1110	*	/*-----*/	LB1001b
				00306	1111	PARMDF	EQU *	LB1001b
000306	4144	0003	00003		1112		LA R4,L'KWDF(R4) Bump up position PARMIN	LB1001b
				0030A	1113	LOADDF	EQU *	LB1001b
00030A	95F1	4000	00000		1114		CLI 0(R4),C'1' Date Format < 1?	LB1001b
00030E	4740	A324	00324		1115		BL LOADDFX YES, use default	LB1001b
000312	95F4	4000	00000		1116		CLI 0(R4),C'4' Date Format > 4?	LB1001b
000316	4720	A324	00324		1117		BH LOADDFX YES, use default	LB1001b
					1118	*	B LOADDSX Use Date Separator Default value	LB1001b
				0031A	1119	LOADDFT	EQU *	LB1001b
00031A	D200	927B	4000	0027B	00000	1120	MVC DATEFMT,0(R4) Store date format from keyword	LB1001b
000320	47F0	A324	00324		1121		B LOADDFX	LB1001b
				00324	1122	LOADDFX	EQU *	LB1001b
000324	4144	0001	00001		1123		LA R4,1(R4) Bump up position PARMIN	LB1001b
000328	47F0	A19C	0019C		1124		B NEXTPRM Go get NEXTPRM	LB1001b
					1125	*		LB1001b

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1127	*	/*-----*/	
					1128	*	/* Parm processing complete	
					1129	*	/* -ReasonCode 29 Dataset name must be specified	
					1130	*	/*-----*/	
				0032C	1131	PARMDONE	EQU *	Done with SCAN
00032C	9540	92D6	002D6		1132		CLI PDSN,C' '	Have a DSN?
000330	4780	B258	01258		1133		BE RSN29	NO, error Reasoncode 29
000334	D22B	9312	92D6	00312	002D6	1134	MVC CAMDSN,PDSN	YES, Load DSN from PARM data
00033A	D205	9302	930C	00302	0030C	1135	MVC PVOLSER,OBTVOL	Save VOLSER from PARM data
					1136	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1138	*	*/*****	
					1139	*	/* Display ABOUT information on terminal	*/
					1140	*	/* and exit. No dataset processing done...	*/
					1141	*	/* -ReasonCode 99 ABOUT request, no DSN info retrieved	*/
					1142	*	*/*****	
			00340		1143	ABOUT#	EQU *	
000340	95E8	930B	0030B		1144		CLI PABOUT,C'Y'	Display ABOUT Info?
000344	4770	A384	00384		1145		BNE ABOUT#XT	NO.
000348	9001	9290	00290		1146		STM R0,R1,DW	SAVE R0,R1 to DW before TPUT
					1147		TPUT MYSTAMP,MYSTAMPL	
000364	9801	9290	00290		1158		LM R0,R1,DW	RESTORE R0,R1 from DW after TPUT
000368	D233	909C	A01E	0009C	0001E	1159	MVC DJMSG(MYSTAMPL),MYSTAMP	Move to &SYSLISTDSJMSG
00036E	D201	9100	B6F8	00100	016F8	1160	MVC DRSNCODE,=C'99'	ABOUT, no DSN info msg
000374	D203	929C	B6A4	0029C	016A4	1161	MVC RCEXIT,=F'00'	
00037A	D201	92CA	B6F4	002CA	016F4	1162	MVC RC,=C'00'	
000380	47F0	AFB0	00FB0		1163		B ENDME	
			00384		1164	ABOUT#XT	EQU *	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
					1166	*	/* *****/		
					1167	*	/* Locate dataset name via catalog	*/	
					1168	*	/* #Data source: 00 SYSDSNAME (1 of 02)	*/	
					1169	*	/* #Data source: 41 SYSDSCAT	*/	
					1170	*	/* #Data source: 42 SYSDSCATV	*/	
					1171	*	/* -ReasonCode 05 DSN not catalogued	*/	
					1172	*	/* -JMSG'RC=xxx DSCB-Fx CAMLIST NAME error'	*/	
					1173	*	/* - R3 Working Register	*/	
					1174	*	/* - R15 Working Register and RC exit code register	*/	
					1175	*	/* *****/		
			00384		1176	LOC8DSN	EQU *		
000384	4130	0000	00000		1177	LA	R3,0	ZERO R3	
000388	5030	9340	00340		1178	ST	R3,CAMLIST	... FW1 of CAMLIST	
00038C	9244	9340	00340		1179	MVI	CAMLIST,X'44'	Indicate NAME option	
000390	4130	9312	00312		1180	LA	R3,CAMDSN	Addr of DSN	
000394	5030	9344	00344		1181	ST	R3,CAMLIST+4	... FW2 of CAMLIST	
000398	4130	0000	00000		1182	LA	R3,0	ZERO R3	
00039C	5030	9348	00348		1183	ST	R3,CAMLIST+8	... FW3 of CAMLIST	
0003A0	4130	9350	00350		1184	LA	R3,LOCATEA	Addr of LOCATEA	
0003A4	5030	934C	0034C		1185	ST	R3,CAMLIST+12	... FW4 of CAMLIST	
					1186	*			
					1187		LOCATE CAMLIST	Search for DSN via catalog	
0003AE	12FF				1190	LTR	R15,R15	Found DSN?	
0003B0	4780	A3F6	003F6		1191	BZ	DSNFOUND	YES, branch to DSNFOUND	
					1192	*		NO, dataset not on catalog	
0003B4	92D5	9231	00231		1193	MVI	DDSCAT,C'N'	Dataset catalogued NO	
0003B8	95E8	9308	00308		1194	CLI	PVOL,C'Y'	Volume parm specified?	
0003BC	4780	A4C6	004C6		1195	BE	DSCBF1	YES, attempt fetch per given VOL	
					1196	*		NO. Error DSN not found in catlg	
0003C0	D22B	9070	92D6	00070	002D6	1197	MVC	DDSN,PDSN	Dataset name from PARMIN
0003C6	D21F	909C	BEEE	0009C	01EEE	1198	MVC	DJMSG(L'MSGJ020),MSGJ020	Move to &SYSLISTDSJMSG
0003CC	4EF0	9290		00290		1199	CVD	R15,DW	Convert to decimal
0003D0	F321	909F	9296	0009F	00296	1200	UNPK	DJMSG+3(3),DW+6(2)	Unpack and
0003D6	96F0	90A1		000A1		1201	OI	DJMSG+5,X'F0'	... force and F zone
0003DA	D207	90A3	B688	000A3	01688	1202	MVC	DJMSG+07(8),=C'LOCATE '	
0003E0	D201	9100	B6FA	00100	016FA	1203	MVC	DRSNCODE,=C'05'	Dataset not catalogued
0003E6	D203	929C	B6A8	0029C	016A8	1204	MVC	RCEXIT,=F'16'	
0003EC	D201	92CA	B6FC	002CA	016FC	1205	MVC	RC,=C'16'	
0003F2	47F0	AFB0		00FB0		1206	B	ENDME	Done, exit.
					1207	*			
			003F6		1208	DSNFOUND	EQU *		
0003F6	92E8	9231	00231		1209	MVI	DDSCAT,C'Y'	Dataset catalogued YES	
0003FA	D205	9232	9356	00232	00356	1210	MVC	DDSCATV,LOCAVSR	Dataset catalogued VOLUME
000400	D22B	9070	9312	00070	00312	1211	MVC	DDSN,CAMDSN	Dataset name from catalog
					1212	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1214	*	*/*****	*/
					1215	*	/* Number of Volumes for this dataset name	*/
					1216	*	/* #Data source: 40 SYSNUMVOLS	*/
					1217	*	/* - R5 Working Register	*/
					1218	*	*/*****	*/
			00406		1219	NUMVOL	EQU *	
000406	D703	9298	9298	00298	00298	1220	XC FW,FW	Clear contents
00040C	D201	929A	9350	0029A	00350	1221	MVC FW+2(2),LOCA#VOL	Get Number of Volumes
000412	5850	9298		00298		1222	L R5,FW	... and convert
000416	4E50	9290		00290		1223	CVD R5,DW	... to decimal
00041A	F321	91E3	9296	001E3	00296	1224	UNPK DNUMVOL,DW+6(2)	Unpack and
000420	96F0	91E5		001E5		1225	OI DNUMVOL+2,X'F0'	... force and F zone
			00424		1226	NUMVOLXT	EQU *	
					1227	*	*/*****	*/
					1228	*	/* Volume list for multivolume datasets	*/
					1229	*	/* #Data source: 45 SYSVOLUMES	*/
					1230	*	/* Limited by DVOLLST# and DVOLLST	*/
					1231	*	/* - R5 contains number of volumes from NUMVOL above	*/
					1232	*	/* - R3, R4, R5, R6 Working Register	*/
					1233	*	/* - R3, R4, R5, R6 Working Register	*/
					1234	*	*/*****	*/
000424	9240	9242		00242		1235	MVI DVOLLST,C' '	Clear DVOLLST
000428	D221	9243	9242	00243	00242	1236	MVC DVOLLST+1(L'DVOLLST-1),DVOLLST	
00042E	4130	9242		00242		1237	LA R3,DVOLLST	R3=addr of DVOLLST
000432	4140	9356		00356		1238	LA R4,LOCAVSER	R4=addr of LOCATEA VOLSER
000436	4160	0005		00005		1239	LA R6,DVOLLST#	R6=max DVOLLST volumes
00043A	1956					1240	CR R5,R6	R5>=R6?
00043C	4780	A446		00446		1241	BE VOLLST	NO, branch to VOLLST
000440	4740	A446		00446		1242	BL VOLLST	NO, branch to VOLLST
000444	1856					1243	LR R5,R6	YES. Init R5 to R6
			00446		1244	VOLLST	EQU *	
000446	D205	3000	4000	00000	00000	1245	MVC 0(6,R3),0(R4)	Move VOLUME to list
00044C	4144	000C		0000C		1246	LA R4,LOCAVLLN(R4)	Point to next VOLUME
000450	4133	0007		00007		1247	LA R3,7(R3)	Point to next Vol List
000454	4650	A446		00446		1248	BCT R5,VOLLST	Do R5 times
			00458		1249	VOLLSTXT	EQU *	
					1250	*	*/*****	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1252	*	/* *****/	
					1253	*	/* Check for multiple volumes and DASD device */	
					1254	*	/* #Data source: 21 SYSVOLUME (1 of 02) */	
					1255	*	/* -ReasonCode 19 Data set on multiple volumes */	
					1256	*	/* -ReasonCode 26 Data set on MSS (Mass Storage) device */	
					1257	*	/* *****/	
				00458	1258	CHKVOLS	EQU *	Check for MULTI volumes
000458	D501	9350	B6FE	00350	016FE	1259	CLC	LOCA#VOL,=X'0001' Volumes = 1?
00045E	4780	A482		00482		1260	BE	SINGLVOL
000462	D501	9350	B700	00350	01700	1261	CLC	LOCA#VOL,=X'0000' Volumes = 0?
000468	4780	A4B0		004B0		1262	BE	DSERR
				0046C	1263	MULTIVOL	EQU *	
00046C	D201	9100	B702	00100	01702	1264	MVC	DRSNCODE,=C'19' Dataset is on mutilple volumes
000472	D203	929C	B6A8	0029C	016A8	1265	MVC	RCEXIT,=F'16'
000478	D201	92CA	B6FC	002CA	016FC	1266	MVC	RC,=C'16'
00047E	47F0	AFB0		00FB0		1267	B	ENDME Done, exit.
				00482	1268	SINGLVOL	EQU *	
000482	D205	9152	9356	00152	00356	1269	MVC	DVOLSER,LOCAVSER LOAD VOLSER FROM CAMLST WORKAREA
000488	D205	930C	9152	0030C	00152	1270	MVC	OBTVOL(6),DVOLSER MOVE VOLSER TO OBTVOL
00048E	9580	9354		00354		1271	CLI	LOCADEV, X'80' Dataset on Tape?
000492	4780	A49A		0049A		1272	BE	ONTAPE YES.
				00496	1273	ONDASD	EQU *	NO, DASD entry
000496	47F0	A4C6		004C6		1274	B	CHKVOLSX
				0049A	1275	ONTAPE	EQU *	
00049A	D201	9100	B704	00100	01704	1276	MVC	DRSNCODE,=C'26' Dataset is on MSS device
0004A0	D203	929C	B6A8	0029C	016A8	1277	MVC	RCEXIT,=F'16'
0004A6	D201	92CA	B6FC	002CA	016FC	1278	MVC	RC,=C'16'
0004AC	47F0	AFB0		00FB0		1279	B	ENDME Done, exit.
				004B0	1280	DSERR	EQU *	
0004B0	D201	9100	B706	00100	01706	1281	MVC	DRSNCODE,=C'06' Error obtaining dataset
0004B6	D203	929C	B6A8	0029C	016A8	1282	MVC	RCEXIT,=F'16'
0004BC	D201	92CA	B6FC	002CA	016FC	1283	MVC	RC,=C'16'
0004C2	47F0	AFB0		00FB0		1284	B	ENDME Done, exit.
				004C6	1285	CHKVOLSX	EQU *	
					1286	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1288	*	*/*****	*/
					1289	*	/* Get Format-1 IDENTIFIER DATA SET CONTROL BLOCK	*/
					1290	*	/* #Data source: 00 SYSDSNAME (1 of 02)	*/
					1291	*	/* #Data source: 21 SYSVOLUME (2 of 02)	*/
					1292	*	/* -ReasonCode 21 Catalog error locating dataset	*/
					1293	*	/* -ReasonCode 22 Volume not mounted	*/
					1294	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST SEARCH error'	*/
					1295	*	/* - R3 Working Register	*/
					1296	*	/* - R15 Working Register and RC exit code register	*/
					1297	*	*/*****	*/
				004C6	1298	DSCBF1	EQU *	
0004C6	95E8	9308	00308		1299		CLI PVOL,C'Y'	Volume specified?
0004CA	4770	A4E0	004E0		1300		BNE DSCBF1A	NO, branch to fetch format-1 DSCB
					1301	*		YES.
0004CE	D202	91E3	B73C	001E3	0173C	1302	MVC DNUMVOL,=C'001'	Number of volumes = 1
0004D4	D205	930C	9302	0030C	00302	1303	MVC OBTVOL,PVOLSER	Override OBTVOL per given VOL
0004DA	D205	9152	9302	00152	00302	1304	MVC DVOLSER,PVOLSER	LOAD VOLSER FROM given VOL
				004E0	1305	DSCBF1A	EQU *	
0004E0	4130	0000	00000		1306		LA R3,0	ZERO R3
0004E4	5030	9340	00340		1307		ST R3,CAMLST	... FW1 of CAMLIST
0004E8	92C1	9340	00340		1308		MVI CAMLIST,X'C1'	Request SEARCH
0004EC	4130	9312	00312		1309		LA R3,CAMDSN	Addr of DSN
0004F0	5030	9344	00344		1310		ST R3,CAMLST+4	... FW2 of CAMLIST
0004F4	4130	930C	0030C		1311		LA R3,OBTVOL	Addr of OBTVOL
0004F8	5030	9348	00348		1312		ST R3,CAMLST+8	... FW3 of CAMLIST
0004FC	4130	9460	00460		1313		LA R3,OBTAINA	Addr of OBTAINA
000500	5030	934C	0034C		1314		ST R3,CAMLST+12	... FW4 of CAMPLIST
					1315	*		
					1316		OBTAIN CAMLIST	Get F1 DSCB
00050A	12FF				1319		LTR R15,R15	Successful?
00050C	4780	A534	00534		1320		BZ OBTR00	YES.
					1321	*		NO.
000510	D22B	9070	92D6	00070	002D6	1322	MVC DDSN,PDSN	Dataset name from PARMIN
000516	D221	909C	BF0E	0009C	01F0E	1323	MVC DJMSG(L'MSGJ021),MSGJ021	Move to &SYSLISTDSJMSG
00051C	4EF0	9290	00290			1324	CVD R15,DW	Convert to decimal
000520	F321	909F	9296	0009F	00296	1325	UNPK DJMSG+3(3),DW+6(2)	Unpack and
000526	96F0	90A1	000A1			1326	OI DJMSG+5,X'F0'	... force and F zone
00052A	D200	90A9	B73F	000A9	0173F	1327	MVC DJMSG+13(1),=C'1'	Mark as F1 request on err msg
					1328	*		
000530	47F0	B086	01086		1329		B CAMRCERR	
				00534	1330	OBTR00	EQU *	
000534	D22B	9070	9312	00070	00312	1331	MVC DDSN,CAMDSN	Dataset name from F1
00053A	D205	9152	930C	00152	0030C	1332	MVC DVOLSER,OBTVOL	Save VOLUME
					1333	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
					1335	*	/* *****	*/	
					1336	*	/* Get Format-2 ISAM DATA SET CONTROL BLOCK	*/	
					1337	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST SEEK error'	*/	
					1338	*	/* - R3 Working Register	*/	
					1339	*	/* - R15 Working Register and RC exit code register	*/	
					1340	*	/* *****	*/	
			00540		1341	DSCBF2	EQU *		
000540	9180	9486	00486		1342	TM	DS1DSORG,X'80'	ISAM ?	
000544	47E0	A59A	0059A		1343	BNO	DSCBF3	NO, bypass DSCB-F2 and get DSCB-F3	
000548	4130	0000	00000		1344	LA	R3,0	ZERO R3	
00054C	5030	9340	00340		1345	ST	R3,CAMLST	... FW1 of CAMLIST	
000550	92C0	9340	00340		1346	MVI	CAMLST,X'C0'	Request SEEK	
000554	9280	9341	00341		1347	MVI	CAMLST+1,X'80'		
000558	4130	94BB	004BB		1348	LA	R3,DS1PTRDS	CCHHR OF FORMAT 2 DSCB	
00055C	5030	9344	00344		1349	ST	R3,CAMLST+4	... FW2 of CAMLIST	
000560	4130	930C	0030C		1350	LA	R3,OBTVOL	Addr of OBTVOL	
000564	5030	9348	00348		1351	ST	R3,CAMLST+8	... FW3 of CAMLIST	
000568	4130	94C0	004C0		1352	LA	R3,IECSDSF2	Addr of FORMAT 2 DSCB	
00056C	5030	934C	0034C		1353	ST	R3,CAMLST+12	... FW4 of CAMLIST	
					1354	*			
					1355		OBTAIN CAMLIST	Get F2 DSCB (Extents)	
000576	12FF				1358	LTR	R15,R15	Successful?	
000578	4780	A59A	0059A		1359	BZ	DSCBF2X	YES.	
					1360	*		NO.	
00057C	D21F	909C	BF30	0009C	01F30	1361	MVC	DJMSG(L'MSGJ022),MSGJ022	Move to &SYSLISTDSJMSG
000582	4EF0	9290	00290		1362	CVD	R15,DW	Convert to decimal	
000586	F321	909F	9296	0009F	00296	1363	UNPK	DJMSG+3(3),DW+6(2)	Unpack and
00058C	96F0	90A1	000A1		1364	OI	DJMSG+5,X'F0'	... force and F zone	
000590	D200	90A9	B740	000A9	01740	1365	MVC	DJMSG+13(1),=C'2'	Mark as F2 request on err msg
					1366	*			
000596	47F0	B086	01086		1367	B	CAMRCERR		
			0059A		1368	DSCBF2X	EQU *		
					1369	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1371	*	/* ***** */	
					1372	*	/* Get Format-3 EXTENSION DATA SET CONTROL BLOCK */	
					1373	*	/* -JMSG'RC=xxx DSCB-Fx CAMLIST SEEK error' */	
					1374	*	/* - R3 Working Register */	
					1375	*	/* - R15 Working Register and RC exit code register */	
					1376	*	/* ***** */	
			0059A		1377	DSCBF3	EQU *	
00059A	9503	946F	0046F		1378		CLI DS1NOEPV,3	Dataset > 3 Extents?
00059E	47D0	A600	00600		1379		BNH DSCBF3X	NO. F3 DSCB not needed!
0005A2	4130	0000	00000		1380		LA R3,0	ZERO R3
0005A6	5030	9340	00340		1381		ST R3,CAMLIST	... FW1 of CAMLIST
0005AA	92C0	9340	00340		1382		MVI CAMLIST,X'C0'	Request SEEK
0005AE	9280	9341	00341		1383		MVI CAMLIST+1,X'80'	
0005B2	4130	94BB	004BB		1384		LA R3,DS1PTRDS	CCHHR OF FORMAT 3 DSCB
0005B6	9180	9486	00486		1385		TM DS1DSORG,X'80'	ISAM ?
0005BA	47E0	A5C2	005C2		1386		BN0 *+8	NO.
0005BE	4130	9547	00547		1387		LA R3,DS2PTRDS	CCHHR OF FORMAT 3 DSCB
0005C2	5030	9344	00344		1388		ST R3,CAMLIST+4	... FW2 of CAMLIST
0005C6	4130	930C	0030C		1389		LA R3,OBTVOL	Addr of OBTVOL
0005CA	5030	9348	00348		1390		ST R3,CAMLIST+8	... FW3 of CAMLIST
0005CE	4130	954C	0054C		1391		LA R3,IECSDSF3	Addr of FORMAT 3 DSCB
0005D2	5030	934C	0034C		1392		ST R3,CAMLIST+12	... FW4 of CAMLIST
					1393	*		
					1394		OBTAIN CAMLIST	Get F3 DSCB (Extents)
0005DC	12FF				1397		LTR R15,R15	Successful?
0005DE	4780	A600	00600		1398		BZ DSCBF3X	YES.
					1399	*		NO.
0005E2	D21F	909C	BF30	0009C	01F30	1400	MVC DJMSG(L'MSGJ022),MSGJ022	Move to &SYSLISTDSJMSG
0005E8	4EF0	9290	00290		1401		CVD R15,DW	Convert to decimal
0005EC	F321	909F	9296	0009F	00296	1402	UNPK DJMSG+3(3),DW+6(2)	Unpack and
0005F2	96F0	90A1	000A1		1403		OI DJMSG+5,X'F0'	... force and F zone
0005F6	D200	90A9	B741	000A9	01741	1404	MVC DJMSG+13(1),=C'3'	Mark as F3 request on err msg
					1405	*		
0005FC	47F0	B086	01086		1406		B CAMRCERR	
			00600		1407	DSCBF3X	EQU *	
					1408	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
					1410	*	*/*****		
					1411	*	/* Get Format-4 DSCB for VOLUME device characterics	*/	
					1412	*	/* -JMSG'RC=xxx DSCB-Fx CAMLST NAME error'	*/	
					1413	*	/* - R3 Working Register	*/	
					1414	*	/* - R15 Working Register and RC exit code register	*/	
					1415	*	*/*****		
			00600		1416	DSCBF4	EQU *		
000600	9204	9312	00312		1417	MVI	CAMDSN,X'04'	Set to F4 DSCB	
000604	D22A	9313	9312	00313	00312	1418	MVC	CAMDSN+1(L'CAMDSN-1),CAMDSN	
					1419	*			
00060A	4130	0000	00000		1420	LA	R3,0	ZERO R3	
00060E	5030	9340	00340		1421	ST	R3,CAMLST	... FW1 of CAMLIST	
000612	92C1	9340	00340		1422	MVI	CAMLST,X'C1'	INDICATE NAME OPTION	
000616	4130	9312	00312		1423	LA	R3,CAMDSN	Addr of DSN	
00061A	5030	9344	00344		1424	ST	R3,CAMLST+4	... FW2 of CAMLIST	
00061E	4130	930C	0030C		1425	LA	R3,OBTVOL	Addr of OBTVOL	
000622	5030	9348	00348		1426	ST	R3,CAMLST+8	... FW3 of CAMLIST	
000626	4130	95D8	005D8		1427	LA	R3,IECSDSF4	Addr of FORMAT 4 DSCB	
00062A	5030	934C	0034C		1428	ST	R3,CAMLST+12	... FW4 of CAMPLIST	
					1429	*			
					1430		OBTAIN CAMLIST	Get F4 DSCB (Volume Info)	
000634	12FF				1433	LTR	R15,R15	Successful?	
000636	4780	A658	00658		1434	BZ	DSCBF4X	YES.	
					1435	*		NO.	
00063A	D21F	909C	BEEE	0009C	01EEE	1436	MVC	DJMSG(L'MSGJ020),MSGJ020	Move to &SYSLISTDSJMSG
000640	4EF0	9290	00290		1437	CVD	R15,DW	Convert to decimal	
000644	F321	909F	9296	0009F	00296	1438	UNPK	DJMSG+3(3),DW+6(2)	Unpack and
00064A	96F0	90A1	000A1		1439	OI	DJMSG+5,X'F0'	... force and F zone	
00064E	D200	90A9	B742	000A9	01742	1440	MVC	DJMSG+13(1),=C'4'	Mark as F4 request on err msg
					1441	*			
000654	47F0	B086	01086		1442	B	CAMRCERR		
			00658		1443	DSCBF4X	EQU *		
					1444	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1446 *	*	/* *****/	
					1447 *	*	/* Cylinders for Volume from format-4 DSCB */	
					1448 *	*	/* #Data source: 29 SYSCYLVOL */	
					1449 *	*	/* - R3 Working Register */	
					1450 *	*	/* *****/	
000658	4830	95EA	005EA		1451	LH	R3,DS4DEVSZ Cylinders for volume	
00065C	5030	92B0	002B0		1452	ST	R3,CYL4VOL	
000660	4E30	9290	00290		1453	CVD	R3,DW Convert to decimal	
000664	F342	9204	9295 00204 00295		1454	UNPK	DCYL4VOL(5),DW+5(3) Unpack and	
00066A	96F0	9208	00208		1455	OI	DCYL4VOL+4,X'F0' ... force and F zone	
					1456 *	*	/* *****/	
					1457 *	*	/* *****/	
					1458 *	*	/* Tracks per Cylinder for Volume from format-4 DSCB */	
					1459 *	*	/* #Data source: 30 SYSTRKSCYL */	
					1460 *	*	/* - R3 Working Register */	
					1461 *	*	/* *****/	
00066E	4830	95EC	005EC		1462	LH	R3,DS4DEVSZ+2 Tracks/Cylinder	
000672	5030	92A0	002A0		1463	ST	R3,TRKSCYL	
000676	4E30	9290	00290		1464	CVD	R3,DW Convert to decimal	
00067A	F342	91F5	9295 001F5 00295		1465	UNPK	DTRKSCYL(5),DW+5(3) Unpack and	
000680	96F0	91F9	001F9		1466	OI	DTRKSCYL+4,X'F0' ... force and F zone	
					1467 *	*	/* *****/	
					1468 *	*	/* *****/	
					1469 *	*	/* Track Length for volume from format-4 DSCB */	
					1470 *	*	/* #Data source: 34 SYSTRKLEN */	
					1471 *	*	/* - R3 Working Register */	
					1472 *	*	/* *****/	
000684	4830	95EE	005EE		1473	LH	R3,DS4DEVTK Track Length	
000688	5030	92A4	002A4		1474	ST	R3,TRKLEN	
00068C	4E30	9290	00290		1475	CVD	R3,DW Convert to decimal	
000690	F342	91FA	9295 001FA 00295		1476	UNPK	DTRKLEN(5),DW+5(3) Unpack and	
000696	96F0	91FE	001FE		1477	OI	DTRKLEN+4,X'F0' ... force and F zone	
					1478 *	*	/* *****/	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1480 *	*	/* *****/	
					1481 *	*	/* Capacity for volume =	*/
					1482 *	*	/* Cylinders for Volume * Tracks per Cylinder *	*/
					1483 *	*	/* Track Length	*/
					1484 *	*	/* #Data source: 35 SYSUNITCAP	*/
					1485 *	*	/* - R2, R3 Working Registers	*/
					1486 *	*	/* *****/	
00069A	5830	92B0	002B0		1487	L	R3,CYL4VOL	R3=CYLS for volume
00069E	5C20	92A0	002A0		1488	M	R2,TRKSCYL	(R2,R3)=CYL4VOL*TRKSCYL
					1489 *		R3	tracks for volume
0006A2	5C20	92A4	002A4		1490	M	R2,TRKLEN	(R2,R3)=R3*TRKLEN
0006A6	4E30	9290	00290		1491	CVD	R3,DW	Convert to decimal
0006AA	F3E7	9209	9290	00209	1492	UNPK	DUNITCAP,DW	Unpack and
0006B0	96F0	9217	00217		1493	OI	DUNITCAP+14,X'F0'	... force and F zone
					1494 *	*		
					1495 *	*	/* *****/	
					1496 *	*	/* Blocks per Track =	*/
					1497 *	*	/* Track Length / Blocksize	*/
					1498 *	*	/* #Data source: 36 SYSBLKSTRK	*/
					1499 *	*	/* - R2, R3 Working Registers	*/
					1500 *	*	/* *****/	
0006B4	1B33				1501	SR	R3,R3	Zero R3
0006B6	D501	948A	B708	0048A	1502	CLC	DS1BLKL,=H'0'	Is BLOCKSIZE 0?
0006BC	4780	A6D8		006D8	1503	BE	BLKTRKC	YES, BLKTRKC is 0
0006C0	5830	92A4		002A4	1504	L	R3,TRKLEN	NO, compute BLKTRKC
0006C4	5C20	B6AC		016AC	1505	M	R2,=F'1'	
0006C8	D703	9298	9298	00298	1506	XC	FW,FW	Clear FW
0006CE	D201	929A	948A	0029A	1507	MVC	FW+2(2),DS1BLKL	Move BLOCKSIZE
0006D4	5D20	9298		00298	1508	D	R2,FW	TrackLength/Blocksize
				006D8	1509	BLKTRKC EQU	*	
0006D8	4E30	9290		00290	1510	CVD	R3,DW	Convert to decimal
0006DC	F342	91FF	9295	001FF	1511	UNPK	DBLKTRK(5),DW+5(3)	Unpack and
0006E2	96F0	9203		00203	1512	OI	DBLKTRK+4,X'F0'	... force and F zone
0006E6	5030	92BC		002BC	1513	ST	R3,BLKSPTRK	Store blocks per track
					1514 *			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1516	*	/* ***** */	/*
					1517	*	/* Total Space Allocation	*/
					1518	*	/* - Sum extents; 3 F1, 4 F3, 9 F3	*/
					1519	*	/* - R1, R2, R3, R4, R5, R7 Working Registers	*/
					1520	*	/* ***** */	*/
				006EA	1521	SUMEXT	EQU *	
0006EA	9500	946F	0046F		1522		CLI DS1NOEPV,0	Extents to process?
0006EE	4780	A752	00752		1523		BE SUMEXTXT	NO. Zero.
0006F2	1B22				1524		SR R2,R2	Zero, R2 = TRK Counter (HH)
0006F4	1B33				1525		SR R3,R3	Zero, R3 = CYL Counter (CC)
					1526	*	/* ----- */	*/
					1527	*	/* Sum- 1st 3 extents in F1 DSCB	*/
					1528	*	/* ----- */	*/
0006F6	4140	949D	0049D		1529		LA R4,DS1EXT1	Addr of 1st extent (F1)
0006FA	4150	0003	00003		1530		LA R5,3	3 times...
				006FE	1531	EXTF1	EQU *	
0006FE	9500	4000	00000		1532		CLI 0(R4),X'00'	Extent slot null?
000702	4780	A752	00752		1533		BE SUMEXTXT	YES, Done.
000706	4570	B3A4	013A4		1534		BAL R7,TOTEXTS	Sum extents
00070A	4144	000A	0000A		1535		LA R4,10(R4)	Point to next extent
00070E	4650	A6FE	006FE		1536		BCT R5,EXTF1	
					1537	*	/* ----- */	*/
					1538	*	/* Sum- Count F3 DSCB extents?	*/
					1539	*	/* ----- */	*/
000712	9503	946F	0046F		1540		CLI DS1NOEPV,3	Dataset > 3 Extents?
000716	47D0	A752	00752		1541		BNH SUMEXTXT	NO. Done...
					1542	*	/* ----- */	*/
					1543	*	/* Sum- 4 extents in F3 DSCB	*/
					1544	*	/* ----- */	*/
00071A	4140	9550	00550		1545		LA R4,DS3EXTNT	Addr of 1st extent (F3)
00071E	4150	0004	00004		1546		LA R5,4	4 times...
				00722	1547	EXTF3	EQU *	
000722	9500	4000	00000		1548		CLI 0(R4),X'00'	Extent slot null?
000726	4780	A752	00752		1549		BE SUMEXTXT	YES, Done.
00072A	4570	B3A4	013A4		1550		BAL R7,TOTEXTS	Sum extents
00072E	4144	000A	0000A		1551		LA R4,10(R4)	Point to next extent
000732	4650	A722	00722		1552		BCT R5,EXTF3	
					1553	*	/* ----- */	*/
					1554	*	/* Sum- last 9 extents in F3 DSCB	*/
					1555	*	/* ----- */	*/
000736	4140	9579	00579		1556		LA R4,DS3ADEXT	Addr of 1st extent (F3)
00073A	4150	0009	00009		1557		LA R5,9	9 times...
				0073E	1558	EXTF3B	EQU *	
00073E	9500	4000	00000		1559		CLI 0(R4),X'00'	Extent slot null?
000742	4780	A752	00752		1560		BE SUMEXTXT	YES, Done.
000746	4570	B3A4	013A4		1561		BAL R7,TOTEXTS	Sum extents
00074A	4144	000A	0000A		1562		LA R4,10(R4)	Point to next extent
00074E	4650	A73E	0073E		1563		BCT R5,EXTF3B	
					1564	*	/* ----- */	*/
				00752	1565	SUMEXTXT	EQU *	
					1566	*	/* ----- */	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					1568	*	/*-----*/	0201 17.21 05/18/19
					1569	*	/* TOTALS R2=TRKS, R3=CYL	*/
					1570	*	/*-----*/	*/
000752	1812				1571		LR R1,R2 R1=TRKS accumulated	
000754	5C20	92A0	002A0		1572		M R2,TRKSCYL CYL to TRKS (R2,R3)	
000758	1A31				1573		AR R3,R1 R3=Total TRKS allocated	
					1574	*	/*-----*/	
					1575	*	/* Total Allocated Tracks	*/
					1576	*	/* #Data source: 26 SYSTRKSALLOC	*/
					1577	*	/*-----*/	*/
00075A	4E30	9290	00290		1578		CVD R3,DW Convert to decimal	
00075E	F342	91E6	9295 001E6	00295	1579		UNPK DTRKSAL(5),DW+5(3) Unpack and	
000764	96F0	91EA	001EA		1580		OI DTRKSAL+4,X'F0' ... force and F zone	
000768	5030	92A8	002A8		1581		ST R3,TRKSTOTA Store tot alloc tracks	
					1582	*	/*-----*/	
					1583	*	/* Total Allocated Cylinders	*/
					1584	*	/*-----*/	*/
00076C	1813				1585		LR R1,R3 R1=Total Allocated Tracks	
00076E	5D20	92A0	002A0		1586		D R2,TRKSCYL Revise CYL and TRK (R2,R3)	
000772	5030	92B4	002B4		1587		ST R3,CYLSTOTA Store tot alloc cys	
					1588	*	/*-----*/	
					1589	*	/* TOTALS: R2=TRKS, R3=CYL	*/
					1590	*	/*-----*/	*/
					1591	*	/*-----*/	*/
					1592	*	/*-----*/	*/
					1593	*	/*-----*/	*/
					1594	*	/*-----*/	*/

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1596	*	/* ***** */	
					1597	*	/* Space Used in Tracks for PS and PO Organization */	
					1598	*	/* - R1, R2 Working Registers */	
					1599	*	/* ***** */	
				00776	1600	SPCUSED	EQU *	
000776	9140	9486	00486		1601	TM	DS1DSORG,X'40'	PS SEQ Dataset ?
00077A	4710	A790	00790		1602	BO	SPCUSEDX	YES, continue.
00077E	9102	9486	00486		1603	TM	DS1DSORG,X'02'	PO PDS Dataset ?
000782	4710	A790	00790		1604	BO	SPCUSEDX	YES, continue.
000786	D703	92AC	92AC 002AC	002AC	1605	XC	TTRKUSED,TTRKUSED	Clear Total Used Tracks
00078C	47F0	A7C4	007C4		1606	B	SPCUSEDX	NO, Exit.
				00790	1607	SPCUSEDX	EQU *	
000790	1B22				1608	SR	R2,R2	R2=Total Tracks Used
000792	BF23	9496	00496		1609	ICM	R2,B'0011',DS1LSTAR	Last Block Written TT of TTR
000796	9500	9498	00498		1610	CLI	DS1LSTAR+2,0	Portion of track used? R of TTR
00079A	4780	A7A2	007A2		1611	BE	TOTUSED	NO.
00079E	4122	0001	00001		1612	LA	R2,1(R2)	YES, add 1 to tracks
					1613	*	/* ***** */	
					1614	*	/* ***** */	
					1615	*	/* Total Used Tracks */	
					1616	*	/* #Data source: 24 SYSTRKSUSED */	
					1617	*	/* ***** */	
				007A2	1618	TOTUSED	EQU *	
0007A2	5020	92AC	002AC		1619	ST	R2,TTRKUSED	Store total tracks used
0007A6	4E20	9290	00290		1620	CVD	R2,DW	Convert to decmial
0007AA	F342	91EB	9295 001EB	00295	1621	UNPK	DTRKSUS(5),DW+5(3)	Unpack and
0007B0	96F0	91EF	001EF		1622	OI	DTRKSUS+4,X'F0'	... force and F zone
					1623	*	/* ***** */	
					1624	*	/* ***** */	
					1625	*	/* Total Unused Tracks */	
					1626	*	/* #Data source: 28 SYSTRKSUNUSED */	
					1627	*	/* ***** */	
				007B4	1628	TOTUSED	EQU *	
0007B4	1B12				1629	SR	R1,R2	R1=Unused tracks
0007B6	4E10	9290	00290		1630	CVD	R1,DW	Convert to decmial
0007BA	F342	91F0	9295 001F0	00295	1631	UNPK	DTRKSUUS(5),DW+5(3)	Unpack and
0007C0	96F0	91F4	001F4		1632	OI	DTRKSUUS+4,X'F0'	... force and F zone
				007C4	1633	SPCUSEDX	EQU *	
					1634	*	/* ***** */	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1636	*	/* *****/	
					1637	*	/* Logical Record Length	*/
					1638	*	/* #Data source: 10 SYSLRECL	*/
					1639	*	/* - R3 Working Register	*/
					1640	*	/* *****/	
			007C4		1641	LRECL	EQU *	
0007C4	D703	9298	9298	00298	00298	1642	XC FW,FW	Clear contents
0007CA	D201	929A	948C	0029A	0048C	1643	MVC FW+2(2),DS1LRECL	Get LRECL
0007D0	5830	9298		00298		1644	L R3,FW	... and convert
0007D4	4E30	9290		00290		1645	CVD R3,DW	... to decimal
0007D8	F342	9158	9295	00158	00295	1646	UNPK DLRECL(5),DW+5(3)	Unpack and
0007DE	96F0	915C		0015C		1647	OI DLRECL+4,X'F0'	... force and F zone
			007E2		1648	LRECLXT	EQU *	
					1649	*	/* *****/	
					1650	*	/* *****/	
					1651	*	/* Blocksize	*/
					1652	*	/* #Data source: 11 SYSBLKSIZE	*/
					1653	*	/* - R3 Working Register	*/
					1654	*	/* *****/	
			007E2		1655	BLKSIZ	EQU *	
0007E2	D703	9298	9298	00298	00298	1656	XC FW,FW	Clear contents
0007E8	D201	929A	948A	0029A	0048A	1657	MVC FW+2(2),DS1BLKL	Get BLKSIZE
0007EE	5830	9298		00298		1658	L R3,FW	... and convert
0007F2	4E30	9290		00290		1659	CVD R3,DW	... to decimal
0007F6	F342	915D	9295	0015D	00295	1660	UNPK DBLKSZ(5),DW+5(3)	Unpack and
0007FC	96F0	9161		00161		1661	OI DBLKSZ+4,X'F0'	... force and F zone
			00800		1662	BLKSIZXT	EQU *	
					1663	*	/* *****/	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1665	*	/* ***** */	
					1666	*	/* Keylength	*/
					1667	*	/* #Data source: 12 SYSKEYLEN	*/
					1668	*	/* - R3 Working Register	*/
					1669	*	/* ***** */	
				00800	1670	KEYL	EQU *	
000800	D703	9298	9298	00298	00298	1671	XC FW,FW	Clear contents
000806	D200	929B	948E	0029B	0048E	1672	MVC FW+3(1),DS1KEYL	Get KEY LENGTH
00080C	5830	9298		00298		1673	L R3,FW	... and convert
000810	4E30	9290		00290		1674	CVD R3,DW	... to decimal
000814	F321	91AF	9296	001AF	00296	1675	UNPK DKEYL(3),DW+6(2)	Unpack and
00081A	96F0	91B1		001B1		1676	OI DKEYL+2,X'F0'	... force and F zone
				0081E	1677	KEYLXT	EQU *	
					1678	*	/* ***** */	
					1679	*	/* ***** */	
					1680	*	/* Relative Key Position	*/
					1681	*	/* #Data source: 13 SYSKEYPOS	*/
					1682	*	/* - R3 Working Register	*/
					1683	*	/* ***** */	
				0081E	1684	RKP	EQU *	
00081E	D703	9298	9298	00298	00298	1685	XC FW,FW	Clear contents
000824	D201	929A	948F	0029A	0048F	1686	MVC FW+2(2),DS1RKP	Get RELATIVE KEY POSITION
00082A	5830	9298		00298		1687	L R3,FW	... and convert
00082E	4E30	9290		00290		1688	CVD R3,DW	... to decimal
000832	F342	91B2	9295	001B2	00295	1689	UNPK DRKP(5),DW+5(3)	Unpack and
000838	96F0	91B6		001B6		1690	OI DRKP+4,X'F0'	... force and F zone
				0083C	1691	RKPXT	EQU *	
					1692	*	/* ***** */	
					1693	*	/* ***** */	
					1694	*	/* Extents Allocated	*/
					1695	*	/* #Data source: 25 SYSEXTENTS	*/
					1696	*	/* - R3 Working Register	*/
					1697	*	/* ***** */	
				0083C	1698	EXTS	EQU *	
00083C	D703	9298	9298	00298	00298	1699	XC FW,FW	Clear contents
000842	D200	929B	946F	0029B	0046F	1700	MVC FW+3(1),DS1N0EPV	Get ALLOCATED EXTENTS
000848	5830	9298		00298		1701	L R3,FW	... and convert
00084C	4E30	9290		00290		1702	CVD R3,DW	... to decimal
000850	F321	91E0	9296	001E0	00296	1703	UNPK DEXTS(3),DW+6(2)	Unpack and
000856	96F0	91E2		001E2		1704	OI DEXTS+2,X'F0'	... force and F zone
				0085A	1705	EXTSXT	EQU *	
					1706	*	/* ***** */	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1708	*	/* ***** */	
					1709	*	/* Dataset Organization */	
					1710	*	/* #Data source: 08 SYSDSORG */	
					1711	*	/* -JMSG'DSORG Type xxx not defined in table' */	
					1712	*	/* - R2, R3, R4, R5 Working Registers */	
					1713	*	/* ***** */	
				0085A	1714	DSORG	EQU *	
00085A	4130	A8C8	008C8		1715		LA R3,TBLDSOB	Address of TBL
00085E	4140	0005	00005		1716		LA R4,TBLDSOE	Number of tbl entries
000862	1B55				1717		SR R5,R5	Clear R5
				00864	1718	DSORGLP	EQU *	
000864	4120	9486	00486		1719		LA R2,DS1DSORG	Address of DSORG
000868	4A23	0000	00000		1720		AH R2,0(R3)	Adj Addr of DSORG
00086C	BF51	3002	00002		1721		ICM R5,B'0001',2(R3)	Load DSORG bit pattern
000870	4450	A8C4	008C4		1722		EX R5,TMDSORG	Execute TM
000874	4710	A8AE	008AE		1723		BO DS0#FND	Found DSORG Type
000878	4133	0006	00006		1724		LA R3,TBLDSOL(R3)	Otherwise, check next
00087C	4640	A864	00864		1725		BCT R4,DSORGLP	... TBLDS0 entry
					1726	*		Exhausted TBLDS entries, not found
000880	D222	909C	BF50	0009C	01F50	1727	MVC DJMSG(L'MSGJ025),MSGJ025	Move to &SYSLISTDSJMSG
000886	D209	909C	B70A	0009C	0170A	1728	MVC DJMSG(10),=C'DSORG Type'	
00088C	D703	9298	9298	00298	00298	1729	XC FW,FW	
000892	D200	929B	9486	0029B	00486	1730	MVC FW+3(1),DS1DSORG	
000898	58F0	9298		00298		1731	L R15,FW	
00089C	4EF0	9290		00290		1732	CVD R15,DW	Convert to decimal
0008A0	F321	90A7	9296	000A7	00296	1733	UNPK DJMSG+11(3),DW+6(2)	Unpack and
0008A6	96F0	90A9		000A9		1734	OI DJMSG+13,X'F0'	... force and F zone
0008AA	47F0	A8E6		008E6		1735	B DSORGXT	
					1736	*		
				008AE	1737	DS0#FND	EQU *	
0008AE	D202	9162	3003	00162	00003	1738	MVC DDSORG,3(R3)	Move DSORG type
				008B4	1739	DSOUNMOV	EQU *	
0008B4	9101	9486		00486		1740	TM DS1DSORG,B'00000001'	Unmovable?
0008B8	4780	A8E6		008E6		1741	BZ DSORGXT	YES, movable (default)
0008BC	92E4	9164		00164		1742	MVI DDSORG+2,C'U'	NO, unmovable
0008C0	47F0	A8E6		008E6		1743	B DSORGXT	
					1744	*		
0008C4	9100	2000		00000		1745	TMDSORG TM 0(R2),B'00000000'	DSORG TM instruction (EX)
					1746	*		- TBLDS0 Table-----
					1747	*		6 bytes / halfword, offset relative to DS1DSORG
					1748	*		per entry+ 01 bytes, DS1DSORG bit pattern
					1749	*		\ 03 bytes, file organization type
					1750	*		-
0008C8					1751	TBLDSOB	DS 0H	
0008C8	000080C9E240				1752		DC H'0',B'10000000',C'IS '	ISAM
				00006	1753	TBLDSOL	EQU *-TBLDSOB	** Entry Length
0008CE	000040D7E240				1754		DC H'0',B'01000000',C'PS '	Sequential
0008D4	000020C4C140				1755		DC H'0',B'00100000',C'DA '	Direct
0008DA	000002D7D640				1756		DC H'0',B'00000010',C'PO '	Partitioned
0008E0	000108E5E240				1757		DC H'1',B'00001000',C'VS '	VSAM
				00005	1758	TBLDSOE	EQU (*-TBLDSOB)/TBLDSOL	** Num of entries
				008E6	1760	DSORGXT	EQU *	
					1761	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1763	*	*/*****	
					1764	*	/* Length Attribute (F,V,U)	
					1765	*	/* - R2, R3, R4, R5 Working Registers	
					1766	*	*/*****	
				008E6	1767	LENTY	EQU *	
0008E6	9240	9165	00165		1768	MVI	DRECFM,C' ' Clear DRECFM	
0008EA	D203	9166	9165	00166	00165	MVC	DRECFM+1(L'DRECFM-1),DRECFM	
0008F0	4130	A924		00924		LA	R3,TBLRFM1B Address of TBL	
0008F4	4140	0003		00003		LA	R4,TBLRFM1E Number of tbl entries	
0008F8	4120	9488		00488		LA	R2,DS1RECFM Address of DS1RECFM	
0008FC	1B55				1773	SR	R5,R5 Clear R5	
				008FE	1774	LENTYLP	EQU *	
0008FE	BF51	3000		00000		ICM	R5,B'0001',0(R3) Load DS1RECFM bit pattern	
000902	4450	A920		00920		EX	R5,TMSRFM1 Execute TM	
000906	4710	A916		00916		BO	LEN#FND Found RECFM Type	
00090A	4133	0002		00002		LA	R3,TBLRFM1L(R3) Otherwise, check next	
00090E	4640	A8FE		008FE		BCT	R4,LENTYLP ... TBL entry	
					1780	*		Exhausted TBL entries
000912	47F0	A92A		0092A		B	LENTYXT	
				00916	1782	LEN#FND	EQU *	
000916	D200	9165	3001	00165	00001	MVC	DRECFM+0(1),TBLRFM1L-1(R3)	
00091C	47F0	A92A		0092A		B	LENTYXT	
					1785	*		
000920	9100	2000		00000		TMSRFM1	TM 0(R2),B'00000000' DSRFM TM instruction	
					1787	*		
					1788	*	2 bytes / TBLRFM1 Table-----	
					1789	*	per entry+ 01 bytes, DS1RECFM bit pattern	
					1790	*	\ 01 bytes, Length type	
000924					1791	TBLRFM1B	DS 0H	
000924	C0E4				1792	DC	B'11000000',C'U' Undefined Length	
				00002	1793	TBLRFM1L	EQU *-TBLRFM1B ** Entry Length	
000926	40E5				1794	DC	B'01000000',C'V' Variable Length	
000928	80C6				1795	DC	B'10000000',C'F' Fixed Length	
				00003	1796	TBLRFM1E	EQU (*-TBLRFM1B)/TBLRFM1L ** Num of entries	
					1797	*		
				0092A	1798	LENTYXT	EQU *	
					1799	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1801	*	*/*****	
					1802	*	/* Block attribute (B)	
					1803	*	*/*****	
				0092A	1804	BLK	EQU *	
00092A	9110	9488	00488		1805	TM	DS1RECFM,B'00010000'	Blocked
00092E	4710	A936	00936		1806	BO	BLK#B	
000932	47F0	A93E	0093E		1807	B	BLKXT	
				00936	1808	BLK#B	EQU *	
000936	92C2	9166	00166		1809	MVI	DRECFM+1,C'B'	Blocked
00093A	47F0	A93E	0093E		1810	B	BLKXT	
				0093E	1811	BLKXT	EQU *	
					1812	*	*	
					1813	*	*/*****	
					1814	*	/* Span - Standard Attribute (S)	
					1815	*	*/*****	
				0093E	1816	SPNCHR	EQU *	
00093E	9108	9488	00488		1817	TM	DS1RECFM,B'00001000'	Span - Standard
000942	4710	A94A	0094A		1818	BO	SPN#S	
000946	47F0	A94E	0094E		1819	B	SPNCHRXT	
				0094A	1820	SPN#S	EQU *	
00094A	92E2	9167	00167		1821	MVI	DRECFM+2,C'S'	Span - Standard
				0094E	1822	SPNCHRXT	EQU *	
					1823	*	*	
					1824	*	*/*****	
					1825	*	/* Track Overflow Attribute (T)	
					1826	*	*/*****	
				0094E	1827	OVFCHR	EQU *	
00094E	9120	9488	00488		1828	TM	DS1RECFM,B'00100000'	Track Overflow
000952	4710	A95A	0095A		1829	BO	OVF#S	
000956	47F0	A95E	0095E		1830	B	OVFCHRXT	
				0095A	1831	OVF#S	EQU *	
00095A	92E3	9168	00168		1832	MVI	DRECFM+3,C'T'	Track Overflow
				0095E	1833	OVFCHRXT	EQU *	
					1834	*	*	
					1835	*	*/*****	
					1836	*	/* ANSI Control Character Attribute (A,M)	
					1837	*	*/*****	
				0095E	1838	CTLCHR	EQU *	
00095E	9104	9488	00488		1839	TM	DS1RECFM,B'00000100'	ANSI
000962	4710	A972	00972		1840	BO	CTL#A	
000966	9102	9488	00488		1841	TM	DS1RECFM,B'00000010'	Machine Code
00096A	4710	A97A	0097A		1842	BO	CTL#M	
00096E	47F0	A982	00982		1843	B	CTLCHRXT	
				00972	1844	CTL#A	EQU *	ANSI Control Character
000972	92C1	9169	00169		1845	MVI	DRECFM+4,C'A'	
000976	47F0	A982	00982		1846	B	CTLCHRXT	
				0097A	1847	CTL#M	EQU *	Machine Code Control Character
00097A	92D4	9169	00169		1848	MVI	DRECFM+4,C'M'	
00097E	47F0	A982	00982		1849	B	CTLCHRXT	
				00982	1850	CTLCHRXT	EQU *	
					1851	*	*	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1853	*	/* *****/	
					1854	*	/* Record Format - Concatenate RECFM characters	*/
					1855	*	/* #Data source: 09 SYSRECFM	*/
					1856	*	/* - R2, R3, R4 Working Registers	*/
					1857	*	/* *****/	
				00982	1858	RECFM	EQU *	
000982	9240	9290		00290	1859		MVI DW,C' '	Clear DW Temp Workarea 8-bytes
000986	D206	9291	9290	00291	00290	1860	MVC DW+1(L'DW-1),DW	
00098C	4120	9165		00165	1861		LA R2,DRECFM	Load Addr of DRECFM
000990	4130	0005		00005	1862		LA R3,L'DRECFM	Load Length of DRECFM
000994	4140	9290		00290	1863		LA R4,DW	Load Addr of DW
				00998	1864	RECFML	EQU *	
000998	9540	2000		00000	1865		CLI 0(R2),C' '	Blank?
00099C	4780	A9AA		009AA	1866		BE RECFMLA	YES, skip, next DRECFM position
0009A0	D200	4000	2000	00000	00000	1867	MVC 0(1,R4),0(R2)	NO, move DRECFM pos to DW
0009A6	4144	0001		00001	1868		LA R4,1(R4)	Point to next DW position
				009AA	1869	RECFMLA	EQU *	
0009AA	4122	0001		00001	1870		LA R2,1(R2)	Point to next DRECFM position
0009AE	4630	A998		00998	1871		BCT R3,RECFML	Do again.
0009B2	D204	9165	9290	00165	00290	1872	MVC DRECFM,DW	Move temp work to DRECFM
				009B8	1873	RECFMXT	EQU *	
					1874	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					1876 *	/* ***** */	
					1877 *	/* Allocation Parameters CYL,TRK,BLK,ABS */	
					1878 *	/* Calculate SYSPRIMARY and SYSUSED */	
					1879 *	/* #Data source: 23 SYSUNITS */	
					1880 *	/* #Data source: 43 SYSPRIMARY */	
					1881 *	/* #Data source: 44 SYSUSED */	
					1882 *	/* - R2, R3, R5 Working Registers */	
					1883 *	/* ***** */	
			009B8		1884 SSPC EQU *		
					1885 **	DISPLAY DATA=(DS1SCALO,B,1)	
0009B8	91C0	9492	00492		1886	TM DS1SCALO,X'C0' Allocation- CYL	
					1887 *	TM DS1SCALO,B'11000000' Allocation- CYL	
0009BC	4710	A9D4	009D4		1888	BO SSPC#CYL	
0009C0	9180	9492	00492		1889	TM DS1SCALO,X'80' Allocation- TRK	
					1890 *	TM DS1SCALO,B'10000000' Allocation- TRK	
0009C4	4710	AA0A	00A0A		1891	BO SSPC#TRK	
0009C8	9140	9492	00492		1892	TM DS1SCALO,X'40' Allocation- BLK	
					1893 *	TM DS1SCALO,B'01000000' Allocation- BLK	
0009CC	4710	AA54	00A54		1894	BO SSPC#BLK	
0009D0	47F0	AA38	00A38		1895	B SSPC#ABS Must be Allocation - ABS	
			009D4		1896 SSPC#CYL EQU *		
0009D4	D202	91CF B743	001CF 01743		1897	MVC DSSPC,=C'CYL'	
					1898 *	/* Calculate SYSPRIMARY=CYLSTOTA */	
0009DA	5850	92B4	002B4		1899	L R5,CYLSTOTA ... and convert	
0009DE	4E50	9290	00290		1900	CVD R5,DW ... to decimal	
0009E2	F342	9238 9295	00238 00295		1901	UNPK DPSPCAL,DW+5(3) Unpack and	
0009E8	96F0	923C	0023C		1902	OI DPSPCAL+4,X'F0' ... force and F zone	
					1903 *	/* Calculate SYSUSED=TTRKUSED/TRKSCYL */	
0009EC	5830	92AC	002AC		1904	L R3,TTRKUSED TTRKSUSED	
0009F0	5C20	B6AC	016AC		1905	M R2,=F'1'	
0009F4	5D20	92A0	002A0		1906	D R2,TRKSCYL TTRKSUSED/TRKSCYL	
0009F8	4E30	9290	00290		1907	CVD R3,DW	
0009FC	F342	923D 9295	0023D 00295		1908	UNPK DPSPCUS,DW+5(3) Unpack and	
000A02	96F0	9241	00241		1909	OI DPSPCUS+4,X'F0' ... force and F zone	
000A06	47F0	AA8A	00A8A		1910	B SSPCXT	
			00A0A		1911 SSPC#TRK EQU *		
000A0A	D202	91CF B746	001CF 01746		1912	MVC DSSPC,=C'TRK' TRACK Allocation...	
					1913 *	/* Calculate SYSPRIMARY=TRKSTOTA */	
000A10	5850	92A8	002A8		1914	L R5,TRKSTOTA ... and convert	
000A14	4E50	9290	00290		1915	CVD R5,DW ... to decimal	
000A18	F342	9238 9295	00238 00295		1916	UNPK DPSPCAL,DW+5(3) Unpack and	
000A1E	96F0	923C	0023C		1917	OI DPSPCAL+4,X'F0' ... force and F zone	
					1918 *	/* Calculate SYSUSED=TTRKUSED */	
000A22	5850	92AC	002AC		1919	L R5,TTRKUSED ... and convert	
000A26	4E50	9290	00290		1920	CVD R5,DW ... to decimal	
000A2A	F342	923D 9295	0023D 00295		1921	UNPK DPSPCUS,DW+5(3) Unpack and	
000A30	96F0	9241	00241		1922	OI DPSPCUS+4,X'F0' ... force and F zone	
000A34	47F0	AA8A	00A8A		1923	B SSPCXT	
					1924 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				00A38	1926	SSPC#ABS	EQU *	
000A38	D202	91CF	B749	001CF	01749	1927	MVC DSSPC,=C'ABS' TRACK Allocation...	
					1928	*	/* Calculate SYSPRIMARY=TRKSTOTA */	
000A3E	5850	92A8		002A8	1929	L	R5,TRKSTOTA ... and convert	
000A42	4E50	9290		00290	1930	CVD	R5,DW ... to decimal	
000A46	F342	9238	9295	00238	00295	1931	UNPK DPSPCAL,DW+5(3) Unpack and	
000A4C	96F0	923C		0023C	1932	OI	DPSPCAL+4,X'F0' ... force and F zone	
					1933	*	/* Calculate SYSUSED= not applicable */	
000A50	47F0	AA8A		00A8A	1934	B	SSPCXT	
				00A54	1935	SSPC#BLK	EQU *	
000A54	D202	91CF	B74C	001CF	0174C	1936	MVC DSSPC,=C'BLK'	
					1937	*	/* Calculate SYSPRIMARY=TRKSTOTA*BLKSPTRK */	
000A5A	5830	92A8		002A8	1938	L	R3,TRKSTOTA TRKSTOTA	
000A5E	5C20	92BC		002BC	1939	M	R2,BLKSPTRK BLKSPTRK	
000A62	4E30	9290		00290	1940	CVD	R3,DW ... to decimal	
000A66	F342	9238	9295	00238	00295	1941	UNPK DPSPCAL,DW+5(3) Unpack and	
000A6C	96F0	923C		0023C	1942	OI	DPSPCAL+4,X'F0' ... force and F zone	
					1943	*	/* Calculate SYSUSED=TTRKUSED*BLKSPTRK */	
000A70	5830	92AC		002AC	1944	L	R3,TTRKUSED TRKSUSED	
000A74	5C20	92BC		002BC	1945	M	R2,BLKSPTRK BLKSPTRK	
000A78	4E30	9290		00290	1946	CVD	R3,DW ... to decimal	
000A7C	F342	923D	9295	0023D	00295	1947	UNPK DPSPCUS,DW+5(3) Unpack and	
000A82	96F0	9241		00241	1948	OI	DPSPCUS+4,X'F0' ... force and F zone	
000A86	47F0	AA8A		00A8A	1949	B	SSPCXT	
				00A8A	1950	SSPCXT	EQU *	
					1951	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					1953	*	/* ***** */	
					1954	*	/* Secondary Allocation Quantity */	
					1955	*	/* #Data source: 27 SYSSECONDS */	
					1956	*	/* - R3 Working Register */	
					1957	*	/* ***** */	
				00A8A	1958	SSPCNM	EQU *	
000A8A	D703	9298	9298	00298	00298	1959	XC FW,FW	Clear contents
000A90	D202	9299	9493	00299	00493	1960	MVC FW+1(3),DS1SCALO+1	Get Secondary Allocation quantity
000A96	5830	9298		00298		1961	L R3,FW	... and convert
000A9A	4E30	9290		00290		1962	CVD R3,DW	... to decimal
000A9E	F363	91D2	9294	001D2	00294	1963	UNPK DSSPCNM,DW+4(4)	Unpack and
000AA4	96F0	91D8		001D8		1964	OI DSSPCNM+6,X'F0'	... force and F zone
				00AA8	1965	SSPCNMXT	EQU *	
					1966	*	/* ***** */	
					1967	*	/* Password Protection */	
					1968	*	/* #Data source: 14 SYSPASSWORD */	
					1969	*	/* ***** */	
				00AA8	1970	*	/* ***** */	
					1971	PASSWD	EQU *	
					1972	**	DISPLAY DATA=(DS1DSIND+49,B,1)	
000AA8	9114	9491		00491		1973	TM DS1DSIND,X'14'	Write Password required?
000AAC	4710	AAC2		00AC2		1974	BO WRPW	YES.
000AB0	9110	9491		00491		1975	TM DS1DSIND,X'10'	Read-Write PW required?
000AB4	4710	AACC		00ACC		1976	BO RWPW	YES.
				00AB8	1977	PWDNONE	EQU *	
000AB8	D204	91B7	B74F	001B7	0174F	1978	MVC DPASSWD,=C'NONE '	No password needed
000ABE	47F0	AAD6		00AD6		1979	B PASSWDXT	
				00AC2	1980	WRPW	EQU *	
000AC2	D204	91B7	B754	001B7	01754	1981	MVC DPASSWD,=C'WRITE'	Password needed for READ
000AC8	47F0	AAD6		00AD6		1982	B PASSWDXT	
				00ACC	1983	RWPW	EQU *	
000ACC	D204	91B7	B759	001B7	01759	1984	MVC DPASSWD,=C'R_W '	Password needed for READ/WRITE
000AD2	47F0	AAD6		00AD6		1985	B PASSWDXT	
				00AD6	1986	PASSWDXT	EQU *	
					1987	*	/* ***** */	
					1988	*	/* RACF Secured */	
					1989	*	/* #Data source: 15 SYSRACF */	
					1990	*	/* ***** */	
				00AD6	1991	*	/* ***** */	
					1992	RACF	EQU *	
000AD6	9140	9491		00491		1993	TM DS1DSIND,X'40'	RACF defined?
000ADA	4710	AAE8		00AE8		1994	BO RACFRQD	YES.
				00ADE	1995	RACFNONE	EQU *	
000ADE	D203	91BC	B6B0	001BC	016B0	1996	MVC DRACF,=C'NONE'	No RACF
000AE4	47F0	AAF2		00AF2		1997	B RACFXT	
				00AE8	1998	RACFRQD	EQU *	
000AE8	D203	91BC	B6B4	001BC	016B4	1999	MVC DRACF,=C'RACF'	We have RACF...
000AEE	47F0	AAF2		00AF2		2000	B RACFXT	
				00AF2	2001	RACFXT	EQU *	
					2002	*	/* ***** */	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2004	*	*/*****	
					2005	*	/* File Create Date X'yy0jjj'	
					2006	*	/* #Data source: 05 SYSCREATE	
					2007	*	/* #Data source: 31 SYSJCREATE	
					2008	*	/* #Data source: 37 SYSCCREATE	
					2009	*	/* - R6, R7 Working Register	
					2010	*	*/*****	
			00AF2		2011	CREDIT	EQU *	
000AF2	D207	916A	B77B	0016A	0177B	2012	MVC DCREDIT,ZEROCL11	Default date CCYY/JJJ LB1001b
000AF8	D200	916E	927A	0016E	0027A	2013	MVC DCREDIT+4(1),DATESEP	Date Separator value LB1001a
000AFE	D204	9172	B77B	00172	0177B	2014	MVC DCREDJ,ZEROCL11	Default date YYJJJ LB1001b
000B04	D20A	926F	B77B	0026F	0177B	2015	MVC DC#MDCY,ZEROCL11	Default date MM/DD/CCYY LB1001b
000B0A	4570	B26E		0126E		2016	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000B0E	D209	9177	927C	00177	0027C	2017	MVC DCREDC,DATEWA	LB1001b
000B14	D502	9469	B75E	00469	0175E	2018	CLC DS1CREDIT,=X'000000'	Zero date?
000B1A	4780	AB48		00B48		2019	BE CREDITXT	YES, done.
000B1E	4160	9469		00469		2020	LA R6,DS1CREDIT	Create Date
000B22	4570	B44C		0144C		2021	BAL R7,DATECONV	Convert date to CCYY/JJJJ
000B26	D203	916A	9276	0016A	00276	2022	MVC DCREDIT(4),DC#CCYY+1	CCYY -\ JulianCCYY
000B2C	D202	916F	926C	0016F	0026C	2023	MVC DCREDIT+5(3),DC#JJJ	JJJ +---- CCYY/JJJ
000B32	D201	9172	9278	00172	00278	2024	MVC DCREDJ(2),DC#CCYY+3	YY -\ MVS38J
000B38	D202	9174	926C	00174	0026C	2025	MVC DCREDJ+2(3),DC#JJJ	JJJ +---- YYJJJ
000B3E	4570	B26E		0126E		2026	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000B42	D209	9177	927C	00177	0027C	2027	MVC DCREDC,DATEWA	LB1001b
			00B48		2028	CREDITXT	EQU *	
					2029	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2031	*	*/*****	
					2032	*	/* File Expire Date X'yy0jjj'	
					2033	*	/* #Data source: 06 SYSEXDATE	
					2034	*	/* #Data source: 32 SYSJEXDATE	
					2035	*	/* #Data source: 38 SYSEXDATE	
					2036	*	/* - R6, R7 Working Register	
					2037	*	*/*****	
			00B48		2038	EXPDT	EQU *	
000B48	D207	9181	B77B	00181	0177B	2039	MVC DEXPDT,ZEROCL11	Default date CCYY/JJJ LB1001b
000B4E	D200	9185	927A	00185	0027A	2040	MVC DEXPDT+4(1),DATESEP	Date Separator value LB1001a
000B54	D204	9189	B77B	00189	0177B	2041	MVC DEXPDJ,ZEROCL11	Default date YYJJJ LB1001b
000B5A	D20A	926F	B77B	0026F	0177B	2042	MVC DC#MDCY,ZEROCL11	Default date MM/DD/CCYY LB1001b
000B60	4570	B26E		0126E		2043	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000B64	D209	918E	927C	0018E	0027C	2044	MVC DEXPDC,DATEWA	LB1001b
000B6A	D502	946C	B75E	0046C	0175E	2045	CLC DS1EXPDT,=X'000000'	Zero date?
000B70	4780	AB9E		00B9E		2046	BE EXPDXT	YES, done.
000B74	4160	946C		0046C		2047	LA R6,DS1EXPDT	Expire Date
000B78	4570	B44C		0144C		2048	BAL R7,DATECONV	Convert date to CCYY/JJJJ
000B7C	D203	9181	9276	00181	00276	2049	MVC DEXPDT(4),DC#CCYY+1	CCYY -\ JulianCCYY
000B82	D202	9186	926C	00186	0026C	2050	MVC DEXPDT+5(3),DC#JJJ	JJJ +---- CCYY/JJJ
000B88	D201	9189	9278	00189	00278	2051	MVC DEXPDJ(2),DC#CCYY+3	YY -\ MVS38J
000B8E	D202	918B	926C	0018B	0026C	2052	MVC DEXPDJ+2(3),DC#JJJ	JJJ +---- YYJJJ
000B94	4570	B26E		0126E		2053	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000B98	D209	918E	927C	0018E	0027C	2054	MVC DEXPDC,DATEWA	LB1001b
			00B9E		2055	EXPDTXT	EQU *	
					2056	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2058	*	*/*****	
					2059	*	/* File Reference Date X'yy0jjj'	
					2060	*	/* #Data source: 07 SYSREFDATE	
					2061	*	/* #Data source: 33 SYSJREFDATE	
					2062	*	/* #Data source: 39 SYSCREFDATE	
					2063	*	/* - R6, R7 Working Register	
					2064	*	*/*****	
			00B9E		2065	REFDT	EQU *	
000B9E	D207	9198	B77B	00198	0177B	2066	MVC DREFDT,ZEROCL11	Default date CCYY/JJJ LB1001b
000BA4	D200	919C	927A	0019C	0027A	2067	MVC DREFDT+4(1),DATESEP	Date Separator value LB1001a
000BAA	D204	91A0	B77B	001A0	0177B	2068	MVC DREFDJ,ZEROCL11	Default date YYJJJ LB1001b
000BB0	D20A	926F	B77B	0026F	0177B	2069	MVC DC#MDCY,ZEROCL11	Default date MM/DD/CCYY LB1001b
000BB6	4570	B26E		0126E		2070	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000BBA	D209	91A5	927C	001A5	0027C	2071	MVC DREFDC,DATEWA	LB1001b
000BC0	D502	947F	B75E	0047F	0175E	2072	CLC DS1REFD,=X'000000'	Zero date?
000BC6	4780	ABF4		00BF4		2073	BE REFDTXT	YES, done.
000BCA	4160	947F		0047F		2074	LA R6,DS1REFD	Referenced Date
000BCE	4570	B44C		0144C		2075	BAL R7,DATECONV	Convert date to CCYY/JJJJ
000BD2	D203	9198	9276	00198	00276	2076	MVC DREFDT(4),DC#CCYY+1	CCYY -\ JulianCCYY
000BD8	D202	919D	926C	0019D	0026C	2077	MVC DREFDT+5(3),DC#JJJ	JJJ +---- CCYY/JJJ
000BDE	D201	91A0	9278	001A0	00278	2078	MVC DREFDJ(2),DC#CCYY+3	YY -\ MVS38J
000BE4	D202	91A2	926C	001A2	0026C	2079	MVC DREFDJ+2(3),DC#JJJ	JJJ +---- YYJJJ
000BEA	4570	B26E		0126E		2080	BAL R7,DFMT	Format Date CCYY MM DD LB1001b
000BEE	D209	91A5	927C	001A5	0027C	2081	MVC DREFDC,DATEWA	LB1001b
			00BF4		2082	REFDTXT	EQU *	
					2083	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2085	*	*/*****	*/
					2086	*	/* Device Type	*/
					2087	*	/* For catalogued Datasets, use catalog unit type	*/
					2088	*	/* to determine device type	*/
					2089	*	/* For Uncatalogued Datasets, match VOLSER in UCB list	*/
					2090	*	/* to obtain unit type to determine device type	*/
					2091	*	/* #Data source: 22 SYSUNIT	*/
					2092	*	/* - R4, R2, R3, R5, R6 Working Registers	*/
					2093	*	*/*****	*/
			00BF4		2094	DEVTP	EQU *	
000BF4	95E8	9231	00231		2095		CLI DDSCAT,C'Y'	Dataset catalogued?
000BF8	4780	AC36	00C36		2096		BE GETDEVTY	YES, branch to GETDEVTY
					2097	*		NO, find unit type from VOLSER
					2098	*		using UCB
000BFC	5840	0010	00010		2099		L R4,CVTPTR	Address of CVT
				00000	2100		USING CVT,R4	
000C00	5820	4028	00028		2101		L R2,CVTILK2	Address of UCB Lookup table
				00000	2102		USING UCB,R3	
			00C04		2103	UCBSCAN	EQU *	
000C04	1B33				2104		SR R3,R3	Clear R3
000C06	4832	0000	00000		2105		LH R3,0(R2)	Point to UCB
000C0A	4122	0002	00002		2106		LA R2,2(R2)	Bump to next UCB entry
000C0E	1233				2107		LTR R3,R3	NULL?
000C10	4780	AC04	00C04		2108		BZ UCBSCAN	YES, get another
000C14	5530	B6B8	016B8		2109		CL R3,=X'0000FFFF'	End of UCB Table?
000C18	4780	AD1E	00D1E		2110		BE DEVTPXT	YES. Done.
000C1C	9180	3000	00000		2111		TM UCBJBNR,UCBVRDEV	VIO Device?
000C20	4710	AC04	00C04		2112		BO UCBSCAN	NO, re-scan
000C24	9180	3003	00003		2113		TM UCBSTAT,UCBONLI	Device ONLINE?
000C28	47E0	AC04	00C04		2114		BNO UCBSCAN	NO, re-scan
000C2C	D505	9152	301C 00152	0001C	2115		CLC DVOLSER,UCBVOLI	Is this the VOLUME?
000C32	4770	AC04	00C04		2116		BNE UCBSCAN	NO, re-scan
					2117	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2119	*	/* *****	/*
					2120	*	/* Find device type (e.g. 3350) given unit type	*/
					2121	*	/* using below table (DVCLST)	*/
					2122	*	/* -JMSG'DeviceType xxx not defined in table'	*/
					2123	*	/* - R4, R2, R3, R5, R6 Working Registers	*/
					2124	*	/* *****	/*
			00C36		2125	GETDEVTY	EQU *	YES, determine type!
000C36	4150	0010	00010		2126	LA	R5,DVCLST\$E	Load # of DVCLST entries
000C3A	4160	AC9E	00C9E		2127	LA	R6,DVCLST\$	Address of DVCLST entries
			00C3E		2128	LOOK4DT	EQU *	
000C3E	95E8	9231	00231		2129	CLI	DDSCAT,C'Y'	Dataset catalogued?
000C42	4780	AC54	00C54		2130	BE	LOOK4DT2	YES, check catlg device type
			00C46		2131	LOOK4DT1	EQU *	
					2132	**	CLC 19(1,R3),0(R6)	NO. UCB device type in table?
000C46	D500	3013	6000	00013	00000	2133	CLC UCBUNTYP,0(R6)	NO. UCB device type in table?
000C4C	4780	AC94	00C94		2134	BE	DEVFND	YES, found device in table
000C50	47F0	AC5E	00C5E		2135	B	LOOK4DT3	NO, check next one...
			00C54		2136	LOOK4DT2	EQU *	
000C54	D500	9355	6000	00355	00000	2137	CLC LOCAUNTY,0(R6)	Catlg device type in table?
000C5A	4780	AC94	00C94		2138	BE	DEVFND	YES, found device in table
			00C5E		2139	LOOK4DT3	EQU *	
000C5E	4166	0008	00008		2140	LA	R6,DVCLST\$(R6)	NO, point to next device entry
000C62	4650	AC3E	00C3E		2141	BCT	R5,LOOK4DT	Look at next entry
			00C66		2142	NODEVFND	EQU *	
					2143	*		Not defined, Error.
000C66	D222	909C	BF50	0009C	01F50	2144	MVC DJMSG(L'MSGJ025),MSGJ025	Move to &SYSLISTDSJMSG
000C6C	D209	909C	B714	0009C	01714	2145	MVC DJMSG(10),=C'DeviceType'	
000C72	D703	9298	9298	00298	00298	2146	XC FW,FW	
000C78	D200	929B	3013	0029B	00013	2147	MVC FW+3(1),19(R3)	
000C7E	58F0	9298		00298		2148	L R15,FW	
000C82	4EF0	9290		00290		2149	CVD R15,DW	Convert to decmial
000C86	F321	90A7	9296	000A7	00296	2150	UNPK DJMSG+11(3),DW+6(2)	Unpack and
000C8C	96F0	90A9		000A9		2151	OI DJMSG+13,X'F0'	... force and F zone
000C90	47F0	AD1E		00D1E		2152	B DEVTPXT	
			00C94		2153	DEVFND	EQU *	
000C94	D206	91D9	6001	001D9	00001	2154	MVC DUNIT,1(R6)	MOVE DEVTTYPE
000C9A	47F0	AD1E		00D1E		2155	B DEVTPXT	
					2156	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				2158 *	8 bytes / DVCLST Table-----	
				2159 *	per entry+ 01 bytes, device type code	
				2160 *	\ 07 bytes, Device Type	
				2161 *		
000C9E	006F6F5C5C5C6F6F			2162 DVCLST\$ DC	X'00',CL7'??**??'	
		00008		2163 DVCLST\$L EQU	*-DVCLST\$ Table Entry length	
000CA6	01F2F3F1F1404040			2164 DC	X'01',CL7'2311	
000CAE	02F2F3F0F1404040			2165 DC	X'02',CL7'2301	
000CB6	03F2F3F0F3404040			2166 DC	X'03',CL7'2303	
000CBE	04F9F3F4F5404040			2167 DC	X'04',CL7'9345	
000CC6	05F2F3F2F1404040			2168 DC	X'05',CL7'2321	
000CCE	06F2F3F0F560F140			2169 DC	X'06',CL7'2305-1	
000CD6	07F2F3F0F560F240			2170 DC	X'07',CL7'2305-2	
000CDE	08F2F3F1F4404040			2171 DC	X'08',CL7'2314	
000CE6	09F3F3F3F0404040			2172 DC	X'09',CL7'3330	
000CEE	0AF3F3F4F0404040			2173 DC	X'0A',CL7'3340	
000CF6	0BF3F3F5F0404040			2174 DC	X'0B',CL7'3350	
000CFE	0CF3F3F7F5404040			2175 DC	X'0C',CL7'3375	
000D06	0DF3F3F3F060F1F1			2176 DC	X'0D',CL7'3330-11	
000D0E	0EF3F3F8F0404040			2177 DC	X'0E',CL7'3380	
000D16	0FF3F3F9F0404040			2178 DC	X'0F',CL7'3390	
		00010		2179 DVCLST\$E EQU	(* -DVCLST\$)/DVCLST\$L Table Entries	
				2180 *		
		00D1E		2181 DEVTPXT EQU	*	
				2182 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2184	*	*/*****/	
					2185	*	/* PO Directory Information	*/
					2186	*	/* Allocate PDS	*/
					2187	*	/* -JMSG'RC=xxx Allocate PDS error'	*/
					2188	*	/* - R7, R2, R1 Working Register	*/
					2189	*	/* - R15 Working Register and RC exit code register	*/
					2190	*	*/*****/	
			00D1E		2191	PODDIR	EQU *	
			00D1E		2192	PODALLOC	EQU *	
000D1E	95E8	9309	00309		2193		CLI PDIR,C'Y'	PDS DIR Info requested?
000D22	4770	AFB0	00FB0		2194		BNE PODDIRXT	NO, bypass PDS Info
000D26	D501	9162	B71E	00162	0171E	2195	CLC DDSORG(2),=C'PO'	YES. Is file a PDS?
000D2C	4770	AFAA	00FAA		2196		BNE PODDIRNN	NO, bypass PDS Info w/ MSG
000D30	4570	B30E	0130E		2197		BAL R7,PDSALC	YES, allocate dataset
000D34	12FF				2198		LTR R15,R15	Successful?
000D36	4780	AD64	00D64		2199		BZ PODINFO	YES, get DIR information
					2200	*		NO, ERROR, cannot alloc PDS
000D3A	D218	909C	BEC0	0009C	01EC0	2201	MVC DJMSG(L'MSGJ017),MSGJ017	Move to &SYSLISTDSJMSG
000D40	4EF0	9290	00290		2202		CVD R15,DW	Convert to decimal
000D44	F321	909F	9296	0009F	00296	2203	UNPK DJMSG+3(3),DW+6(2)	Unpack and
000D4A	96F0	90A1	000A1		2204		OI DJMSG+5,X'F0'	... force and F zone
000D4E	D201	9100	B720	00100	01720	2205	MVC DRSCODE,=C'02'	Dynam Alloc error
000D54	D203	929C	B6BC	0029C	016BC	2206	MVC RCEXIT,=F'04'	
000D5A	D201	92CA	B722	002CA	01722	2207	MVC RC,=C'04'	
000D60	47F0	AFB0	00FB0		2208		B ENDME	Done, exit.
					2209	*		

2211	*	*	PDS DIR BLOCK STRUCTURE					
2212	*	*	+-----+ +-----+ +-----+-----+					
2213	*	*	Count	Key	Data			
2214	*	*	()	(8)	(256)			
2215	*	*	+-----+ +-----+ +-----+-----+					
2216	*	*						
2217	*	*	The KEY is an external key to the data block. It contains					
2218	*	*	the last member name in the block for search efficiency.					
2219	*	*						
2220	*	*	+-----+-----+-----+-----+					
2221	*	*	Data(256)					
2222	*	*	+-----+-----+-----+-----+					
2223	*	*	DIR Bytes	Member	Member	Member	Member	Unused
2224	*	*	Used (2)	Ent #1	Ent #2	Ent #3	Ent #n	
2225	*	*	+-----+-----+-----+-----+					
2226	*	*						
2227	*	*	+-----+-----+-----+-----+					
2228	*	*	Member Entry					
2229	*	*	+-----+-----+-----+-----+					
2230	*	*	Member	TTR	C	Optional User Data		
2231	*	*	Name (8)	(3)	(1)	(2-62)		
2232	*	*	+-----+-----+-----+-----+					
2233	*	*						
2234	*	*	PDS dir block is 256 bytes in length. First 2 bytes contains					
2235	*	*	a count field representing the number of bytes used INCLUDING					
2236	*	*	count field (2 bytes). The remaining 254 bytes contain					
2237	*	*	member entries.					
2238	*	*						
2239	*	*	Last member entry contains binary ones. All the directory					
2240	*	*	blocks that follow are unused. This is key when counting					
2241	*	*	used and unused blocks.					
2242	*	*						
2243	*	*	C in Member Entry:					
2244	*	*	Bit 0-0 0=Primary Name 1=Alias Name					
2245	*	*	Bit 1-2 Number of TTRN fields in the user data					
2246	*	*	Bit 3-7 Length of user data in HALFWORDS					
2247	*	*						
2248	*	*						

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2250 *	/* *****/	
					2251 *	/* PO Directory Information */	
					2252 *	/* Get DIR block and member count information */	
					2253 *	/* -JMSG'RC=xxx Open PDS error' */	
					2254 *	/* - R7, R0, R1. R2 Working Register */	
					2255 *	/* - R15 Working Register and RC exit code register */	
					2256 *	/* *****/	
			00D64		2257 PODINFO EQU *	Initialize FW counters	
000D64	D703	97BC	97BC	007BC	007BC	2258 XC PODBLKS,PODBLKS	Zero PDS DIR Blocks Count
000D6A	D703	97C0	97C0	007C0	007C0	2259 XC PODBLKSU,PODBLKSU	Zero PDS Used DIR Blocks Count
000D70	D703	97C4	97C4	007C4	007C4	2260 XC POMEMS,POMEMS	Zero PDS Member Count
000D76	D703	97C8	97C8	007C8	007C8	2261 XC POALIS,POALIS	Zero PDS Alias Count
					2262 *		
					2263 *	Init DIRDCBW from DIRDCB	
000D7C	4120	97CC		007CC		2264 LA R2,DIRDCBW	Addr of myDIRDCB
000D80	D257	2000	C058	00000	02058	2265 MVC 0(DIRDCBL,R2),DIRDCB	Init myDIRDCB with DIRDCB
000D86	D207	2028	97B0	00028	007B0	2266 MVC DDNAM(8,R2),DDNAME	Apply DDN from DAIR
000D8C	9280	9838		00838		2267 MVI PARMVL1,X'80'	Mark as last parm FW (VL=1)
					2268 PRINT GEN		
			00D90		2269 PODOPEN EQU *		
					2270 OPEN ((R2),INPUT),MF=(E,PARMVL1)	Open DIRDCBW execute form	
000D90	4110	9838		00838		2271+ LA 1,PARMVL1	LOAD PARAMETER REG 1 01900002
000D94	94F0	1000		00000		2272+ NI 0(1),X'F0'	CLEAR OPTION 1 BITS 03780001
000D98	43E1	0000		00000		2273+ IC 14,0(1,0)	SAVE OPTION BYTE 03440000
000D9C	5021	0000		00000		2274+ ST R2,0(1,0)	STORE INTO LIST 03620000
000DA0	42E1	0000		00000		2275+ STC 14,0(1,0)	RESTORE OPTION BYTE 03520001
000DA4	0A13					2276+ SVC 19	ISSUE OPEN SVC 04000000
000DA6	12FF					2277 LTR R15,R15	Successful?
000DA8	4780	ADD6		00DD6		2278 BZ PODCONT0	YES, continue...
					2279 *		NO, ERROR, cannot open PDS
000DAC	D214	909C	BF9D	0009C	01F9D	2280 MVC DJMSG(L'MSGJ030),MSGJ030	Move to &SYSLISTDSJMSG
000DB2	4EF0	9290		00290		2281 CVD R15,DW	Convert to decimal
000DB6	F321	909F	9296	0009F	00296	2282 UNPK DJMSG+3(3),DW+6(2)	Unpack and
000DBC	96F0	90A1		000A1		2283 OI DJMSG+5,X'F0'	... force and F zone
000DC0	D201	9100	B724	00100	01724	2284 MVC DRSNCODE,=C'13'	Cannot open file error
000DC6	D203	929C	B6BC	0029C	016BC	2285 MVC RCEXIT,=F'04'	
000DCC	D201	92CA	B722	002CA	01722	2286 MVC RC,=C'04'	
000DD2	47F0	AFB0		00FB0		2287 B ENDME	Done, exit.
					2288 *		
			00DD6		2289 PODCONT0 EQU *		
					2290 *	Init DIRDECBW from DIRDECB	
000DD6	D213	9824	C0B0	00824	020B0	2291 MVC DIRDECBW(DIRDECBL),DIRDECB	
000DDC	9200	97B8		007B8		2292 MVI DIRSW,0	Set to Initial value
					2293 *	DIRSW=0 Initial, process used blocks	
					2294 *	DIRSW=1 Used Blocks elapsed, process unused blocks	
					2295 *	DIRSW=2 IO Error	
			00DE0		2296 PODREAD EQU *	Read DIR Block	
					2297 READ DIRDECBW,SF,(R2),BLOCK,256,MF=E	READ Execute form	
000DE0	4110	9824		00824		2298+ LA 1,DIRDECBW	LOAD DECB ADDRESS 01260000
000DE4	9280	1005		00005		2299+ MVI 5(1),X'80'	SET TYPE FIELD 01420019
000DE8	5021	0008		00008		2300+ ST R2,8(1,0)	STORE DCB ADDRESS 01540000
000DEC	41E0	96B0		006B0		2301+ LA 14,BLOCK	LOAD AREA ADDRESS 01600000
000DF0	50E1	000C		0000C		2302+ ST 14,12(1,0)	STORE AREA ADDRESS 01620000
000DF4	9200	1004		00004		2303+ MVI 4(1),X'00'	SET TYPE FIELD 01760000
000DF8	41E0	0100		00100		2304+ LA 14,256(0,0)	LOAD LENGTH 01900000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000DFC	40E1	0006	00006		2305+	STH	14,6(1,0)	STORE LENGTH 01920000
000E00	58F1	0008	00008		2306+	L	15,8(1,0)	LOAD DCB ADDRESS 02091503
000E04	58F0	F030	00030		2307+	L	15,48(0,15)	LOAD RDWR ROUTINE ADDR 02097203
000E08	05EF				2308+	BALR	14,15	LINK TO RDWR ROUTINE 02102903
					2309	CHECK	DIRDECBW	
000E0A	4110	9824	00824		2310+	LA	1,DIRDECBW	LOAD PARAMETER REG 1 01900002
000E0E	58E0	1008	00008		2311+	L	14,8(0,1)	PICK UP DCB ADDR 00700000
000E12	58F0	E034	00034		2312+	L	15,52(0,14)	LOAD CHECK ROUTINE ADDR 00750000
000E16	05EF				2313+	BALR	14,15	LINK TO CHECK ROUTINE 00800000
000E18	9102	97B8	007B8		2314	TM	DIRSW,2	I/O Error?
000E1C	4710	AECE	00ECE		2315	BO	PODERR	YES, report and exit
					2316 *			
			00E20		2317	PODBLKSC	EQU *	Count DIR Blocks
000E20	5810	97BC	007BC		2318	L	R1,PODBLKS	R1=PODBLKS
000E24	4111	0001	00001		2319	LA	R1,1(R1)	Add 1 to PODBLS
000E28	5010	97BC	007BC		2320	ST	R1,PODBLKS	Save PODBLS count
000E2C	9101	97B8	007B8		2321	TM	DIRSW,1	Past USED blocks?
000E30	4710	ADE0	00DE0		2322	BO	PODREAD	YES, read another block
000E34	4110	96B0	006B0		2323	LA	R1,BLOCK	NO, R1=Addr of BLOCK
000E38	4800	1000	00000		2324	LH	R0,0(,R1)	R0=Bytes in use
000E3C	1A01				2325	AR	R0,R1	R0=Addr past last entry
000E3E	4110	1002	00002		2326	LA	R1,2(,R1)	R1=Addr of first member in block
					2327 *			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
				00E42	2329	PODENTRY	EQU *	USED and UNUSED DIR BLK Test	
000E42	D507	1000	B690	00000	01690	2330	CLC 0(8,R1),=8X'FF'	Last member in DIR BLK?	
000E48	4780	AE8C		00E8C	2331	BE	PODUSED	YES, mark End of USED BLKS and read	
					2332	*		NO, test for ALIAS or MEMBER entry	
000E4C	9180	100B		0000B	2333	TM	11(R1),X'80'	ALIAS?	
000E50	4710	AE64		00E64	2334	BO	PODALIAS	YES, branch to PODALIAS	
					2335	*		NO, count MEMBER type	
				00E54	2336	PODMEMBR	EQU *	Member Count	
000E54	5830	97C4		007C4	2337	L	R3,POMEMS	R3=POMEMS	
000E58	4133	0001		00001	2338	LA	R3,1(R3)	Add 1 to POMEMS	
000E5C	5030	97C4		007C4	2339	ST	R3,POMEMS	Save member count	
000E60	47F0	AE70		00E70	2340	B	PODNEXT	Branch to next DIR entry	
					2341	*			
				00E64	2342	PODALIAS	EQU *	Alias Member Count	
000E64	5830	97C8		007C8	2343	L	R3,POALIS	R3=POALIS	
000E68	4133	0001		00001	2344	LA	R3,1(R3)	Add 1 to POALIS	
000E6C	5030	97C8		007C8	2345	ST	R3,POALIS	Save POALIS count	
					2346	*			
				00E70	2347	PODNEXT	EQU *	Get next DIR ENTRY	
000E70	1F33				2348	SLR	R3,R3	Clear R3	
000E72	4330	100B		0000B	2349	IC	R3,11(,R1)	Load C (Control Info)	
000E76	5430	B6C0		016C0	2350	N	R3,=F'31'	All BITS OFF except bits 3-7	
000E7A	8930	0001		00001	2351	SLL	R3,1	Multiply by 2; HALFWORDS to bytes	
000E7E	4113	100C		0000C	2352	LA	R1,12(R3,R1)	Point past user data...	
000E82	1910				2353	CR	R1,R0	End of DIR block?	
000E84	4740	AE42		00E42	2354	BL	PODENTRY	NO, process next entry	
000E88	47F0	ADE0		00DE0	2355	B	PODREAD	YES, read next block	
					2356	*			
000E8C	9601	97B8		007B8	2357	PODUSED	OI DIRSW,1	Passed Used blocks...	
000E90	D203	97C0	97BC	007C0	007BC	2358	MVC	PODBLKSU,PODBLKS	Store Used Blocks count
000E96	47F0	ADE0		00DE0	2359	B	PODREAD	Read next block	
					2360	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				00E9A	2362	PODSYN	EQU *	IO ERROR from reading PDS DIR
					2363		SYNADAF ACSMETH=BSAM	Obtain msg/err code for I/O error
000E9A	41F0	F000	00000		2364+		LA 15,0(0,15)	ZERO HIGH ORDER BYTE 15138 31200016
000E9E	0700				2365+		CNOP 0,4	15138 32000016
000EA0	56F0	AEA8	00EA8		2366+		0 15,*+8	SET ACCESS METHOD IN REG. 15 33000013
000EA4	47F0	AEAC	00EAC		2367+		BC 15,*+8	BRANCH AROUND LIST 34000013
000EA8	02				2368+		DC AL1(2)	ACCESS METHOD CODE 35000013
000EA9	000000				2369+		DC AL3(0)	36000013
000EAC	0A44				2370+		SVC 68	ISSUE SVC 51000013
000EAE	D24D	909C	102C	0009C	0002C	2371	MVC DJMSG(78),44(R1)	Move to &SYSLISTDSJMSG
000EB4	9602	97B8		007B8	2372		OI DIRSW,2	I/O error setting
					2373		SYNADRLS	Release msg buff/saveareas -SYNADAF
000EB8	41F0	F000	00000		2374+		LA 15,0(0,15)	ZERO HIGH ORDER BYTE 27000013
000EBC					2375+		CNOP 0,4	36000013
000EBC	56F0	AEC4	00EC4		2376+		0 15,*+8	SET RELEASE CODE 45000013
000EC0	47F0	AEC8	00EC8		2377+		B *+8	BRANCH AROUND CODE 54000019
000EC4	FF000000				2378+		DC X'FF000000'	RELEASE CODE 63000013
000EC8	0A44				2379+		SVC 68	ISSUE SVC 72000013
000ECA	47F0	AF14		00F14	2380		B PODCNTS	Go Unpack DIR INFO and FREE PDS
				00ECE	2382	PODERR	EQU *	SYNADAF Error
					2383	*		Message already in DJMSG
000ECE	47F0	AF14		00F14	2384		B PODCNTS	Go Unpack DIR INFO and FREE PDS
				00ED2	2386	PODEOF	EQU *	End of File Detected (DCB)
					2387		CLOSE ((R2)),MF=(E,PARMVL1)	Close PDS execute form
000ED2	4110	9838	00838		2388+		LA 1,PARMVL1	LOAD PARAMETER REG 1 01900002
000ED6	43E1	0000	00000		2389+		IC 14,0(1,0)	SAVE OPTION BYTE 01140000
000EDA	5021	0000	00000		2390+		ST R2,0(1,0)	STORE DCB ADDR IN LIST 01320000
000EDE	42E1	0000	00000		2391+		STC 14,0(1,0)	RESTORE OPTION BYTE 01340000
000EE2	0A14				2392+		SVC 20	ISSUE CLOSE SVC 01640000
000EE4	12FF				2393		LTR R15,R15	Successful?
000EE6	4780	AF14		00F14	2394		BZ PODCONT9	YES, continue...
					2395	*		NO, ERROR, cannot close PDS
000EEA	D215	909C	BFB2	0009C	01FB2	2396	MVC DJMSG(L'MSGJ031),MSGJ031	Move to &SYSLISTDSJMSG
000EF0	4EF0	9290	00290		2397		CVD R15,DW	Convert to decimal
000EF4	F321	909F	9296	0009F	00296	2398	UNPK DJMSG+3(3),DW+6(2)	Unpack and
000EFA	96F0	90A1	000A1		2399		OI DJMSG+5,X'F0'	... force and F zone
000EFE	D201	9100	B724	00100	01724	2400	MVC DRSNCODE,=C'13'	Cannot close file error
000F04	D203	929C	B6BC	0029C	016BC	2401	MVC RCEXIT,=F'04'	
000F0A	D201	92CA	B722	002CA	01722	2402	MVC RC,=C'04'	
000F10	47F0	AFB0		00FB0	2403		B ENDME	Done, exit.
					2404		PRINT NOGEN	
				00F14	2405	*		
					2406	PODCONT9	EQU *	
					2407	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2409 *	/* *****/	
					2410 *	/* PO Directory Information */	
					2411 *	/* Save block and member information */	
					2412 *	/* - R3, R7 Working Register */	
					2413 *	/* *****/	
			00F14		2414 PODCNTS EQU *		
					2415 *	/* #Data source: 16 SYSADIRBLK */	
000F14	5830	97BC	007BC		2416	L R3,PODBLKS DIR Blocks	
000F18	4E30	9290	00290		2417	CVD R3,DW convert to decimal	
000F1C	F342	9218	9295 00218	00295	2418	UNPK DDBLKS,DW+5(3) Unpack and	
000F22	96F0	921C	0021C		2419	OI DDBLKS+4,X'F0' ... force F zone	
					2420 *		
					2421 *	/* #Data source: 17 SYSUDIRBLK */	
000F26	5830	97C0	007C0		2422	L R3,PODBLKSU DIR Blocks Used	
000F2A	4E30	9290	00290		2423	CVD R3,DW convert to decimal	
000F2E	F342	921D	9295 0021D	00295	2424	UNPK DDIRBKSU,DW+5(3) Unpack and	
000F34	96F0	9221	00221		2425	OI DDIRBKSU+4,X'F0' ... force F zone	
					2426 *		
					2427 *	/* #Data source: 18 SYSNUDIRBLK */	
000F38	5830	97BC	007BC		2428	L R3,PODBLKS DIR Blocks Unused (calculate)	
000F3C	5B30	97C0	007C0		2429	S R3,PODBLKSU	
000F40	4E30	9290	00290		2430	CVD R3,DW convert to decimal	
000F44	F342	9222	9295 00222	00295	2431	UNPK DDIRBKSN,DW+5(3) Unpack and	
000F4A	96F0	9226	00226		2432	OI DDIRBKSN+4,X'F0' ... force F zone	
					2433 *		
					2434 *	/* #Data source: 19 SYSMEMBERS */	
000F4E	5830	97C4	007C4		2435	L R3,POMEMS PDS POMEMS	
000F52	5A30	97C8	007C8		2436	A R3,POALIS plus PDS Aliases	
000F56	4E30	9290	00290		2437	CVD R3,DW convert to decimal	
000F5A	F342	9227	9295 00227	00295	2438	UNPK DMEMBERS,DW+5(3) Unpack and	
000F60	96F0	922B	0022B		2439	OI DMEMBERS+4,X'F0' ... force F zone	
					2440 *		
					2441 *	/* #Data source: 20 SYSMEMBERSALIAS */	
000F64	5830	97C8	007C8		2442	L R3,POALIS PDS Aliases	
000F68	4E30	9290	00290		2443	CVD R3,DW convert to decimal	
000F6C	F342	922C	9295 0022C	00295	2444	UNPK DALIASES,DW+5(3) Unpack and	
000F72	96F0	9230	00230		2445	OI DALIASES+4,X'F0' ... force F zone	
					2446 *		
			00F76		2447 PODX EQU *		
					2448 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
					2450	*	*/*****	*/	
					2451	*	/* PDS Directory Information	*/	
					2452	*	/* Free PDS	*/	
					2453	*	/* -JMSG'RC=xxx Free PDS error'	*/	
					2454	*	/* - R7 Working Register	*/	
					2455	*	/* - R15 Working Register and RC exit code register	*/	
					2456	*	*/*****	*/	
000F76	4570	B36C	0136C	00F76	2457	PDSUNALC	EQU *		
000F7A	12FF				2458	BAL	R7,PDSFRE	FREE dataset	
000F7C	4780	AFB0	00FB0		2459	LTR	R15,R15	Successful?	
					2460	BZ	PODDIRXT	YES, Done.	
					2461	*		NO, cannot FREE PDS	
000F80	D214	909C	BED9	0009C	01ED9	2462	MVC	DJMSG(L'MSGJ018),MSGJ018 Move to &SYSLISTDSJMSG	
000F86	4EF0	9290		00290	2463	CVD	R15,DW	Convert to decimal	
000F8A	F321	909F	9296	0009F	00296	2464	UNPK	DJMSG+3(3),DW+6(2) Unpack and	
000F90	96F0	90A1		000A1	2465	OI	DJMSG+5,X'F0'	... force and F zone	
000F94	D201	9100	B720	00100	01720	2466	MVC	DRSNCODE,=C'02'	Dynam Alloc error
000F9A	D203	929C	B6BC	0029C	016BC	2467	MVC	RCEXIT,=F'04'	
000FA0	D201	92CA	B722	002CA	01722	2468	MVC	RC,=C'04'	
000FA6	47F0	AFB0	00FB0		2469	B	ENDME	Done, exit.	
				00FAA	2471	PODDIRNN	EQU *	DIR option not valid	
000FAA	D21C	909C	BEA3	0009C	01EA3	2472	MVC	DJMSG(L'MSGJ015),MSGJ015 Move to &SYSLISTDSJMSG	
				00FB0	2474	PODDIRXT	EQU *		
					2475	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM
					2477	*	/* ***** */	0201 17.21 05/18/19
					2478	*	/* Pre-exit Processing */	
					2479	*	/* - Create symbolic variables, FREEMAIN, and */	
					2480	*	/* return to caller */	
					2481	*	/* - R5, R7, R3, R4, R9 Working Register */	
					2482	*	/* ***** */	
000FB0					2483	ENDME	DS 0H Pre-exit processing	
					2484	*		
					2485	*	/-----/	
					2486	*	/* Create Symbolic Variables */	
					2487	*	/-----/	
			00FB0		2488	CR8SYMS	EQU * Get DMSGL2 text and length	
000FB0	4570	B3DC	013DC		2489	BAL	R7,SETML2	
000FB4	D203	92C4	92C0	002C4	2490	MVC	DMSGL2L,DMSGL1L	
					2491	*	/* #Data source: 03 SYMSGLVL1 */	
000FBA	D227	912A	9102	0012A	2492	MVC	DMSGL2,DMSGL1	
					2493	*	/* #Data source: 04 SYMSGLVL2 via SETML1 subrtn */	
000FC0	4570	B3C6	013C6		2494	BAL	R7,SETML1 Get DMSGL1 text and length	
000FC4	F810	92CC	B761	002CC	2495	ZAP	SNN,=P'+0' Initialize Snn to 000	
000FCA	4130	002E	0002E		2496	LA	R3,S#@NUM Number of Symbolic Variables	
000FCE	4140	B970	01970		2497	LA	R4,S#@ Start addr of Sym Var meta table	
					2498	*	/-----/	
					2499	*	/* Loop through symbol parm table */	
					2500	*	/-----/	
			00FD2		2501	S#@VAR	EQU * PNL action for Snn vars?	
000FD2	95E8	930A	0030A		2502	CLI	PPNL,C'Y'	
000FD6	4770	B002	01002		2503	BNE	S#@VARLN NO, use Long Symbolic Names	
			00FDA		2504	S#@VARSN	EQU * YES, use Short Symbolic Names	
000FDA	F321	92D1	92CC	002D1	2505	UNPK	SNNUPK,SNN Unpack seq number 3 digits	
000FE0	96F0	92D3	002D3		2506	OI	SNNUPK+2,X'F0' ... force an F zone	
000FE4	92E2	92CE	002CE		2507	MVI	SNNC,C'S' Panel Symbols are format 'Snn'	
000FE8	D201	92CF	92D2	002CF	2508	MVC	SNNC+1(2),SNNUPK+1 Move right-most 2 digits	
000FEE	4150	92CE	002CE		2509	LA	R5,SNNC Set Var Name Address	
000FF2	5050	9060	00060		2510	ST	R5,NAMP1	
000FF6	4150	0003	00003		2511	LA	R5,3 Set Var Name Length	
000FFA	5050	9064	00064		2512	ST	R5,NAML1	
000FFE	47F0	B00E	0100E		2513	B	S#@VARC Branch to ...	
			01002		2514	S#@VARLN	EQU * Long Symbolic Names	
001002	D203	9060	4000	00060	2515	MVC	NAMP1,0(R4) Set Var Name Address	
001008	D203	9064	4004	00064	2516	MVC	NAML1,4(R4) Set Var Name Length	
					2517	*		
			0100E		2518	S#@VARC	EQU * Continue...	
00100E	4854	0008	00008		2519	LH	R5,8(R4) Load Base-Displacement HW	
001012	4B50	B726	01726		2520	SH	R5,=X'9000' Subtract Base from S-adcon	
001016	1A59				2521	AR	R5,R9 Add Base R9 to displacement R5	
001018	5050	9068	00068		2522	ST	R5,VALP1 Set Var Value Address	
					2523	*		
00101C	F910	92CC	B762	002CC	2524	CP	SNN,=P'+3' Custom MSG1?	
001022	4780	B034	01034		2525	BE	MSG1 YES.	
001026	F910	92CC	B763	002CC	2526	CP	SNN,=P'+4' Custom MSG2?	
00102C	4780	B03C	0103C		2527	BE	MSG2 YES.	
001030	47F0	B048	01048		2528	B	OTHR Normal	
					2529	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				01034	2531	MSGL1	EQU *	Custom MSGL1
001034	5850	92C0	002C0		2532		L R5,DMSGL1L	
001038	47F0	B040	01040		2533		B MSG LX	
				0103C	2534	MSGL2	EQU *	Custom MSGL2
00103C	5850	92C4	002C4		2535		L R5,DMSGL2L	
				01040	2536	MSG LX	EQU *	Custom common
001040	5050	906C	0006C		2537		ST R5,VALL1	
001044	47F0	B04E	0104E		2538		B CONTZ	
				01048	2539	OTHR	EQU *	Normal
001048	D203	906C	400C	0006C	2540		MVC VALL1,12(R4)	Set Var Value Length
					2541	*		
				0104E	2542	CONTZ	EQU *	Continue...
00104E	4550	B524	01524		2543		BAL R5,SETVAR	Set Variable via IKJCT441
001052	4144	0010	00010		2544		LA R4,16(R4)	Bump to next Sym Var meta entry
001056	FA10	92CC	B764	002CC	2545		AP SNN,=P'+1'	Increment seq no
00105C	4630	AFD2	00FD2		2546		BCT R3,S#@VAR	
				01060	2547	S#@VARXT	EQU *	
					2548	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				01060	2550	MYEXIT	EQU *	
					2551	*	/* ***** */	
					2552	*	/* - Restore savearea, FREEMAIN, and	
					2553	*	/* return to caller	
					2554	*	/* ***** */	
					2555	*		
					2556	*	/* ----- */	
					2557	*	/* R1 = my Working Storage Address from GETMAIN	
					2558	*	/* ***** */	
001060	181D				2559		LR R1,R13 Working Storage Addr	
					2560	*		
					2561	*	/* ----- */	
					2562	*	/* Get callers savearea into R13 and overlay my R15	
					2563	*	/* to be returned to caller	
					2564	*	/* ----- */	
001062	58D0	9004	00004		2565		L R13,SAVEAREA+4 Restore R13	
001066	D203	9010	929C	00010	0029C	2566	MVC SAVEAREA+16(4),RCEXIT Set R15 to my exit value	
					2567	*		
					2568	*	/* ----- */	
					2569	*	/* Working Storage FREEMAIN	
					2570	*	/* ----- */	
00106C	4100	0864	00864		2571		LA R0,WSAREAL Size of WSAREA DSECT	
					2572		FREEMAIN R, LV=(R0),A=(R1) Free Storage	
					2577	*		
					2578	*	/* ----- */	
					2579	*	/* Restore caller registers and return to caller	
					2580	*	/* ----- */	
					2581	****	LM R14,R12,12(R13) Restore R14 thru R12	
001078	58ED	000C	0000C		2582		L R14,12(R13) Restore R14	
00107C	58F0	9010	00010		2583		L R15,SAVEAREA+16 R15 = RC for exit	
001080	980C	D014	00014		2584		LM R0,R12,20(R13) Restore R0 thru R12	
001084	07FE				2585		BR R14 Return to caller	
					2586	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2588	*	*/*****	
					2589	*	/* Error Setting	
					2590	*	/* - R15 Working Register and RC exit code register	
					2591	*	*/*****	
				01086	2592	CAMRCERR	EQU *	
001086	59F0	B6C4	016C4		2593		C R15,=F'4'	RC = 4?
00108A	4780	B0B4	010B4		2594		BE CAMR04	YES.
00108E	59F0	B6C8	016C8		2595		C R15,=F'8'	RC = 8?
001092	4780	B0CA	010CA		2596		BE CAMR08	YES.
001096	59F0	B6CC	016CC		2597		C R15,=F'12'	RC = 12?
00109A	4780	B0E0	010E0		2598		BE CAMR12	YES.
					2599	*		NO, must be catalog error
00109E	D201	9100	B728	00100	01728	2600	MVC DRSNCODE,=C'21'	Catalog error, obtain err rc=8,12,16
0010A4	D203	929C	B6A8	0029C	016A8	2601	MVC RCEXIT,=F'16'	
0010AA	D201	92CA	B6FC	002CA	016FC	2602	MVC RC,=C'16'	
0010B0	47F0	AFB0	00FB0		2603	B	ENDME	Done, exit.
				010B4	2604	CAMR04	EQU *	
0010B4	D201	9100	B72A	00100	0172A	2605	MVC DRSNCODE,=C'22'	Volume not mounted
0010BA	D203	929C	B6A8	0029C	016A8	2606	MVC RCEXIT,=F'16'	
0010C0	D201	92CA	B6FC	002CA	016FC	2607	MVC RC,=C'16'	
0010C6	47F0	AFB0	00FB0		2608	B	ENDME	Done, exit.
				010CA	2609	CAMR08	EQU *	
0010CA	D201	9100	B72C	00100	0172C	2610	MVC DRSNCODE,=C'24'	Dataset not found
0010D0	D203	929C	B6A8	0029C	016A8	2611	MVC RCEXIT,=F'16'	
0010D6	D201	92CA	B6FC	002CA	016FC	2612	MVC RC,=C'16'	
0010DC	47F0	AFB0	00FB0		2613	B	ENDME	Done, exit.
				010E0	2614	CAMR12	EQU *	
0010E0	D201	9100	B72E	00100	0172E	2615	MVC DRSNCODE,=C'23'	Permanent I/O error
0010E6	D203	929C	B6A8	0029C	016A8	2616	MVC RCEXIT,=F'16'	
0010EC	D201	92CA	B6FC	002CA	016FC	2617	MVC RC,=C'16'	
0010F2	47F0	AFB0	00FB0		2618	B	ENDME	Done, exit.
					2619	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				010F6	2621	ERR4004	EQU *	
0010F6	D203	929C	B6D0	0029C	016D0	2622	MVC RCEXIT,=F'4004'	PARAM not supplied
0010FC	4570	B2EC		012EC	2623	BAL R7,PREFXMSG		Prefix start of message
001100	D210	90AB	BE42	000AB	01E42	2624	MVC DJMSG+15(MSG4004L),MSG4004	Move to &SYSLISTDSJMSG
					2625	TPUT DJMSG,MSG4004L+15		
001120	47F0	B258		01258	2636	B RSN29		
				01124	2637	ERR4005	EQU *	
001124	D203	929C	B6D4	0029C	016D4	2638	MVC RCEXIT,=F'4005'	PARAM not supplied R1
00112A	4570	B2EC		012EC	2639	BAL R7,PREFXMSG		Prefix start of message
00112E	D210	90AB	BE42	000AB	01E42	2640	MVC DJMSG+15(MSG4004L),MSG4004	Move to &SYSLISTDSJMSG
					2641	TPUT DJMSG,MSG4004L+15		
00114C	47F0	B258		01258	2652	B RSN29		
				01150	2653	ERR4008	EQU *	
001150	D203	929C	B6D8	0029C	016D8	2654	MVC RCEXIT,=F'4008'	CPPL error no variables
001156	4570	B2EC		012EC	2655	BAL R7,PREFXMSG		Prefix start of message
00115A	D210	90AB	BE53	000AB	01E53	2656	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2657	TPUT DJMSG,MSG4009L+15		
001178	47F0	B258		01258	2668	B RSN29		
				0117C	2669	ERR4009	EQU *	
00117C	D203	929C	B6DC	0029C	016DC	2670	MVC RCEXIT,=F'4009'	CPPL error no variables ZERO
001182	4570	B2EC		012EC	2671	BAL R7,PREFXMSG		Prefix start of message
001186	D210	90AB	BE53	000AB	01E53	2672	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2673	TPUT DJMSG,MSG4009L+15		
0011A4	47F0	B258		01258	2684	B RSN29		
				011A8	2685	ERR4010	EQU *	
0011A8	D203	929C	B6E0	0029C	016E0	2686	MVC RCEXIT,=F'4010'	CPPL error no variables NEGATIVE
0011AE	4570	B2EC		012EC	2687	BAL R7,PREFXMSG		Prefix start of message
0011B2	D210	90AB	BE53	000AB	01E53	2688	MVC DJMSG+15(MSG4009L),MSG4009	Move to &SYSLISTDSJMSG
					2689	TPUT DJMSG,MSG4009L+15		
0011D0	47F0	B258		01258	2700	B RSN29		
				011D4	2701	ERR4097	EQU *	
0011D4	D203	929C	B6E4	0029C	016E4	2702	MVC RCEXIT,=F'4097'	IKJDAIR not found, link error
0011DA	4570	B2EC		012EC	2703	BAL R7,PREFXMSG		Prefix start of message
0011DE	D215	90AB	BE64	000AB	01E64	2704	MVC DJMSG+15(MSG4097L),MSG4097	Move to &SYSLISTDSJMSG
					2705	TPUT DJMSG,MSG4097L+15		
0011FC	47F0	B060		01060	2716	B MYEXIT		
				01200	2717	ERR4098	EQU *	
001200	D203	929C	B6E8	0029C	016E8	2718	MVC RCEXIT,=F'4098'	IKJCT441 not found, link error
001206	4570	B2EC		012EC	2719	BAL R7,PREFXMSG		Prefix start of message
00120A	D216	90AB	BE7A	000AB	01E7A	2720	MVC DJMSG+15(MSG4098L),MSG4098	Move to &SYSLISTDSJMSG
					2721	TPUT DJMSG,MSG4098L+15		
001228	47F0	B060		01060	2732	B MYEXIT		
				0122C	2733	ERR4099	EQU *	
00122C	D203	929C	B6EC	0029C	016EC	2734	MVC RCEXIT,=F'4099'	Program requires TSO
001232	4570	B2EC		012EC	2735	BAL R7,PREFXMSG		Prefix start of message
001236	D211	90AB	BE91	000AB	01E91	2736	MVC DJMSG+15(MSG4099L),MSG4099	Move to &SYSLISTDSJMSG
					2737	TPUT DJMSG,MSG4099L+15		
001254	47F0	B060		01060	2748	B MYEXIT		
				01258	2749	RSN29	EQU *	
001258	D201	9100	B730	00100	01730	2750	MVC DRSNCODE,=C'29'	DSN/DD must be specified
00125E	D203	929C	B6A8	0029C	016A8	2751	MVC RCEXIT,=F'16'	
001264	D201	92CA	B6FC	002CA	016FC	2752	MVC RC,=C'16'	
00126A	47F0	AFB0		00FB0	2753	B ENDME		Done, exit.
					2754	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2756 *	/* *****/	LB1001b
					2757 *	/* Subroutine - Format Date Layout (R7) */	LB1001b
					2758 *	/* DF(1) use date format MM_DD_CCYY */	LB1001b
					2759 *	/* DF(2) use date format DD_MM_CCYY */	LB1001b
					2760 *	/* DF(3) use date format YYYY_MM_DD DEFAULT */	LB1001b
					2761 *	/* DF(4) use date format YYYY_DD_MM */	LB1001b
					2762 *	/* *****/	LB1001b
					2763 *	/* *****/	LB1001b
			0126E		2764 DFMT	EQU *	LB1001b
00126E	95F2	927B	0027B		2765	CLI DATEFMT,C'2' DF(2)?	LB1001b
001272	4720	B2B0	012B0		2766	BH DFMT3 DF(3) or DF(4)	LB1001b
			01276		2767 DFMT1	EQU * DF(1) or DF(2)	LB1001b
001276	D200	927E	927A	0027E	0027A	2768 MVC DATEWA+2(1),DATESEP Date Separator value	LB1001b
00127C	D200	9281	927A	00281	0027A	2769 MVC DATEWA+5(1),DATESEP Date Separator value	LB1001b
001282	D203	9282	9276	00282	00276	2770 MVC DATEWA+6(4),DC#CCYY+1 CCYY	LB1001b
001288	95F2	927B		0027B		2771 CLI DATEFMT,C'2' DF(2)?	LB1001b
00128C	4780	B2A0		012A0		2772 BE DFMT2 YES.	LB1001b
			01290		2773 XFMT1	EQU * DF(1) MM_DD_CCYY	LB1001b
001290	D201	927C	9270	0027C	00270	2774 MVC DATEWA+0(2),DC#MM+1 MM	LB1001b
001296	D201	927F	9273	0027F	00273	2775 MVC DATEWA+3(2),DC#DD+1 DD	LB1001b
00129C	47F0	B2EA		012EA		2776 B DFMTXT	LB1001b
			012A0		2777 DFMT2	EQU * DF(2) DD_MM_CCYY	LB1001b
0012A0	D201	927C	9273	0027C	00273	2778 MVC DATEWA+0(2),DC#DD+1 DD	LB1001b
0012A6	D201	927F	9270	0027F	00270	2779 MVC DATEWA+3(2),DC#MM+1 MM	LB1001b
0012AC	47F0	B2EA		012EA		2780 B DFMTXT	LB1001b
			012B0		2781 DFMT3	EQU * DF(3) or DF(4)	LB1001b
0012B0	D200	9280	927A	00280	0027A	2782 MVC DATEWA+4(1),DATESEP Date Separator value	LB1001b
0012B6	D200	9283	927A	00283	0027A	2783 MVC DATEWA+7(1),DATESEP Date Separator value	LB1001b
0012BC	D203	927C	9276	0027C	00276	2784 MVC DATEWA+0(4),DC#CCYY+1 CCYY	LB1001b
0012C2	95F4	927B		0027B		2785 CLI DATEFMT,C'4' DF(4)?	LB1001b
0012C6	4780	B2DA		012DA		2786 BE DFMT4 YES.	LB1001b
			012CA		2787 XFMT3	EQU * DF(3) CCYY_MM_DD	LB1001b
0012CA	D201	9281	9270	00281	00270	2788 MVC DATEWA+5(2),DC#MM+1 MM	LB1001b
0012D0	D201	9284	9273	00284	00273	2789 MVC DATEWA+8(2),DC#DD+1 DD	LB1001b
0012D6	47F0	B2EA		012EA		2790 B DFMTXT	LB1001b
			012DA		2791 DFMT4	EQU * DF(4) CCYY_DD_MM	LB1001b
0012DA	D201	9281	9273	00281	00273	2792 MVC DATEWA+5(2),DC#DD+1 DD	LB1001b
0012E0	D201	9284	9270	00284	00270	2793 MVC DATEWA+8(2),DC#MM+1 MM	LB1001b
0012E6	47F0	B2EA		012EA		2794 B DFMTXT	LB1001b
			012EA		2795 DFMTXT	EQU *	LB1001b
0012EA	07F7				2796	BR R7 Return to caller	LB1001b
					2797 *		LB1001b

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19	
					2799	* /* *****	*/	
					2800	* /* Subroutine - Prefix message	(R7) */	
					2801	* /* w/ 14-byte header 'LISTSDJ nnnn -'	*/	
					2802	* /* - R3, R7 Working Register	*/	
					2803	* /* *****	*/	
			012EC		2804	PREFXMSG EQU *		
0012EC	D207	909C	A01E	0009C	0001E	2805	MVC DJMSG+00(8),PGMID	
0012F2	5830	929C		0029C		2806	L R3,RCEXIT	Load RCEXIT code value
0012F6	4E30	9290		00290		2807	CVD R3,DW	Convert to decimal
0012FA	F342	90A4	9295	000A4	00295	2808	UNPK DJMSG+08(5),DW+5(3)	Unpack
001300	96F0	90A8		000A8		2809	OI DJMSG+12,X'F0'	Force an F Zone
001304	9240	90A4		000A4		2810	MVI DJMSG+08,C' '	Blank out digit
001308	9260	90AA		000AA		2811	MVI DJMSG+14,C' -'	Blank out digit
					2812	*		
00130C	07F7				2813	BR R7		Return to caller
					2814	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2816 *	/* ***** */	
					2817 *	/* Subroutine - Allocate Dataset for DIR Info (R7) */	
					2818 *	/* - R0 Working Register */	
					2819 *	/* - R1 Working Register */	
					2820 *	/* - R2 Working Register */	
					2821 *	/* - R3 Working Register */	
					2822 *	/* - R5 Working Register */	
					2823 *	/* ***** */	
			0130E		2824 PDSALC	EQU *	
					2825 *		
					2826 *	/* Build MYDAPL area comprised of 5 FW */	
					2827 *	/* using DAPL DSECT with data from CPPL */	
					2828 *		
00130E	4110	9640	00640		2829	LA R1,MYDAPL MYDAPL area, 5 FW	
				00000	2830	USING DAPL,R1 Use DAPL DSECT	
001312	5820	9638	00638		2831	L R2,MYCPPLP MYCPPL address	
				00000	2832	USING CPPL,R2 Use CPPL DSECT	
001316	D203	1000	2004	00000	00004	2833 MVC DAPLUPT(4),CPPLUPT Init DAPLUPT FW1	
00131C	D203	1004	200C	00004	0000C	2834 MVC DAPLECT(4),CPPLECT Init DAPLECT FW2	
001322	4100	963C		0063C		2835 LA R0,MYECB	
001326	5000	1008		00008		2836 ST R0,DAPLECB	
00132A	D203	100C	2008	0000C	00008	2837 MVC DAPLPSCB(4),CPPLPSCB Init DAPLPSCB FW4	
001330	4130	9658		00658		2838 LA R3,MYDAPB MYDAPB area, dynalloc block	
001334	5030	1010		00010		2839 ST R3,DAPLDAPB Init DAPLDAPB FW5	
					2840 *	/* ----- */	
					2841 *	/* Build DAPB08 Allocate Block for Dynamic */	
					2842 *	/* Allocation Interface Routine (DAIR) */	
					2843 *	/* ----- */	
				00000	2844	USING DAPB08,R3 Use DAPB08 DSECT	
001338	D253	3000	BFD8	00000	01FD8	2845 MVC 0(INPB08L,R3),INPB08 Init MYDAPB w X'08' entry code	
00133E	4100	92D4		002D4		2846 LA R0,PDSNL Name length and name of Dataset	
001342	5000	3008		00008		2847 ST R0,DA08PDSN	
001346	D207	3014	B698	00014	01698	2848 MVC DA08UNIT,=CL8'SYSALLDA' UNIT=SYSALLDA	
00134C	D205	301C	9152	0001C	00152	2849 MVC DA08SER(L'DVOLSER),DVOLSER VOL=SER=	
001352	9208	3044		00044		2850 MVI DA08DSP1,DA08SHR DISP=SHR	
001356	4550	B386		01386		2851 BAL R5,DAIR Call DAIR	
00135A	12FF					2852 LTR R15,R15 Allocate successful?	
00135C	4770	B36A		0136A		2853 BNZ PDSALCXT NO, exit	
001360	4130	9658		00658		2854 LA R3,MYDAPB YES, get DDN	
001364	D207	97B0	300C	007B0	0000C	2855 MVC DDNAME,DA08DDN	
					2856 *	OI ALLOC SW,1	
				0136A	2857 PDSALCXT	EQU *	
					2858 *		
00136A	07F7				2859	BR R7 Return to caller	
					2860 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2862 *	/* *****/	
					2863 *	/* Subroutine - Free Dataset (R7) */	
					2864 *	/* *****/	
			0136C		2865 PDSFRE	EQU *	
					2866 *	/* ----- */	
					2867 *	/* Build DAPB18 Free Block for Dyanamic */	
					2868 *	/* Allocation Interface Routine (DAIR) */	
					2869 *	/* ----- */	
00136C	4130	9658	00658		2870	LA R3,MYDAPB	Addr of MYDAPB for DAIR
			00000		2871	USING DAPB18,R3	Use DAPB18 DSECT
001370	D227	3000	C030	00000	2872	MVC 0(INPB18L,R3),INPB18	Init MYDAPB w X'18' entry code
001376	D207	300C	97B0	0000C	2873	MVC DA18DDN,DDNAME	
00137C	4110	9640		00640	2874	LA R1,MYDAPL	Load R1 with block addr
001380	4550	B386		01386	2875	BAL R5,DAIR	Call DAIR
					2876 *		
			01384		2877 PDSFREXT	EQU *	
					2878 *		
001384	07F7				2879	BR R7	Return to caller
					2880 *		
					2881 *	/* *****/	
					2882 *	/* Subroutine - DAIR Link (R5) */	
					2883 *	/* *****/	
			01386		2884 DAIR	EQU *	
					2885	PRINT GEN	
					2886	LINK EP=IKJDAIR,MF=(E,(R1)),ERRET=ERR4097	Link
001386	1811				2887+	LR 1,(R1)	LOAD PARAMETER REG 1 02050002
001388					2888+	CNOP 0,4	04900000
001388	45F0	B3A0	013A0		2889+	BAL 15,*+24	BRANCH AROUND CONSTANTS 04950000
00138C	00001398				2890+	DC A(*+12)	ADDR. OF PARM. LIST 05050000
001390	80				2891+	DC X'80'	RETURN REQUESTED INDICATOR 06300000
001391	000000				2892+	DC AL3(0)	DCB ADDRESS PARAMETER 06350000
001394	000011D4				2893+	DC A(ERR4097)	RETURN ADDRESS PARAMETER 06450000
001398	C9D2D1C4C1C9D940				2894+	DC CL8'IKJDAIR'	EP PARAMETER 06750000
0013A0	0A06				2895+	SVC 6	ISSUE LINK SVC 48000000
					2896	PRINT NOGEN	
					2897 *		
0013A2	07F5				2898	BR R5	
					2899 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2901	* /******	*/
					2902	* /* Subroutine - Sum Extents	(R7) */
					2903	* /* - R0, R1 Working Registers	*/
					2904	* /* - R2 Total CYL	*/
					2905	* /* - R3 Total TRKS	*/
					2906	* /******	*/
			013A4		2907	TOTEXTS EQU *	
0013A4	1B11				2908	SR R1,R1	Use R1 and R0 for
0013A6	1B00				2909	SR R0,R0	...work CC and HH
0013A8	BF13	4006	00006		2910	ICM R1,B'0011',6(R4)	CC High value
0013AC	BF03	4002	00002		2911	ICM R0,B'0011',2(R4)	CC Low value
0013B0	1B10				2912	SR R1,R0	Extent total
0013B2	1A31				2913	AR R3,R1	R3 = Total CYL (CC)
0013B4	BF13	4008	00008		2915	ICM R1,B'0011',8(R4)	HH High value
0013B8	4111	0001	00001		2916	LA R1,1(R1)	HH, up by 1 to account for 0
0013BC	BF03	4004	00004		2917	ICM R0,B'0011',4(R4)	HH Low value
0013C0	1B10				2918	SR R1,R0	Extent total
0013C2	1A21				2919	AR R2,R1	R2 = Total TRKS (HH)
					2920	*	
0013C4	07F7				2921	BR R7	Return to caller
					2922	*	

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					2924 *	/* *****	/*
					2925 *	/* Subroutine - Set MSG1 Text and Length	(R7) */
					2926 *	/* Subroutine - Set MSG2 Text and Length	(R7) */
					2927 *	/* Set R5 to length of DMSG1 / DMSG2 text	*/
					2928 *	/* - R3, R4, R6 Working Registers	*/
					2929 *	/* - R5 Length of DMSG1 text	*/
					2930 *	/* *****	*/
			013C6		2931 SETML1	EQU *	
0013C6	4130	BDD9	01DD9		2932	LA R3,RCTBLBEG	Addr of Return Code TBL
0013CA	4133	0068	00068		2933	LA R3,RCTBLLEN-1(R3)	Calc End Addr of Return Code TBL
0013CE	4140	BDD9	01DD9		2934	LA R4,RCTBLBEG	Addr of Return Code TBL
0013D2	D201	92C8	92CA 002C8	002CA	2935	MVC CD,RC	Return Code
0013D8	47F0	B3F2	013F2		2936	B CHKCD	
			013DC		2937 SETML2	EQU *	
0013DC	4130	BC50	01C50		2938	LA R3,RSTBLBEG	Addr of Reason Code TBL
0013E0	4133	0188	00188		2939	LA R3,RSTBLLEN-1(R3)	Calc End Addr of Reason Code TBL
0013E4	4140	BC50	01C50		2940	LA R4,RSTBLBEG	Addr of Reason Code TBL
0013E8	D201	92C8	9100 002C8	00100	2941	MVC CD,DRSNCODE	Reason Code
0013EE	47F0	B3F2	013F2		2942	B CHKCD	
			013F2		2943 CHKCD	EQU *	Find Return Code
0013F2	1943				2944	CR R4,R3	Exhausted table?
0013F4	4720	B412	01412		2945	BH CDNOFIND	Yes!
0013F8	D501	4000	92C8 00000	002C8	2946	CLC 0(2,R4),CD	Code match?
0013FE	4780	B420	01420		2947	BE CDFOUND	YES, found entry
					2948 *		NO, position to next Return Code ent
001402	4144	0002	00002		2949	LA R4,2(R4)	Point to len of current msg
001406	4A44	0000	00000		2950	AH R4,0(R4)	Add len of current msg
00140A	4144	0002	00002		2951	LA R4,2(R4)	Adj for len of current msg
00140E	47F0	B3F2	013F2		2952	B CHKCD	Check again.
			01412		2953 CDNOFIND	EQU *	
001412	D201	9102	B732 00102	01732	2954	MVC DMSG1(2),=C'??'	Exhausted table lookup loop
001418	4150	0002	00002		2955	LA R5,2	.. msg '??', len=2
00141C	47F0	B446	01446		2956	B CDC1	
			01420		2957 CDFOUND	EQU *	
001420	4144	0002	00002		2958	LA R4,2(R4)	R4 = addr of current msg len
001424	4854	0000	00000		2959	LH R5,0(R4)	R5 = len of current msg
001428	4144	0002	00002		2960	LA R4,2(R4)	R4 = addr of current msg text
00142C	4160	0028	00028		2961	LA R6,L'DMSG1	R6 = max length
001430	1956				2962	CR R5,R6	Max msg length?
001432	47D0	B438	01438		2963	BNH MOVEML1	NO, move msg text L1
001436	1856				2964	LR R5,R6	Force max msg length
			01438		2965 MOVEML1	EQU *	
001438	4450	B440	01440		2966	EX R5,MVCMSG1	EX MSGVLV1 text from table
00143C	47F0	B446	01446		2967	B CDC1	
001440	D200	9102	4000 00102	00000	2968 MVCMSG1	MVC DMSG1(0),0(R4)	MVC DMSG1
			01446		2969 CDC1	EQU *	
001446	5050	92C0	002C0		2970	ST R5,DMSG1L	Store Length
					2971 *		
00144A	07F7				2972	BR R7	Return to caller
					2973 *		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
					2975	*	/* *****	*/
					2976	*	/* Subroutine - Date Convert CCYY/JJJ	(R7) */
					2977	*	/* Date windowing of 70.	*/
					2978	*	/* - R5 Working Register	*/
					2979	*	/* *****	*/
			0144C		2980	DATECONV	EQU *	
00144C	D703	9298	9298	00298	00298	2981	XC	FW,FW Clear contents
001452	D200	929B	6000	0029B	00000	2982	MVC	FW+3(1),0(R6) Get YY portion
001458	5850	9298		00298		2983	L	R5,FW Load FW to R5
00145C	5950	B7A8		017A8		2984	C	R5,Y2KWIN Before Y2k Window?
001460	4740	B46C		0146C		2985	BL	DATECY2 YES, assume CC 20
			01464		2986	DATECY1	EQU *	
001464	4155	076C		0076C		2987	LA	R5,1900(R5) NO, assume CC 19
001468	47F0	B470		01470		2988	B	DATECCNT Continue...
			0146C		2989	DATECY2	EQU *	
00146C	4155	07D0		007D0		2990	LA	R5,2000(R5) CC 20...
			01470		2991	DATECCNT	EQU *	
					2992	*	/* -----	*/
					2993	*	/* CCYY, JJJ	*/
					2994	*	/* -----	*/
001470	4E50	9290		00290		2995	CVD	R5,DW R5 to decimal
001474	F342	9275	9295	00275	00295	2996	UNPK	DC#CCYY,DW+5(3) Unpack 0CCYY and
00147A	96F0	9279		00279		2997	OI	DC#CCYY+4,X'F0' ... force and F zone
00147E	D703	9298	9298	00298	00298	2998	XC	FW,FW Clear contents
001484	D201	929A	6001	0029A	00001	2999	MVC	FW+2(2),1(R6) Get 0JJJ portion
00148A	5850	9298		00298		3000	L	R5,FW ... and convert
00148E	4E50	9290		00290		3001	CVD	R5,DW ... to decimal
001492	F321	926C	9296	0026C	00296	3002	UNPK	DC#JJJ,DW+6(2) Unpack JJJ and
001498	96F0	926E		0026E		3003	OI	DC#JJJ+2,X'F0' ... force and F zone
					3004	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19	
				0149C	3006	DATELEAP	EQU *		
00149C	4130	0000	00000		3007	LA	R3,0	Leap Count (0 or 1)	
0014A0	4050	926A	0026A		3008	STH	R5,DC#HJJJ	R5 contains JJJ	
0014A4	4950	B734	01734		3009	CH	R5,=H'59'	R5 = JJJ, > 2/28?	
0014A8	47D0	B4D6	014D6		3010	BNH	NOLEAP	NO, not leap year eligible	
					3011	*		YES, check for leap year	
0014AC	F234	9265	9275	00265	00275	3012	PACK	DC#YR,DC#CCYY	Pack CCYY
0014B2	FD31	9265	B736	00265	01736	3013	DP	DC#YR,=P'100'	CCYY / 100
0014B8	F910	9267	B765	00267	01765	3014	CP	DC#YR+2(2),=P'0'	Remainder 0?
0014BE	4720	B4D6	014D6		3015	BH	NOLEAP	NO, not leap year	
0014C2	FD31	9265	B738	00265	01738	3016	DP	DC#YR,=P'400'	YES, check CCYY / 400
0014C8	F910	9267	B765	00267	01765	3017	CP	DC#YR+2(2),=P'0'	Remainder 0?
0014CE	4720	B4D6	014D6		3018	BH	NOLEAP	NO, not leap year	
				014D2	3019	YESLEAP	EQU *	YES, leap year	
0014D2	4130	0001	00001		3020	LA	R3,1		
				014D6	3021	NOLEAP	EQU *		
0014D6	4150	000C	0000C		3022	LA	R5,12	Number of Months, 12!	
0014DA	4160	B790	01790		3023	LA	R6,DAYSTBLJ	Addr of Julian Days Table,	
				014DE	3024	CHKME	EQU *		
0014DE	4886	0000	00000		3025	LH	R8,0(R6)	Load R8 with month julian start days	
0014E2	4950	B73A	0173A		3026	CH	R5,=H'2'	JAN or FEB?	
0014E6	4780	B4F0	014F0		3027	BE	NOADD	YES,	
0014EA	4740	B4F0	014F0		3028	BL	NOADD	YES,	
0014EE	1A83				3029	AR	R8,R3	NO, Account for leap year	
				014F0	3030	NOADD	EQU *		
0014F0	4980	926A	0026A		3031	CH	R8,DC#HJJJ	Found MONTH based on number of days?	
					3032	***	BE	DONELOOP	YES, done. 334 350 334 334
0014F4	4740	B500	01500		3033	BL	DONELOOP	YES, done.	
0014F8	4166	0002	00002		3034	LA	R6,2(R6)	NO, bump up to next month	
0014FC	4650	B4DE	014DE		3035	BCT	R5,CHKME	Look again.	
				01500	3037	DONELOOP	EQU *		
					3038	*	*/	*/	
					3039	*	*/	MM, DD	
					3040	*	*/	*/	
					3041	*	R5 month		
001500	4E50	9290	00290		3042	CVD	R5,DW	R5 to decimal	
001504	F321	926F	9296	0026F	00296	3043	UNPK	DC#MM,DW+6(2)	Unpack 0MM and
00150A	96F0	9271	00271		3044	OI	DC#MM+2,X'F0'	... force and F zone	
00150E	4850	926A	0026A		3045	LH	R5,DC#HJJJ	Load R5 with JJJ	
001512	1B58				3046	SR	R5,R8	JJJ - Julian Days in Month	
001514	4E50	9290	00290		3047	CVD	R5,DW	R5 to decimal	
001518	F321	9272	9296	00272	00296	3048	UNPK	DC#DD,DW+6(2)	Unpack 0DD and
00151E	96F0	9274	00274		3049	OI	DC#DD+2,X'F0'	... force and F zone	
					3050	*			
001522	07F7				3051	BR	R7	Return to caller	
					3052	*			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
					3054 *	*/*****	
					3055 *	/* Subroutine - Store Symbolic Variable (R5) */	
					3056 *	/* -JMSG'RC=xxx IKJCT441 error w zzzzzzzzzzzzzzzzzzzzz' */	
					3057 *	*/*****	
001524	4110	9048	00048	01524	3058 SETVAR	EQU *	
					3059	LA R1,CT441LST R1 = Parm List	
					3060 *	PRINT GEN	
					3061	LINK EP=IKJCT441,ERRET=ERR4098 Link	
					3070 *	PRINT NOGEN	
001542	50F0	928C	0028C		3071	ST R15,SAVER15 SAVE R15	
					3072 *	DISPLAY DATA=((R15),R,)	
001546	12FF				3073	LTR R15,R15 R15=0?	
001548	4780	B586	01586		3074	BZ SETVARXT YES.	
					3075 *	NO.	
00154C	D229	909C	BF73	0009C	01F73	3076 MVC DJMSG(L'MSGJ027),MSGJ027 Move to &SYSLISTDSJMSG	
001552	4EF0	9290		00290		3077 CVD R15,DW Convert to decmial	
001556	F321	909F	9296	0009F	00296	3078 UNPK DJMSG+3(3),DW+6(2) Unpack and	
00155C	96F0	90A1		000A1		3079 OI DJMSG+5,X'F0' ... force and F zone	
001560	5800	9060		00060		3080 L R0,NAMP1	
001564	5810	9064		00064		3081 L R1,NAML1 18	
001568	5910	B6F0		016F0		3082 C R1,=F'18'	
00156C	4720	B574		01574		3083 BH MVCMAX	
001570	47F0	B578		01578		3084 B MVCOK	
				01574	3085 MVCMAX	EQU *	
001574	4110	0012	00012		3086	LA R1,18	
				01578	3087 MVCOK	EQU *	
001578	4410	B580	01580		3088	EX R1,MVCSYS	
00157C	47F0	B586	01586		3089	B SETVARXT	
001580	D200	90B4	0000	000B4	00000	3090 MVCSYS MVC DJMSG+24(00),0(R0)	
					3091 *		
				01586	3092 SETVARXT	EQU *	
001586	07F5				3093	BR R5 Return to caller	
					3094 *		
					3095 *	*/*****	
					3096 *	/* Return codes for IKJCT441 */	
					3097 *	/*	
					3098 *	/* 0 - SUCCESS */	
					3099 *	/* 4 - VARIABLE RETURNED SHOULDN'T BE RE-SCANNED */	
					3100 *	/* 8 - VARIABLE RETURNED REQUIRES EVALUATION */	
					3101 *	/* 12 - VARIABLE RETURNED IS A LABEL (CANNOT UPDATE) */	
					3102 *	/* 16 - SYSTEM VARIABLE - CAN'T BE UPDATED BY THE USER */	
					3103 *	/* 20 - FOR LOCATE - NO MORE VARIABLES TO RETURN */	
					3104 *	/* 32 - GETMAIN/FREEMAIN FAILURE */	
					3105 *	/* 36 - NAME LENGTH < 1 OR > 252 */	
					3106 *	/* -OR- VALUE LENGTH < 0 OR > 32767 */	
					3107 *	/* 40 - INCORRECT ENVIRONMENT - */	
					3108 *	/* PLIST ERROR OR NO CLIST ACTIVE */	
					3109 *	/* 44 - INVALID ENTRY CODE */	
					3110 *	/* 52 - UNDEFINED VARIABLE */	
					3111 *	/*	
					3112 *	*/*****	
					3113 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
001588				3115	LTORG	
001588	4040404040404040			3116	=256X'40'	
001688	D3D6C3C1E3C54040			3117	=C'LOCATE '	
001690	FFFFFFFFFFFFFFFF			3118	=8X'FF'	
001698	E2E8E2C1D3D3C4C1			3119	=CL8'SYSALLDA'	
0016A0	00000000			3120	=F'0'	
0016A4	00000000			3121	=F'00'	
0016A8	00000010			3122	=F'16'	
0016AC	00000001			3123	=F'1'	
0016B0	D5D6D5C5			3124	=C'NONE'	
0016B4	D9C1C3C6			3125	=C'RACF'	
0016B8	0000FFFF			3126	=X'0000FFFF'	
0016BC	00000004			3127	=F'04'	
0016C0	0000001F			3128	=F'31'	
0016C4	00000004			3129	=F'4'	
0016C8	00000008			3130	=F'8'	
0016CC	0000000C			3131	=F'12'	
0016D0	00000FA4			3132	=F'4004'	
0016D4	00000FA5			3133	=F'4005'	
0016D8	00000FA8			3134	=F'4008'	
0016DC	00000FA9			3135	=F'4009'	
0016E0	00000FAA			3136	=F'4010'	
0016E4	00001001			3137	=F'4097'	
0016E8	00001002			3138	=F'4098'	
0016EC	00001003			3139	=F'4099'	
0016F0	00000012			3140	=F'18'	
0016F4	F0F0			3141	=C'00'	
0016F6	0004			3142	=H'4'	
0016F8	F9F9			3143	=C'99'	
0016FA	F0F5			3144	=C'05'	
0016FC	F1F6			3145	=C'16'	
0016FE	0001			3146	=X'0001'	
001700	0000			3147	=X'0000'	
001702	F1F9			3148	=C'19'	
001704	F2F6			3149	=C'26'	
001706	F0F6			3150	=C'06'	
001708	0000			3151	=H'0'	
00170A	C4E2D6D9C740E3A8			3152	=C'DSORG Type'	
001714	C485A5898385E3A8			3153	=C'DeviceType'	
00171E	D7D6			3154	=C'P0'	
001720	F0F2			3155	=C'02'	
001722	F0F4			3156	=C'04'	
001724	F1F3			3157	=C'13'	
001726	9000			3158	=X'9000'	
001728	F2F1			3159	=C'21'	
00172A	F2F2			3160	=C'22'	
00172C	F2F4			3161	=C'24'	
00172E	F2F3			3162	=C'23'	
001730	F2F9			3163	=C'29'	
001732	6F6F			3164	=C'??'	
001734	003B			3165	=H'59'	
001736	100C			3166	=P'100'	
001738	400C			3167	=P'400'	
00173A	0002			3168	=H'2'	
00173C	F0F0F1			3169	=C'001'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
00173F	F1			3170	=C'1'	
001740	F2			3171	=C'2'	
001741	F3			3172	=C'3'	
001742	F4			3173	=C'4'	
001743	C3E8D3			3174	=C'CYL'	
001746	E3D9D2			3175	=C'TRK'	
001749	C1C2E2			3176	=C'ABS'	
00174C	C2D3D2			3177	=C'BLK'	
00174F	D5D6D5C540			3178	=C'NONE '	
001754	E6D9C9E3C5			3179	=C'WRITE'	
001759	D96DE64040			3180	=C'R_W '	
00175E	000000			3181	=X'000000'	
001761	0C			3182	=P'+0'	
001762	3C			3183	=P'+3'	
001763	4C			3184	=P'+4'	
001764	1C			3185	=P'+1'	
001765	0C			3186	=P'0'	
				3187	*	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3189	* /******	
				3190	* /* Parm Input Keywords	
				3191	* /******	
001766	C4C9D9			3192	KWDIR DC C'DIR'	Keyword DIR
001769	D7D5D3			3193	KWPNL DC C'PNL'	Keyword PNL
00176C	C1C2D6E4E3			3194	KWABOUT DC C'ABOUT'	Keyword ABOUT
001771	E5D6D34D			3195	KWVOL DC C'VOL('	Keyword VOL
001775	C4E24D			3196	KWDS DC C'DS('	Keyword DS LB1001a
001778	C4C64D			3197	KWDF DC C'DF('	Keyword DF LB1001b
00177B	F0F0F0F0F0F0F0F0			3198	ZEROCL11 DC C'000000000000'	11 C'0' LB1001b
				3199	* *	
				3200	* /******	
				3201	* /* Entry codes for IKJCT441	
				3202	* /******	
001786	0000					
001788	00000002			3203	ECUPDT DC A(TSVEUPDT)	ENTRY CODE FOR UPDATE/CREATE
00178C	00000000			3204	TOKEN DC F'0'	TOKEN
				3205	* *	
				3206	* /******	
				3207	* /* Julian start day by month in reverse order	
				3208	* /******	
001790	014E0130011100F3			3209	DAYSTBLJ DC H'334',H'304',H'273',H'243',H'212',H'181'	Dec-Jul
00179C	00970078005A003B			3210	DC H'151',H'120',H'090',H'059',H'031',H'000'	Jun-Jan
0017A8	00000046			3211	Y2KWIN DC F'70'	Y2k Window value
				3212	*	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				3214	*	*/*****/	
				3215	*	/* Symbolic Variable Names for CLIST use */	
				3216	*	*/*****/	
		017AC		3217	V#@	EQU *	
0017AC	E2E8E2C4E2D5C1D4			3218	VDSN	DC C'SYSDSNAME'	
0017B5	E2E8E2D9C5C1E2D6			3219	VRSCODE	DC C'SYSREASON'	
0017BE	E2E8E2D4E2C7D3E5			3220	VMSGL1	DC C'SYSMSGLVL1'	
0017C8	E2E8E2D4E2C7D3E5			3221	VMSGL2	DC C'SYSMSGLVL2'	
0017D2	E2E8E2E5D6D3E4D4			3222	VVOL	DC C'SYSVOLUME'	
0017DB	E2E8E2D3D9C5C3D3			3223	VLRECL	DC C'SYSLRECL'	
0017E3	E2E8E2C2D3D2E2C9			3224	VLKLSZ	DC C'SYSBLKSIZE'	
0017ED	E2E8E2D2C5E8D3C5			3225	VKEYL	DC C'SYSKEYLEN'	
0017F6	E2E8E2D2C5E8D7D6			3226	VKEYP	DC C'SYSKEYPOS'	
0017FF	E2E8E2C4E2D6D9C7			3227	VDSORG	DC C'SYSDSORG'	
001807	E2E8E2D9C5C3C6D4			3228	VRECFM	DC C'SYSRECFM'	
00180F	E2E8E2C3D9C5C1E3			3229	VCREDIT	DC C'SYSCREATE'	
001818	E2E8E2C5E7C4C1E3			3230	VEXPDT	DC C'SYSEXDATE'	
001821	E2E8E2D9C5C6C4C1			3231	VREFDT	DC C'SYSREFDATE'	
00182B	E2E8E2D1C3D9C5C1			3232	VCREDITJ	DC C'SYSJCREATE'	
001835	E2E8E2D1C5E7C4C1			3233	VEXPDTJ	DC C'SYSJEXDATE'	
00183F	E2E8E2D1D9C5C6C4			3234	VREFDTJ	DC C'SYSJREFDATE'	
00184A	E2E8E2C3C3D9C5C1			3235	VCREDITC	DC C'SYSCCREATE'	
001854	E2E8E2C3C5E7C4C1			3236	VEXPDTC	DC C'SYSCCEXDATE'	
00185E	E2E8E2C3D9C5C6C4			3237	VREFDTC	DC C'SYSCREFDATE'	
001869	E2E8E2D7C1E2E2E6			3238	VPASSWD	DC C'SYSPASSWORD'	
001874	E2E8E2D9C1C3C6C1			3239	VRACF	DC C'SYSRACFA'	
00187C	E2E8E2E4D5C9E3E2			3240	VSSPC	DC C'SYSUNITS'	
001884	E2E8E2E2C5C3D6D5			3241	VSSPCNM	DC C'SYSSECONDS'	
00188E	E2E8E2E4D5C9E3			3242	VUNIT	DC C'SYSUNIT'	
001895	E2E8E2C5E7E3C5D5			3243	VEXTS	DC C'SYSEXTENTS'	
00189F	E2E8E2D5E4D4E5D6			3244	VNUMVOL	DC C'SYSNUMVOLS'	
0018A9	E2E8E2C3E8D3E5D6			3245	VCCVOL	DC C'SYSCYLVOL'	
0018B2	E2E8E2E3D9D2E2C3			3246	VTTCC	DC C'SYSTRKSCYL'	
0018BC	E2E8E2E3D9D2D3C5			3247	VTRKLEN	DC C'SYSTRKLEN'	
0018C5	E2E8E2C2D3D2E2E3			3248	VLKTRK	DC C'SYSBLKSTRK'	
0018CF	E2E8E2E4D5C9E3C3			3249	VUNITCAP	DC C'SYSUNITCAP'	
0018D9	E2E8E2E3D9D2E2C1			3250	VTKAL	DC C'SYSTRKSALLOC'	
0018E5	E2E8E2E3D9D2E2E4			3251	VTKUS	DC C'SYSTRKSUSED'	
0018F0	E2E8E2E3D9D2E2E4			3252	VTKUUS	DC C'SYSTRKSUNUSED'	
0018FD	E2E8E2D3C9E2E3C4			3253	VJMSG	DC C'SYSLISTDSJMSG'	
00190A	E2E8E2D4C5D4C2C5			3254	VMEMS	DC C'SYSMEMBERS'	
001914	E2E8E2D4C5D4C2C5			3255	VALIAS	DC C'SYSMEMBERSALIAS'	
001923	E2E8E2E4C4C9D9C2			3256	VDIRBKSU	DC C'SYSUDIRBLK'	
00192D	E2E8E2D5E4C4C9D9			3257	VDIRBKSN	DC C'SYSNUDIRBLK'	
001938	E2E8E2C1C4C9D9C2			3258	VDIRBKSA	DC C'SYSADIRBLK'	
001942	E2E8E2C4E2C3C1E3			3259	VDSCAT	DC C'SYSDSCAT'	
00194A	E2E8E2C4E2C3C1E3			3260	VDSCATV	DC C'SYSDSCATV'	
001953	E2E8E2D7D9C9D4C1			3261	VPSPCAL	DC C'SYSPRIMARY'	
00195D	E2E8E2E4E2C5C4			3262	VPSPCUS	DC C'SYSUSED'	
001964	E2E8E2E5D6D3E4D4			3263	VVOLLST	DC C'SYSVOLUMES'	
		001C2		3264	V#@LEN	EQU *-V#@	Length of area
				3265	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3267 *	*/*****	
				3268 *	/* Internal table of symbolic variables and data values */	
				3269 *	*/*****	
001970				3270 S#@	DS 0F	
				3271 *	/*	
				3272 *	/*	
001970	000017AC000000009			3273 A#DSN	DC A(VDSN),A(L'VDSN)	00 SYSDSNAME
001978	9070000000000002C			3274	DC S(DDSN),A(L'DDSN)	
		00010		3275 S#@ENTL	EQU *-S#@	
001980	000018FD00000000D			3276 A#JMSG	DC A(VJMSG),A(L'VJMSG)	01 SYSLISTDSJMSG
001988	909C0000000000064			3277	DC S(DJMSG),A(L'DJMSG)	
001990	000017B5000000009			3278 A#RSC	DC A(VRSCODE),A(L'VRSCODE)	02 SYSREASON
001998	91000000000000002			3279	DC S(DRSNCODE),A(L'DRSNCODE)	
0019A0	000017BE00000000A			3280 A#MSG1	DC A(VMSG1),A(L'VMSG1)	03 SYSMSGLVL1
0019A8	91020000000000028			3281	DC S(DMSG1),A(L'DMSG1)	
0019B0	000017C800000000A			3282 A#MSG2	DC A(VMSG2),A(L'VMSG2)	04 SYSMSGLVL2
0019B8	912A0000000000028			3283	DC S(DMSG2),A(L'DMSG2)	
0019C0	0000180F000000009			3284 A#CREDT	DC A(VCREDT),A(L'VCREDT)	05 SYSCREATE
0019C8	916A0000000000008			3285	DC S(DCREDT),A(L'DCREDT)	
0019D0	00001818000000009			3286 A#EXPDT	DC A(VEXPDT),A(L'VEXPDT)	06 SYSEXDATE
0019D8	91810000000000008			3287	DC S(DEXPDT),A(L'DEXPDT)	
0019E0	0000182100000000A			3288 A#REFDT	DC A(VREFDT),A(L'VREFDT)	07 SYSREFDATE
0019E8	91980000000000008			3289	DC S(DREFDT),A(L'DREFDT)	
0019F0	000017FF000000008			3290 A#DSORG	DC A(VDSORG),A(L'VDSORG)	08 SYSDSORG
0019F8	91620000000000003			3291	DC S(DDSORG),A(L'DDSORG)	
001A00	00001807000000008			3292 A#RECFM	DC A(VRECFM),A(L'VRECFM)	09 SYSRECFM
001A08	91650000000000005			3293	DC S(DRECFM),A(L'DRECFM)	
001A10	000017DB000000008			3294 A#LRECL	DC A(VLRECL),A(L'VLRECL)	10 SYSLRECL
001A18	91580000000000005			3295	DC S(DLRECL),A(L'DLRECL)	
001A20	000017E300000000A			3296 A#BLKSZ	DC A(VBLKSZ),A(L'VBLKSZ)	11 SYSBLKSIZE
001A28	915D0000000000005			3297	DC S(DBLKSZ),A(L'DBLKSZ)	
001A30	000017ED000000009			3298 A#KEYL	DC A(VKEYL),A(L'VKEYL)	12 SYSKEYLEN
001A38	91AF0000000000003			3299	DC S(DKEYL),A(L'DKEYL)	
001A40	000017F6000000009			3300 A#KEYP	DC A(VKEYP),A(L'VKEYP)	13 SYSKEYPOS
001A48	91B20000000000005			3301	DC S(DRKP),A(L'DRKP)	
001A50	0000186900000000B			3302 A#PASSWD	DC A(VPASSWD),A(L'VPASSWD)	14 SYSPASSWORD
001A58	91B70000000000005			3303	DC S(DPASSWD),A(L'DPASSWD)	
001A60	00001874000000008			3304 A#RACF	DC A(VRACF),A(L'VRACF)	15 SYSRACF
001A68	91BC0000000000004			3305	DC S(DRACF),A(L'DRACF)	
001A70	0000193800000000A			3306 A#DBKSA	DC A(VDIRBKSA),A(L'VDIRBKSA)	16 SYSADIRBLK
001A78	92180000000000005			3307	DC S(DDBLKS),A(L'DDBLKS)	
001A80	0000192300000000A			3308 A#DBKSU	DC A(VDIRBKSU),A(L'VDIRBKSU)	17 SYSUDIRBLK
001A88	921D0000000000005			3309	DC S(DDIRBKSU),A(L'DDIRBKSU)	
001A90	0000192D00000000B			3310 A#DBKSN	DC A(VDIRBKSN),A(L'VDIRBKSN)	18 SYSNUDIRBLK
001A98	92220000000000005			3311	DC S(DDIRBKSN),A(L'DDIRBKSN)	
001AA0	0000190A00000000A			3312 A#MEMS	DC A(VMEMS),A(L'VMEMS)	19 SYSMEMBERS
001AA8	92270000000000005			3313	DC S(DMEMBERS),A(L'DMEMBERS)	
001AB0	0000191400000000F			3314 A#ALIAS	DC A(VALIAS),A(L'VALIAS)	20 SYSMEMBERSALIAS
001AB8	922C0000000000005			3315	DC S(DALIASES),A(L'DALIASES)	
001AC0	000017D2000000009			3316 A#VOL	DC A(VVOL),A(L'VVOL)	21 SYSVOLUME
001AC8	91520000000000006			3317	DC S(DVOLSER),A(L'DVOLSER)	
001AD0	0000188E000000007			3318 A#UNIT	DC A(VUNIT),A(L'VUNIT)	22 SYSUNIT
001AD8	91D90000000000007			3319	DC S(DUNIT),A(L'DUNIT)	
001AE0	0000187C000000008			3320 A#UNITS	DC A(VSSPC),A(L'VSSPC)	23 SYSUNITS
001AE8	91CF0000000000003			3321	DC S(DSSPC),A(L'DSSPC)	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
001AF0	000018E500000000B			3322	A#VTKUS	DC A(VTKUS),A(L'VTKUS)	24 SYSTRKSUSED
001AF8	91EB0000000000005			3323		DC S(DTRKSUS),A(L'DTRKSUS)	
001B00	0000189500000000A			3324	A#EXTS	DC A(VEXTS),A(L'VEXTS)	25 SYSEXTENTS
001B08	91E00000000000003			3325		DC S(DEXTS),A(L'DEXTS)	
001B10	000018D900000000C			3326	A#VTKAL	DC A(VTKAL),A(L'VTKAL)	26 SYSTRKSALLOC
001B18	91E60000000000005			3327		DC S(DTRKSAL),A(L'DTRKSAL)	
001B20	0000188400000000A			3328	A#SCONDS	DC A(VSSPCNM),A(L'VSSPCNM)	27 SYSSECONDS
001B28	91D20000000000007			3329		DC S(DSSPCNM),A(L'DSSPCNM)	
001B30	000018F000000000D			3330	A#TKUUS	DC A(VTKUUS),A(L'VTKUUS)	28 SYSTRKSUNUSED
001B38	91F00000000000005			3331		DC S(DTRKSUUS),A(L'DTRKSUUS)	
001B40	000018A9000000009			3332	A#VCCVOL	DC A(VCCVOL),A(L'VCCVOL)	29 SYSCYLVOL
001B48	92040000000000005			3333		DC S(DCYL4VOL),A(L'DCYL4VOL)	
001B50	000018B200000000A			3334	A#VTTCC	DC A(VTTCC),A(L'VTTCC)	30 SYSTRKSCYL
001B58	91F50000000000005			3335		DC S(DTRKSCYL),A(L'DTRKSCYL)	
001B60	0000182B00000000A			3336	A#CREDTJ	DC A(VCREDTJ),A(L'VCREDTJ)	31 SYSJCREATE
001B68	91720000000000005			3337		DC S(DCREDJ),A(L'DCREDJ)	
001B70	0000183500000000A			3338	A#EXPDTJ	DC A(VEXPDTJ),A(L'VEXPDTJ)	32 SYSJEXDATE
001B78	91890000000000005			3339		DC S(DEXPDJ),A(L'DEXPDJ)	
001B80	0000183F00000000B			3340	A#REFDTJ	DC A(VREFDTJ),A(L'VREFDTJ)	33 SYSJREFDATE
001B88	91A00000000000005			3341		DC S(DREFDJ),A(L'DREFDJ)	
001B90	000018BC000000009			3342	A#VTRKLN	DC A(VTRKLEN),A(L'VTRKLEN)	34 SYSTRKLEN
001B98	91FA0000000000005			3343		DC S(DTRKLEN),A(L'DTRKLEN)	
001BA0	000018CF00000000A			3344	A#VUCAP	DC A(VUNITCAP),A(L'VUNITCAP)	35 SYSUNITCAP
001BA8	9209000000000000F			3345		DC S(DUNITCAP),A(L'DUNITCAP)	
001BB0	000018C500000000A			3346	A#VBLKTRK	DC A(VBLKTRK),A(L'VBLKTRK)	36 SYSBLKSTRK
001BB8	91FF0000000000005			3347		DC S(DBLKTRK),A(L'DBLKTRK)	
001BC0	0000184A00000000A			3348	A#CREDTC	DC A(VCREDTC),A(L'VCREDTC)	37 SYSCCREATE
001BC8	9177000000000000A			3349		DC S(DCREDC),A(L'DCREDC)	
001BD0	0000185400000000A			3350	A#EXPDTC	DC A(VEXPDTC),A(L'VEXPDTC)	38 SYSCEXDATE
001BD8	918E000000000000A			3351		DC S(DEXPDC),A(L'DEXPDC)	
001BE0	0000185E00000000B			3352	A#REFDTC	DC A(VREFDTC),A(L'VREFDTC)	39 SYSCREFDATE
001BE8	91A5000000000000A			3353		DC S(DREFDC),A(L'DREFDC)	
001BF0	0000189F00000000A			3354	A#NUMVOL	DC A(VNUMVOL),A(L'VNUMVOL)	40 SYSNUMVOLS
001BF8	91E30000000000003			3355		DC S(DNUMVOL),A(L'DNUMVOL)	
001C00	00001942000000008			3356	A#DSCAT	DC A(VDSCAT),A(L'VDSCAT)	41 SYSDSCAT
001C08	92310000000000001			3357		DC S(DDSCAT),A(L'DDSCAT)	
001C10	0000194A000000009			3358	A#DSCATV	DC A(VDSCATV),A(L'VDSCATV)	42 SYSDSCATV
001C18	92320000000000006			3359		DC S(DDSCATV),A(L'DDSCATV)	
001C20	0000195300000000A			3360	A#PSPCAL	DC A(VPSPCAL),A(L'VPSPCAL)	43 SYSPRIMARY
001C28	92380000000000005			3361		DC S(DPSPCAL),A(L'DPSPCAL)	
001C30	0000195D000000007			3362	A#PSPCUS	DC A(VPSPCUS),A(L'VPSPCUS)	44 SYSUSED
001C38	923D0000000000005			3363		DC S(DPSPCUS),A(L'DPSPCUS)	
001C40	0000196400000000A			3364	A#DVOLS	DC A(VVOLLST),A(L'VVOLLST)	45 SYSVOLUMES
001C48	92420000000000023			3365		DC S(DVOLLST),A(L'DVOLLST)	
		002E0		3366	S#@LEN	EQU *-S#@	Length of area
		0002E		3367	S#@NUM	EQU S#@LEN/S#@ENTL	Number of entries
				3368	*		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3370	* * /*****	
				3371	* * /* Reason Code Messages *	
				3372	* * /*****	
		001C50		3373	RSTBL EQU *	
		001C50		3374	RSTBLBEG EQU *	
001C50	F0F00011			3375	DC C'00',AL2(L'RSMSG00)	'Reason Code=00
001C54	D596999481934083			3376	RSMSG00 DC C'Normal completion'	
001C65	F0F20018			3377	DC C'02',AL2(L'RSMSG02)	'Reason Code=02
001C69	C4A8958194898340			3378	RSMSG02 DC C'Dynamic allocation error'	
001C81	F0F50016			3379	DC C'05',AL2(L'RSMSG05)	'Reason Code=05
001C85	C481A381A285A340			3380	RSMSG05 DC C'Dataset not catalogued'	
001C9B	F0F60013			3381	DC C'06',AL2(L'RSMSG06)	'Reason Code=06
001C9F	C599999699409682			3382	RSMSG06 DC C'Error obtaining DSN'	
001CB2	F1F3001F			3383	DC C'13',AL2(L'RSMSG13)	'Reason Code=13
001CB6	C481A381A285A340			3384	RSMSG13 DC C'Dataset could not open or close'	
001CD5	F1F90023			3385	DC C'19',AL2(L'RSMSG19)	'Reason Code=19
001CD9	C481A381A285A340			3386	RSMSG19 DC C'Dataset resides on multiple volumes'	
001CFC	F2F10022			3387	DC C'21',AL2(L'RSMSG21)	'Reason Code=21
001D00	C381A38193968740			3388	RSMSG21 DC C'Catalog error trying to locate DSN'	
001D22	F2F20012			3389	DC C'22',AL2(L'RSMSG22)	'Reason Code=22
001D26	E59693A494854095			3390	RSMSG22 DC C'Volume not mounted'	
001D38	F2F3001D			3391	DC C'23',AL2(L'RSMSG23)	'Reason Code=23
001D3C	D785999481958595			3392	RSMSG23 DC C'Permanent I/O error on volume'	
001D59	F2F40016			3393	DC C'24',AL2(L'RSMSG24)	'Reason Code=24
001D5D	C481A381A285A340			3394	RSMSG24 DC C'Dataset name not found'	
001D73	F2F6001E			3395	DC C'26',AL2(L'RSMSG26)	'Reason Code=26
001D77	C481A381A285A340			3396	RSMSG26 DC C'Dataset on Mass Storage device'	
001D95	F2F90018			3397	DC C'29',AL2(L'RSMSG29)	'Reason Code=29
001D99	C481A381A285A340			3398	RSMSG29 DC C'Dataset name is required'	
001DB1	F9F90024			3399	DC C'99',AL2(L'RSMSG99)	'Reason Code=99
001DB5	C1C2D6E4E3409985			3400	RSMSG99 DC C'ABOUT request, no DSN info retrieved'	
		00189		3401	RSTBLLEN EQU *-RSTBLBEG	
				3402	*	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				3404	*	*/*****	
				3405	*	/* Return Code Messages	
				3406	*	*/*****	
		01DD9		3407	RCTBL	EQU *	
		01DD9		3408	RCTBLBEG	EQU *	
001DD9	F0F00012			3409		DC C'00',AL2(L'RCMSG00)	'Return Code=00
001DDD	E2A4838385A2A286			3410	RCMSG00	DC C'Successful request'	
001DEF	F0F40027			3411		DC C'04',AL2(L'RCMSG04)	'Return Code=04
001DF3	E2969485408481A3			3412	RCMSG04	DC C'Some dataset information is unavailable'	
001E1A	F1F60024			3413		DC C'16',AL2(L'RCMSG16)	'Return Code=16
001E1E	C599999699409683			3414	RCMSG16	DC C'Error occured, variable data invalid'	
		00069		3415	RCTBLLEN	EQU *-RCTBLBEG	
				3416	*		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	17.21	05/18/19
					3418	*	* /*****	/			
					3419	*	* /* Messages - Internal	*/			
					3420	*	* /*****	/			
001E42	D7C1D9D440D596A3				3421	MSG4004	DC	C'PARM Not supplied'			
				00011	3422	MSG4004L	EQU	*-MSG4004			
001E53	C3D7D7D340D59640				3423	MSG4009	DC	C'CPPL No variables' ZERO			
				00011	3424	MSG4009L	EQU	*-MSG4009			
001E64	C381959596A34093				3425	MSG4097	DC	C'Cannot link to IKJDAIR'			
				00016	3426	MSG4097L	EQU	*-MSG4097			
001E7A	C381959596A34093				3427	MSG4098	DC	C'Cannot link to IKJCT441'			
				00017	3428	MSG4098L	EQU	*-MSG4098			
001E91	D4A4A2A34099A495				3429	MSG4099	DC	C'Must run under TSO'			
				00012	3430	MSG4099L	EQU	*-MSG4099			
					3431	*					
001EA3	C4C9D9409697A389				3432	MSGJ015	DC	C'DIR option not valid, ignored'			
				0001D	3433	MSGJ015L	EQU	*-MSGJ015			
001EC0	D9C37EA7A7A740C1				3434	MSGJ017	DC	C'RC=xxx Allocate PDS error'			
				00019	3435	MSGJ017L	EQU	*-MSGJ017			
001ED9	D9C37EA7A7A740C6				3436	MSGJ018	DC	C'RC=xxx Free PDS error'			
				00015	3437	MSGJ018L	EQU	*-MSGJ018			
001EEE	D9C37EA7A7A740C4				3438	MSGJ020	DC	C'RC=xxx DSCB-Fx CAMLIST NAME error'			
				00020	3439	MSGJ020L	EQU	*-MSGJ020			
001F0E	D9C37EA7A7A740C4				3440	MSGJ021	DC	C'RC=xxx DSCB-Fx CAMLIST SEARCH error'			
				00022	3441	MSGJ021L	EQU	*-MSGJ021			
001F30	D9C37EA7A7A740C4				3442	MSGJ022	DC	C'RC=xxx DSCB-Fx CAMLIST SEEK error'			
				00020	3443	MSGJ022L	EQU	*-MSGJ022			
001F50	F1F2F3F4F5F6F7F8				3444	MSGJ025	DC	C'1234567890 xxx not defined in table'			
				00023	3445	MSGJ025L	EQU	*-MSGJ025			
001F73	D9C37EA7A7A740C9				3446	MSGJ027	DC	C'RC=xxx IKJCT441 error w zzzzzzzzzzzzzzzzzzzz'			
				0002A	3447	MSG4027L	EQU	*-MSGJ027			
001F9D	D9C37EA7A7A740D6				3448	MSGJ030	DC	C'RC=xxx Open PDS error'			
				00015	3449	MSGJ030L	EQU	*-MSGJ030			
001FB2	D9C37EA7A7A740C3				3450	MSGJ031	DC	C'RC=xxx Close PDS error'			
				00016	3451	MSGJ031L	EQU	*-MSGJ031			
					3452	*					
001FC8	E2E3C1D9E340D3C9				3453	MM1	DC	C'START LISTDSJ'			
				0000D	3454	MM1L	EQU	*-MM1			
					3455	*					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3457 *	/* *****	
				3458 *	/* Initialized DAPB08 Allocate Block	
				3459 *	/* *****	
001FD8				3460 INPB08 DS	0D	Initialized DAPB08 Block
001FD8 0008				3461 IN08CD DC	X'0008'	DAIR ENTRY CODE
001FDA 00				3462 IN08FLG DC	X'00'	FUNCTIONS TO BE PERFORMED WHEN RC=0
001FDB 00				3463	DC X'00'	
001FDC 0000				3464 IN08DARC DC	H'0'	DYN ALLOC RETURN CODE
001FDE 0000				3465 IN08CTRC DC	H'0'	CATALOG RETURN CODE
001FE0 00000000				3466 IN08PDSN DC	A(0)	POINTER TO DSNAME TO BE SEARCHED IN DSE
001FE4 4040404040404040				3467 IN08DDN DC	CL8' '	DDNAME TO BE SEARCHED IN DSE
001FEC 4040404040404040				3468 IN08UNIT DC	CL8' '	UNITNAME REQUESTED
001FF4 4040404040404040				3469 IN08SER DC	CL8' '	VOLUME SERIAL NUMBER-PADDED W/BLANKS
001FFC 00000000				3470 IN08BLK DC	X'00000000'	DATA SET AVERAGE RECORD LENGTH
002000 00000000				3471 IN08PQTY DC	X'00000000'	PRIMARY SPACE QUANTITY
002004 00000000				3472 IN08SQTY DC	X'00000000'	SECONDARY SPACE QUANTITY
002008 00000000				3473 IN08DQTY DC	X'00000000'	DIRECTORY BLOCK QUANTITY
00200C 4040404040404040				3474 IN08MNM DC	CL8' '	MEMBER NAME
002014 4040404040404040				3475 IN08PSWD DC	CL8' '	PASSWORD
00201C 00				3476 IN08DSP1 DC	X'00'	DATA SET STATUS FLGS(IF=0 OLD ASSUMED)
00201D 00				3477 IN08DPS2 DC	X'00'	DATA SET DISPOSITION(IF=0 KEEP ASSUMED)
00201E 00				3478 IN08DPS3 DC	X'00'	DATA SET CONDITIONAL DISPOSITION
00201F 00				3479 IN08CTL DC	X'00'	FLAGS TO CONTROL ACTIONS TAKEN BY DAIR
002020 000000				3480	DC X'000000'	RESERVED
002023 00				3481 IN08DSO DC	X'00'	DSORG
002024 4040404040404040				3482 IN08ALN DC	CL8' '	ATTR-LIST-NAME
		00054		3483 INPB08L EQU	*-INPB08	Length of Initialized DAPB08 Block
				3484 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3486 *	/* *****/	
				3487 *	/* Initialized DAPB18 Free Block */	
				3488 *	/* *****/	
002030				3489 INPB18 DS	0D	Initialized DAPB18 Block
002030	0018			3490 IN18CD DC	X'0018'	DAIR ENTRY CODE
002032	00			3491 IN18FLG DC	X'00'	FUNCTIONS TO BE PERFORMED WHEN RC=0
002033	00			3492	DC X'00'	
002034	0000			3493 IN18DARC DC	H'0'	DYNAMIC ALLOCATION RETURN CODE
002036	0000			3494 IN18CTRC DC	H'0'	CATALOG RETURN CODE AREA
002038	00000000			3495 IN18PDSN DC	A(0)	POINTER TO DSNAME TO BE SEARCHED IN DSE
00203C	4040404040404040			3496 IN18DDN DC	CL8' '	DDNAME TO BE SEARCHED IN DSE
002044	4040404040404040			3497 IN18MNM DC	CL8' '	MEMBER NAME
00204C	4040			3498 IN18SCLS DC	CL2' '	SYSOUT CLASS DESIRED WHEN UNALLOCATING A
				3499 *		SYSOUT DATA SET
00204E	00			3500 IN18DPS2 DC	X'00'	DATA SET DISPOSITION
00204F	00			3501 IN18CTL DC	X'00'	FLAGS FOR SPECIAL DAIR PROCESSING
002050	4040404040404040			3502 IN18JBNM DC	CL8' '	IGNORED AS OF OS VS/2 RELEASE 2
		00028		3503 INPB18L EQU	*-INPB18	Length of Initialized DAPB18 Block
				3504 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				3506 *	*	/*****	
				3507 *	*	/* PDS Directory DCB and READ as model */	
				3508 *	*	/*****	
				3509		PRINT GEN	
				3510 DIRDCB	DCB	DDNAME=DYNAM, DSORG=PO, MACRF=R, EODAD=PODEOF, SYNAD=PODSYN, X RECFM=U, BLKSIZE=256	
				3512+*		DATA CONTROL BLOCK	22770000
				3513+*			22860000
002058				3514+DIRDCB	DC	OF'0' ORIGIN ON WORD BOUNDARY	22914000
				3516+*		DIRECT ACCESS DEVICE INTERFACE	27360000
002058	0000000000000000			3518+	DC	BL16'0' FDAD, DVTBL	27540000
002068	00000000			3519+	DC	A(0) KEYLE, DEVT, TRBAL	27720000
				3521+*		COMMON ACCESS METHOD INTERFACE	48690000
00206C	00			3523+	DC	AL1(0) BUFNO	49050000
00206D	000001			3524+	DC	AL3(1) BUFCB	54720000
002070	0000			3525+	DC	AL2(0) BUFL	55170000
002072	0200			3526+	DC	BL2'0000001000000000'	*55800000
				+		DSORG	55890000
002074	00000001			3527+	DC	A(1) IOBAD	56340000
				3529+*		FOUNDATION EXTENSION	56610000
002078	00			3531+	DC	BL1'00000000' BFTEK, BFLN, HIARCHY	59850000
002079	000ED2			3532+	DC	AL3(PODEOF) EODAD	65970000
00207C	C0			3533+	DC	BL1'11000000'	*66150000
				+		RECFM	66240000
00207D	000000			3534+	DC	AL3(0) EXLST	66330000
				3536+*		FOUNDATION BLOCK	66690000
002080	C4E8D5C1D4404040			3538+	DC	CL8'DYNAM' DDNAME	66870000
002088	02			3539+	DC	BL1'00000010' OFLGS	68220000
002089	00			3540+	DC	BL1'00000000' IFLG	68310000
00208A	2400			3541+	DC	BL2'0010010000000000'	*68400000
				+			*68490000
				+		MACR	68580000
				3543+*		BSAM-BPAM-QSAM INTERFACE	74430000
00208C	00			3545+	DC	BL1'00000000'	*74610000
				+		RER1	74700000
00208D	000001			3546+	DC	AL3(1) CHECK, GERR, PERR	74790000
002090	00000E9A			3547+	DC	A(PODSYN) SYNAD	74880000
002094	0000			3548+	DC	H'0' CIND1, CIND2	74970000
002096	0100			3549+	DC	AL2(256) BLKSIZE	75240000
002098	00000000			3550+	DC	F'0' WCP0, WCPL, OFFSR, OFFSW	75870000
00209C	00000001			3551+	DC	A(1) IOBA	75960000
0020A0	00			3552+	DC	AL1(0) NCP	76050000
0020A1	000001			3553+	DC	AL3(1) EOBR, EOBA	76140000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				3555+*		BSAM-BPAM INTERFACE	76410000
0020A4	00000001			3557+	DC	A(1) EOBW	76590000
0020A8	0000			3558+	DC	H'0' DIRCT	78210000
0020AA	0000			3559+	DC	AL2(0) LRECL	80730000
0020AC	00000001			3560+	DC	A(1) CNTRL, NOTE, POINT	78480000
		00058		3561	DIRDCBL EQU	*-DIRDCB	
				3562	*		
				3563	DIRREADM READ	DIRDECB, SF, MF=L	
0020B0				3564+	DIRREADM DS	0F	00220000
0020B0	00000000			3565+	DIRDECB DC	F'0' EVENT CONTROL BLOCK	00260000
0020B4	00			3566+	DC	X'00' TYPE FIELD	00500000
0020B5	80			3567+	DC	X'80' TYPE FIELD	00840000
0020B6	0000			3568+	DC	AL2(0) LENGTH	00940000
0020B8	00000000			3569+	DC	A(0) DCB ADDRESS	01040000
0020BC	00000000			3570+	DC	A(0) AREA ADDRESS	01140000
0020C0	00000000			3571+	DC	A(0) RECORD POINTER WORD	01160000
		00014		3572	DIRDECBL EQU	*-DIRDECB	
				3573	*		

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT ASM 0201 17.21 05/18/19

```
3575 *      * /*****  
3576 *      * /* E Q U A T E S */  
3577 *      * /*****  
3578 *      *  
3579 *      * /*****  
3580 *      * /* IKJCT441 Entry Code Values */  
3581 *      * /*****  
00002 3582 TSVEUPDT EQU 2 Update/Create Request  
3583 *      *  
3584 *      * /*****  
3585 *      * /* Register Equates */  
3586 *      * /*****  
3587 YREGS Register EQU as Rn or Rnn
```

00000	3589+R0	EQU	0	00060000
00001	3590+R1	EQU	1	00070000
00002	3591+R2	EQU	2	00080000
00003	3592+R3	EQU	3	00090000
00004	3593+R4	EQU	4	00100000
00005	3594+R5	EQU	5	00110000
00006	3595+R6	EQU	6	00120000
00007	3596+R7	EQU	7	00130000
00008	3597+R8	EQU	8	00140000
00009	3598+R9	EQU	9	00150000
0000A	3599+R10	EQU	10	00160000
0000B	3600+R11	EQU	11	00170000
0000C	3601+R12	EQU	12	00180000
0000D	3602+R13	EQU	13	00190000
0000E	3603+R14	EQU	14	00200000
0000F	3604+R15	EQU	15	00210000

```
3606 *  
3607 *R0 EQU 0  
3608 *R1 EQU 0  
3609 *R2 EQU 0  
3610 *R3 EQU 0  
3611 *R4 EQU 0  
3612 *R5 EQU 0  
3613 *R6 EQU 0  
3614 *R7 EQU 0  
3615 *R8 EQU 0  
3616 *R9 EQU 0  
3617 *R10 EQU 0  
3618 *R11 EQU 0  
3619 *R12 EQU 0  
3620 *R13 EQU 0  
3621 *R14 EQU 0  
3622 *R15 EQU 0  
3623 *  
3624 *      * /*****  
3625 *      * /* Other Equates */  
3626 *      * /*****  
00028 3627 DDNAM EQU 40 DDNAME DCB offset  
3628 *
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3630 *	*	
				3631 *	/* *****/	
				3632 *	/* System DSECTs */	
				3633 *	/* *****/	
				3634	IHAPSA Prefixed Save Area	
				3635+*%PSAL1 :	;	00250002
				3636+*		00300002
				3637+*/	*****	*/ 00350002
				3638+*/		*/ 00400002
				3639+*/	PREFIXED SAVE AREA	*/ 00450002
				3640+*/		*/ 00500002
				3641+*/	OS/V S2 SU64, 03/08/79, LEVEL=6	*/ 00502000
				3642+*/		*/ 00600002
				3643+*/	METHOD OF ACCESS	*/ 00650002
				3644+*/	BAL - DSECT IS PRODUCED UNLESS DSECT=NO IS SPECIFIED.	*/ 00700002
				3645+*/	USING ON PSA GIVES ADDRESSABILITY FOR ALL SYMBOLS.	*/ 00710002
				3646+*/	PL/S - PSA WILL BE BASED(0) FOR PL/S I OR LOCATION(0) FOR	*/ 00720002
				3647+*/	PL/S II UNLESS %PSABASE IS SET TO SOME OTHER VALUE	*/ 00730002
				3648+*/	BEFORE INCLUDE FOR MACRO.	*/ 00740002
				3649+*/		*/ 00750002
				3650+*/	NOTE	*/ 00800002
				3651+*/	THE LABELS BEGINNING WITH PSA OR FLC ARE THE PROPER LABELS	*/ 00850002
				3652+*/	TO USE. THE OTHER LABELS ARE GIVEN AS ALIAS NAMES FOR	*/ 00900002
				3653+*/	COMPATIBILITY WITH LABELS USED FOR SYSTEM 360 LOW CORE.	*/ 00910002
				3654+*/		*/ 00950002
				3655+*/	*****	*/ 01000002
				3656+*		01050002
				3657+*%GOTO PSAL2;	/*	01100002
000000				3659+PSA	DSECT	01250002
		00000		3660+FLC	EQU *	01510002
000000				3661+FLCIPPSW	DS 0CL8 - IPL PSW	01511002
000000	040E0000			3662+FLCRNPSW	DC XL4'040E0000' -RESTART NEW PSW (AFTER IPL)	MDC001 01512002
000004	00000000			3663+	DC V(IEAVRSTR) - SECOND HALF OF RESTART NEW PSW	MDC128 01513002
		00000		3664+IPLPSW	EQU FLCIPPSW --- ALIAS	01514002
000008				3665+FLCICW1	DS 0CL8 - IPL CCW1	01515002
000008	0000000000000000			3666+FLCROPSW	DC XL8'00' - RESTART OLD PSW (AFTER IPL)	01516002
000010				3667+FLCICW2	DS 0CL8 - IPL CCW2	01517002
000010	00000000			3668+FLCCVT	DC V(IEACVT) - ADDRESS OF CVT (AFTER IPL)	01518002
000014	00000000			3669+	DC XL4'00' - RESERVED (AFTER IPL)	01519002
000018	0000000000000000			3670+FLCEOPSW	DC XL8'00' - EXTERNAL OLD PSW	01520002
		00018		3671+EXOPSW	EQU FLCEOPSW --- ALIAS	01521002
000020	0000000000000000			3672+FLCSOPSW	DC XL8'00' - SVC OLD PSW	01522002
		00020		3673+SVCOPSW	EQU FLCSOPSW --- ALIAS	01523002
000028	0000000000000000			3674+FLCPOPSW	DC XL8'00' - PROGRAM CHECK OLD PSW	01524002
		00028		3675+PIOPSW	EQU FLCPOPSW --- ALIAS	01525002
000030	0000000000000000			3676+FLCMOPSW	DC XL8'00' - MACHINE CHECK OLD PSW	01526002
		00030		3677+MCOPSW	EQU FLCMOPSW --- ALIAS	01527002
000038	0000000000000000			3678+FLCIOPSW	DC XL8'00' - INPUT/OUTPUT OLD PSW	01528002
		00038		3679+IOPSW	EQU FLCIOPSW --- ALIAS	01529002
000040	0000000000000000			3680+FLCCSW	DC XL8'00' - CHANNEL STATUS WORD	01530002
000048	00000000			3681+FLCCAW	DC XL4'00' - CHANNEL ADDRESS WORD	01531002
00004C	00000000			3682+FLCCVT2	DC V(IEACVT) - ADDRESS OF CVT - USED BY DUMP	01532002
				3683+*	ROUTINES	ICB319 01533002
000050	FFFFFFFF			3684+FLCTIMER	DC XL4'FFFFFFFF' -TIMER	01534002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00050	3685+TIMER	EQU	FLCTIMER	01535002
000054	00000000			3686+FLCTRACE	DC	A(0) - ADDRESS OF TRACE TABLE HEADER	YM2703 01536002
000058	040C0000			3687+FLCENPSW	DC	XL4'040C0000' -EXTERNAL NEW PSW	01537002
00005C	00000000			3688+	DC	V(IEAQEX00) - SECOND HALF OF EXTERNAL NEW PSW	01538002
			00058	3689+EXNPSW	EQU	FLCENPSW --- ALIAS	01539002
000060	040C0000			3690+FLCSNPSW	DC	XL4'040C0000' -SVC NEW PSW	01540002
000064	00000000			3691+	DC	V(IEAQSC00) - SECOND HALF OF SVC NEW PSW	01541002
			00060	3692+SVCNPSW	EQU	FLCSNPSW --- ALIAS	01542002
000068	000E0000			3693+FLCPNPSW	DC	XL4'000E0000' -PROGRAM CHECK NEW PSW	MDC002 01543002
00006C	00000000			3694+	DC	V(IEAQP00) - SECOND HALF OF PROGRAM CHECK NEW PSW	01544002
			00068	3695+PINPSW	EQU	FLCPNPSW --- ALIAS	01545002
000070	00080000			3696+FLCMNPSW	DC	XL4'00080000' -MACHINE CHECK NEW PSW	MDC003 01546002
000074	00000000			3697+	DC	V(IGFPMC00) - SECOND HALF OF MACHINE CHECK NEW PSW	01547002
				3698+*			MDC003 01548002
			00070	3699+MCNPSW	EQU	FLCMNPSW --- ALIAS	01549002
000078	040C0000			3700+FLCINPSW	DC	XL4'040C0000' -INPUT/OUTPUT NEW PSW	01549202
00007C	00000000			3701+	DC	V(IEAQI000) - SECOND HALF OF I/O NEW PSW	01549402
			00078	3702+IONPSW	EQU	FLCINPSW --- ALIAS	01549602
000080	00000000			3703+	DC	XL4'00' - RESERVED	01549802
000084				3704+PSAEEPSW	DS	0F - EXTENDED PSW DATA STORED ON EXTERNAL	01549902
				3705+*		INTERRUPT	MDC084 01550002
000084	0000			3706+PSASPAD	DC	H'0' - ISSUING PROCESSOR'S PHYSICAL ADDRESS ON	01550202
				3707+*		EMS OR EXTERNAL CALL INTERRUPT	MDC046 01550602
000086	0000			3708+FLCEICOD	DC	H'0' - EXTERNAL INTERRUPTION CODE	01550902
			00086	3709+EXCODE	EQU	FLCEICOD --- ALIAS	01551102
000088				3710+PSAESPSW	DS	0F - EXTENDED PSW DATA STORED ON SVC	01551202
				3711+*		INTERRUPT	MDC085 01551902
000088	00			3712+	DC	XL1'00' - RESERVED - SET TO ZERO	01557302
000089	00			3713+FLCSVILC	DC	FL1'0' - SVC INSTRUCTION LENGTH COUNTER -	01558002
				3714+*		NUMBER OF BYTES	MDC079 01558602
			00007	3715+FLCSILCB	EQU	X'07' - SIGNIFICANT BITS IN ILC FIELD - LAST	01558702
				3716+*		BIT IS ALWAYS ZERO	MDC080 01559502
			00089	3717+SVCILC	EQU	FLCSVILC --- ALIAS	01560202
00008A	0000			3718+FLCSVCN	DC	H'0' - SVC INTERRUPTION CODE - SVC NUMBER	MDC081 01560402
			0008A	3719+SVCNUM	EQU	FLCSVCN --- ALIAS	01560802
00008C				3720+PSAEPPSW	DS	0CL8 - EXTENDED PSW FOR PROGRAM INTERRUPT	MDC086 01561402
00008C	00			3721+	DC	XL1'00' - RESERVED - SET TO ZERO	01561502
00008D	00			3722+FLCPIILC	DC	FL1'0' - PROGRAM INTERRUPT LENGTH COUNTER -	01562202
				3723+*		NUMBER OF BYTES IN INSTRUCTION CAUSING	01562802
				3724+*		PROGRAM INTERRUPTION	MDC082 01562902
			00007	3725+FLCPILCB	EQU	X'07' - SIGNIFICANT BITS IN ILC FIELD - LAST	01563102
				3726+*		BIT IS ALWAYS ZERO	MDC083 01563302
			0008D	3727+PIILC	EQU	FLCPIILC --- ALIAS	01563602
00008E				3728+FLCPICOD	DS	0H - PROGRAM INTERRUPTION CODE	01564302
			0008E	3729+PICODE	EQU	FLCPICOD --- ALIAS	01565002
00008E	00			3730+PSARV049	DC	XL1'00' - RESERVED FOR IMPRECISE INTERRUPTS	MDC087 01565502
00008F	00			3731+PSAPICOD	DC	FL1'0' - 8-BIT INTERRUPT CODE	MDC088 01565602
			00080	3732+PSAPIPER	EQU	X'80' - PER INTERRUPT OCCURRED	MDC089 01565702
			00040	3733+PSAPIMC	EQU	X'40' - MONITOR CALL INTERRUPT OCCURRED	MDC090 01565802
			0003F	3734+PSAPIPC	EQU	X'3F' - AN UNSOLICITED PROGRAM CHECK HAS	01565902
				3735+*		OCCURRED IF ANY OF THESE 6 BITS ARE	01566002
				3736+*		ON	MDC091 01566102
000090				3737+FLCTEA	DS	0A - TRANSLATION EXCEPTION ADDRESS	01566302
000090	00			3738+	DC	XL1'00' - RESERVED - SET TO ZERO	01566402
000091	000000			3739+FLCTEAA	DC	AL3(0) - TRANSLATION EXCEPTION ADDRESS	01567102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000094	00			3740+	DC	XL1'00' -	RESERVED - SET TO ZERO 01567802
000095	00			3741+FLCMCNUM	DC	XL1'00' -	MONITOR CLASS NUMBER 01568502
000096	00			3742+FLCPCERCD	DC	XL1'00' -	PROGRAM EVENT RECORDING CODE 01569202
000097	00			3743+	DC	XL1'00' -	RESERVED - SET TO ZERO 01569902
000098				3744+FLCPCER	DS	0A -	PER ADDRESS 01570602
000098	00			3745+	DC	XL1'00' -	RESERVED - SET TO ZERO 01571302
000099	000000			3746+FLCPCERA	DC	AL3(0) -	PER ADDRESS 01572002
00009C	00			3747+	DC	XL1'00' -	RESERVED - SET TO ZERO 01572702
00009D	000000			3748+FLCMTRCD	DC	XL3'00' -	MONITOR CODE 01573402
0000A0	000000000000000000			3749+	DC	XL8'00' -	RESERVED 01574102
0000A8				3750+FLCMCLA	DS	0XL344 -	MACHINE CHECK LOGOUT AREA 01574802
0000A8				3751+FLCCHNID	DS	0XL4 -	CHANNEL ID SET BY STIDC (MDC436) @G51BP9A 01574951
0000A8	0000			3752+FLCCHTM	DC	XL2'00' -	CHANNEL TYPE (4 BITS) AND MODEL NUMBER 01575551
				3753+*			(12 BITS) (MDC437) @G51BP9A 01575651
0000AA	0000			3754+FLCCHIL	DC	H'0' -	I/O EXTENDED LOGOUT (IOEL) LENGTH 01575751
				3755+*			(MDC440) @G51BP9A 01575851
0000AC				3756+FLCIOEL	DS	0A -	SAME AS FLCIOELA BELOW 01576202
0000AC	00			3757+	DC	XL1'00' -	RESERVED 01576902
0000AD	000000			3758+FLCIOELA	DC	AL3(0) -	I/O EXTENDED LOGOUT (IOEL) POINTER 01577602
0000B0	00000000			3759+FLCLCL	DC	XL4'00' -	LIMITED CHANNEL LOGOUT (ECSW) 01578302
0000B4	0000			3760+	DC	XL2'00' -	RESERVED 01579002
0000B6	00			3761+	DC	XL1'00' -	RESERVED MDC051 01579702
0000B7	00			3762+	DC	XL1'00' -	RESERVED MDC052 01580402
0000B8				3763+FLCIOA	DS	0A -	I/O ADDRESS 01581102
0000B8	00			3764+	DC	XL1'00' -	RESERVED 01581802
0000B9	000000			3765+FLCIOAA	DC	AL3(0) -	I/O ADDRESS 01582502
0000BC	000000000000000000			3766+	DC	XL44'00' -	RESERVED 01583202
0000E8	000000000000000000			3767+FLCMCIC	DC	XL8'00' -	MACHINE-CHECK INTERRUPTION CODE 01583902
0000F0	00000000			3768+	DC	XL4'00' -	RESERVED @G51BP9A 01584251
0000F4	00			3769+PSAMEDC	DC	XL1'00' -	EXTERNAL DAMAGE CODE (MDC441) @G51BP9A 01584651
				3770+*	EQU	X'80' -	RESERVED @G51BP9A 01584751
		00040		3771+PSAMCOPR	EQU	X'40' -	CHANNEL CHANGED FROM NOT OPERATIONAL TO 01584851
				3772+*			OPERATIONAL STATE (MDC442) @G51BP9A 01584951
		00020		3773+PSAMEXSR	EQU	X'20' -	EXTERNAL SECONDARY REPORT 01585051
				3774+*			(MDC443) @G51BP9A 01585151
		00010		3775+PSAMCNOP	EQU	X'10' -	CHANNEL ENTERED NOT OPERATIONAL STATE 01585251
				3776+*			WITHOUT PERFORMING I/O SYSTEM RESET 01585951
				3777+*			(MDC444) @G51BP9A 01586051
		00008		3778+PSAMCCF	EQU	X'08' -	CHANNEL CONTROL FAILURE (MDC445) @G51BP9A 01586151
		00004		3779+PSAMINST	EQU	X'04' -	I/O INSTRUCTION TIMEOUT (MDC446) @G51BP9A 01586251
		00002		3780+PSAMINTR	EQU	X'02' -	I/O INTERRUPTION TIMEOUT 01586351
				3781+*			(MDC447) @G51BP9A 01586451
		00001		3782+PSAMDISC	EQU	X'01' -	DISCONNECT CHANNEL SET (DISCS) 01586551
				3783+*			INSTRUCTION CANNOT BE COMPLETED 01587251
				3784+*			(MDC448) @G51BP9A 01587351
0000F5	000000			3785+	DC	XL3'00' -	ZEROES (MDC449) @G51BP9A 01587451
0000F8				3786+FLCFSA	DS	0A -	FAILING STORAGE ADDRESS 01587551
0000F8	00			3787+	DC	XL1'00' -	ZEROES 01587651
0000F9	000000			3788+FLCFSA	DC	AL3(0) -	FAILING STORAGE ADDRESS 01587951
0000FC	00000000			3789+FLCRGNCD	DC	XL4'00' -	REGION CODE 01588051
000100	000000000000000000			3790+FLCFLA	DC	XL96'00' -	FIXED LOGOUT AREA 01588102
000160	000000000000000000			3791+FLCFPSAV	DC	XL32'00' -	FLOATING POINT REGISTER SAVE AREA 01588802
000180	000000000000000000			3792+FLCGRSAV	DC	16F'0' -	GENERAL REGISTER SAVE AREA 01589502
0001C0	000000000000000000			3793+FLCCRSAV	DC	16F'0' -	CONTROL REGISTER SAVE AREA 01590202
000200				3794+FLCHDEND	DS	0D -	END OF HARDWARE ASSIGNMENTS 01590902

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000200	D7E2C140			3796+PSAPSA	DC	CL4'PSA ' -	CONTROL BLOCK ACRONYM IN EBCDIC 01599302
000204	0000			3797+PSACPUPA	DC	H'0' -	PHYSICAL CPU ADDRESS (CHANGED DURING ACR) 01600002
				3798+*			(MDC130) YM3489 01620002
000206	0000			3799+PSACPULA	DC	H'0' -	LOGICAL CPU ADDRESS 01650002
000208	00000000			3800+PSAPCCAV	DC	A(0) -	VIRTUAL ADDRESS OF PCCA 01700002
00020C	00000000			3801+PSAPCCAR	DC	A(0) -	REAL ADDRESS OF PCCA 01750002
000210	00000000			3802+PSALCCAV	DC	A(0) -	VIRTUAL ADDRESS OF LCCA 01800002
000214	00000000			3803+PSALCCAR	DC	A(0) -	REAL ADDRESS OF LCCA 01850002
000218	00000000			3804+PSATNEW	DC	A(0) -	TCB NEW POINTER 01900002
		00218		3805+IEATCBP	EQU	PSATNEW -	ALIAS 01910002
00021C	00000000			3806+PSATOLD	DC	A(0) -	TCB OLD POINTER 01950002
000220	00000000			3807+PSAANew	DC	A(0) -	ASCB NEW POINTER 02000002
000224	00000000			3808+PSAAOLD	DC	A(0) -	ASCB OLD POINTER 02050002
000228				3809+PSASUPER	DS	0BL4 -	SUPERVISOR CONTROL WORD 02100002
000228	00			3810+PSASUP1	DC	XL1'00' -	FIRST BYTE OF PSASUPER 02150002
		00080		3811+PSAIO	EQU	X'80' -	I/O FLIH 02200002
		00040		3812+PSASVC	EQU	X'40' -	SVC FLIH 02250002
		00020		3813+PSAEXT	EQU	X'20' -	EXTERNAL FLIH 02300002
		00010		3814+PSAPI	EQU	X'10' -	PROGRAM CHECK FLIH 02350002
		00008		3815+PSALOCK	EQU	X'08' -	LOCK ROUTINE 02400002
		00004		3816+PSADISP	EQU	X'04' -	DISPATCHER 02450002
		00002		3817+PSATCTL	EQU	X'02' -	TCTL RECOVERY FLAG (MDC310) @Z40FP9A 02500004
		00001		3818+PSATYPE6	EQU	X'01' -	TYPE 6 SVC IN CONTROL (MDC311) @Z40FP9A 02530004
000229	00			3819+PSASUP2	DC	XL1'00' -	SECOND BYTE OF PSASUPER 02600002
		00080		3820+PSAIPCRI	EQU	X'80' -	SIGP - REMOTE IMMEDIATE 02650002
		00040		3821+PSAGTF	EQU	X'40' -	GTF GIVEN CONTROL FROM FLIH 02700002
		00020		3822+PSAIPCEC	EQU	X'20' -	EXTERNAL CALL SLIH IS ACTIVE MDC047 02750002
		00010		3823+PSAIPCES	EQU	X'10' -	EMERGENCY SIGNAL SLIH IS ACTIVE MDC048 02800002
		00008		3824+PSAIPCE2	EQU	X'08' -	EMERGENCY SIGNAL (EMS) SLIH RECURSIVE 02850002
				3825+*			ENTRY FLAG MDC110 02860002
		00004		3826+PSAACR	EQU	X'04' -	AUTOMATIC CPU RECONFIGURATION (ACR) IN 02910002
				3827+*			CONTROL MDC119 02960002
		00002		3828+PSARTM	EQU	X'02' -	RECOVERY TERMINATION MONITOR (RTM) IN 02970002
				3829+*			CONTROL MDC120 02980002
		00001		3830+PSALCR	EQU	X'01' -	LOW CORE REFRESH ROUTINE IS ACTIVE MDC126 03030002
00022A	00			3831+PSASUP3	DC	XL1'00' -	THIRD BYTE OF PSASUPER 03050002
		00080		3832+PSAIOSUP	EQU	X'80' -	IF ON, A MAINLINE IOS COMPONENT SUCH AS 03100002
				3833+*			CHANNEL SCHEDULER HAS ENTERED A 03110002
				3834+*			PHYSICALLY DISABLED STATE WITHOUT REGARD 03120002
				3835+*			TO LOCKING REQUIREMENTS MDC027 03130002
		00040		3836+PSAPI2	EQU	X'40' -	PROGRAM CHECK FLIH RECURSION 03150003
				3837+*			(MDC301) @ZM08516 03200003
		00020		3838+PSAPSREG	EQU	X'20' -	PSA RECOVERY RECURSION (MDC302) @ZM08516 03220003
		00010		3839+PSASPR	EQU	X'10' -	SUPER FRR IS ACTIVE (MDC305) @ZA02995 03250004
		00008		3840+PSAESTA	EQU	X'08' -	ESTAE RECOVERY ROUTINE ACTIVE 03300004
				3841+*			(MDC312) @Z40FP9A 03310004
		00004		3842+PSARV012	EQU	X'04' , , C'X' -	RESERVED 03350002
		00002		3843+PSAULCMS	EQU	X'02' -	LOCK MANAGER UNCONDITIONAL LOCAL OR 03400051
				3844+*			CMS LOCK ROUTINES (MDC469) @ZA28594 03410051
		00001		3845+PSASLIP	EQU	X'01' -	IEAVTSLP RECURSION CONTROL BIT 03450064
				3846+*			(MDC471) @G64RP9A 03460064
00022B	00			3847+PSASUP4	DC	XL1'00' -	FOURTH BYTE OF PSASUPER 03500002
		00080		3848+PSALDWT	EQU	X'80' -	IF ON, IEEVLDWT IS ACTIVE AND PROCESSING 03550064
				3849+*			STOP/RESTART REQUEST (MDC597) @G64UP9A 03560064
		00040		3850+PSARV016	EQU	X'40' , , C'X' -	RESERVED 03600002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00020	3851+PSARV017	EQU	X'20',,C'X' - RESERVED	03650002
			00010	3852+PSARV018	EQU	X'10',,C'X' - RESERVED	03700002
			00008	3853+PSARV019	EQU	X'08',,C'X' - RESERVED	03750002
			00004	3854+PSARV020	EQU	X'04',,C'X' - RESERVED	03800002
			00002	3855+PSARV021	EQU	X'02',,C'X' - RESERVED	03850002
			00001	3856+PSARV022	EQU	X'01',,C'X' - RESERVED	03900002
00022C	000000000000000000			3857+PSAGPREG	DC	3F'0' - REGISTER SAVE AREA FOR I/O FLIH, SVC	03950002
				3858+*		FLIH, EXTERNAL FLIH AND SYSTEM TRACE	04000002
000238	000000000			3859+PSARSREG	DC	F'0' - RESTART FLIH REGISTER SAVE	04050002
00023C	000000000			3860+PSAPIREG	DC	F'0' - PROGRAM CHECK FLIH REGISTER SAVE	04100002
000240				3861+	DS	0D - ALIGN PSAEXPS1 TO DOUBLE WORD	04110002
000240	000000000000000000			3862+PSAEXPS1	DC	XL8'00' - EXTERNAL FLIH PSW SAVE AREA 1	04150002
000248				3863+	DS	0D - ALIGN PSAEXPS2 TO DOUBLE WORD	04160002
000248	000000000000000000			3864+PSAEXPS2	DC	XL8'00' - EXTERNAL FLIH PSW SAVE AREA 2	04200002
000250				3865+	DS	0D - ALIGN PSAMPSW TO DOUBLE WORD	04210002
000250	000C00000000000000			3866+PSAMPSW	DC	XL8'000C000000000000' - SETLOCK MODEL PSW	04250002
000258				3867+	DS	0D - ALIGN PSAMCHEX TO DOUBLE WORD	04260002
000258	000000000000000000			3868+PSAMCHEX	DC	XL8'00' - MCH EXIT PSW	04300002
000260	AD00			3869+PSAIPCR	DC	X'AD00' - FIRST HALF OF IPC INSTRUCTION TO BE	04350002
				3870+*		EXECUTED	04400002
000262	0264			3871+	DC	Y(PSAIPCRM-PSA) - SECOND HALF OF IPC INSTRUCTION	04450002
000264	00			3872+PSAIPCRM	DC	XL1'00' - BYTE USED BY ABOVE IPC INSTRUCTION	04500002
000265	000000			3873+	DC	XL3'00' - RESERVED	04550002
000268	AD00			3874+PSAIPCD	DC	X'AD00' - FIRST HALF OF IPC INSTRUCTION TO BE	04600002
				3875+*		EXECUTED	04650002
00026A	026C			3876+	DC	Y(PSAIPCDM-PSA) - SECOND HALF OF IPC INSTRUCTION	04700002
00026C	00			3877+PSAIPCDM	DC	XL1'00' - BYTE USED BY ABOVE IPC INSTRUCTION	04750002
00026D	00			3878+PSAIPCC3	DC	XL1'00' - BYTE USED BY IPC FOR CC3 STNSM @ZM49378	04800064
				3879+*		(MDC598)	04810064
00026E	0000			3880+	DC	XL2'00' - RESERVED @ZM49378	04820064
000270	00000000			3881+PSAIPCSA	DC	F'0' - IPC REGISTER SAVE AREA MDC049	04850002
000274	00000000			3882+PSAHLHIS	DC	F'0' - SAVE AREA FOR PSAHLHI MDC050	04900002
000278	00			3883+PSARECUR	DC	XL1'00' - RESTART FLIH RECURSION INDICATOR. IF	04950002
				3884+*		X'00', FLIH NOT IN CONTROL. IF X'FF',	04960002
				3885+*		FLIH IN CONTROL, ENTRY IS RECURSIVE.	04970002
				3886+*		MDC093	04980002
000279	00			3887+PSADSSGO	DC	XL1'00' - INITIALIZE DSS FLAG, SET BY OPERATOR.	04990002
				3888+*		IF X'00', DSS NOT TO BE ACTIVATED. IF	04992002
				3889+*		NOT X'00', NEXT RESTART INTERRUPT FROM	04994002
				3890+*		CONSOLE SHOULD INITIALIZE DSS. MDC094	04996002
00027A	00			3891+PSASNSM2	DC	XL1'00' - STNSM AREA FOR IEAVTRT1 (MDC470) @G64RP9A	04998064
00027B	00			3892+PSARV050	DC	XL1'00' - RESERVED	04998264
00027C	00000000			3893+PSASRSA	DC	A(0) - REAL ADDRESS OF SAVE AREA USED DURING	04998402
				3894+*		STOP AND RESTART SUBROUTINE MDC095	04998802
000280				3895+PSACLHT	DS	0CL56 - CPU LOCKS HELD TABLE. INITIALIZED TO	05000002
				3896+*		ZERO. IF LOCK IS HELD, WORD REPRESENTING	05050002
				3897+*		LOCK HAS ITS ADDRESS.	05100002
000280	00000000			3898+PSADISPL	DC	A(0) - GLOBAL DISPATCHER LOCK	05150002
000284	00000000			3899+PSAASML	DC	A(0) - AUXILIARY STORAGE MANAGEMENT (ASM) LOCK	05160002
				3900+*		MDC002	05162002
000288	00000000			3901+PSASALCL	DC	A(0) - SPACE ALLOCATION LOCK MDC003	05170002
00028C	00000000			3902+PSAIOSSL	DC	A(0) - IOS SYNCHRONIZATION LOCK MDC010	05180002
000290	00000000			3903+PSAIOSCL	DC	A(0) - IOS CHANNEL AVAILABLE TABLE LOCK MDC004	05200002
000294	00000000			3904+PSAIOSUL	DC	A(0) - IOS UNIT CONTROL BLOCK LOCK MDC005	05300002
000298	00000000			3905+PSAIOSLL	DC	A(0) - IOS LOGICAL CHANNEL QUEUE LOCK MDC006	05400002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
00029C	000000000			3906+PSATPNCL	DC	A(0) -	TCAM'S TPNCP LOCK MDC007 05510002
0002A0	000000000			3907+PSATPDNL	DC	A(0) -	TCAM'S TPDNCB LOCK MDC008 05520002
0002A4	000000000			3908+PSATPACL	DC	A(0) -	TCAM'S TPACBDEB LOCK MDC009 05530002
0002A8	000000000			3909+PSAOPTL	DC	A(0) -	OPTIMIZER LOCK 05650002
0002AC	000000000			3910+PSACMSL	DC	A(0) -	CROSS MEMORY SERVICES LOCK 05700002
0002B0	000000000			3911+PSALOCAL	DC	A(0) -	LOCAL LOCK 05800002
0002B4	000000000			3912+PSARV023	DC	A(0) -	RESERVED LOCK 05810002
0002B8				3913+PSALKSA	DS	0CL64 -	SETLOCK REGISTER SAVE AREA 05850002
0002B8	000000000			3914+PSALKR0	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 0 05860002
0002BC	000000000			3915+PSALKR1	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 1 05870002
0002C0	000000000			3916+PSALKR2	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 2 05880002
0002C4	000000000			3917+PSALKR3	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 3 05890002
0002C8	000000000			3918+PSALKR4	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 4 05892002
0002CC	000000000			3919+PSALKR5	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 5 05894002
0002D0	000000000			3920+PSALKR6	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 6 05896002
0002D4	000000000			3921+PSALKR7	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 7 05898002
0002D8	000000000			3922+PSALKR8	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 8 05898402
0002DC	000000000			3923+PSALKR9	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 9 05898802
0002E0	000000000			3924+PSALKR10	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 10 05899202
0002E4	000000000			3925+PSALKR11	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 11 05899602
0002E8	000000000			3926+PSALKR12	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 12 05899702
0002EC	000000000			3927+PSALKR13	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 13 05899802
0002F0	000000000			3928+PSALKR14	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 14 05899902
0002F4	000000000			3929+PSALKR15	DC	F'0' -	SETLOCK'S CALLER'S REGISTER 15 05916602
0002F8				3930+PSACLHS	DS	0F -	CPU LOCKS HELD STRING MDC122 05926602
0002F8	000000000			3931+PSAHLHI	DC	F'0' -	HIGHEST LOCK HELD INDICATOR MDC121 05933302
0002FC	000000000			3932+PSALITA	DC	V(IEAVELIT) -	ADDRESS OF LOCK INTERFACE TABLE 05950002
000300				3933+	DS	0D -	ALIGN PSAPSWSV TO DOUBLE WORD 05960002
000300	000000000000000000			3934+PSAPSWSV	DC	XL8'00' -	PSW SAVE AREA FOR DISPATCHER AND ACR 06000002
000308	000000000			3935+PSACR0	DC	F'0' -	SAVE AREA FOR CONTROL REGISTER 0 06050002
00030C	00			3936+PSAMCHFL	DC	XL1'00' -	MCH RECURSION FLAGS 06100002
00030D	00			3937+PSASYMSK	DC	XL1'00' -	THIS FIELD WILL BE USED IN CONJUNCTION 06110002
				3938+*			WITH THE STNSM INSTRUCTION TO PLACE IOS 06120002
				3939+*			CHANNEL SCHEDULER INTO A DISABLED STATE 06130002
				3940+*			AND SIMULTANEOUSLY SAVE THE SYSTEM MASK 06140002
				3941+*			OF THE CALLER MDC022 06142002
00030E	00			3942+PSAACTCD	DC	XL1'00' -	ACTION CODE SUPPLIED BY OPERATOR AFTER 06143051
				3943+*			SYSTEM HAS LOADED RESTARTABLE WAIT STATE 06144051
				3944+*			AND BEFORE THE RESTART KEY IS DEPRESSED. 06146051
				3945+*			VALUE DEPENDS ON RESTARTABLE WAIT STATE 06148051
				3946+*			CODE. UNPREDICTABLE DURING NORMAL SYSTEM 06150051
				3947+*			OPERATION. (MDC433) @G51BP9A 06152051
00030F	00			3948+PSAMCHIC	DC	XL1'00' -	MCH INITIALIZATION COMPLETE FLAGS MDC098 06156002
000310	000000000			3949+PSAWKRAP	DC	A(0) -	REAL ADDRESS OF VARY CPU PARAMETER LIST 06160002
				3950+*			MDC106 06170002
000314	000000000			3951+PSAWKVAP	DC	A(0) -	VIRTUAL ADDRESS OF VARY CPU PARAMETER 06180002
				3952+*			LIST MDC107 06190002
000318	0000			3953+PSAVSTAP	DC	H'0' -	WORK AREA FOR VARY CPU MDC108 06190402
00031A	0000			3954+PSACPUSA	DC	H'0' -	PHYSICAL CPU ADDRESS (STATIC) (MDC131) 06190802
				3955+*			YM3489 06191402
00031C	000000000			3956+PSASTOR	DC	F'0' -	MASTER MEMORY'S SEGMENT TABLE ORIGIN 06192002
				3957+*			REGISTER (STOR) VALUE 06194002
000320	000000000			3958+PSADSSRS	DC	F'0' -	REGISTER SAVE FOR DSS PROGRAM AND SVC 06196002
				3959+*			INTERRUPT HANDLERS MDC053 06198002
000324	000000000			3960+PSADSSR2	DC	F'0' -	REGISTER SAVE AREA FOR DSS I/O AND 06198102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				3961+*	EXTERNAL INTERRUPT HANDLERS	MDC054 06198202
000328	00000000			3962+PSADSSR3 DC	F'0' - REGISTER SAVE AREA FOR DSS ERROR RECOVERY	06198302
				3963+*	ROUTINE	MDC055 06199502
00032C	00000000			3964+PSADSSWK DC	F'0' - WORK AREA FOR DSS INTERRUPT HANDLERS	06201502
				3965+*		MDC056 06201902
000330	0000000000000000			3966+PSADSSTS DC	5F'0' - REGISTER SAVE FOR DSS MODULES MAKING	06202002
				3967+*	CALLS TO IQATSS	MDC023 06203202
000344				3968+PSADSSFL DS	0BL4 - DSS FLAG BYTES	MDC024 06204402
000344	00			3969+PSADSSF1 DC	XL1'00' - DSS STATUS BYTE	MDC029 06205602
		00080		3970+PSADSSMV EQU	X'80' - DSS MONITORING, VS2 RUNNING	MDC030 06206802
		00040		3971+PSADSSDM EQU	X'40' - DSS IN VS2-2 VM	MDC031 06208002
		00020		3972+PSADSSDD EQU	X'20' - DSS IN DSS VM	MDC032 06209202
		00010		3973+PSADSSDW EQU	X'10' - DSS IN DSS WAIT	MDC033 06210402
		00008		3974+PSADSSTP EQU	X'08' - DSS PROCESSING SIGP	MDC034 06211602
		00004		3975+PSADSSSP EQU	X'04' - DSS SIGP PENDING	MDC035 06212802
		00002		3976+PSADSSOI EQU	X'02' - DSS EXECUTING OVERLAID INSTRUCTION	MDC036 06214002
		00001		3977+PSADSSPI EQU	X'01' - DSS EXECUTING PRIVILEGED INSTRUCTION	06215202
				3978+*		MDC037 06216402
000345	FF			3979+PSADSSF2 DC	XL1'FF' - SYSTEM STATUS BYTE (MDC038)	YM6287 06217602
		000FF		3980+PSADSSPS EQU	X'FF' - SYSTEM RUNNING IN PROBLEM STATE	MDC039 06218802
		000FE		3981+PSADSSSS EQU	X'FE' - SYSTEM RUNNING IN PRIVILEGED STATE	MDC040 06220002
000346	00			3982+PSADSSF3 DC	XL1'00' - DSS FLAG BYTE	MDC099 06221202
		00080		3983+PSADSSGP EQU	X'80' - DSS SIGP INDICATOR	MDC100 06222402
		00040		3984+PSADSSSES EQU	X'40' - ERROR SHORT SAVE INDICATOR	MDC113 06224402
		00020		3985+PSADSSNM EQU	X'20' - NON-MONITORABLE CODE INDICATOR	MDC114 06224502
		00010		3986+PSADSSRW EQU	X'10' - DSS OWNS CVTRSTWD	MDC117 06224602
		00008		3987+PSADSSMC EQU	X'08' - MACHINE CHECK RUNNING (MDC132)	YM6287 06224702
		00004		3988+PSARV055 EQU	X'04' , , C'X' - RESERVED FOR DSS	MDC100 06226002
		00002		3989+PSARV056 EQU	X'02' , , C'X' - RESERVED FOR DSS	MDC100 06226402
		00001		3990+PSARV057 EQU	X'01' , , C'X' - RESERVED FOR DSS	MDC100 06226802
000347	00			3991+PSADSSF4 DC	XL1'00' - DSS RECURSION FLAGS	MDC101 06227702
		00080		3992+PSADSSRC EQU	X'80' - PROGRAM-SVC RECURSION FLAG	MDC057 06229002
		00040		3993+PSADSS12 EQU	X'40' - PROGRAM INTERRUPT 12 RECURSION FLAG	06230302
				3994+*		MDC058 06231602
		00020		3995+PSADSSIE EQU	X'20' - I/O-EXTERNAL RECURSION FLAG	MDC059 06232902
		00010		3996+PSADSSC0 EQU	X'10' - CONTROL REGISTER 0 INVALID FLAG	MDC092 06234202
		00008		3997+PSADSSDE EQU	X'08' - DAT ERROR WHILE DSS RUNNING IN VS2 VM	06236402
				3998+*		MDC102 06238402
		00004		3999+PSADSSVE EQU	X'04' - DAT ERROR WHILE DSS RUNNING IN DSS VM	06240402
				4000+*		MDC103 06240502
		00002		4001+PSADSS10 EQU	X'02' - SEGMENT EXCEPTION RECURSION FLAG	MDC104 06240602
		00001		4002+PSADSS05 EQU	X'01' - ADDRESSING EXCEPTION RECURSION FLAG	06240902
				4003+*		MDC105 06241302
000348				4004+	DS 0D - ALIGN PSADSSRP TO DOUBLEWORD	MDC025 06241602
000348	0000000000000000			4005+PSADSSRP DC	XL8'00' - DSS TO VS2-2 RESUME PSW	MDC025 06242002
000350				4006+	DS 0D - ALIGN PSADSSPP TO DOUBLEWORD	MDC026 06243302
000350	0000000000000000			4007+PSADSSPP DC	XL8'00' - DSS PSW FOR RETURNING CONTROL FROM	06244602
				4008+*	PRIVILEGED INSTRUCTION STREAM TO VS2	06245902
				4009+*		MDC026 06246302
000358	00000000			4010+PSADSS14 DC	F'0' - DSS RESTART SECOND LEVEL INTERRUPT	06248302
				4011+*	HANDLER CONTROL REGISTER 14 SAVE AREA	06248702
				4012+*		MDC115 06249102
00035C	00000000			4013+PSADSSFW DC	F'0' - FULL-WORD DSS WORK AREA	MDC116 06249502
000360	00000000			4014+PSADSSPR DC	F'0' - DSS REGISTER SAVE FOR PRIVILEGED	06249802
				4015+*	INSTRUCTION STREAM	MDC028 06251102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00364	4016+PSADSSSED	EQU	* -	END OF DSS FIELDS MDC045 06252402
000364	000000000			4017+PSARV025	DC	F'0' -	RESERVED FOR DSS 06253702
000368	000000000			4018+PSARV040	DC	F'0' -	RESERVED FOR DSS 06255002
00036C	000000000			4019+PSARV041	DC	F'0' -	RESERVED FOR DSS 06256302
000370	000000000			4020+PSARV042	DC	F'0' -	RESERVED FOR DSS 06257602
000374	000000000			4021+PSARV043	DC	F'0' -	RESERVED FOR DSS 06258902
000378	0000			4022+PSARV153	DC	H'0' -	RESERVED (MDC607) 06260200
00037A	07FE			4023+PSARET	DC	X'07FE' -	BRANCH RETURN TO CALLER, USED BY 06261200
				4024+*			ROUTINES INVOKED BY IOS 06262200
				4025+*			(MDC607) @ZA38630 06263200
00037C	47FFE000			4026+PSARETCD	DC	X'47FFE000' -	BRANCH RETURN TO CALLER WITH RETURN 06264200
				4027+*			CODE IN REGISTER 15, USED BY ROUTINES 06265200
				4028+*			INVOKED BY IOS (MDC607) @ZA38630 06266200
000380				4029+PSARSVT	DS	0CL64 -	RECOVERY STACK VECTOR TABLE MDC064 06271502
000380				4030+PSARSVTE	DS	0CL64 -	RECOVERY STACK VECTOR TABLE MDC065 06273502
000380	000000000			4031+PSACSTK	DC	A(0) -	ADDRESS OF CURRENTLY USED FUNCTIONAL 06273902
				4032+*			RECOVERY ROUTINE (FRR) STACK MDC061 06274302
000384	000000000			4033+PSANSTK	DC	A(0) -	ADDRESS OF NORMAL FRR STACK MDC062 06278602
000388	000000000			4034+PSASSTK	DC	A(0) -	ADDRESS OF SVC-I/O-DISPATCHER FRR STACK 06280602
				4035+*			MDC063 06282602
00038C	000000000			4036+PSASSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06282702
				4037+*			SVC-I/O-DISPATCHER MDC066 06282802
000390	000000000			4038+PSAMSTK	DC	A(0) -	ADDRESS OF MCH FRR STACK MDC067 06287102
000394	000000000			4039+PSAMSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06289102
				4040+*			MCH MDC068 06291102
000398	000000000			4041+PSAPSTK	DC	A(0) -	ADDRESS OF PROGRAM CHECK FLIH FRR STACK 06291202
				4042+*			MDC069 06291302
00039C	000000000			4043+PSAPSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06303002
				4044+*			PROGRAM CHECK FLIH MDC070 06313002
0003A0	000000000			4045+PSAESTK1	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06313402
				4046+*			NON-RECURSIVE ENTRIES MDC071 06313802
0003A4	000000000			4047+PSAESAV1	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06314202
				4048+*			NON-RECURSIVE ENTRIES MDC072 06314602
0003A8	000000000			4049+PSAESTK2	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06314702
				4050+*			FIRST LEVEL RECURSIONS MDC073 06314802
0003AC	000000000			4051+PSAESAV2	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVE BY 06318702
				4052+*			EXTERNAL FLIH FOR FIRST LEVEL RECURSIONS 06320702
				4053+*			MDC074 06321502
0003B0	000000000			4054+PSAESTK3	DC	A(0) -	ADDRESS OF EXTERNAL FLIH FRR STACK FOR 06321902
				4055+*			SECOND LEVEL RECURSIONS AND ACR MDC075 06322302
0003B4	000000000			4056+PSAESAV3	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06322402
				4057+*			EXTERNAL FLIH (ACR) FOR SECOND LEVEL 06322502
				4058+*			RECURSIONS MDC076 06322602
0003B8	000000000			4059+PSARSTK	DC	A(0) -	ADDRESS OF RESTART FLIH FRR STACK MDC077 06326502
0003BC	000000000			4060+PSARSAV	DC	A(0) -	ADDRESS OF INTERRUPTED STACK SAVED BY 06328502
				4061+*			RESTART FLIH MDC078 06328902
0003C0				4062+	DS	0D -	ALIGN PSARPSW TO DOUBLE WORD MDC096 06329302
0003C0	000000000000000000			4063+PSASRPSW	DC	XL8'00' -	RESUME PSW FOR STOP AND RESTART 06329702
				4064+*			SUBROUTINE MDC096 06330102
0003C8				4065+	DS	0D -	ALIGN PSARSPSW TO DOUBLE WORD MDC097 06330202
0003C8	000000000000000000			4066+PSARSPSW	DC	XL8'00' -	RESUME PSW FIELD FOR RESTART INTERRUPT 06330302
				4067+*			HANDLER MDC097 06330402
0003D0				4068+	DS	0D -	ALIGN PSASTART TO DOUBLE WORD MDC111 06332402
0003D0	07FE			4069+PSASTART	BR	14 -	START FATHOM RECORDING MDC111 06332802
0003D2	000000000000000000			4070+	DC	XL14'00' -	REST OF PSASTART MDC111 06333202

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
0003E0				4071+	DS	0D -	ALIGN PSASTOP TO DOUBLE WORD MDC112 06333602
0003E0	07FE			4072+PSASTOP	BR	14 -	STOP FATHOM RECORDING MDC112 06334002
0003E2	0000000000000000			4073+	DC	XL14'00' -	REST OF PSASTOP MDC112 06334102
0003F0				4074+	DS	0F -	ALIGN PSASFACC TO FULL WORD MDC123 06334202
0003F0	8007D000			4075+PSASFACC	DC	XL4'8007D000' -	SETFRR ABEND COMPLETION CODE USED WHEN 06334302
				4076+*			A SETFRR ADD IS ISSUED AGAINST A FULL 06340702
				4077+*			FRR STACK MDC123 06342702
0003F4	581003F0			4078+PSALSFCC	DC	XL4'581003F0' -	A LOAD INSTRUCTION TO PRIME REGISTER 1 06344702
				4079+*			WITH THE SETFRR ABEND COMPLETION CODE IN 06346702
				4080+*			PSASFACC MDC124 06347102
0003F8	0A0D			4081+PSASVC13	SVC	13 -	AN SVC 13 INSTRUCTION MDC125 06347502
0003FA	0000			4082+PSARV059	DC	H'0' -	RESERVED 06347902
0003FC	00000000			4083+PSAPIR2	DC	F'0' -	PROGRAM CHECK FLIH REGISTER SAVE 06348203
				4084+*			(MDC303) @ZM08516 06348603
000400				4085+	DS	0D -	ALIGN PSAPCPSW TO DOUBLE WORD YM0943 06348902
000400	0000000000000000			4086+PSAPCPSW	DC	XL8'00' -	TEMPORARY OLD PSW STORAGE FOR PROGRAM 06349202
				4087+*			FLIH (MDC129) YM0943 06349502
000408	00000000			4088+PSAATCVT	DC	A(0) -	ADDRESS OF VTAM ATCVT. INITIALIZED BY 06349703
				4089+*			VTAM. (MDC300) @Z30AP9A 06350003
00040C	00000000			4090+PSAWTCOD	DC	A(0) -	CALLER-SUPPLIED WAIT STATE INFORMATION 06355004
				4091+*			FOR STOP/RESTART (MDC306) @ZA00904 06357004
000410	00000000			4092+PSACDAL	DC	A(0) -	ADDRESS OF COMMON DISPATCHER ELEMENT FOR 06358004
				4093+*			THIS CPU (MDC307) @Z40FP9A 06359004
000414	0000			4094+PSACSID	DC	H'0' -	CURRENT CHANNEL SET ID (MDC472) @G64AP9A 06360064
000416	0000			4095+PSARV100	DC	H'0' -	RESERVED @G64AP9A 06360364
000418				4096+PSAUSEND	DS	0D -	END OF ASSIGNED FIELDS MDC109 06361003
000418	0000000000000000			4097+	DC	2024XL1'00' -	RESERVED @Z40AQ9A 06367504
000C00				4098+	DS	0D -	ALIGN PSASTAK TO DOUBLE WORD MDC118 06374003
000C00	0000000000000000			4099+PSASTAK	DC	596XL1'00' -	NORMAL FRR STACK (MDC304) @ZM32352 06387003
000E54	0000000000000000			4100+	DC	428XL1'00' -	RESERVED FOR EXPANSION OF PSASTAK 06391003
				4101+*			(MDC304) @ZM32352 06395003
		01000		4102 PSALEN	EQU	*-PSA	Length of PSA

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4104	CVT DSECT=YES,LIST=YES Communication Vector Table	
				4105+*%CVTL1 :	;	00451001
				4106+*/	/*	00500001
				4107+*/	COMMUNICATION VECTOR TABLE	00700001
				4108+*/	/*	00800001
				4109+*/	OS/VS2 SU64, 04/24/80, LEVEL=6	00802003
				4110+*/	/*	01000001
				4111+*/	METHOD OF ACCESS	01001001
				4112+*/	PL/S - DCL CVTPTR PTR	01002001
				4113+*/	BAL - DSECT=YES SHOULD BE SPECIFIED ON MACRO CALL EXCEPT	01003001
				4114+*/	WHEN CALLED DURING SYSGEN TO CREATE CSECT. CVT FOR	01004001
				4115+*/	OS/VS2 IS MAPPED UNLESS SYS=AOS1 IS SPECIFIED. THE	01005002
				4116+*/	PREFIX IS NOT MAPPED UNLESS PREFIX=YES IS SPECIFIED.	01006001
				4117+*/	A USING ON CVTMAP OR DSECT NAME WILL ESTABLISH	01007001
				4118+*/	ADDRESSABILITY FOR ALL SYMBOLS EXCEPT IN THE 2	01008001
				4119+*/	EXTENSIONS. TO ESTABLISH ADDRESSABILITY FOR THE	01009001
				4120+*/	OS - OS/VS COMMON EXTENSION, YOU SHOULD CODE	01010002
				4121+*/	/*	01011001
				4122+*/	L REG,CVTEXT1	01012001
				4123+*/	USING CVTXTNT1,REG	01013001
				4124+*/	/*	01014001
				4125+*/	TO ESTABLISH ADDRESSABILITY FOR THE OS/VS1 - OS/VS2	01015002
				4126+*/	COMMON EXTENSION, YOU SHOULD CODE	01016001
				4127+*/	/*	01017001
				4128+*/	L REG,CVTEXT2	01018001
				4129+*/	USING CVTXTNT2,REG	01019001
				4130+*/	/*	01020001
				4131+*/	WHERE REG IN EITHER CASE IS ANY REGISTER OTHER	01021001
				4132+*/	THAN ZERO.	01022001
				4133+*/	/*	01023001
				4134+*/	WHEN LISTING IS SUPPRESSED, YOU CAN DETERMINE WHICH	01024001
				4135+*/	DSECT A SYMBOL IS IN BY USING THE STATEMENT NUMBER	01025001
				4136+*/	IN THE DEFN COLUMN IN THE CROSS REFERENCE LISTING.	01026001
				4137+*/	FOR EXAMPLE, ANY SYMBOL DEFINED BETWEEN THE	01027001
				4138+*/	STATEMENT NUMBERS FOR CVTXTNT1 AND CVTXTNT2 IS IN	01028001
				4139+*/	THE OS - OS/VS COMMON EXTENSION.	01029002
				4140+*/	/*	01030001
				4141+*/	F.E.'S	01031001
				4142+*/	MICROFICHE LISTING - CVT	01032001
				4143+*/	/*	01033001
				4144+*/	DEVELOPERS	01034001
				4145+*/	BAL LISTING - SPECIFY LIST=YES ON MACRO CALL	01035001
				4146+*/	PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE INCLUDE	01035401
				4147+*/	/*	01037001
				4148+*/	FOR INTEGRATION, A LISTING MUST NOT BE REQUESTED UNLESS	01038001
				4149+*/	YOUR MODULE CREATES THE CSECT.	01039001
				4150+*	/*	01040001
				4151+*%GOTO CVTL2;	/*	01041001
				4152+	PUSH PRINT	03102001
		00010		4153+CVTPTR	EQU 16 - ABSOLUTE ADDRESS OF POINTER TO CVT	03200001
				4154+*	/*	03366701
				4155+*	BEGINNING OF CVT PROPER	03400001
				4156+*	/*	03500001
000000				4157+CVT	DSECT , -	03560001
		00000		4158+CVTMAP	EQU * - CVTPTR CONTENT POINTS HERE	04100001

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4159+*		04300001
000000	00000000			4160+CVTTCBP DC	V(IEATCBP) - ADDRESS OF A DOUBLE WORD, THE FIRST	04400002
				4161+*	CONTAINING THE NEXT-TO-BE-DISPATCHED TCB	04400402
				4162+*	ADDRESS, THE SECOND CONTAINING THE LAST	04400802
				4163+*	(CURRENT) TCB ADDRESS. BOTH WORDS ARE	04401202
				4164+*	IDENTICAL UNLESS THE TASK GOES INTO A	04401602
				4165+*	WAIT STATE. WHEN IN A WAIT STATE, THE	04401702
				4166+*	FIRST WORD IS SET TO ZERO UNTIL THE	04401802
				4167+*	WAITING IS OVER AND THEN BOTH WORDS ARE	04401902
				4168+*	ONCE AGAIN IDENTICAL. (OS/VS1)	04406402
				4169+*	ADDRESS OF 4-WORD LIST OF ADDRESSES -	04411002
				4170+*	THE NEXT TCB, THE CURRENT TCB, THE NEXT	04415502
				4171+*	ASCB AND THE CURRENT ASCB, IN THAT	04420002
				4172+*	ORDER (OS/VS2) MDC026	04430002
000004	00000000			4173+CVT0EF00 DC	V(IEA0EF00) - ADDRESS OF ROUTINE TO SCHEDULE	04500002
				4174+*	ASYNCHRONOUS EXITS	04600002
000008	00000000			4175+CVTLINK DC	V(IEFLINK) - ADDRESS OF DCB FOR SYS1.LINKLIB DATA SET	04700002
00000C	00000000			4176+ DC	A(0) - ** CVTJOB FIELD UNUSED IN MVS **	04830004
				4177+*	(MDC083) @Z40AQ9A	04836004
000010	00000000			4178+CVTBUF DC	A(0) - ADDRESS OF THE BUFFER OF THE RESIDENT	04900002
				4179+*	CONSOLE INTERRUPT ROUTINE	05000002
000014	00000000			4180+CVTXAPG DC	V(IECXAPG) - ADDRESS OF I/O SUPERVISOR APPENDAGE VECTOR	05100002
				4181+*	TABLE	05150002
000018	00000000			4182+CVT0VL00 DC	V(IEA0VL00) - ADDRESS OF ENTRY POINT OF THE TASK	05200002
				4183+*	SUPERVISOR'S ADDRESS VALIDITY CHECKING	05250002
				4184+*	ROUTINE	05300002
00001C	00000000			4185+CVTPCNVT DC	V(IEPCNVT) - ADDRESS OF ENTRY POINT OF THE ROUTINE	05400002
				4186+*	WHICH CONVERTS A RELATIVE TRACK ADDRESS	05450002
				4187+*	(TTR) TO AN ABSOLUTE TRACK ADDRESS	05500002
				4188+*	(MBBCCHHR)	05550002
000020	00000000			4189+CVTPRLTV DC	V(IECPRLTV) - ADDRESS OF ENTRY POINT OF THE ROUTINE	05600002
				4190+*	WHICH CONVERTS AN ABSOLUTE TRACK ADDRESS	05650002
				4191+*	(MBBCCHHR) TO A RELATIVE TRACK ADDRESS	05700002
				4192+*	(TTR)	05750002
000024	00000000			4193+CVTILK1 DC	V(IECILK1) - ADDRESS OF THE CHANNEL AND CONTROL UNIT	05800002
				4194+*	PORTION OF THE UCB LOOKUP TABLE	05900002
000028	00000000			4195+CVTILK2 DC	V(IECILK2) - ADDRESS OF THE UCB HALFWORD ADDRESS LIST	06000002
				4196+*	PORTION OF THE UCB LOOKUP TABLE	06100002
00002C	00000000			4197+CVTXTLER DC	V(IECXTLER) - ADDRESS OF ERROR RECOVERY PROCEDURE (ERP)	06200004
				4198+*	LOADER (IECVERPL) ENTRY POINT IECXTLER	06250004
				4199+*	(MDC349) @Z40AQ9A	06300004
000030	00000000			4200+CVTSYSAD DC	A(0) - ADDRESS OF THE SYSTEM RESIDENCE VOLUME	06400002
				4201+*	ENTRY IN THE UCB LOOKUP TABLE	06500002
000034	00000000			4202+CVTBTERM DC	V(IEAVTRT1) - ADDRESS OF ENTRY POINT OF THE ABTERM	06630002
				4203+*	ROUTINE MDC084	06632002
000038	00000000			4204+CVTDATE DC	F'0' - CURRENT DATE IN PACKED DECIMAL	06700002
00003C	00000000			4205+CVTMSLT DC	V(IEEMSER) - ADDRESS OF THE MASTER COMMON AREA IN	07500002
				4206+*	MASTER SCHEDULER RESIDENT DATA AREA.	07550002
				4207+*	NOTE - USE CVTMSER INSTEAD TO ADDRESS	07600002
				4208+*	MASTER SCHEDULER RESIDENT DATA AREA	07650002
000040	00000000			4209+CVTZDTAB DC	V(IECZDTAB) - ADDRESS OF I/O DEVICE CHARACTERISTIC TABLE	08000002
000044	00000000			4210+CVTXITP DC	V(IECXITP) - ADDRESS OF ERROR INTERPRETER ROUTINE	08100002
000048	00000000			4211+ DC	A(0) - ** CVTDAR FIELD UNUSED IN MVS **	08398004
				4212+*	(MDC029) @Z40AQ9A	08398204
00004C	00000000			4213+CVT0FN00 DC	A(0) - RESERVED (OS/VS2)	09400002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000050	0A03			4214+CVTEXIT	SVC	3 -	EXIT TO DISPATCHER 09700001
000052	07FE			4215+CVTBRET	BR	14 -	RETURN TO CALLER (USED BY DATA MANAGEMENT 09800002
				4216+*			ROUTINES) 09850002
000054	00000000			4217+CVTSVDCB	DC	V(IEASVDCB) -	ADDRESS OF THE DCB FOR THE SYS1.SVCLIB 09900002
				4218+*			DATA SET 09950002
000058	00000000			4219+CVTTPC	DC	V(IEATPC) -	ADDRESS OF THE TIMER SUPERVISOR WORK AREA 10700002
00005C				4220+CVTNIPSV	DS	H -	RESERVED MVS @ZA51978 11810003
00005E	0000			4221+CVTICPID	DC	H'0' -	IPL'ED CPU PHYSICAL ID @ZA51978 11840003
000060	00000000			4222+CVTSJQ	DC	A(0) -	RESERVED (OS/VS2) 11900002
000064	00000000			4223+CVTCUCB	DC	V(IEECUCB) -	ADDRESS OF THE TABLE THAT CONTAINS THE 12200002
				4224+*			CURRENT CONSOLE UCB ADDRESSES 12250002
000068	00000000			4225+CVTQTE00	DC	V(IEAQTE00) -	ADDRESS OF THE TIMER ENQUEUE ROUTINE FOR 13100002
				4226+*			INTERVAL TIMER 13200002
00006C	00000000			4227+CVTQTD00	DC	V(IEAQTD00) -	ADDRESS OF THE TIMER DEQUEUE ROUTINE FOR 13300002
				4228+*			INTERVAL TIMER 13400002
000070	00000000			4229+CVTSTB	DC	V(IECSTB) -	ADDRESS OF THE I/O DEVICE STATISTICS TABLE 13700002
000074	13			4230+CVTDCB	DC	XL1'13' -	OPERATING SYSTEM MDC132 16800002
		00080		4231+CVTRSV08	EQU	X'80',,C'X' -	RESERVED 16810001
		00040		4232+CVT1SSS	EQU	X'40' -	OPTION 1 (PCP) SSS 16900001
		00020		4233+CVT2SPS	EQU	X'20' -	OPTION 2 (MFT) SPS, OS/VS1 17000002
		00010		4234+CVT4MS1	EQU	X'10' -	OPTION 4 (MVT) MS1, OS/VS2 17100002
		00008		4235+CVTRSV09	EQU	X'08',,C'X' -	RESERVED 17110001
		00004		4236+CVT4MPS	EQU	X'04' -	MODEL 65 MULTIPROCESSING 17200001
		00002		4237+CVT6DAT	EQU	X'02' -	DYNAMIC ADDRESS TRANSLATION BY CPU 17250001
				4238+*			(OS/VS1, OS/VS2) 17260002
		00001		4239+CVTMVS2	EQU	X'01' -	MULTIPLE MEMORY OPTION OF OS/VS2 IS 17262002
				4240+*			PRESENT MDC131 17264002
		00012		4241+CVT8AOS2	EQU	CVT4MS1+CVT6DAT -	OS/VS2 SYSTEM 17270002
000075	000000			4242+CVTDCBA	DC	VL3(IFBDCB) -	ADDRESS OF THE DCB FOR THE SYS1.LOGREC 17300002
				4243+*			(OUTBOARD RECORDER) DATA SET FOR SYSTEM 17310002
				4244+*			ENVIRONMENT RECORDING (SER) 17320002
000078	00000000			4245+CVTSV76M	DC	F'0' -	SVC 76 MESSAGE COUNT FIELD (OS/VS2) 17330041
				4246+*			(MDC372) @ZA18857 17350041
00007C	00000000			4247+CVTIXAVL	DC	V(IECIXAVL) -	ADDRESS OF THE I/O SUPERVISOR'S FREELIST 17700002
				4248+*			POINTER WHICH CONTAINS THE ADDRESS OF THE 17750002
				4249+*			NEXT REQUEST ELEMENT (OS/VS1) 17760002
				4250+*			ADDRESS OF THE I/O SUPERVISOR'S 17770002
				4251+*			COMMUNICATION AREA (IOCOM) (OS/VS2) 17780002
000080	00000000			4252+CVTNUCB	DC	A(0) -	LOWEST ADDRESS NOT IN THE NUCLEUS (ON PAGE 17800002
				4253+*			BOUNDARY FOR OS/VS1) (ON SEGMENT BOUNDARY 17850003
				4254+*			FOR OS/VS2) (MDC318) @Z30AQ9A 17860003
000084	00000000			4255+CVTFBOSV	DC	A(0) -	ADDRESS OF PROGRAM FETCH ROUTINE 17930002
				4256+*			(MDC222) YM4043 17940002
000088	00000000			4257+CVT0DS	DC	V(IEA0DS) -	ADDRESS OF ENTRY POINT OF THE DISPATCHER 18000002
00008C	00000000			4258+CVTILCH	DC	V(IECILCH) -	ADDRESS OF THE LOGICAL CHANNEL WORD TABLE 18100002
000090	00000000			4259+CVTRV516	DC	A(0) -	** CVTIERLC FIELD UNUSED IN MVS ** 18600004
				4260+*			(MDC218) YM4043 18650004
000094	00000000			4261+CVTMSER	DC	V(IEEMSER) -	ADDRESS OF DATA AREA OF MASTER SCHEDULER 19000002
				4262+*			RESIDENT DATA AREA 19050002
000098	00000000			4263+CVT0PT01	DC	V(IEA0PT01) -	ADDRESS OF BRANCH ENTRY POINT OF POST 19400002
				4264+*			ROUTINE 19450002
00009C				4265+CVTRSV11	DS	A -	** CVTTRMTB FIELD UNUSED IN OS/VS ** 19500002
0000A0	00000000			4266+CVTSV76C	DC	XL4'00' -	SVC 76 MESSAGE CONTROL FIELD. HIGH-ORDER 19761041
				4267+*			BIT IS DEFINED, AND ALL OTHER BITS ARE 19762041
				4268+*			ZERO. (OS/VS2) (MDC373) @ZA18857 19762641

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
			00080	4269+CVTSV76Q EQU	X'80' - SVC 76 ENQUEUE SWITCH. THIS IS THE	19764041
				4270+*	HIGH-ORDER BIT OF CVTSV76C. (OS/VS2)	19765041
				4271+*	(MDC374) @ZA18857	19766041
0000A4	00FFFFFF			4272+CVTMZ00 DC	X'00FFFFFF' - HIGHEST ADDRESS IN VIRTUAL STORAGE FOR	19770002
				4273+*	THIS MACHINE	19772002
0000A8	00000000			4274+CVT1EF00 DC	A(0) - ADDRESS OF ROUTINE WHICH CREATES IRB'S	19800001
				4275+*	FOR EXITS	19850001
0000AC	00000000			4276+CVTQOCR DC	A(0) - GRAPHICS INTERFACE TASK (GFX) FIELD.	22300002
				4277+*	ADDRESS OF SEVENTH WORD OF GFX PARAMETER	22350002
				4278+*	LIST, IF GFX IS ACTIVE. ZERO IF GFX IS	22400002
				4279+*	NOT ACTIVE	22450002
0000B0	00000000			4280+CVTQMWR DC	V(IEFQMWR) - ADDRESS OF QUEUE MANAGER'S SYSTEM OUTPUT	22700002
				4281+*	COMMUNICATIONS-DATA-AREA (CDA), WHICH IS	22750002
				4282+*	STORED ON AN EXTERNAL DEVICE	22800002
0000B4	0000			4283+CVTSNCTR DC	H'0' - SERIAL NUMBER COUNTER FOR ASSIGNING SERIAL	22900002
				4284+*	NUMBERS TO NON-SPECIFIC, UNLABELED	22950002
				4285+*	MAGNETIC TAPE VOLUMES	22960002
0000B6	00			4286+CVTOPTA DC	AL1(00) - OPTION INDICATORS	23000002
		00080		4287+CVTCCH EQU	X'80' - CHANNEL CHECK HANDLER (CCH) OPTION PRESENT	23050002
				4288+*	- RECOVERY MANAGEMENT SUPPORT (RMS) XM4686	23100002
		00040		4289+CVTAPR EQU	X'40' - ALTERNATE PATH RETRY (APR) OPTION PRESENT	23200002
				4290+*	- RECOVERY MANAGEMENT SUPPORT (RMS)	23250002
		00020		4291+CVTDDR EQU	X'20' - DYNAMIC DEVICE RECONFIGURATION (DDR)	23350002
				4292+*	OPTION PRESENT - RECOVERY MANAGEMENT	23400002
				4293+*	SUPPORT (RMS) (OS/VS1)	23450002
				4294+*	DDR SYSTEM-INITIATED SWAP ACTIVE (OS/VS2)	23500002
				4295+*	MDC126	23550002
		00010		4296+CVTNIP EQU	X'10' - NIP IS EXECUTING	23600002
		00008		4297+CVTRSV12 EQU	X'08' , , C'X' - RESERVED	23610001
		00004		4298+CVT121TR EQU	X'04' , , C'X' - DO NOT TRANSLATE EXCP V=R @ZA45816	23620003
		00002		4299+CVTASCII EQU	X'02' - ASCII TAPE PROCESSING IS GENERATED IN	23650002
				4300+*	THIS SYSTEM	23660002
		00001		4301+CVTXPPF EQU	X'01' - CPU HAS EXTENDED PRECISION FLOATING POINT	23700001
				4302+*	FEATURE	23750002
0000B7	00			4303+CVTOPTB DC	AL1(00) - MISCELLANEOUS FLAGS	24100001
		00080		4304+CVTPROT EQU	X'80' - CPU HAS STORE PROTECTION FEATURE (OS/VS1)	24200002
		00040		4305+CVTCTIMS EQU	X'40' - IF ON, HARDWARE HAS THE CLOCK COMPARATOR	24200102
				4306+*	AND CPU TIMER FEATURE INSTALLED, AND	24200202
				4307+*	OS/VS1 SYSGEN HAS SPECIFIED THIS FEATURE	24200302
				4308+*	(OS/VS1) MDC127	24200402
		00020		4309+CVTTOD EQU	X'20' - CPU HAS TIME-OF-DAY CLOCK FEATURE	24300002
		00010		4310+CVTNLOG EQU	X'10' - SYS1.LOGREC IS UNAVAILABLE FOR ERROR	24310002
				4311+*	RECORDING. ALWAYS SET TO ZERO FOR	24320002
				4312+*	OS/VS1. MDC127	24322002
		00008		4313+CVTAPTHR EQU	X'08' - NIP SETS THIS BIT TO 1 WHEN DEVICE TESTING	24330002
				4314+*	IS COMPLETE. IF 1, I/O SUPERVISOR USES	24332002
				4315+*	AN ALTERNATE PATH TO A DEVICE WHEN A	24334002
				4316+*	CONDITION CODE OF 3 EXISTS. THIS BIT IS	24336002
				4317+*	RESET TO 0 BY NIP AFTER THE LINK PACK	24338002
				4318+*	AREA IS INITIALIZED. YM2670	24338402
		00004		4319+CVTFP EQU	X'04' - CPU HAS FETCH PROTECTION FEATURE (OS/VS1)	24340002
				4320+*	ICB427	24340402
		00002		4321+CVTVS1A EQU	X'02' - VS1 ASSIST IS AVAILABLE FOR USE (OS/VS1)	24342006
				4322+*	(MDC353) @X60CA9A	24342606
		00001		4323+CVTVS1B EQU	X'01' - VS1 ASSIST SUBSET IS AVAILABLE FOR USE	24343306

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4324+*	(OS/VS1) (MDC365) @X60KU9A	24344006
0000B8	00000000			4325+CVTQCDSR DC	V(IEAQCDJR) - CDE SEARCH ROUTINE ADDRESS (OS/VS2)	26800002
0000BC	00000000			4326+CVTQLPAQ DC	V(IEAQLPAQ) - ADDRESS OF POINTER TO MOST RECENT ENTRY	26900001
				4327+*	ON LINK PACK AREA CDE QUEUE (OS/VS2)	26950002
0000C0	00000000			4328+CVTRSV18 DC	A(0) - ** CVTMPCVT FIELD UNUSED IN OS/VS **	27450002
0000C4	00000000			4329+CVTSMCA DC	A(0) - ADDRESS OF THE SYSTEM MANAGEMENT CONTROL	28900002
				4330+*	AREA (SMCA) IF THE SYSTEM MANAGEMENT	28950002
				4331+*	FACILITIES (SMF) OPTION IS PRESENT IN THE	28960002
				4332+*	SYSTEM. OTHERWISE, ZERO.	28970002
0000C8	00000000			4333+CVTABEND DC	V(IEABEND) - ADDRESS OF SECONDARY CVT FOR ABEND IN EOT	29400002
				4334+*	(OS/VS2)	29500002
0000CC	00000000			4335+CVTUSER DC	A(0) - A WORD AVAILABLE TO THE USER	30100002
0000D0	00000000			4336+CVTMDLDS DC	A(0) - RESERVED FOR MODEL-DEPENDENT SUPPORT	30700001
0000D4	0A0D			4337+CVTQABST SVC	13 - AN ABEND INVOCATION (OS/VS2)	30800002
0000D6	0A06			4338+CVTLNKSC SVC	6 - A LINK INVOCATION ICB369	30900002
0000D8	00000000			4339+CVTTSCE DC	A(0) - ADDRESS OF THE FIRST TIME SLICE CONTROL	31700002
				4340+*	ELEMENT (TSCE)	31750002
0000DC	00000000			4341+CVTPATCH DC	V(IEAPATCH) - ADDRESS OF A 200-BYTE FE PATCH AREA	32300002
0000E0	00000000			4342+CVTRMS DC	V(IGFRVT) - RECOVERY MANAGEMENT SUPPORT (RMS)	33050002
				4343+*	COMMUNICATIONS VECTOR. ADDRESS OF A	33052002
				4344+*	MACHINE STATUS BLOCK.	33054002
0000E4	00000000			4345+CVTRV515 DC	A(0) - ** CVTTSCVT FIELD UNUSED IN MVS **	33100004
				4346+*	(MDC037) @Z40AQ9A	33150004
0000E8	00000000			4347+CVT0SCR1 DC	A(0) - ADDRESS OF THE SECTOR CALCULATION ROUTINE	33570002
				4348+*	FOR ROTATIONAL POSITION SENSING (RPS)	33572002
0000EC				4349+CVTGTF DS	0A - GENERALIZED TRACE FACILITY (GTF) CONTROL	33630002
				4350+*	WORD ICB312	33650002
0000EC	00			4351+CVTGTFST DC	AL1(0) - GTF FLAG BYTES ICB312	33680001
		00080		4352+CVTGTFV EQU	X'80' - IF ZERO, GTF NOT ACTIVE. IF ONE, GTF	33709002
				4353+*	ACTIVE. (OS/VS2) MDC098	33710802
		00040		4354+CVTRV315 EQU	X'40',,C'X' - RESERVED (OS/VS2)	33712602
		00020		4355+CVTRV316 EQU	X'20',,C'X' - RESERVED (OS/VS2)	33714402
		00010		4356+CVTRV317 EQU	X'10',,C'X' - RESERVED (OS/VS2)	33716202
		00008		4357+CVTRV318 EQU	X'08',,C'X' - RESERVED (OS/VS2)	33718002
		00004		4358+CVTUSR EQU	X'04' - TRACE=USR SPECIFIED. USER-REQUESTED TRACE	33722103
				4359+*	DATA IS TO BE INCLUDED IN THE TRACE DATA	33722603
				4360+*	SET. (MDC317) @Z30AP9A	33723103
		00002		4361+CVTRNIO EQU	X'02' - GTF IS ACTIVE AND TRACING RNIO EVENTS	33723602
				4362+*	MDC187	33724002
		00001		4363+CVTRSV27 EQU	X'01',,C'X' - RESERVED	33725202
0000ED	000000			4364+CVTGTFV DC	VL3(AHLHEAD) - ADDRESS OF MAIN MONITOR CALL ROUTING	33736002
				4365+*	TABLE, MCHEAD (OS/VS2) MDC156	33737802
0000F0				4366+CVTAQAVT DS	0A - ADDRESS OF THE FIRST WORD OF THE TCAM	33741402
				4367+*	DISPATCHER WHICH CONTAINS THE ADDRESS OF	33751402
				4368+*	THE ADDRESS VECTOR TABLE (AVT). IF ZERO,	33761402
				4369+*	TCAM IS NOT STARTED.	33763402
0000F0	00			4370+CVTTCMFG DC	X'00' - TCAM FLAGS	33766701
		00080		4371+CVTTCRDY EQU	X'80' - TCAM IS READY TO ACCEPT USERS	33800002
		00040		4372+CVTLDEV EQU	X'40' - LOCAL DEVICE ATTACHED TO TCAM	33805040
				4373+*	(MDC357) @Z40XA9A	33810040
		00020		4374+CVTRSV29 EQU	X'20',,C'X' - RESERVED	33820001
		00010		4375+CVTRSV30 EQU	X'10',,C'X' - RESERVED	33830001
		00008		4376+CVTRSV31 EQU	X'08',,C'X' - RESERVED	33840001
		00004		4377+CVTRSV32 EQU	X'04',,C'X' - RESERVED	33842001
		00002		4378+CVTRSV33 EQU	X'02',,C'X' - RESERVED	33844001

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00001	4379+CVTRSV34	EQU	X'01',,C'X' - RESERVED	33846001
0000F1	000000			4380+CVTAQAVB	DC	AL3(0) - SAME AS CVTAQAVT ABOVE	33850002
0000F4				4381+CVTVOLM2	DS	0A - ADDRESS OF TABLE FOR POWER WARNING FEATURE	35686003
				4382+*		(PWF) (OS/VS2) (MDC308) @Z30AQ9A	35689003
0000F4	80			4383+CVTVOLF2	DC	X'80' - PWF FLAG BYTE. THIS BYTE IS OVERLAID BY	35692803
				4384+*		CVTVOLM2 AFTER PWF INITIALIZATION.	35693603
				4385+*		(OS/VS2) (MDC309) @Z30AQ9A	35694403
			00080	4386+CVTVOLI2	EQU	X'80' - PWF INITIALIZATION HAS NOT OCCURRED	35695203
				4387+*		(OS/VS2) (MDC310) @Z30AQ9A	35696103
0000F5	000000			4388+CVTVOLT2	DC	AL3(0) - PWF RECHECK TIME DELAY. THIS VALUE IS	35697003
				4389+*		OVERLAID BY CVTVOLM2 AFTER PWF	35697903
				4390+*		INITIALIZATION. (OS/VS2) (MDC311) @Z30AQ9A	35698803
0000F8	00000000			4391+	DC	A(0) - RESERVED (OS/VS2)	35700002
0000FC	00000000			4392+CVTEXT1	DC	A(CVTEXTNT1) - ADDRESS OF OS - OS/VS COMMON EXTENSION	35710002
				4393+*		ICB421	35712002
000100	00000000			4394+CVTCBSP	DC	A(0) - ADDRESS OF ACCESS METHOD CONTROL BLOCK	35760002
				4395+*		STRUCTURE MDC195	35790002
000104				4396+CVTPURG	DS	0A - ADDRESS OF SUBSYSTEM PURGE ROUTINE	ICB330 35800002
000104				4397+CVTRSV35	DS	XL1 - RESERVED	ICB330 35802001
000105	000000			4398+CVTPURGA	DC	AL3(0) - ADDRESS OF SUBSYSTEM PURGE ROUTINE	ICB330 35804001
000108	00000000			4399+CVTAMFF	DC	XL4'00' - RESERVED FOR ACCESS METHOD FLAGS	ICB436 35810001
00010C				4400+CVTQMSG	DS	0A - ADDRESS OF INFORMATION TO BE PRINTED	35820002
				4401+*		BY ABEND ICB307	35822001
00010C				4402+CVTRSV36	DS	XL1 - RESERVED	ICB307 35824001
00010D	000000			4403+CVTQMSG	DC	VL3(IEAQMSG) ADDRESS OF INFORMATION TO BE PRINTED	35826001
				4404+*		BY ABEND ICB449	35828001
000110				4405+CVTDMSR	DS	0A - SAME AS CVTDMSRA BELOW	ICB346 35830001
000110	00			4406+CVTDMSRF	DC	XL1'00' - OPEN/CLOSE/EOV FLAG BYTE. SETTING BOTH	35845204
				4407+*		BIT 0 AND BIT 1 ON WILL CAUSE BOTH KINDS	35845604
				4408+*		OF DUMPS TO BE TAKEN. THESE BITS ARE USED	35846004
				4409+*		DURING TESTING AND DEBUGGING WHEN OTHER	35846404
				4410+*		DEBUG METHODS ARE INEFFECTIVE. (OS/VS2)	35846804
				4411+*		(MDC350) @Z40AQ9A	35847204
			00080	4412+CVTSDUMP	EQU	X'80' - SET BY COREZAP. WILL CAUSE AN SDUMP TO BE	35847604
				4413+*		TAKEN AND IEC999I MESSAGE ISSUED FOR EVERY	35848004
				4414+*		ABEND ISSUED WITHIN AN OPEN/CLOSE/EOV OR	35848404
				4415+*		DADSM FUNCTION. (OS/VS2) (MDC351) @Z40AQ9A	35848804
			00040	4416+CVTUDUMP	EQU	X'40' - SET BY COREZAP. WILL CAUSE AN ABEND DUMP	35849204
				4417+*		TO BE TAKEN FOR EVERY ABEND ISSUED WITHIN	35849604
				4418+*		AN OPEN/CLOSE/EOV OR DADSM FUNCTION.	35850004
				4419+*		(OS/VS2) (MDC352) @Z40AQ9A	35850404
			00020	4420+CVTRV629	EQU	X'20',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35850804
			00010	4421+CVTRV630	EQU	X'10',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35851204
			00008	4422+CVTRV631	EQU	X'08',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35851604
			00004	4423+CVTRV632	EQU	X'04',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852004
			00002	4424+CVTRV633	EQU	X'02',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852404
			00001	4425+CVTRV634	EQU	X'01',,C'X' - RESERVED (OS/VS2) @Z40AQ9A	35852804
000111	000000			4426+CVTDMSRA	DC	AL3(0) - ADDRESS OF THE OPEN/CLOSE/EOV SUPERVISORY	35853804
				4427+*		ROUTINE IN THE NUCLEUS. THIS ROUTINE	35854204
				4428+*		HANDLES THE ROUTING OF CONTROL AMONG THE	35854602
				4429+*		I/O SUPPORT ROUTINES. ICB346	35856602
000114				4430+CVTRSV38	DS	F - RESERVED	35873002
000118				4431+CVTRSV39	DS	F - RESERVED	35882002
				4432+*			35891002
				4433+*		OS/VS1 - OS/VS2 COMMON SECTION	35900002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				4434+*			35950001
00011C	00000000			4435+CVTREAL	DC	A(0) - ADDRESS OF THE VIRTUAL STORAGE BYTE	35960001
				4436+*		FOLLOWING THE HIGHEST VIRTUAL=REAL	35970001
				4437+*		STORAGE ADDRESS	ICB368 35972001
000120	00000000			4438+CVTPTRV	DC	V(IEAPTRV) - ADDRESS OF PAGING SUPERVISOR GENERAL	35980001
				4439+*		ROUTINE TO TRANSLATE REAL ADDRESSES TO	35990001
				4440+*		VIRTUAL ADDRESSES	35992002
000124	00000000			4441+	DC	A(0) - RESERVED (WAS CVTMODE) (OS/VS2)	36003202
				4442+*		(MDC217)	YM4244 36003602
000128	00000000			4443+CVTJESCT	DC	V(IEFJESCT) - ADDRESS OF JOB ENTRY SUBSYSTEM (JES)	36004102
				4444+*		CONTROL TABLE	ICB342 36005202
00012C				4445+	DS	A - RESERVED (WAS CVTJEPS) (OS/VS2)	YM2702 36005402
000130	00000000			4446+CVTTZ	DC	F'0' - DIFFERENCE BETWEEN LOCAL TIME AND	36008002
				4447+*		GREENWICH MEAN TIME IN BINARY UNITS OF	36009302
				4448+*		1.048576 SECONDS	36010602
000134				4449+CVTMCHPR	DS	A - ADDRESS OF MACHINE CHECK PARAMETER LIST	36011902
000138	00000000			4450+CVTEORM	DC	A(0) - POTENTIAL REAL HIGH STORAGE	YM3613 36021602
				4451+*		ADDRESS (OS/VS2)	YM3613 36021902
00013C	00000000			4452+CVTRV517	DC	A(0) - ** CVTERPV FIELD UNUSED IN MVS **	36022204
				4453+*		(MDC219)	YM4043 36022604
000140	00000000			4454+CVTRV518	DC	A(0) - ** CVTINTLA FIELD UNUSED IN MVS **	36023004
				4455+*		(MDC220)	YM4043 36023404
000144				4456+CVTAPF	DS	0A - SAME AS CVTAPFA BELOW	ICB360 36041802
000144				4457+CVTRSV40	DS	X - RESERVED	ICB360 36043102
000145	000000			4458+CVTAPFA	DC	VL3(IEAVTEST) ADDRESS OF BRANCH ENTRY POINT IN	36044402
				4459+*		AUTHORIZED PROGRAM FACILITY (APF) ROUTINE	36045702
000148				4460+CVTEXT2	DS	0A - ADDRESS OF OS/VS1 - OS/VS2 COMMON	36047002
				4461+*		EXTENSION	ICB330 36047602
000148				4462+CVTRSV41	DS	XL1 - RESERVED	ICB330 36048302
000149	000000			4463+CVTEXT2A	DC	AL3(CVTXTNT2) SAME AS CVTEXT2 ABOVE	ICB330 36049602
00014C				4464+CVTHJES	DS	0A - SAME AS CVTHJESA BELOW	ICB454 36050902
00014C				4465+CVTRSV42	DS	X - RESERVED	ICB454 36052202
00014D	000000			4466+CVTHJESA	DC	AL3(0) - ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM	36053502
				4467+*		(JES) COMMUNICATION VECTOR TABLE	ICB454 36054102
000150				4468+CVTRSV43	DS	H - RESERVED	36054802
000152				4469+CVTRSV44	DS	H - RESERVED	36056102
000154				4470+CVTRSV45	DS	F - RESERVED	36057402
000158				4471+CVTRSV46	DS	F - RESERVED	36058702
				4472+*			36133602
				4473+*		OS/VS2 OVERLAY	36133902
				4474+*			36134302
00015C	00000000			4475+CVTGETL	DC	A(0) - ADDRESS OF IKJGETL, TSO GET LINE ROUTINE	36134602
				4476+*		(MDC206)	YM2225 36135002
000160	00000000			4477+CVTLPSDR	DC	V(IEAVMSR) - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY	36135702
				4478+*		SEARCH ROUTINE	36136402
000164	00000000			4479+CVTPVTP	DC	V(CSECPVT) - ADDRESS OF PAGE VECTOR TABLE	36137102
000168				4480+CVTLPDIA	DS	0A - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY	36137802
				4481+*		(ON PAGE BOUNDARY)	36138102
000168				4482+CVTDIRST	DS	B - FLAG BYTE	36138502
		00080		4483+CVTDICOM	EQU	X'80' - LPA DIRECTORY HAS BEEN INITIALIZED BY NIP	36139202
		00040		4484+CVTRSV63	EQU	X'40',,C'X' - RESERVED	36139902
		00020		4485+CVTRSV64	EQU	X'20',,C'X' - RESERVED	36140602
		00010		4486+CVTRSV65	EQU	X'10',,C'X' - RESERVED	36141302
		00008		4487+CVTRSV66	EQU	X'08',,C'X' - RESERVED	36141702
		00004		4488+CVTRSV67	EQU	X'04',,C'X' - RESERVED	36142102

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00002	4489+CVTRSV68	EQU	X'02',,,C'X' - RESERVED	36143202
			00001	4490+CVTRSV69	EQU	X'01',,,C'X' - RESERVED	36143302
000169				4491+CVTLPPDIR	DS	AL3 - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY	36144002
				4492+*		(ON PAGE BOUNDARY)	36144702
00016C	000000000			4493+CVTPSAD0	DC	V(IGFPSAD0) - PSA PROTECT DISABLE (MDC393) @ZA36872	36145364
000170	000000000			4494+CVTPSAE0	DC	V(IGFPSAE0) - PSA PROTECT ENABLE (MDC394) @ZA36872	36146264
000174				4495+CVTSLIDA	DS	0CL4 - IDENTITY OF TCB CAUSING SUPERVISOR LOCK	36148002
				4496+*		BYTE (CVTSYLK) TO BE SET OR IDENTITY OF	36148302
				4497+*		TCB THAT SECOND EXIT PROCESSING IS FOR	36148702
				4498+*		WHEN CVTSEIC=1	36149402
000174				4499+CVTSYLK	DS	C - SUPERVISOR LOCK. ONLY ENABLED TASKS MAY	36150102
				4500+*		BE DISPATCHED	36150802
		000FF		4501+CVTSYLKS	EQU	X'FF' - SET LOCK BYTE	36151502
		00000		4502+CVTSYLKR	EQU	X'00' - RESET LOCK BYTE	36152202
000175				4503+CVTSLID	DS	CL3 - SAME AS CVTSLIDA ABOVE	36152502
000178	000000000			4504+CVTRV322	DC	A(0) - RESERVED FOR FUTURE USE (MDC343) @Z40AQ9A	36152904
00017C	000000000			4505+CVTRV328	DC	A(0) - ** CVTSEG AND CVTSEGA FIELDS UNUSED IN	36154302
				4506+*		MVS ** (MDC139) @Z40AQ9A	36155004
000180	000000000			4507+CVTVLDWT	DC	V(IEEVLDWT) - ADDRESS OF STOP/RESTART INTERFACE ROUTINE	36155464
				4508+*		(MDC392) @G64UP9A	36155864
000184	01312D00			4509+CVTEXSLF	DC	F'20000000' - EXCESSIVE SPIN LENGTH FACTOR	36156764
				4510+*		(MDC385) @G64UP9A	36157164
000188	000000000			4511+CVTEXSNR	DC	V(IEEVEXSN) - ADDRESS OF EXCESSIVE SPIN NOTIFICATION	36157564
				4512+*		ROUTINE (MDC386) @G64UP9A	36157964
00018C	00			4513+CVTEXSNL	DC	XL1'00' - SERIALIZATION BYTE FOR EXCESSIVE SPIN	36158364
				4514+*		NOTIFICATION ROUTINE (MDC387) @G64UP9A	36158764
00018D				4515+CVTSPVLK	DS	FL1 - NUMBER OF TASKS WHICH HAVE TERMINATED	36159902
				4516+*		WHILE OWNING SUPERVISOR LOCK WITHOUT	36160202
				4517+*		OPERATOR HAVING YET BEEN NOTIFIED	36160602
00018E	00			4518+CVTCTLFG	DC	AL1(00) SYSTEM CONTROL FLAGS	36161302
		00080		4519+CVTRV323	EQU	X'80',,,C'X' - ** CVTPSIC BIT UNUSED IN MVS **	36162004
				4520+*		(MDC118) @Z40AQ9A	36162404
		00040		4521+CVTRV333	EQU	X'40',,,C'X' - ** CVTAPGB BIT UNUSED IN MVS **	36162804
				4522+*		(MDC151) @Z40AQ9A	36163204
		00020		4523+CVTRSV78	EQU	X'20',,,C'X' - RESERVED	36164402
		00010		4524+CVTDSTAT	EQU	X'10' - DEVSTAT OPTION IN EFFECT. DEVICE ADDRESS	36164802
				4525+*		FOR 2319, 3330, 2314, 3330-1, 3340 CAN	36165502
				4526+*		VARY ACROSS SYSTEMS MDC189	36166202
		00008		4527+CVTRSV79	EQU	X'08',,,C'X' - RESERVED	36166902
		00004		4528+CVTNOMP	EQU	X'04' - MULTIPROCESSING CODE IS NOT IN THE SYSTEM	36167602
				4529+*		MDC176	36168302
		00002		4530+CVTGTRCE	EQU	X'02' - GENERALIZED TRACE FACILITY (GTF) HAS	36169002
				4531+*		SUPPRESSED SUPERVISOR TRACE ICB446	36169302
		00001		4532+CVTSDTRC	EQU	X'01' - SVC DUMP HAS SUPPRESSED SUPERVISOR TRACE	36169702
				4533+*		ICB446	36170402
00018F	07			4534+CVTAPG	DC	FL1'7' - DISPATCHING PRIORITY OF AUTOMATIC PRIORITY	36171102
				4535+*		GROUP (APG) MDC152	36171802
000190	07FB			4536+CVTTRACE	BR	11 - BRANCH ON REGISTER INSTRUCTION. SET BY	36172502
				4537+*		NIP. REGISTER TEN FOR TRACE. REGISTER	36173202
				4538+*		ELEVEN FOR NO TRACE.	36173502
000192	07FB			4539+CVTTRAC2	BR	11 - THIS ALLOWS FOR SUPPRESSING TRACE	36173902
				4540+*		DYNAMICALLY BY SETTING CONDITION CODE	36174602
				4541+*		MASK TO ZERO IN FIRST INSTRUCTION	36175302
				4542+*		(CVTTRACE)	36176002
000194	000000000			4543+CVTRSCN	DC	V(IEATRSCN) - ADDRESS OF ROUTINE TO SCAN TCB TREE	36176702

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000198	000000000			4544+CVTTAS	DC	A(0) -	ADDRESS OF ROUTINE TO TRANSFER ADDRESS 36177402
				4545+*			SPACE YM2706 36177702
00019C	000000000			4546+CVTRV332	DC	A(0) -	** CVTPVALD FIELD UNUSED IN MVS ** 36178104
				4547+*			(MDC148) @Z40AQ9A 36178504
0001A0				4548+CVTSHRVM	DS	A -	LOWEST ADDRESS OF SHARED VIRTUAL STORAGE 36179502
				4549+*			AREA. THIS ADDRESS WILL BE THE BEGINNING 36180203
				4550+*			OF THE COMMON SERVICE AREA (CSA) 36180903
				4551+*			(MDC324) @Z30AQ9A 36182603
0001A4	000000000			4552+CVT0VL01	DC	V(IEA0VL01) -	ENTRY POINT ADDRESS OF VALIDITY CHECK 36183102
				4553+*			ROUTINE (IEA0VL01) USED TO COMPARE 36183602
				4554+*			PROTECT KEY OF AN ADDRESS WITH TCB 36184102
				4555+*			PROTECT KEY 36184602
0001A8	000000000			4556+CVTPPGMX	DC	V(IEAPPGMX) -	ADDRESS OF A BRANCH ENTRY POINT @ZA58427 36184903
				4557+*			TO PROGRAM MANAGER RESOURCE @ZA58427 36185203
				4558+*			MANAGEMENT ROUTINES @ZA58427 36185503
0001AC	000000000			4559+CVTRV325	DC	A(0) -	** CVTPFIXR FIELD UNUSED IN MVS ** 36185904
				4560+*			(MDC120) @Z40AQ9A 36186304
0001B0	000000000			4561+CVTRV326	DC	A(0) -	** CVTPFIXP FIELD UNUSED IN MVS ** 36186704
				4562+*			(MDC121) @Z40AQ9A 36187104
0001B4	000000000			4563+CVTASCRF	DC	A(0) -	CREATED ASCB QUEUE HEADER 36188104
				4564+*			(MDC337) @ZA04120 36188504
0001B8	000000000			4565+CVTASCRL	DC	A(0) -	CREATED ASCB QUEUE TRAILER 36188904
				4566+*			(MDC338) @ZA04120 36189304
0001BC	000000000			4567+CVTPUTL	DC	A(0) -	ADDRESS OF IKJPUTL, TSO PUT LINE ROUTINE 36190302
				4568+*			(MDC207) YM2225 36190602
0001C0	000000000			4569+CVTSRBRT	DC	V(IEAPDSRT) -	DISPATCHER RETURN ADDRESS FOR SRB ROUTINES 36191602
				4570+*			MDC130 36192102
0001C4	000000000			4571+CVTOLT0A	DC	V(IFDOLT0A) -	BRANCH ENTRY TO OLTEP MEMORY TERMINATION 36192602
				4572+*			RESOURCE MANAGER MDC129 36193102
0001C8	000000000			4573+CVTSMFEX	DC	V(IEASMFEX) -	BRANCH ENTRY TO SYSTEM MANAGEMENT 36193602
				4574+*			FACILITIES (SMF) EXCP COUNTING ROUTINE 36194102
				4575+*			FOR VAM WINDOW INTERCEPT MDC133 36194602
0001CC	000000000			4576+CVTCSPIE	DC	A(0) -	FOR CHECKPOINT/RESTART, BRANCH ENTRY TO 36195102
				4577+*			SPIE MDC149 36195602
0001D0	000000000			4578+CVTPTGT	DC	A(0) -	ADDRESS OF IKJPTGT, TSO PUTGET ROUTINE 36196102
				4579+*			(MDC208) YM2225 36215602
0001D4				4580+CVTIOSPL	DS	FL1 -	PRIORITY LEVEL OF I/O SUPERVISOR CHANNEL 36219102
				4581+*			SCHEDULER MDC019 36219602
0001D5				4582+CVTRV513	DS	XL1 -	RESERVED MDC165 36220102
0001D6	00			4583+CVTDSSAC	DC	XL1'00' -	DYNAMIC SUPPORT SYSTEM (DSS) ACTIVATED 36220602
				4584+*			FLAG - USED BY RESTART FLIH. IF X'00', 36223002
				4585+*			DSS NOT INITIALIZED. IF X'FF', DSS HAS 36223502
				4586+*			BEEN INITIALIZED. MDC163 36224002
0001D7				4587+CVTRV139	DS	XL1 -	RESERVED 36224502
0001D8	000000000			4588+CVTSTCK	DC	A(0) -	ADDRESS OF IKJSTCK, TSO STACK ROUTINE 36224702
				4589+*			(MDC209) YM2225 36225002
0001DC	0001			4590+CVTMAXMP	DC	H'1' -	FOR MEASUREMENT FACILITY (MF/1), MAXIMUM 36226502
				4591+*			PHYSICAL CPU ADDRESS SUPPORTED BY THIS 36227002
				4592+*			RELEASE MDC165 36227502
0001DE				4593+CVTRV144	DS	H -	RESERVED 36228002
0001E0	000000000			4594+CVTSCAN	DC	A(0) -	ADDRESS OF IKJSCAN, TSO SCAN ROUTINE 36228202
				4595+*			(MDC210) YM2225 36228502
0001E4				4596+CVTAUTHL	DS	A -	POINTER TO AUTHORIZED LIBRARY TABLE MDC001 36229502
0001E8	000000000			4597+CVTBLDCP	DC	V(IEAVBLDP) -	BRANCH ENTRY TO BUILD POOL MDC003 36230002
0001EC	000000000			4598+CVTGETCL	DC	V(IEAVGTCL) -	BRANCH ENTRY TO GET CELL MDC004 36231602

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
0001F0	00000000			4599+CVTFRECL	DC	V(IEAVFRCL) - BRANCH ENTRY TO FREE CELL	MDC005 36232502
0001F4	00000000			4600+CVTDELCP	DC	V(IEAVDELP) - BRANCH ENTRY TO DELETE POOL	MDC006 36232902
0001F8	00000000			4601+CVTCRMN	DC	V(CRBRANCH) - BRANCH ENTRY TO SVC 120 (GETMAIN/FREEMAIN	36233402
				4602+*		CRBRANCH)	MDC007 36234302
0001FC	00000000			4603+CVTCRAS	DC	V(IEAVGCAS) - BRANCH ENTRY TO 'CREATE ADDRESS SPACE'	36234702
				4604+*			MDC008 36235202
000200	00000000			4605+CVTQSAS	DC	V(IEAQSPET) - BRANCH ENTRY TO TASK TERMINATION	MDC009 36236102
000204	00000000			4606+CVTFRAS	DC	V(IEAVGFAS) - BRANCH ENTRY TO 'FREE ADDRESS SPACE'	36236502
				4607+*			MDC010 36237002
000208	00000000			4608+CVTS1EE	DC	V(IGC043BR) - BRANCH ENTRY TO STAGE 1 EXIT EFFECTOR	36238002
				4609+*			MDC011 36238602
00020C	00000000			4610+CVTPARS	DC	A(0) - ADDRESS OF IKJPARS, TSO PARSE ROUTINE	36238802
				4611+*		(MDC211)	YM2225 36239702
000210	00000000			4612+CVTQUIS	DC	V(IEAVAR02) - BRANCH ENTRY TO QUIESCE	MDC013 36240602
000214	00000000			4613+CVTSTXU	DC	A(0) - BRANCH ENTRY TO ATTENTION EXIT EPILOGUE	36241103
				4614+*		(MDC321)	@Z30HP9A 36241603
000218	00000000			4615+CVTOPT	DC	V(IRARMI00) - BRANCH ENTRY ADDRESS TO SYSEVENT	MDC015 36242102
00021C				4616+CVTSDRM	DS	A - BRANCH ENTRY ADDRESS OF THE RESOURCE	36242602
				4617+*		MANAGER ROUTINE FOR SVC DUMP. THIS	36243102
				4618+*		ROUTINE CAN BE INVOKED BY MEMORY	36243602
				4619+*		TERMINATION	MDC077 36244102
000220				4620+CVTIOSCS	DS	A - ENTRY POINT OF I/O SUPERVISOR CHANNEL	36244602
				4621+*		SCHEDULER	MDC018 36245102
000224	00000000			4622+CVTAQTOP	DC	V(IEFAQTOP) - POINTER TO AREA CONTAINING QUIESCE	36245602
				4623+*		DESCRIPTOR BLOCK (QDB'S) FOR DEVICE	36246102
				4624+*		ALLOCATION	MDC021 36246602
000228				4625+CVTVVMDI	DS	A - CONSTANT USED BY PAGED LINK PACK AREA	36247102
				4626+*		(LPA) DIRECTORY SEARCH ALGORITHM	MDC022 36247602
00022C				4627+CVTASVT	DS	A - POINTER TO ADDRESS SPACE VECTOR TABLE	36248102
				4628+*		(ASVT)	MDC070 36248602
000230				4629+CVTGDA	DS	A - POINTER TO GLOBAL DATA AREA (GDA) IN SQA	36249102
				4630+*			MDC024 36249602
000234	00000000			4631+CVTASCBH	DC	V(IEAMASCB) - POINTER TO HIGHEST PRIORITY ADDRESS SPACE	36250102
				4632+*		CONTROL BLOCK (ASCB) ON THE ASCB	36253002
				4633+*		DISPATCHING QUEUE (HEAD OF ASCB QUEUE)	36253502
				4634+*			MDC027 36253702
000238	00000000			4635+CVTASCB	DC	V(IEAMASCB) - POINTER TO LOWEST PRIORITY ASCB ON THE	36254040
				4636+*		ASCB DISPATCHING QUEUE (MDC339)	@Z40WP9A 36254440
00023C				4637+CVTRTMCT	DS	A - POINTER TO RECOVERY/TERMINATION CONTROL	36255402
				4638+*		TABLE	MDC031 36255902
000240				4639+CVTSV60	DS	A - ADDRESS OF SVC 60 BRANCH ENTRY POINT	36256402
				4640+*		(MDC354)	@Z40FP9A 36256904
000244	00000000			4641+CVTSDMP	DC	V(IEAVTSDX) - ADDRESS OF SVC DUMP BRANCH ENTRY POINT	36257402
				4642+*			MDC033 36257902
000248	00000000			4643+CVTSCBP	DC	V(IEAVTSBP) - ADDRESS OF SCB PURGE RESOURCE MANAGER	36258402
				4644+*			MDC034 36258902
00024C	80000000			4645+CVTSDBF	DC	X'80000000' - ADDRESS OF 4K SQA BUFFER USED BY SVC	36259402
				4646+*		DUMP. HIGH-ORDER BIT OF THIS CVT WORD	36260702
				4647+*		IS USED AS LOCK TO INDICATE BUFFER IS	36261402
				4648+*		IN USE	MDC035 36261902
000250	00000000			4649+CVTRTMS	DC	A(0) - ADDRESS OF SERVICABILITY LEVEL INDICATOR	36262141
				4650+*		PROCESSING (SLIP) HEADER (MDC358)	@G17SP9A 36262441
000254				4651+CVTTPIOS	DS	A - ADDRESS OF THE TELEPROCESSING I/O	36263402
				4652+*		SUPERVISOR ROUTINE (TPIOS)	MDC078 36263902
000258				4653+CVTSIC	DS	A - BRANCH ADDRESS OF THE ROUTINE TO SCHEDULE	36264402

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4654+*	SYSTEM INITIALIZED CANCEL	MDC042 36264902
00025C	000000000			4655+CVTOPCTP DC	V(IRARMCNS) - ADDRESS OF SYSTEM RESOURCES MANAGER (SRM)	36265402
				4656+*	CONTROL TABLE	MDC043 36265902
000260	000000000			4657+CVTEXPRO DC	V(IEAVEXPR) - ADDRESS OF EXIT PROLOGUE/TYPE 1 EXIT	36266402
				4658+*		MDC044 36266902
000264	000000000			4659+CVTGSMQ DC	V(IEAGSMQ) - ADDRESS OF GLOBAL SERVICE MANAGER QUEUE	36267402
				4660+*		MDC045 36267902
000268	000000000			4661+CVTLSTMQ DC	V(IEALSMQ) - ADDRESS OF LOCAL SERVICE MANAGER QUEUE	36268402
				4662+*		MDC046 36268902
00026C	000000000			4663+CVTGSPPL DC	V(IEAGSPL) - ADDRESS OF GLOBAL SYSTEM PRIORITY LIST	36269402
				4664+*	QUEUE	MDC047 36269902
000270	000000000			4665+CVTVWAIT DC	V(IEAVWAIT) - ADDRESS OF WAIT ROUTINE	MDC048 36270402
000274	000000000			4666+CVTPARRL DC	V(IEAPPGMA) - ADDRESS OF PARTIALLY LOADED DELETE QUEUE	36270902
				4667+*		MDC049 36271402
000278				4668+CVTAPFT DS	A - ADDRESS OF AUTHORIZED PROGRAM FACILITY	36271902
				4669+*	(APF) TABLE. INITIALIZED BY NIP.	MDC050 36272402
00027C	000000000			4670+CVTQCS01 DC	V(IEAQCS01) - BRANCH ENTRY ADDRESS TO PROGRAM MANAGER	36272902
				4671+*	USED BY ATTACH	MDC051 36273402
000280				4672+CVTFQCB DS	A - POINTER TO FIRST MAJOR QCB FOR ENQ	MDC052 36273902
000284				4673+CVTLQCB DS	A - POINTER TO LAST MAJOR QCB FOR ENQ	MDC053 36277002
000288	000000000			4674+CVTRENQ DC	V(IEAVENQ2) - RESOURCE MANAGER ADDRESS FOR ENQ	MDC054 36277602
00028C	000000000			4675+CVTRSPIE DC	A(0) - RESOURCE MANAGER FOR SPIE	MDC055 36278202
000290	000000000			4676+CVTLKRMA DC	V(IEAVELRM) - RESOURCE MANAGER ADDRESS FOR LOCK MANAGER	36278802
				4677+*		MDC056 36279402
000294				4678+CVTCSD DS	A - VIRTUAL ADDRESS OF COMMON SYSTEM DATA AREA	36280002
				4679+*	(CSD). INITIALIZED BY NIP.	MDC057 36280602
000298	000000000			4680+CVTDQIQE DC	V(IEADQIQE) - RESOURCE MANAGER FOR EXIT EFFECTORS	MDC058 36281202
00029C	000000000			4681+CVTRPOST DC	V(IEARPOST) - RESOURCE MANAGER FOR POST	MDC059 36281802
0002A0	000000000			4682+CVT062R1 DC	V(IGC062R1) - BRANCH ENTRY TO DETACH	MDC060 36282402
0002A4	000000000			4683+CVTVEAC0 DC	V(IEAVEAC0) - ASCBCHAP BRANCH ENTRY	MDC061 36283002
0002A8	000000000			4684+CVTGLMN DC	V(GLBRANCH) - GLOBAL BRANCH ENTRY ADDRESS FOR	36283602
				4685+*	GETMAIN/FREEMAIN	MDC062 36284202
0002AC	000000000			4686+CVTSPSA DC	V(IEAVGWSA) - POINTER TO GLOBAL WORK/SAVE AREA VECTOR	36284802
				4687+*	TABLE (WSAG)	MDC071 36285402
0002B0	000000000			4688+CVTWSAL DC	V(IEAVWSAL) - ADDRESS OF TABLE OF LENGTHS OF LOCAL	36286002
				4689+*	WORK/SAVE AREAS	MDC072 36286602
0002B4	000000000			4690+CVTWSAG DC	V(IEAVWSAG) - ADDRESS OF TABLE OF LENGTHS OF GLOBAL	36286964
				4691+*	WORK/SAVE AREAS (MDC391)	@G64UP9A 36287464
0002B8	000000000			4692+CVTWSAC DC	V(IEAVWSAC) - ADDRESS OF TABLE OF LENGTHS OF CPU	36288402
				4693+*	WORK/SAVE AREAS	MDC074 36289002
0002BC	000000000			4694+CVTRECRQ DC	V(IEAVTRER) - ADDRESS OF THE RECORDING REQUEST FACILITY	36289602
				4695+*	(PART OF RTM1 - CALLED BY RTM2 AND RMS)	36290202
				4696+*		MDC075 36290802
0002C0	000000000			4697+CVTASMVT DC	V(ASMVT) - POINTER TO AUXILIARY STORAGE MANAGEMENT	36291440
				4698+*	VECTOR TABLE (AMVT) (MDC340)	@Z40WP9A 36291840
0002C4	000000000			4699+CVTIOBP DC	V(IDA121CV) - ADDRESS OF THE BLOCK PROCESSOR CVT	36292602
				4700+*	(MDC079)	YM0029 36293202
0002C8	000000000			4701+CVTSPOST DC	V(IEASPOST) - POST RESOURCE MANAGER TERMINATION ROUTINE	36293802
				4702+*	(RMTR) ENTRY POINT	MDC085 36294402
0002CC	000000000			4703+CVTRSTWD DC	F'0' - RESTART RESOURCE MANAGEMENT WORD -	36295002
				4704+*	CONTAINS IDENTIFIER OF USER IF RESTART IS	36295602
				4705+*	IN USE. OTHERWISE, ZERO.	MDC161 36296202
0002D0	000000000			4706+CVTFETCH DC	V(IEWMSEPT) - ADDRESS OF ENTRY POINT FOR BASIC FETCH	36296802
				4707+*		MDC196 36297402
0002D4	000000000			4708+CVT044R2 DC	V(IGC044R2) - ADDRESS OF IGC044R2 IN CHAP SERVICE	36298002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4709+*	ROUTINE	MDC197 36298602
0002D8	00000000			4710+CVTPERFM DC	A(0) - ADDRESS OF THE PERFORMANCE WORK AREA.	36299202
				4711+*	SET BY IGX00018.	MDC205 36301002
0002DC	00000000			4712+CVTDAIR DC	A(0) - ADDRESS OF IKJDAIR, TSO DYNAMIC	36301302
				4713+*	ALLOCATION INTERFACE ROUTINE (MDC212)	36301602
				4714+*		YM2225 36302202
0002E0	00000000			4715+CVTEHDEF DC	A(0) - ADDRESS OF IKJEHDEF, TSO DEFAULT SERVICE	36302502
				4716+*	ROUTINE (MDC213)	YM2225 36302802
0002E4	00000000			4717+CVTEHCIR DC	A(0) - ADDRESS OF IKJEHCIR, TSO CATALOG	36303402
				4718+*	INFORMATION ROUTINE (MDC214)	YM2225 36304302
0002E8				4719+CVTSSAP DS	A - ADDRESS OF SYSTEM SAVE AREA	MDC063 36305202
0002EC				4720+CVTAIDVT DS	A - POINTER TO APPENDAGE ID VECTOR TABLE	36305802
				4721+*		MDC064 36306402
0002F0	00000000			4722+CVTIPCDS DC	V(IEAVEDR) - BRANCH ENTRY FOR DIRECT SIGNAL	36307002
				4723+*	SERVICE ROUTINE	MDC065 36307602
0002F4	00000000			4724+CVTIPCRI DC	V(IEAVERI) - BRANCH ENTRY FOR REMOTE IMMEDIATE	36308202
				4725+*	SIGNAL SERVICE ROUTINE	MDC066 36308802
0002F8	00000000			4726+CVTIPCRP DC	V(IEAVERP) - BRANCH ENTRY FOR REMOTE PENDABLE	36309402
				4727+*	SIGNAL SERVICE ROUTINE	MDC067 36310002
0002FC				4728+CVTPCCAT DS	A - POINTER TO PHYSICAL CCA VECTOR TABLE	36310602
				4729+*		MDC068 36311202
000300				4730+CVTLCCAT DS	A - POINTER TO LOGICAL CCA VECTOR TABLE	MDC069 36311802
000304				4731+CVTRV210 DS	B - RESERVED	36312402
		00080		4732+CVTRV211 EQU	X'80',,,C'X' - RESERVED	36313002
		00040		4733+CVTRV212 EQU	X'40',,,C'X' - RESERVED	36313602
		00020		4734+CVTRV213 EQU	X'20',,,C'X' - RESERVED	36314202
		00010		4735+CVTRV214 EQU	X'10',,,C'X' - RESERVED	36314802
		00008		4736+CVTRV215 EQU	X'08',,,C'X' - RESERVED	36315402
		00004		4737+CVTRV216 EQU	X'04',,,C'X' - RESERVED	36316002
		00002		4738+CVTRV217 EQU	X'02',,,C'X' - RESERVED	36316602
		00001		4739+CVTRV218 EQU	X'01',,,C'X' - RESERVED	36317202
000305				4740+CVTRV219 DS	B - RESERVED	36317802
		00080		4741+CVTRV220 EQU	X'80',,,C'X' - RESERVED	36318402
		00040		4742+CVTRV221 EQU	X'40',,,C'X' - RESERVED	36319002
		00020		4743+CVTRV222 EQU	X'20',,,C'X' - RESERVED	36319602
		00010		4744+CVTRV223 EQU	X'10',,,C'X' - RESERVED	36320202
		00008		4745+CVTRV224 EQU	X'08',,,C'X' - RESERVED	36320802
		00004		4746+CVTRV225 EQU	X'04',,,C'X' - RESERVED	36321402
		00002		4747+CVTRV226 EQU	X'02',,,C'X' - RESERVED	36322002
		00001		4748+CVTRV227 EQU	X'01',,,C'X' - RESERVED	36322602
000306				4749+CVTRV228 DS	B - RESERVED	36323202
		00080		4750+CVTRV229 EQU	X'80',,,C'X' - RESERVED	36323802
		00040		4751+CVTRV230 EQU	X'40',,,C'X' - RESERVED	36324402
		00020		4752+CVTRV231 EQU	X'20',,,C'X' - RESERVED	36325002
		00010		4753+CVTRV232 EQU	X'10',,,C'X' - RESERVED	36325602
		00008		4754+CVTRV233 EQU	X'08',,,C'X' - RESERVED	36326202
		00004		4755+CVTRV234 EQU	X'04',,,C'X' - RESERVED	36326802
		00002		4756+CVTRV235 EQU	X'02',,,C'X' - RESERVED	36327402
		00001		4757+CVTRV236 EQU	X'01',,,C'X' - RESERVED	36328002
000307				4758+CVTRV237 DS	B - RESERVED	36328602
		00080		4759+CVTRV238 EQU	X'80',,,C'X' - RESERVED	36329202
		00040		4760+CVTRV239 EQU	X'40',,,C'X' - RESERVED	36329802
		00020		4761+CVTRV240 EQU	X'20',,,C'X' - RESERVED	36330402
		00010		4762+CVTRV241 EQU	X'10',,,C'X' - RESERVED	36331002
		00008		4763+CVTRV242 EQU	X'08',,,C'X' - RESERVED	36331602

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00004	4764+CVTRV243	EQU	X'04' , , C'X' - RESERVED	36332202
			00002	4765+CVTRV244	EQU	X'02' , , C'X' - RESERVED	36332802
			00001	4766+CVTRV245	EQU	X'01' , , C'X' - RESERVED	36333402
000308				4767+CVTRV246	DS	XL1 - RESERVED	36334002
000309				4768+CVTRV247	DS	XL1 - RESERVED	36334602
00030A				4769+CVTRV248	DS	XL1 - RESERVED	36335202
00030B				4770+CVTRV249	DS	XL1 - RESERVED	36335802
00030C				4771+CVTRV250	DS	XL1 - RESERVED	36336402
00030D				4772+CVTRV251	DS	XL1 - RESERVED	36337002
00030E				4773+CVTRV252	DS	AL2 - RESERVED	36337602
000310				4774+CVTRV253	DS	H - RESERVED	36338202
000312				4775+CVTRV254	DS	H - RESERVED	36338802
000314	00000000			4776+CVTPWI	DC	A(0) - ADDRESS OF THE WINDOW INTERCEPT ROUTINE	36339402
				4777+*		(MDC104) YM4043	36340002
000318	00000000			4778+CVTPVBP	DC	A(0) - ADDRESS OF THE VIRTUAL BLOCK PROCESSOR	36340602
				4779+*		(MDC105) YM4043	36341202
00031C	00000000			4780+CVTMFCTL	DC	A(0) - POINTER TO MEASUREMENT FACILITY CONTROL	36341802
				4781+*		BLOCK MDC100	36342402
000320	00000052			4782+CVTMFRTR	DC	A(CVTBRET) - IF MEASUREMENT FACILITY IS ACTIVE,	36343002
				4783+*		CONTAINS ADDRESS OF MEASUREMENT FACILITY	36343602
				4784+*		ROUTINE. OTHERWISE, ADDRESS OF CVTBRET.	36344202
				4785+*		MDC101	36344802
		00080		4786+CVTMFACT	EQU	X'80' - IF ONE, I/O SUPERVISOR AND TIMER SECOND	36345402
				4787+*		LEVEL INTERRUPT HANDLER HOOKS BRANCH	36345802
				4788+*		TO MEASUREMENT FACILITY ROUTER. USED TO	36346002
				4789+*		SET HIGH-ORDER BIT OF CVTMFRTR. MDC102	36346602
000324	00000000			4790+CVTVPSIB	DC	V(IEAVPSIB) - BRANCH ENTRY TO PAGE SERVICES	MDC108 36347202
000328	00000000			4791+CVTVSI	DC	V(IEAVAMSI) - BRANCH ENTRY TO VAM SERVICES	MDC109 36347802
00032C	00000000			4792+CVTVFP	DC	V(IEAVFP1) - BRANCH ENTRY TO FINDPAGE	MDC110 36348402
000330				4793+CVTRV262	DS	B - RESERVED	36349002
		00080		4794+CVTRV263	EQU	X'80' , , C'X' - RESERVED	36349602
		00040		4795+CVTRV264	EQU	X'40' , , C'X' - RESERVED	36350202
		00020		4796+CVTRV265	EQU	X'20' , , C'X' - RESERVED	36350802
		00010		4797+CVTRV266	EQU	X'10' , , C'X' - RESERVED	36351402
		00008		4798+CVTRV267	EQU	X'08' , , C'X' - RESERVED	36352002
		00004		4799+CVTRV268	EQU	X'04' , , C'X' - RESERVED	36352602
		00002		4800+CVTRV269	EQU	X'02' , , C'X' - RESERVED	36353202
		00001		4801+CVTRV270	EQU	X'01' , , C'X' - RESERVED	36353802
000331				4802+CVTRV271	DS	B - RESERVED	36354402
		00080		4803+CVTRV272	EQU	X'80' , , C'X' - RESERVED	36355002
		00040		4804+CVTRV273	EQU	X'40' , , C'X' - RESERVED	36355602
		00020		4805+CVTRV274	EQU	X'20' , , C'X' - RESERVED	36356202
		00010		4806+CVTRV275	EQU	X'10' , , C'X' - RESERVED	36356802
		00008		4807+CVTRV276	EQU	X'08' , , C'X' - RESERVED	36357402
		00004		4808+CVTRV277	EQU	X'04' , , C'X' - RESERVED	36358002
		00002		4809+CVTRV278	EQU	X'02' , , C'X' - RESERVED	36358602
		00001		4810+CVTRV279	EQU	X'01' , , C'X' - RESERVED	36359202
000332				4811+CVTRV280	DS	B - RESERVED	36359802
		00080		4812+CVTRV281	EQU	X'80' , , C'X' - RESERVED	36360402
		00040		4813+CVTRV282	EQU	X'40' , , C'X' - RESERVED	36361002
		00020		4814+CVTRV283	EQU	X'20' , , C'X' - RESERVED	36361602
		00010		4815+CVTRV284	EQU	X'10' , , C'X' - RESERVED	36362202
		00008		4816+CVTRV285	EQU	X'08' , , C'X' - RESERVED	36362802
		00004		4817+CVTRV286	EQU	X'04' , , C'X' - RESERVED	36363402
		00002		4818+CVTRV287	EQU	X'02' , , C'X' - RESERVED	36364002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00001	4819+CVTRV288	EQU	X'01',,,C'X' - RESERVED	36364602
000333				4820+CVTRV289	DS	B - RESERVED	36365202
			00080	4821+CVTRV290	EQU	X'80',,,C'X' - RESERVED	36365802
			00040	4822+CVTRV291	EQU	X'40',,,C'X' - RESERVED	36366402
			00020	4823+CVTRV292	EQU	X'20',,,C'X' - RESERVED	36367002
			00010	4824+CVTRV293	EQU	X'10',,,C'X' - RESERVED	36367602
			00008	4825+CVTRV294	EQU	X'08',,,C'X' - RESERVED	36368202
			00004	4826+CVTRV295	EQU	X'04',,,C'X' - RESERVED	36368802
			00002	4827+CVTRV296	EQU	X'02',,,C'X' - RESERVED	36369402
			00001	4828+CVTRV297	EQU	X'01',,,C'X' - RESERVED	36370002
000334	000000000			4829+CVTTRCA	DC	A(0) - ADDRESS OF TRACE TABLE HEADER	36370603
				4830+*		(MDC327) @ZA02352	36372403
000338				4831+CVTRV302	DS	AL2 - RESERVED	36373002
00033A				4832+CVTRV303	DS	AL2 - RESERVED	36373602
00033C				4833+CVTRV304	DS	H - RESERVED	36374202
00033E				4834+CVTRV305	DS	H - RESERVED	36374802
000340				4835+CVTRV306	DS	H - RESERVED	36375402
000342				4836+CVTRV307	DS	H - RESERVED	36376002
000344	000000000			4837+CVTVIOP	DC	V(IEAVPIOP) - ENTRY POINT OF PAGE I/O POST	MDC111 36376602
000348	000000000			4838+CVTRMBR	DC	V(RMBRANCH) - ADDRESS OF REGMAIN BRANCH ENTRY	MDC123 36377202
00034C	000000000			4839+CVTLFRM	DC	V(FMBRANCH) - LIST FORMAT FREEMAIN BRANCH ENTRY POINT	36377802
				4840+*		MDC124	36378402
000350	000000000			4841+CVTGMBR	DC	V(GMBRANCH) - LIST FORMAT GETMAIN BRANCH ENTRY POINT	36379002
				4842+*		MDC125	36379602
000354	000000000			4843+CVT0TC0A	DC	A(0) - ADDRESS OF TASK CLOSE MODULE IFG0TC0A	36380202
				4844+*		MDC128	36380802
000358	000000000			4845+CVTRLSTG	DC	F'0' - SIZE OF ACTUAL REAL STORAGE ONLINE AT	36381402
				4846+*		IPL TIME IN 'K'. VALUE PLACED HERE BY	36382002
				4847+*		IEAVNIPO. MDC153	36382602
00035C	000000000			4848+CVTSPFRR	DC	V(IEAVESPR) - 'SUPER FRR' ADDRESS (ADDRESS OF FUNCTIONAL	36383202
				4849+*		RECOVERY ROUTINE ESTABLISHED AT NIPO TIME	36383602
				4850+*		TO PROTECT SUPERVISOR CONTROL PROGRAM)	36383802
				4851+*		MDC154	36384402
000360	000000000			4852+CVTVEMS0	DC	V(IEAVEMS0) - ADDRESS OF MEMORY SWITCH ROUTINE	MDC155 36385002
000364	000000000			4853+CVTJRECM	DC	A(0) - ADDRESS OF SUBSYSTEM INTERFACE RESOURCE	36385602
				4854+*		MANAGER MDC157	36386202
000368	000000000			4855+CVTIRECM	DC	A(0) - ADDRESS OF INITIATOR RESOURCE MANAGER	36386802
				4856+*		MDC158	36387402
00036C	000000000			4857+CVTDARCM	DC	A(0) - ADDRESS OF DEVICE ALLOCATION RESOURCE	36388002
				4858+*		MANAGER MDC159	36388602
000370	000000000			4859+CVT0PT02	DC	V(IEA0PT02) - ADDRESS OF POST ENTRY POINT IEA0PT02	36389202
				4860+*		MDC160	36389802
000374	000000000			4861+CVTSTPRS	DC	V(IEESTPRS) - ENTRY POINT OF STOP AND RESTART	36390402
				4862+*		SUBROUTINE MDC162	36391002
000378	000000000			4863+CVTWTCB	DC	V(IEAWTCB) - ADDRESS OF WAIT STATE TCB	MDC164 36391602
00037C	000000000			4864+CVTVACR	DC	A(0) - ACR/VARY CPU CHANNEL RECOVERY ROUTINE	36393602
				4865+*		ADDRESS. ADDRESS FILLED IN BY VARY CPU	36394002
				4866+*		PROCESSOR. MDC178	36394402
000380	000000000			4867+CVTQUIT	DC	A(0) - VARY CPU SHUTDOWN ROUTINE ADDRESS.	36394802
				4868+*		ADDRESS FILLED IN BY VARY CPU PROCESSOR.	36394902
				4869+*		MDC179	36395002
000384	000000000			4870+CVTGTFR8	DC	V(AHLVCCR8) - GENERALIZED TRACE FACILITY (GTF) CONTROL	36395102
				4871+*		REGISTER 8 INITIALIZATION ROUTINE ADDRESS	36396502
				4872+*		MDC180	36398502
000388	000000000			4873+CVTVSTOP	DC	V(IEEVSTOP) - ADDRESS OF VARY CPU STOP CPU ROUTINE	36401202

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				4874+*		MDC169 36402602
00038C	00000000			4875+CVTVPSA DC	A(0) - ADDRESS OF COPY OF SYSGEN'ED PSA - PLACED	36404002
				4876+*	HERE BY NIP	MDC170 36405402
000390	00000000			4877+CVTRMPTT DC	A(0) - ADDRESS OF ISTRAMA1, THE VTAM RESOURCE	36406803
				4878+*	MANAGER FOR NORMAL AND ABNORMAL TASK	36407803
				4879+*	TERMINATION (MDC322) @Z30AP9A	36408803
000394	00000000			4880+CVTRMPMT DC	A(0) - ADDRESS OF ISTRAMA2, THE VTAM RESOURCE	36409803
				4881+*	MANAGER FOR NORMAL AND ABNORMAL MEMORY	36410803
				4882+*	TERMINATION (MDC323) @Z30AP9A	36411803
000398	00000000			4883+CVTEXP1 DC	V(IEAVEXP1) - ADDRESS OF EXIT PROLOGUE WHICH RETURNS TO	36415202
				4884+*	THE DISPATCHER	MDC173 36416602
00039C	00000000			4885+CVTCSDRL DC	A(0) - REAL ADDRESS OF COMMON SYSTEM DATA AREA	36418002
				4886+*	(CSD). INITIALIZED BY NIP.	MDC174 36419402
0003A0	00000000			4887+CVTSSRB DC	V(IGC07903) - STATUS STOP SRB ENTRY	MDC175 36420802
0003A4	00000000			4888+CVTRPT DC	A(0) - ADDRESS OF IGARPT01 MODULE OF RADIX	36422202
				4889+*	PARTITION TREE SERVICES. INITIALIZED	36423602
				4890+*	BY NIP.	MDC177 36425002
0003A8	00000000			4891+CVTQV1 DC	V(IEAVEQV1) - ADDRESS OF QUEUE VERIFICATION FOR SINGLE	36427002
				4892+*	THREADED QUEUES WITH HEADERS ONLY	MDC181 36429002
0003AC	00000000			4893+CVTQV2 DC	V(IEAVEQV2) - ADDRESS OF QUEUE VERIFICATION FOR SINGLE	36431002
				4894+*	THREADED QUEUES WITH HEADER AND TRAILER	36433002
				4895+*		MDC182 36433102
0003B0	00000000			4896+CVTQV3 DC	V(IEAVEQV3) - ADDRESS OF QUEUE VERIFICATION FOR DOUBLE	36433202
				4897+*	THREADED QUEUES	MDC183 36433302
0003B4	00000000			4898+CVTGSDA DC	F'0' - ADDRESS OF GLOBAL SYSTEM DUPLEX AREA.	36434802
				4899+*	ADDRESS FILLED IN BY NIP0.	MDC184 36436802
		00080		4900+CVTGSDAB EQU	X'80' - IF HIGH-ORDER BIT IS ONE, THERE IS A VALID	36438802
				4901+*	VALUE IN FOLLOWING 31 BITS	MDC185 36438902
0003B8	00000000			4902+CVTADV DC	V(IEAVEADV) - ADDRESS OF ADDRESS VERIFICATION ROUTINE	36439402
				4903+*		MDC186 36439802
0003BC	00000000			4904+CVTTPIO DC	V(IGC124) - ADDRESS OF VTAM TPIO (SVC 124) ROUTINE	36440002
				4905+*		MDC193 36440202
0003C0	00000000			4906+CVTCRCA DC	A(0) - WHEN CHANNEL RECONFIGURATION HARDWARE	36440303
				4907+*	(CRH) IS ACTIVE, ADDRESS OF CRH	36441303
				4908+*	COMMUNICATION AREA IECVCRCA.	36442303
				4909+*	OTHERWISE, ZERO. (MDC306) @Z30CQ9A	36443303
0003C4	00000000			4910+CVTEVENT DC	V(IEAVEVT0) - BRANCH ENTRY ADDRESS TO EVENTS (FAST	36445103
				4911+*	MULTIPLE WAIT ROUTINE) (MDC316) @Z30HP9A	36445203
0003C8	00000000			4912+CVTSSCR DC	A(0) - ADDRESS OF STORAGE SYSTEM CONTROLLER	36446003
				4913+*	RECOVERY MANAGER CLEANUP ROUTINE	36446803
				4914+*	(SSC RMCR) (MDC319) @Z30LP9A	36447603
0003CC	00000000			4915+CVTCBBR DC	V(CBBRANCH) - BRANCH ENTRY ADDRESS TO GETMAIN/FREEMAIN	36449603
				4916+*	(MDC325) @Z30EN9A	36449803
0003D0	00000000			4917+CVTEFF02 DC	A(0) - ADDRESS OF IKJEFF02, TSO MESSAGE ISSUER	36450003
				4918+*	SERVICE ROUTINE (MDC326) @ZM30972	36450203
0003D4	00000000			4919+CVTRV604 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36450603
0003D8	00000000			4920+CVTRV605 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36451603
0003DC	00000000			4921+CVTHSM DC	A(0) - POINTER TO HIERARCHICAL STORAGE MANAGER	36452641
				4922+*	(HSM) QUEUE CONTROL TABLE	36452741
				4923+*	(MDC375) @ZA27771	36452841
0003E0	00000000			4924+CVTRAC DC	A(0) - ADDRESS OF ACCESS CONTROL CVT	36453441
				4925+*	(MDC320) @Z40RP9A	36453540
0003E4	00000000			4926+CVTCGK DC	V(IEAVCKEY) - ADDRESS OF ROUTINE USED TO CHANGE THE KEY	36454604
				4927+*	OF VIRTUAL PAGES (MDC331) @Z40EP9A	36455604
0003E8	00000000			4928+CVTRV609 DC	A(0) - RESERVED (MDC332) @Z40AQ9A	36455804

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
0003EC	00000000			4929+CVT0PT0E DC	V(IEA0PT0E) - ENTRY POINT TO IDENTIFY POST EXIT ROUTINES	36459604
				4930+*	(MDC334) @Z40EP9A	36460604
0003F0	00000000			4931+CVT0PT03 DC	V(IEA0PT03) - POST REINVOCAION ENTRY POINT FROM POST	36461604
				4932+*	EXIT ROUTINES (MDC335) @Z40EP9A	36462604
0003F4	00000000			4933+CVTTCASP DC	A(0) - RESERVED FOR FUTURE USE (MDC336) @Z40DQ9A	36466604
0003F8	00000000			4934+CVTASMRM DC	V(ILRTERMR) - ADDRESS OF AUXILIARY STORAGE MANAGEMENT	36470640
				4935+*	RESOURCE MANAGER FOR ADDRESS SPACE	36470840
				4936+*	TERMINATION (MDC341) @Z40WP9A	36471040
0003FC	00000000			4937+CVTJTERM DC	V(ILRJTERM) - ADDRESS OF AUXILIARY STORAGE MANAGEMENT	36471640
				4938+*	JOB TERMINATION RESOURCE MANAGER	36472140
				4939+*	(MDC342) @Z40WP9A	36472640
000400	00000000			4940+CVTRSUME DC	V(IEAVRSME) - ADDRESS OF RESUME FUNCTION	36473640
				4941+*	(MDC344) @Z40FP9A	36474240
000404	00000000			4942+CVTTCTL DC	V(IEAVTCTL) - ADDRESS OF TRANSFER CONTROL (TCTL)	36475640
				4943+*	FUNCTION (MDC345) @Z40FP9A	36476240
000408	00000000			4944+CVTCDAL DC	A(0) - ADDRESS OF COMMON DISPATCHER ACTIVE LIST	36477640
				4945+*	(MDC346) @Z40FP9A	36478240
00040C	00000000			4946+CVTT6SVC DC	V(IEAVET6E) - ENTRY POINT ADDRESS FOR TYPE 6 SVC EXIT	36479640
				4947+*	FUNCTION (MDC347) @Z40FP9A	36480240
000410	00000000			4948+CVTSUSP DC	V(IEAVSPND) - ADDRESS OF SUSPEND ROUTINE	36481640
				4949+*	(MDC348) @Z40FP9A	36482540
000414	00000000			4950+CVTIHASU DC	V(IEAIHASU) - ADDRESS OF BIT STRING (MDC355) @Z404P9A	36484504
000418	00000000			4951+CVTVDCCR DC	V(IEEVDCCR) - ADDRESS OF DISABLED CONSOLE COMMUNICATION	36486564
				4952+*	ROUTINE (IEEVDCCR) (MDC384) @G64UP9A	36487164
00041C	00000000			4953+CVTCST DC	A(0) - ADDRESS OF CHANNEL SET TABLE (CST)	36488564
				4954+*	(MDC377) @G64AP9A	36489164
000420	00000000			4955+CVTRV623 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36490504
000424	00000000			4956+CVTRV624 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36493504
000428	00000000			4957+CVTRV625 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36496504
00042C	00000000			4958+CVTRV626 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36497504
000430	00000000			4959+CVTRV627 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36500504
000434	00000000			4960+CVTRV628 DC	A(0) - RESERVED (MDC307) @Z30AQ9A	36501504
				4961+*		36506504
				4962+*	OS - OS/VS COMMON EXTENSION	36508504
				4963+*	ADDRESS OF EXTENSION IS IN CVTEXT1	36510504
				4964+*		36512504
000000				4965+CVTXTNT1 DSECT		36517504
000000	00000000			4966+CVTFACHN DC	A(0) - ADDRESS OF CHAIN OF DCB FIELD AREAS	36528004
				4967+*	(ISAM) ICB421	36530004
000004				4968+CVTRSV87 DS	F - RESERVED	36532004
000008				4969+CVTRSV88 DS	F - RESERVED	36534004
				4970+*		36536004
				4971+*	OS/VS1 - OS/VS2 COMMON EXTENSION	36538004
				4972+*	ADDRESS OF EXTENSION IS IN CVTEXT2	36540004
				4973+*		36542004
000000				4974+CVTXTNT2 DSECT		36546004
000000				4975+CVTDSSV DS	0A - ADDRESS OF THE DYNAMIC SUPPORT SYSTEM	36556004
				4976+*	(DSS) VECTOR TABLE ICB313	36558004
000000				4977+CVTRSV89 DS	XL1 - RESERVED ICB313	36560004
000001	000000			4978+CVTDSSVA DC	VL3(IQADSV00) ADDRESS OF THE DYNAMIC SUPPORT SYSTEM	36562004
				4979+*	(DSS) VECTOR TABLE ICB393	36564004
000004				4980+CVTNUCLS DS	C - IDENTIFICATION OF THE NUCLEUS MEMBER	36566004
				4981+*	NAME ICB322	36574001
000005	00			4982+CVTFLGBT DC	XL1'00' - FLAG BYTE (OS/VS1) (MDC301) @X04EP9A	36584003
		00080		4983+CVTNPE EQU	X'80' - INDICATES NON-PAGING ENVIRONMENT (VM	36590003

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				4984+*		HANDSHAKING) (OS/VS1) (MDC302) @X04EP9A	36596003
		00040		4985+CVTVME	EQU	X'40' - INDICATES MACHINE IS OPERATING IN VM	36602003
				4986+*		ENVIRONMENT (OS/VS1) (MDC303) @X04EP9A	36608003
		00020		4987+CVTBAH	EQU	X'20' - INDICATES THAT THE VM/370 - OS/VS1 BTAM	36611006
				4988+*		AUTOPOLL HANDSHAKE IS OPERATIONAL	36614006
				4989+*		(OS/VS1) (MDC356) @X60KL9A	36617006
		00010		4990+CVTRSV9D	EQU	X'10' , , , C'X' - RESERVED	36624001
		00008		4991+CVTRSV9E	EQU	X'08' , , , C'X' - RESERVED	36626001
		00004		4992+CVTRSV9F	EQU	X'04' , , , C'X' - RESERVED	36628001
		00002		4993+CVTRSV9G	EQU	X'02' , , , C'X' - RESERVED	36630001
		00001		4994+CVTRSV9H	EQU	X'01' , , , C'X' - RESERVED	36632001
000006				4995+CVTRSV9I	DS	H - RESERVED	36632401
000008	00000000			4996+CVTDEBVR	DC	V(IFGDEBVR) - ADDRESS OF BRANCH ENTRY POINT OF DEB	36644002
				4997+*		VALIDITY CHECK ROUTINE (ICB380) XM9028	36654002
00000C	00000000			4998+CVTRSV92	DC	A(0) - RESERVED (MDC190) YM2278	36664002
000010				4999+CVTRSV93	DS	F - RESERVED	36672601
000014				5000+CVTRSV94	DS	F - RESERVED	36672701
000018				5001+CVTQID	DS	0A - SAME AS CVTQIDA BELOW	ICB381 36672901
000018	00			5002+CVTRSV95	DC	XL1'00' - RESERVED	ICB381 36673201
000019	000000			5003+CVTQIDA	DC	AL3(0) - ADDRESS OF QUEUE IDENTIFICATION (QID)	ICB381 36673602
				5004+*		TABLE PREFIX	ICB381 36673702
00001C				5005+CVTOLTEP	DS	A - POINTER TO CONTROL BLOCK CREATED BY SVC 59	ICB423 36673801
				5006+*		TO POINT TO PSEUDO-DEB'S	ICB423 36673901
000020				5007+CVTRSV96	DS	H - RESERVED	36683901
000022				5008+CVTRSV97	DS	H - RESERVED	36685901
000024				5009+CVTRSV98	DS	F - RESERVED	36687901
000028	00000000			5010+CVTCCVT	DC	A(0) - ADDRESS OF CRYPTOGRAPHIC FACILITY CVT	@ZA27771 36690141
				5011+*		(MDC370)	@ZA27771 36691141
00002C	00000000			5012+CVTSKTA	DC	A(0) - ADDRESS OF STORAGE KEY TABLE (VM	@X04EP9A 36694904
				5013+*		HANDSHAKING) (OS/VS1) (MDC304)	@X04EP9A 36695704
000030	00000000			5014+CVTICB	DC	A(0) - ADDRESS OF MASS STORAGE SYSTEM (MSS)	@Z30LP9A 36702704
				5015+*		CONTROL BLOCK (MDC305)	@Z30LP9A 36703804
000034				5016+CVTRV400	DS	B - RESERVED	36705804
		00080		5017+CVTRV401	EQU	X'80' , , , C'X' - RESERVED	36706804
		00040		5018+CVTRV402	EQU	X'40' , , , C'X' - RESERVED	36707804
		00020		5019+CVTRV403	EQU	X'20' , , , C'X' - RESERVED	36708804
		00010		5020+CVTRV404	EQU	X'10' , , , C'X' - RESERVED	36709804
		00008		5021+CVTRV405	EQU	X'08' , , , C'X' - RESERVED	36710804
		00004		5022+CVTRV406	EQU	X'04' , , , C'X' - RESERVED	36711804
		00002		5023+CVTRV407	EQU	X'02' , , , C'X' - RESERVED	36713802
		00001		5024+CVTRV408	EQU	X'01' , , , C'X' - RESERVED	36713902
000035				5025+CVTRV409	DS	B - RESERVED	36717202
		00080		5026+CVTRV410	EQU	X'80' , , , C'X' - RESERVED	36719202
		00040		5027+CVTRV411	EQU	X'40' , , , C'X' - RESERVED	36719602
		00020		5028+CVTRV412	EQU	X'20' , , , C'X' - RESERVED	36720002
		00010		5029+CVTRV413	EQU	X'10' , , , C'X' - RESERVED	36720402
		00008		5030+CVTRV414	EQU	X'08' , , , C'X' - RESERVED	36720502
		00004		5031+CVTRV415	EQU	X'04' , , , C'X' - RESERVED	36720602
		00002		5032+CVTRV416	EQU	X'02' , , , C'X' - RESERVED	36726402
		00001		5033+CVTRV417	EQU	X'01' , , , C'X' - RESERVED	36728402
000036				5034+CVTRV418	DS	XL1 - RESERVED	36730402
000037				5035+CVTRV419	DS	XL1 - RESERVED	36730802
000038				5036+CVTRV420	DS	AL2 - RESERVED	36731202
00003A				5037+CVTRV421	DS	H - RESERVED	36731602
00003C				5038+CVTRV422	DS	H - RESERVED	36732002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
00003E				5039+CVTRV423	DS	H -	RESERVED 36732102
000040				5040+CVTATCVT	DS	A -	POINTER TO VTAM'S CVT MDC080 36732202
		00080		5041+CVTATACT	EQU	X'80'	IF ON, VTAM IS ACTIVE MDC081 36736102
000044				5042+CVTRV425	DS	A -	RESERVED 36744002
000048				5043+CVTRV426	DS	A -	RESERVED 36782302
00004C				5044+CVTRV427	DS	A -	RESERVED 36792302
000050				5045+CVTRV428	DS	F -	RESERVED 36802302
000054				5046+CVTRV429	DS	B -	RESERVED 36812302
		00080		5047+CVTRV430	EQU	X'80' , , C'X' -	RESERVED 36822302
		00040		5048+CVTRV431	EQU	X'40' , , C'X' -	RESERVED 36824302
		00020		5049+CVTRV432	EQU	X'20' , , C'X' -	RESERVED 36826302
		00010		5050+CVTRV433	EQU	X'10' , , C'X' -	RESERVED 36828302
		00008		5051+CVTRV434	EQU	X'08' , , C'X' -	RESERVED 36830302
		00004		5052+CVTRV435	EQU	X'04' , , C'X' -	RESERVED 36830702
		00002		5053+CVTRV436	EQU	X'02' , , C'X' -	RESERVED 36831102
		00001		5054+CVTRV437	EQU	X'01' , , C'X' -	RESERVED 36831502
000055				5055+CVTRV438	DS	B -	RESERVED 36831902
		00080		5056+CVTRV439	EQU	X'80' , , C'X' -	RESERVED 36832002
		00040		5057+CVTRV440	EQU	X'40' , , C'X' -	RESERVED 36832102
		00020		5058+CVTRV441	EQU	X'20' , , C'X' -	RESERVED 36832202
		00010		5059+CVTRV442	EQU	X'10' , , C'X' -	RESERVED 36848902
		00008		5060+CVTRV443	EQU	X'08' , , C'X' -	RESERVED 36858902
		00004		5061+CVTRV444	EQU	X'04' , , C'X' -	RESERVED 36860902
		00002		5062+CVTRV445	EQU	X'02' , , C'X' -	RESERVED 36862902
		00001		5063+CVTRV446	EQU	X'01' , , C'X' -	RESERVED 36864902
000056				5064+CVTRV447	DS	XL1 -	RESERVED 36865302
000057				5065+CVTRV448	DS	XL1 -	RESERVED 36865402
000058				5066+CVTRV449	DS	AL2 -	RESERVED 36865502
00005A				5067+CVTRV450	DS	H -	RESERVED 36871102
00005C				5068+CVTRV451	DS	H -	RESERVED 36873102
00005E				5069+CVTRV452	DS	H -	RESERVED 36875102
000060				5070+CVTRV453	DS	A -	RESERVED 36875502
000064				5071+CVTRV454	DS	A -	RESERVED 36875902
000068				5072+CVTRV455	DS	A -	RESERVED 36876302
00006C				5073+CVTRV456	DS	A -	RESERVED 36876402
000070				5074+CVTRV457	DS	B -	RESERVED 36876502
		00080		5075+CVTRV458	EQU	X'80' , , C'X' -	RESERVED 36876602
		00040		5076+CVTRV459	EQU	X'40' , , C'X' -	RESERVED 36890502
		00020		5077+CVTRV460	EQU	X'20' , , C'X' -	RESERVED 36900502
		00010		5078+CVTRV461	EQU	X'10' , , C'X' -	RESERVED 36902502
		00008		5079+CVTRV462	EQU	X'08' , , C'X' -	RESERVED 36902902
		00004		5080+CVTRV463	EQU	X'04' , , C'X' -	RESERVED 36903302
		00002		5081+CVTRV464	EQU	X'02' , , C'X' -	RESERVED 36903702
		00001		5082+CVTRV465	EQU	X'01' , , C'X' -	RESERVED 36904102
000071				5083+CVTRV466	DS	B -	RESERVED 36904202
		00080		5084+CVTRV467	EQU	X'80' , , C'X' -	RESERVED 36904302
		00040		5085+CVTRV468	EQU	X'40' , , C'X' -	RESERVED 36904402
		00020		5086+CVTRV469	EQU	X'20' , , C'X' -	RESERVED 36909002
		00010		5087+CVTRV470	EQU	X'10' , , C'X' -	RESERVED 36911002
		00008		5088+CVTRV471	EQU	X'08' , , C'X' -	RESERVED 36913002
		00004		5089+CVTRV472	EQU	X'04' , , C'X' -	RESERVED 36913402
		00002		5090+CVTRV473	EQU	X'02' , , C'X' -	RESERVED 36913502
		00001		5091+CVTRV474	EQU	X'01' , , C'X' -	RESERVED 36913602
000072				5092+CVTRV475	DS	XL1 -	RESERVED 36913702
000073				5093+CVTRV476	DS	XL1 -	RESERVED 36918302

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000074				5094+CVTRV477	DS	XL1 - RESERVED	36920302
000075				5095+CVTRV478	DS	XL1 - RESERVED	36922302
000076				5096+CVTRV479	DS	H - RESERVED	36922702
000078				5097+CVTRV480	DS	A - RESERVED	36922802
00007C				5098+CVTRV481	DS	A - RESERVED	36922902
000080				5099+CVTRV482	DS	A - RESERVED	36923002
				5100+*			36923102
				5101+*		END OF CVT	36927702
				5102+	POP	PRINT	36932302

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5104	IHAASCB	Address Space Control Block
				5105+*	%ASCBL1 : ;	00152002
				5106+*		00154002
				5107+*/	*****	*/ 00156002
				5108+*/		*/ 00158002
				5109+*/	ADDRESS SPACE CONTROL BLOCK	*/ 00158402
				5110+*/		*/ 00158802
				5111+*/	OS/V S2 SU64, 05/12/78, LEVEL=3	*/ 00158964
				5112+*/		*/ 00159602
				5113+*/	METHOD OF ACCESS	*/ 00159702
				5114+*/	BAL - DSECT IS PRODUCED UNLESS DSECT=NO IS SPECIFIED.	*/ 00159802
				5115+*/	USING ON ASCB GIVES ADDRESSABILITY FOR ALL SYMBOLS.	*/ 00159902
				5116+*/	PL/S - DCL ASCBPTR PTR	*/ 00173202
				5117+*/		*/ 00183202
				5118+*/	*****	*/ 00185202
				5119+*	%GOTO ASCBL2; /*	00185602
000000				5121+ASCB	DSECT	00200002
000000				5122+ASCBEGIN	DS 0D - BEGINNING OF ASCB	00250002
000000				5123+ASCBASCB	DS CL4 - ACRONYM IN EBCDIC -ASCB-	00300002
000004				5124+ASCBFWDP	DS A - ADDRESS OF NEXT ASCB ON ASCB READY	00350002
				5125+*	QUEUE	00400002
000008				5126+ASCBWDP	DS A - ADDRESS OF PREVIOUS ASCB ON ASCB	00450002
				5127+*	READY QUEUE	00500002
00000C				5128+ASCBMSF	DS A - ADDRESS OF NEXT ASCB ON CMS SUSPEND	00550040
				5129+*	QUEUE (MDC304) @Z40FP9A	00560040
000010				5130+ASCBSUPC	DS 0D - SUPERVISOR CELL FIELD	00570040
				5131+*	(MDC309) @Z40FP9A	00580040
000010				5132+ASCBSVRB	DS A - SVRB POOL ADDRESS (MDC310) @Z40FP9A	00650040
000014				5133+ASCBSYNC	DS F - COUNT USED TO SYNCHRONIZE SVRB POOL	00670040
				5134+*	(MDC311) @Z40FP9A	00690040
000018				5135+ASCBIOSP	DS A - POINTER TO IOS PURGE INTERFACE	00710040
				5136+*	CONTROL BLOCK (IPIB)	00770040
				5137+*	(MDC308) @Z40FP9A	00790040
00001C				5138+ASCBSPL	DS A - POINTER TO SPL	00850002
000020				5139+ASCBPUS	DS F - NUMBER OF CPU'S ACTIVE IN THIS	00900002
				5140+*	MEMORY MDC007	00950002
000024				5141+ASCBASID	DS H - ADDRESS SPACE IDENTIFIER FOR THE	01050002
				5142+*	ASCB	01100002
000026				5143+ASCBSEQN	DS H - SEQUENCE NUMBER THAT REPRESENTS THE	01150002
				5144+*	ASCB'S POSITION ON THE DISPATCHING	01200002
				5145+*	QUEUE	01250002
000028				5146+ASCBIOSM	DS H - I/O SERVICE MEASURE	01300002
00002A				5147+ASCBRV07	DS FL1 - RESERVED MDC017	01350002
00002B				5148+ASCBDP	DS FL1 - DISPATCHING PRIORITY RANGE FROM	01450002
				5149+*	0-255	01500002
00002C				5150+ASCBSTOR	DS A - TABLE LENGTH AND REAL ADDRESS OF	01550002
				5151+*	SEGMENT TABLE IN THE SAME FORMAT AS	01600002
				5152+*	CONTROL REGISTER ONE MDC027	01610002
000030				5153+ASCB LDA	DS A - POINTER TO LOCAL DATA AREA PART OF	01650002
				5154+*	LSQA FOR VSM	01700002
000034				5155+ASCB RSM	DS 0A - ADDRESS OF RSM'S CONTROL BLOCK	01720040
				5156+*	HEADER @ZA17355	01730040
000034				5157+ASCB RSMF	DS B - RSM ADDRESS SPACE FLAGS	01800040
				5158+*	(MDC368) @ZA17355	01801040

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
			00080	5159+ASCB2LPU EQU	X'80' -	SECOND LEVEL PREFERRED USER 01806040
				5160+*		(MDC369) @ZA17355 01807040
			00040	5161+ASCB1LPU EQU	X'40' -	FIRST LEVEL PREFERRED USER 01812040
				5162+*		(MDC370) @ZA17355 01813040
			00020	5163+ASCBN2LP EQU	X'20' -	SRM IN SYSEVENT TRANSWAP SHOULD NOT 01815040
				5164+*		SET ASCB2LPU BIT - HOWEVER IT MAY 01818040
				5165+*		ALREADY BE ON AND WILL STAY ON 01818340
				5166+*		(MDC371) @ZA17355 01819040
		00010		5167+ASCBVEQR EQU	X'10' -	V=R ADDRESS SPACE (MDC372) @ZA17355 01821040
		00008		5168+ASCBRV51 EQU	X'08' , , C'X' -	RESERVED @ZA17355 01824040
		00004		5169+ASCBRV52 EQU	X'04' , , C'X' -	RESERVED @ZA17355 01827040
		00002		5170+ASCBRV53 EQU	X'02' , , C'X' -	RESERVED @ZA17355 01830040
		00001		5171+ASCBRV54 EQU	X'01' , , C'X' -	RESERVED @ZA17355 01833040
000035				5172+ASCBRSMA DS	AL3 -	ADDRESS OF RSM'S CONTROL BLOCK 01839040
				5173+*		HEADER (MDC373) @ZA17355 01840040
000038				5174+ASCBBCSCB DS	A -	ADDRESS OF CSCB 01850002
00003C				5175+ASCBTSB DS	A -	ADDRESS OF TSB 01900002
000040				5176+ASCB EJST DS	D -	ELAPSED JOB STEP TIMING UNSIGNED 01950002
				5177+*		64 BIT BINARY NUMBER 02000002
000048				5178+ASCB EWST DS	D -	TIME OF DAY WHENEVER I-STREAM IS 02050002
				5179+*		SWITCHED FROM A MEMORY 02100002
000050				5180+ASCBJSTL DS	F -	CPU TIME LIMIT FOR THE JOB STEP 02150002
				5181+*		UNSIGNED 32 BIT BINARY NUMBER 02200002
000054				5182+ASCB ECB DS	F -	RCT'S WORK ECB 02250002
000058				5183+ASCBUBET DS	F -	TIME STAMP WHEN USER BECOMES READY 02300002
00005C				5184+ASCBRV44 DS	F -	RESERVED (MDC318) @Z40FP9A 02350040
000060				5185+ASCB DUMP DS	A -	SVC DUMP'S ECB POINTER 02400002
000064				5186+ASCBFW1 DS	0F -	FULL-WORD LABEL TO BE USED FOR 02410002
				5187+*		COMPARE AND SWAP FOR ANY BIT IN 02420002
				5188+*		THIS WORD MDC026 02430002
000064				5189+ASCB AFFN DS	H -	CPU AFFINITY INDICATOR 02450002
000066				5190+ASCB RCTF DS	B -	FLAGS FOR RCT 02500002
		00080		5191+ASCB TMNO EQU	X'80' -	MEMORY IS BEING QUIESCED, IS 02550002
				5192+*		QUIESCED, OR IS BEING RESTORED 02600002
		00040		5193+ASCBFRS EQU	X'40' -	RESTORE REQUEST 02650002
		00020		5194+ASCBFQU EQU	X'20' -	QUIESCE REQUEST 02700002
		00010		5195+ASCBRV08 EQU	X'10' , , C'X' -	RESERVED (MDC031) YM2236 02750002
		00008		5196+ASCB WAIT EQU	X'08' -	LONG WAIT INDICATOR 02800002
		00004		5197+ASCB OUT EQU	X'04' -	ADDRESS SPACE CONSIDERED SWAPPED OUT 02850002
		00002		5198+ASCB TMLW EQU	X'02' -	MEMORY IS IN A LONG WAIT 02900002
		00001		5199+ASCB RF01 EQU	X'01' , , C'X' -	RESERVED 02950002
000067				5200+ASCB FLG1 DS	B -	FLAG FIELD 03000002
		00080		5201+ASCB TOFF EQU	X'80' -	MEMORY SHOULD NOT BE CHECKED FOR JOB 03050002
				5202+*		STEP TIMING 03100002
		00040		5203+ASCB CMSH EQU	X'40' -	CMS LOCK HELD 03150002
		00020		5204+ASCB S3S EQU	X'20' -	STAGE II EXIT EFFECTOR HAS SCHEDULED 03200002
				5205+*		A RQE OR IQE AND STAGE III EXIT 03250002
				5206+*		EFFECTOR SHOULD BE INVOKED 03300002
		00010		5207+ASCB TERM EQU	X'10' -	ADDRESS SPACE TERMINATING NORMALLY 03350002
		00008		5208+ASCB ABNT EQU	X'08' -	ADDRESS SPACE TERMINATING ABNORMALLY 03400002
		00004		5209+ASCB STND EQU	X'04' -	TCB'S NON-DISPATCHABLE 03450002
		00002		5210+ASCB TYP1 EQU	X'02' -	TYPE 1 SVC HAS CONTROL 03500002
		00001		5211+ASCB NSWP EQU	X'01' -	PROGRAM IS NON SWAPPABLE OR WILL 03550002
				5212+*		RUN IN V=R REGION 03600002
000068				5213+ASCB TMCH DS	F -	TERMINATION QUEUE CHAIN 03650002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
00006C				5214+ASCBASXB DS	A -	POINTER TO ADDRESS SPACE EXTENSION	03700002
				5215+*		CONTROL BLOCK (ASXB)	03750002
000070				5216+ASCBWCT DS	H -	NUMBER OF TIMES MEMORY ENTERS SHORT	03800002
				5217+*		WAIT	03850002
000072				5218+ASCBDSP1 DS	B -	NON-DISPATCHABILITY FLAGS	03900002
		00080		5219+ASCBNOQ EQU	X'80' -	ASCB NOT ON ASCB DISPATCHING QUEUE	03950002
		00040		5220+ASCBFAIL EQU	X'40' -	A FAILURE HAS OCCURRED WITHIN THE	04000002
				5221+*		ADDRESS SPACE. THE MEMORY IS NON-	04050002
				5222+*		DISPATCHABLE	04100002
		00020		5223+ASCBRF02 EQU	X'20' , , C'X' -	RESERVED	MDC013 04110002
		00010		5224+ASCBRF03 EQU	X'10' , , C'X' -	RESERVED	MDC014 04120002
		00008		5225+ASCBRF04 EQU	X'08' , , C'X' -	RESERVED	04130002
		00004		5226+ASCBRF05 EQU	X'04' , , C'X' -	RESERVED	04140002
		00002		5227+ASCBRF06 EQU	X'02' , , C'X' -	RESERVED	04142002
		00001		5228+ASCBRF07 EQU	X'01' , , C'X' -	RESERVED	04144002
000073				5229+ASCBFLG2 DS	B -	FLAG BYTE	MDC015 04194002
		00080		5230+ASCBXMPT EQU	X'80' -	ASCB EXEMPT FROM SYSTEM	04198002
				5231+*		NON-DISPATCHABLE	MDC013 04198402
		00040		5232+ASCBPXMT EQU	X'40' -	ASCB PERMANENTLY EXEMPT FROM SYSTEM	04198802
				5233+*		NON-DISPATCHABLE	MDC014 04199202
		00020		5234+ASCBCEXT EQU	X'20' -	CANCEL TIMER EXTENSION BECAUSE EOT	04199602
				5235+*		PROCESSING IS STARTED FOR THE JOB	04199702
				5236+*		STEP TCB	MDC021 04203902
		00010		5237+ASCBS2S EQU	X'10' -	FOR LOCK MANAGER, ENTRY MADE TO	04205902
				5238+*		STAGE II EXIT EFFECTOR WITHOUT	04207902
				5239+*		CORRESPONDING ENTRY TO STAGE III	04208002
				5240+*		EXIT EFFECTOR	MDC020 04208102
		00008		5241+ASCBSNQS EQU	X'08' -	STATUS STOP NON-QUIESCEABLE LEVEL	04210102
				5242+*		SRB'S	MDC028 04212102
		00004		5243+ASCBRV04 EQU	X'04' , , C'X' -	RESERVED	04212402
		00002		5244+ASCBRV05 EQU	X'02' , , C'X' -	RESERVED	04214464
		00001		5245+ASCBRV06 EQU	X'01' , , C'X' -	RESERVED	04220464
000074				5246+ASCBSSRB DS	H -	COUNT OF STATUS STOP SRB'S	04233302
000076				5247+ASCB SRBS DS	H -	COUNT OF SRB'S DISPATCHED IN THIS	04250002
				5248+*		MEMORY	04300002
000078				5249+ASCBVSC DS	H -	ALLOCATED AUXILIARY SLOT COUNT	04350002
				5250+*		(VAM)	MDC004 04400002
00007A				5251+ASCBNVSC DS	H -	ALLOCATED AUXILIARY SLOT COUNT	04450002
				5252+*		(NON-VAM)	MDC005 04460002
00007C				5253+ASCBTCBS DS	F -	NUMBER OF READY TCB'S IN THIS	04470002
				5254+*		MEMORY	MDC006 04480002
000080				5255+ASCB LKGP DS	0D -	LOCK GROUP (MDC306)	@Z40FP9A 04500040
000080				5256+ASCBLOCK DS	F -	LOCAL LOCK (MDC305)	@Z40FP9A 04540040
000084				5257+ASCBLSQH DS	A -	LOCAL LOCK SUSPEND QUEUE HEADER	04580040
				5258+*		(MDC307)	@Z40FP9A 04620040
000088				5259+ASCBQECB DS	F -	QUIESCE ECB	04700002
00008C				5260+ASCBMECB DS	F -	MEMORY CREATE/DELETE ECB	04750002
000090				5261+ASCB OUCB DS	A -	SYSTEM RESOURCES MANAGER (SRM) USER	04760002
				5262+*		CONTROL BLOCK POINTER	04770002
000094				5263+ASCB OUXB DS	A -	SYSTEM RESOURCES MANAGER (SRM) USER	04780002
				5264+*		EXTENSION BLOCK POINTER	04790002
000098				5265+ASCB FMCT DS	H -	ALLOCATED PAGE FRAME COUNT	04792002
00009A				5266+ASCB RS01 DS	H -	RESERVED FOR FUTURE USE	04794002
00009C				5267+ASCBXMPQ DS	A -	POINTER TO XMPOST SRB QUEUE	MDC023 04796002
0000A0				5268+ASCB IQEA DS	A -	POINTER TO IQE FOR ATCAM	04800002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				5269+*		ASYNCHRONOUS PROCESSING	MDC010 04810002
0000A4				5270+ASCBRTWA DS	A -	POINTER TO LAST RTM2 WORK AREA	04860002
				5271+*		ACQUIRED FROM SQA	MDC011 04870002
0000A8				5272+ASCBMCC DS	CL4 -	USED TO HOLD A MEMORY TERMINATION	04900002
				5273+*		COMPLETION CODE ON ABNORMAL MEMORY	04910002
				5274+*		TERMINATION	MDC012 04920002
0000AC				5275+ASCBJBNI DS	A -	POINTER TO JOBNAME FIELD FOR	04930002
				5276+*		INITIATED PROGRAMS OR ZERO	MDC018 04940002
0000B0				5277+ASCBJBNS DS	A -	POINTER TO JOBNAME FIELD FOR	04950002
				5278+*		START/MOUNT/LOGON OR ZERO	MDC019 04960002
0000B4				5279+ASCBSRQ DS	0F -	DISPATCHER SERIALIZATION QUEUE	05010040
				5280+*		(MDC312)	@Z40FP9A 05012040
0000B4				5281+ASCBSRQ1 DS	B -	FIRST BYTE OF ASCBSRQ	05014040
				5282+*		(MDC313)	@Z40FP9A 05016040
	00080			5283+ASCBSTA EQU	X'80' -	STATUS ACTIVE (MDC314)	@Z40FP9A 05018040
	00040			5284+ASCBRV13 EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A 05020040
	00020			5285+ASCBRV14 EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A 05022040
	00010			5286+ASCBRV15 EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A 05024040
	00008			5287+ASCBRV16 EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A 05026040
	00004			5288+ASCBRV17 EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A 05028040
	00002			5289+ASCBRV18 EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A 05030040
	00001			5290+ASCBRV19 EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A 05032040
0000B5				5291+ASCBSRQ2 DS	B -	SECOND BYTE OF ASCBSRQ	05034040
				5292+*		(MDC315)	@Z40FP9A 05036040
	00080			5293+ASCBRV20 EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A 05038040
	00040			5294+ASCBRV21 EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A 05040040
	00020			5295+ASCBRV22 EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A 05042040
	00010			5296+ASCBRV23 EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A 05044040
	00008			5297+ASCBRV24 EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A 05046040
	00004			5298+ASCBRV25 EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A 05048040
	00002			5299+ASCBRV26 EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A 05050040
	00001			5300+ASCBRV27 EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A 05052040
0000B6				5301+ASCBSRQ3 DS	B -	THIRD BYTE OF ASCBSRQ	05054040
				5302+*		(MDC316)	@Z40FP9A 05056040
	00080			5303+ASCBRV28 EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A 05058040
	00040			5304+ASCBRV29 EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A 05060040
	00020			5305+ASCBRV30 EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A 05062040
	00010			5306+ASCBRV31 EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A 05064040
	00008			5307+ASCBRV32 EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A 05066040
	00004			5308+ASCBRV33 EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A 05068040
	00002			5309+ASCBRV34 EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A 05070040
	00001			5310+ASCBRV35 EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A 05072040
0000B7				5311+ASCBSRQ4 DS	B -	FOURTH BYTE OF ASCBSRQ	05074040
				5312+*		(MDC317)	@Z40FP9A 05076040
	00080			5313+ASCBRV36 EQU	X'80' , , C'X' -	RESERVED	@Z40FP9A 05078040
	00040			5314+ASCBRV37 EQU	X'40' , , C'X' -	RESERVED	@Z40FP9A 05080040
	00020			5315+ASCBRV38 EQU	X'20' , , C'X' -	RESERVED	@Z40FP9A 05082040
	00010			5316+ASCBRV39 EQU	X'10' , , C'X' -	RESERVED	@Z40FP9A 05084040
	00008			5317+ASCBRV40 EQU	X'08' , , C'X' -	RESERVED	@Z40FP9A 05086040
	00004			5318+ASCBRV41 EQU	X'04' , , C'X' -	RESERVED	@Z40FP9A 05088040
	00002			5319+ASCBRV42 EQU	X'02' , , C'X' -	RESERVED	@Z40FP9A 05090040
	00001			5320+ASCBRV43 EQU	X'01' , , C'X' -	RESERVED	@Z40FP9A 05092040
0000B8				5321+ASCBVGTT DS	A -	ADDRESS OF VSAM GLOBAL TERMINATION	05110002
				5322+*		TABLE (VGTT)	MDC024 05160002
0000BC				5323+ASCBPCTT DS	A -	ADDRESS OF PRIVATE CATALOG	05210002

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5324+*	TERMINATION TABLE (PCTT)	MDC025 05220002
0000C0				5325+ASCBRS12 DS	H -	RESERVED FOR FUTURE USE 05250002
0000C2				5326+ASCBMCT DS	FL1 -	NUMBER OF OUTSTANDING STEP MUST 05300002
				5327+*	COMPLETE REQUESTS IN ADDRESS	05310002
				5328+*	SPACE	MDC016 05320002
0000C3				5329+ASCB SRBM DS	B -	MODEL PSW BYTE 0 USED BY SRB 05330064
				5330+*	DISPATCHER (MDC379)	@G64RP9A 05350064
		00040		5331+ASCBPER EQU	X'40' -	PER BIT IN ASCB SRBM - ALSO USED TO 05360064
				5332+*	SHOW PER STATUS FOR THE ADDRESS	05370064
				5333+*	SPACE (MDC380)	@G64RP9A 05380064
0000C4				5334+ASCB SWTL DS	F -	STEP WAIT TIME LIMIT MDC029 05400002
0000C8				5335+ASCB SRBT DS	D -	ACCUMULATED SRB TIME MDC030 05410002
0000D0				5336+ASCBEND DS	0D -	END OF ASCB 05450002
		000D0		5337 ASCBLEN EQU	*-ASCB	Length of ASCB

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
000000				5339	UCB DSECT	
				5340	IEFUCBOB LIST=YES,PREFIX=NO Unit Control Block	
				5341+	%UCBL1 : ;	00250000
				5342+	*****	00300000
				5343+		00350000
				5344+	UNIT CONTROL BLOCK	00400000
				5345+		00450000
				5346+	*****	00500000
				5347+		00550000
				5348+	STATUS	00600000
				5349+		00650000
				5350+	OS/VS2 PTF. 07/24/79, LEVEL=2, (3800 ENH. FDM1133 SUPPORT).	00660003
				5351+		00750000
				5352+	METHOD OF ACCESS	00800000
				5353+		00850000
				5354+	-MULTIPROCESSING PREFIX, COMMON AND DEVICE DEPENDENT SEGMENTS,	00900000
				5355+	AND DEVICE DEPENDENT EXTENSIONS.	00950000
				5356+	THE UCB ADDRESS LOCATED FROM THE UCB LOOK UP TABLE POINTS	01000000
				5357+	TO THE COMMON SEGMENT. THIS ADDRESS MUST HAVE THE PREFIX	01050000
				5358+	ADDRESSABILITY CONSTANT SUBTRACTED FROM IT IN ORDER TO MAP	01100000
				5359+	THE PREFIX FIELDS AND STANDARD FIELDS VIA THIS MACRO.	01150000
				5360+		01200000
				5361+	PL/S - DCL UCBPTR PTR	01250000
				5362+	BAL - PREFIX=YES	01300000
				5363+	A DSECT STATEMENT LABELED UCB IS PROVIDED. A	01350000
				5364+	USING STATEMENT ON THE SYMBOL UCB WILL PROVIDE	01400000
				5365+	ADDRESSABILITY TO ALL PORTIONS OF THIS MAPPING	01450000
				5366+	MACRO EXCEPT THE EXTENSIONS. ADDITIONAL USING	01500000
				5367+	STATEMENTS ARE NECESSARY TO OBTAIN ADDRESSING	01550000
				5368+	TO THESE EXTENSIONS. THESE ARE AS FOLLOWS -	01600000
				5369+		01650000
				5370+	COMMON EXTENSION UCBCMEXT	01700000
				5371+	MAGNETIC TAPE EXTENSION UCBMT	01750000
				5372+	OPTICAL CHARACTER READER EXT UCBOCR	01800000
				5373+	3540 DEVICE EXTENSION UCB3540X @Z300P9A	01820003
				5374+	3800 DEVICE EXTENSION UCB3800X @Z40MP9A	01830004
				5375+	UNIT RECORD WITH UCS EXTENSION UCBCUS	01850000
				5376+		01900000
				5377+	WHEN LISTING IS SUPPRESSED, YOU CAN DETERMINE WHICH	01950000
				5378+	DSECT A SYMBOL IS IN BY USING THE STATEMENT NUMBER	02000000
				5379+	IN THE DEFN COLUMN IN THE CROSS REFERENCE LISTING.	02050000
				5380+	FOR EXAMPLE, ANY SYMBOL DEFINED BETWEEN THE	02100000
				5381+	STATEMENT NUMBERS FOR UCBMT AND UCBOCR IS IN THE	02150000
				5382+	UCBMT DSECT.	02200000
				5383+		02250000
				5384+	-ALL PORTIONS EXCEPT THE MP PREFIX.	02300000
				5385+		02350000
				5386+	BAL - PREFIX=NO OR THE PREFIX PARAMETER OMITTED OR EQUAL	02400000
				5387+	TO ANY STRING OTHER THAN YES.	02450000
				5388+	A DSECT STATEMENT SHOULD PRECEDE THE MACRO CALL.	02500000
				5389+	SYMBOLS IN THE COMMON SECTION AND DEVICE DEPENDENT	02550000
				5390+	SEGMENTS ARE ADDRESSABLE BY A USING ON UCB0B.	02600000
				5391+	THE ABOVE COMMENTS ON THE EXTENSIONS APPLY HERE.	02650000
				5392+		02700000
				5393+	F.E.'S	02750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5394+*/		*/ 02800000
				5395+*/	MICROFICHE LISTING - IEFUCBOB	*/ 02850000
				5396+*/		*/ 02900000
				5397+*/	DEVELOPERS	*/ 02950000
				5398+*/		*/ 03000000
				5399+*/	BAL LISTING - SPECIFY LIST=YES ON MACRO CALL	*/ 03050000
				5400+*/	PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE INCLUDE	*/ 03100000
				5401+*/		*/ 03150000
				5402+*/		*/ 03200000
				5403+*/	FUNCTION	*/ 03250000
				5404+*/		*/ 03300000
				5405+*/	A UNIT CONTROL BLOCK INCORPORATING A SYSTEM RESOURCE TABLE	*/ 03350000
				5406+*/	RECORDS THE STATUS OF A PHYSICAL INPUT OUTPUT DEVICE	*/ 03400000
				5407+*/	ADDRESS AND IS CREATED AND INITIALIZED DURING SYSTEM	*/ 03450000
				5408+*/	GENERATION. THE UNIT CONTROL BLOCK RESIDES IN THE NUCLEUS	*/ 03500000
				5409+*/	BELOW 64K AND MAY POINT TO A DEVICE TYPE DEPENDENT	*/ 03550003
				5410+*/	EXTENSION RESIDING HIGHER IN THE NUCLEUS.	*/ 03600000
				5411+*/	THE COMMON SEGMENT OF THE UCB IS POINTED TO BY	*/ 03650000
				5412+*/	THE UCB LOOKUP TABLE WHICH IS INDEXED BY	*/ 03700000
				5413+*/	A FUNCTION OF THE CHANNEL CONTROL UNIT DEVICE ADDRESS.	*/ 03750000
				5414+*/	THE UCB MAY BE POINTED TO BY TASK INPUT/OUTPUT TABLES	*/ 03800000
				5415+*/	AND DATA EXTENT BLOCKS. THE UCB WILL CONTAIN INDICES	*/ 03850000
				5416+*/	INTO DEVICE STATISTICS, ATTENTION AND LOGICAL CHANNEL	*/ 03900000
				5417+*/	TABLES.	*/ 03950000
				5418+*/		*/ 04000000
				5419+*/	OUTPUT	*/ 04050000
				5420+*/	MULTIPROCESSING PREFIX	*/ 04100000
				5421+*/	SYSGEN INDEPENDENT COMMON SECTION	*/ 04150000
				5422+*/	INCLUDING UCBTYP WORD	*/ 04200000
				5423+*/	DEVICE DEPENDENT SEGMENT (ONE OF THE FOLLOWING)	*/ 04250000
				5424+*/	DIRECT ACCESS	*/ 04300000
				5425+*/	MAGNETIC TAPE	*/ 04350000
				5426+*/	UNIT RECORD WITH UCS OR 3886 OR 3540 OR 3800	@Z40MP9A*/ 04400004
				5427+*/	GRAPHICS EXCEPT 3270	*/ 04450000
				5428+*/	3270 GRAPHICS	*/ 04500000
				5429+*/	3704, 3705 TELEPROCESSING DEVICE	*/ 04550000
				5430+*/	CHANNEL-TO-CHANNEL DEVICE	*/ 04560004
				5431+*/	3851 OR 3838 DEVICE	@G29AN9A*/ 04565016
				5432+*/	COMMON EXTENSION	*/ 04600000
				5433+*/	UCB EXTENSION (ONE OF THE FOLLOWING)	*/ 04650000
				5434+*/	MAGNETIC TAPE	*/ 04700000
				5435+*/	OPTICAL CHARACTER READER	*/ 04750000
				5436+*/	3540 DEVICE	@Z300P9A*/ 04770003
				5437+*/	3800 DEVICE	@Z40MP9A*/ 04780004
				5438+*/	UNIT RECORD WITH UNIVERSAL CHARACTER SET	*/ 04800000
				5439+*/		*/ 04850000
				5440+*/	*****	*/ 04900000
				5441+*/	%GOTO UCBL2; /*	04950000
				5442+	PUSH PRINT	05000000
				5443+	*****	06250000
				5444+		06300000
				5445+	SYSGEN-INDEPENDENT	06350000
				5446+	COMMON SECTION	06400000
				5447+		06450000
000000				5448+UCBOB	DS 0F	06500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
		00000		5449+UCBBGN EQU * -		MDC158 06600000
				5450+*		06700000
				5451+*****		06750000
				5452+*		06800000
000000		00000		5453+UCBCMSEG EQU * -	START OF COMMON SECTION	MDC168 06850000
				5454+UCBJBNR DS B -	FLAG BYTE (OS/VS2)	MDC012 06900000
		00080		5455+UCBVRDEV EQU X'80' -	UCB FOR VIO DEVICE (MDC366) @G51BP9A	06950051
		00040		5456+UCBJES3 EQU X'40' -	ALL VOLUME MOUNTING AND DEVICE	07000000
				5457+*	MANAGEMENT FOR THIS DEVICE IS	07050000
				5458+*	CONTROLLED BY JES3	MDC246 07100000
		00020		5459+UCBDUC EQU X'20' -	DISPLAY DEVICE UNIT CHECK - IPL	07150004
				5460+*	(MDC347) @ZA04127	07160004
		00010		5461+UCBBOX EQU X'10' -	IF THIS BIT AND UCBIORST BIT ARE ON,	07200041
				5462+*	THE DEVICE HA BEEN FORCED OFFLINE	07210041
				5463+*	DUE TO A ERROR (MDC383) @ZA36385	07220041
		00008		5464+UCBOLDISM EQU X'08' -	OLTEP COMMUNICATING DIRECTLY WITH	07250003
				5465+*	THE MASS STORAGE CONTROL (MSC),	07258003
				5466+*	NOT THROUGH THE MASS STORAGE SYSTEM	07266003
				5467+*	COMMUNICATOR (MSSC)	07274003
				5468+*	(MDC301) @Z30LP9A	07282003
		00004		5469+UCBMMSGP EQU X'04' -	MOUNT MESSAGE PENDING. THE DEVICE	07300003
				5470+*	HAS BEEN SELECTED BY DEVICE	07310003
				5471+*	ALLOCATION, BUT NO MOUNT MESSAGE HAS	07320003
				5472+*	BEEN ISSUED. (MDC361) @ZA14242	07330003
		00002		5473+UCBURINP EQU X'02' -	UNCONDITIONAL RESERVE IN PROGRESS	07350041
				5474+*	(MDC384) @ZA36385	07360041
		00001		5475+UCBMONT EQU X'01' -	VOLUME TO BE MOUNTED IS TO BE	07400000
				5476+*	RETAINED OR CONTAIN A PASSED DATA	07450000
000001				5477+*	SET (SET BY DEVICE ALLOCATION OR	07500000
				5478+*	DATA MANAGEMENT FOR OS/VS2) MDC014	07550000
				5479+UCBFL5 DS B -	FLAGS	07600000
		00080		5480+UCBDCC EQU X'80' -	DISCONNECT COMMAND CHAIN DEVICE	07650000
				5481+*		MDC098 07700000
		00040		5482+UCBAF EQU X'40' -	ATTENTION FOR THIS CONSOLE DEVICE	07750000
				5483+*	IS TO BE PROCESSED BY THE	07800000
				5484+*	COMMUNICATIONS TASK ICB321	07850000
		00040		5485+UCBAMV EQU X'40' -	SUCCESSFUL COMPARISON CHECKING OF	07900000
				5486+*	THE ACCESS METHOD CATALOG AND THE	07950000
				5487+*	VTOC (VSAM DIRECT ACCESS DEVICES	08000000
				5488+*	ONLY) ICB437	08050000
		00020		5489+UCBSASK EQU X'20' -	DEVICE REQUIRES STAND ALONE	08100000
				5490+*	SEEK MDC099	08150000
		00010		5491+UCBVSDR EQU X'10' -	DEVICE HAS VARIABLE LENGTH SDR'S	08200000
		00008		5492+UCBENVRD EQU X'08' -	DEVICE RETURNS ENVIRONMENTAL	08250000
				5493+*	DATA MDC100	08300000
		00004		5494+UCBNALOC EQU X'04' -	THIS OFFLINE DEVICE IS BEING USED BY	08350000
				5495+*	A SYSTEM COMPONENT. THE DEVICE	08400000
				5496+*	STATUS MUST NOT CHANGE TO ONLINE NOR	08450000
				5497+*	WILL IT BE ALLOCATED. THE LAST	08500000
				5498+*	PATH/CHANNEL/CPU TO THE DEVICE MUST	08550000
				5499+*	NOT BE VARY'ED OFFLINE. THE DEVICE	08600000
				5500+*	IS UNAVAILABLE FOR USAGE BY ANOTHER	08650000
				5501+*	SYSTEM COMPONENT WHICH PROCESSES	08700000
				5502+*	OFFLINE DEVICES. TO SET THIS	08750000
				5503+*	INDICATOR ON, A COMPONENT MUST	08800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5504+*	OBTAIN VIA ENQ, EXCLUSIVE, SYSTEM	08850000
				5505+*	LEVEL CONTROL OF RESOURCE SYSIEFSD,	08900000
				5506+*	Q4. SERIALIZATION IS NOT REQUIRED	08950000
				5507+*	TO TURN THIS INDICATOR OFF. MDC027	09000000
		00002		5508+UCBALTCU EQU X'02' -	DEVICE HAS AN ALTERNATE CONTROL UNIT	09050000
				5509+*	ADDRESS	09100000
		00001		5510+UCBALTPH EQU X'01' -	DEVICE HAS AN ALTERNATE PATH	09150000
000002				5511+UCBID DS C -	UCB IDENTIFICATION (FF)	09200000
		000FF		5512+UCBSTND EQU X'FF' -	STANDARD UCB MDC101	09250000
000003				5513+UCBSTAT DS B -	DEVICE STATUS	09300000
		00080		5514+UCBONLI EQU X'80' -	DEVICE IS ONLINE	09350000
		00040		5515+UCBCHGS EQU X'40' -	DEVICE STATUS IS TO BE CHANGED FROM	09400000
				5516+*	ONLINE TO OFFLINE, AND EITHER	09450000
				5517+*	ALLOCATION IS ENQUEUED ON DEVICES	09500000
				5518+*	OR THE DEVICE IS ALLOCATED. (BIT 0	09550000
				5519+*	IS ALSO ON.)	09600000
		00020		5520+UCBRESV EQU X'20' -	THE MOUNT STATUS OF THE VOLUME ON	09650000
				5521+*	THIS DEVICE IS RESERVED	09700000
		00010		5522+UCBUNLD EQU X'10' -	UNLOAD OPERATOR COMMAND HAS BEEN	09750000
				5523+*	ADDRESSED TO THIS DEVICE. THE	09800000
				5524+*	DEVICE IS NOT YET UNLOADED.	09850000
		00008		5525+UCBALOC EQU X'08' -	DEVICE IS ALLOCATED	09900000
		00004		5526+UCBPRES EQU X'04' -	THE MOUNT STATUS OF THE VOLUME ON	09950000
				5527+*	THIS DEVICE IS PERMANENTLY RESIDENT	10000000
		00002		5528+UCBSYSR EQU X'02' -	SYSTEM RESIDENCE DEVICE OR	10050000
				5529+*	PRIMARY CONSOLE OR	10100000
				5530+*	ACTIVE CONSOLE	10150000
		00001		5531+UCBDADI EQU X'01' -	STANDARD TAPE LABELS HAVE BEEN	10200000
				5532+*	VERIFIED FOR THIS TAPE VOLUME	10250000
				5533+*	OR SECONDARY CONSOLE OR	10300000
				5534+*	CONSOLE STATUS CHANGING	10350000
000004				5535+UCBCHAN DS 0FL2 -	BINARY CHANNEL/UNIT ADDRESS MDC102	10400000
000004				5536+UCBCHA DS FL1 -	BINARY CHANNEL ADDRESS OF LAST	10450000
				5537+*	STARTED I/O OPERATION	10500000
000005				5538+UCBUA DS FL1 -	BINARY UNIT ADDRESS	10550000
000006				5539+UCBSFLS DS 0BL2 -	DEVICE STATUS FLAGS MDC103	10600000
000006				5540+UCBFLA DS BL1 -	I/O SUPERVISOR FLAG BYTE A MDC104	10650000
		00006		5541+UCBFL1 EQU UCBFLA -	ALIAS	10700000
		00080		5542+UCBBSY EQU X'80' -	DEVICE IS BUSY MDC105	10750000
		00080		5543+UCBBUSYD EQU UCBBSY -	ALIAS	10800000
		00040		5544+UCBNRY EQU X'40' -	DEVICE NOT READY MDC106	10850000
		00040		5545+UCBNOTRD EQU UCBNRY -	ALIAS	10900000
		00020		5546+UCBPST EQU X'20' -	POST FLAG (ASSOC IOQE) MDC107	10950000
		00020		5547+UCBUSING EQU UCBPST -	ALIAS	11000000
		00010		5548+UCBPSNS EQU X'10' -	PENDING SENSE OPERATION MDC108	11050000
		00008		5549+UCBCUB EQU X'08' -	CONTROL UNIT BUSY MDC109	11100000
		00008		5550+UCBNOTRC EQU UCBCUB -	ALIAS	11150000
		00004		5551+UCBSAP EQU X'04' -	STAND ALONE PROCESS ON DEVICE ACTIVE	11200000
				5552+*	(EG., RESERVE) MDC110	11250000
		00002		5553+UCBACTV EQU X'02' -	CHANNEL PROGRAM ACTIVE ON DEVICE	11300000
				5554+*	MDC111	11350000
		00001		5555+UCBQISCE EQU X'01' -	DEVICE QUIESCED MDC112	11400000
000007				5556+UCBFLB DS BL1 -	I/O SUPERVISOR FLAG BYTE B MDC113	11450000
		00080		5557+UCBIORST EQU X'80' -	I/O RESTART VIA ALTERNATE CPU	11500000
				5558+*	RECOVERY HAS FACTORED DEVICE OUT	11550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5559+*	OF CONFIGURATION BECAUSE OF	11600000
				5560+*	NON-ACCESSABILITY. ALL INCOMING	11650000
				5561+*	I/O REQUESTS ARE INTERCEPTED AND	11700000
				5562+*	MARKED IN PERMANENT ERROR WITH A	11750000
				5563+*	COMPLETION CODE OF X'51'.	11800003
				5564+*	HOWEVER, IF CHANNEL RECONFIGURATION	11805003
				5565+*	HARDWARE (CRH) IS ACTIVE AND CRH	11810003
				5566+*	WILL BE USED TO ACCESS THE DEVICE	11815003
				5567+*	ASSOCIATED WITH THE UCB, THIS BIT	11820003
				5568+*	WILL BE ON IN EVERY UCB THAT HAS	11825003
				5569+*	OUTSTANDING I/O ACROSS A CRH PATH.	11830003
				5570+*	(MDC320) @Z30CQ9A	11835003
	00040			5571+UCBASNS EQU X'40' -	SENSE ACTIVE ON DEVICE MDC115	11850000
	00020			5572+UCBSPST EQU X'20' -	SENSE POST INDICATOR MDC116	11900000
	00010			5573+UCBRESVH EQU X'10' -	DEVICE RESERVED INDICATOR MDC157	11950000
	00008			5574+UCBCRHRV EQU X'08' -	RESERVED PATH THROUGH A CHANNEL	12000003
				5575+*	RECONFIGURATION HARDWARE (CRH)	12010003
				5576+*	CONNECTION (MDC303) @Z30CQ9A	12020003
	00004			5577+UCBCRHSN EQU X'04' -	IF 1, SENSE PENDING FROM INOPERATIVE	12050003
				5578+*	CPU. IF 0, SENSE PENDING FROM	12058003
				5579+*	OPERATIVE CPU. BIT IS SET ONLY WHEN	12066003
				5580+*	CHANNEL RECONFIGURATION HARDWARE	12074003
				5581+*	(CRH) IS ACTIVE. (MDC332) @Z30CQ9A	12082003
	00002			5582+UCBVALPH EQU X'02' -	PATH VALIDATION (MDC337) @ZA00078	12100003
	00001			5583+UCBSIGP EQU X'01' -	IOS SIGP INDICATOR TO PREVENT	12150004
				5584+*	PING/PONG (MDC346) @ZA03601	12160004
000008				5585+UCBCHM DS 0B -	PATH STATUS MASK FOR THIS DEVICE	12200000
				5586+*	MDC198	12250000
000008				5587+UCBCHM1 DS B -	SAME AS UCBCHM MDC199	12300000
	000C0			5588+UCBPTH0 EQU X'C0' -	PATHS FROM CPU 0 MDC200	12350000
	00080			5589+UCBPPA EQU X'80' -	PRIMARY PATH CPU 0. IF 0, PATH IS	12400004
				5590+*	AVAILABLE. IF 1, PATH IS	12410004
				5591+*	UNAVAILABLE. (MDC350) @Z40AQ9A	12420004
	00040			5592+UCBSPA EQU X'40' -	SECONDARY PATH CPU 0. IF 0, PATH IS	12450004
				5593+*	AVAILABLE. IF 1, PATH IS	12460004
				5594+*	UNAVAILABLE. (MDC351) @Z40AQ9A	12470004
	00030			5595+UCBPTH1 EQU X'30' -	PATHS FROM CPU 1 MDC203	12500000
	00020			5596+UCBPPB EQU X'20' -	PRIMARY PATH CPU 1. IF 0, PATH IS	12550004
				5597+*	AVAILABLE. IF 1, PATH IS	12560004
				5598+*	UNAVAILABLE. (MDC352) @Z40AQ9A	12570004
	00010			5599+UCBSPB EQU X'10' -	SECONDARY PATH CPU 1. IF 0, PATH IS	12600004
				5600+*	AVAILABLE. IF 1, PATH IS	12610004
				5601+*	UNAVAILABLE. (MDC353) @Z40AQ9A	12620004
	00008			5602+UCBRV014 EQU X'08' , , C'X' -	RESERVED	12650000
	00004			5603+UCBRV015 EQU X'04' , , C'X' -	RESERVED	12700000
	00002			5604+UCBRV016 EQU X'02' , , C'X' -	RESERVED	12750000
	00001			5605+UCBRV017 EQU X'01' , , C'X' -	RESERVED	12800000
000009				5606+UCBCNT DS FL1 -	COUNT OF QUEUED REQUESTS WAITING	12850000
				5607+*	FOR DEVICE MDC206	12900000
00000A				5608+UCBLCI DS FL1 -	INCREMENT WHICH, WHEN MULTIPLIED BY	12950000
				5609+*	32, BECOMES AN INDEX TO THE LOGICAL	13000004
				5610+*	CHANNEL TABLE (LCHTAB)	13050000
				5611+*	(MDC349) @Z40AQ9A	13070004
00000B				5612+UCBCPU DS XL1 -	LAST SIO TO DEVICE ISSUED FROM THIS	13100000
				5613+*	CPUID MDC207	13150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
00000C				5614+UCBWGT	DS	B -	FLAGS 13200000
		00080		5615+UCBIN	EQU	X'80' -	SYSIN 13250000
		00040		5616+UCBOUT	EQU	X'40' -	SYSOUT 13300000
		00020		5617+UCBPUB	EQU	X'20' -	ASSUMED THAT THIS DEVICE WILL BE 13350000
				5618+*			ALLOCATED FOR A PUBLIC VOLUME 13400000
				5619+*			REQUEST 13450000
		00010		5620+UCBREW	EQU	X'10' -	REWIND COMMAND HAS BEEN ADDRESSED TO 13500000
				5621+*			THIS MAGNETIC DEVICE BY I/O SUPPORT 13550000
		00008		5622+UCBMTPXP	EQU	X'08' -	MULTIPLE EXPOSURE DEVICE MDC117 13600000
		00004		5623+UCBVORSN	EQU	X'04' -	VARY COMMAND OPERATOR REASON 13650000
				5624+*			INDICATOR MDC118 13700000
		00002		5625+UCBVHRSN	EQU	X'02' -	VARY COMMAND HIERARCHY REASON 13750000
				5626+*			INDICATOR MDC119 13800000
		00001		5627+UCBRV029	EQU	X'01' , , C'X' -	RESERVED MDC028 13850000
00000D				5628+UCBNAME	DS	CL3 -	UNIT NAME (EBCDIC) 13900000
000010				5629+UCBTYP	DS	0CL4 -	DEVICE TYPE 13950000
000010				5630+UCBTBYT1	DS	B -	MODEL BITS 14000000
		00080		5631+UCB1FEA0	EQU	X'80' -	BIT 0 14050000
		00040		5632+UCB1FEA1	EQU	X'40' -	BIT 1 14100000
		00020		5633+UCB1FEA2	EQU	X'20' -	BIT 2 14150000
		00010		5634+UCB1FEA3	EQU	X'10' -	BIT 3 14200000
		00008		5635+UCB1FEA4	EQU	X'08' -	BIT 4 14250000
		00004		5636+UCB1FEA5	EQU	X'04' -	BIT 5 14300000
		00004		5637+UCBD1600	EQU	X'04' -	1600 BPI ICB475 14350000
		00002		5638+UCB1FEA6	EQU	X'02' -	BIT 6 14400000
		00002		5639+UCBD6250	EQU	X'02' -	6250 BPI ICB475 14450000
		00001		5640+UCB1FEA7	EQU	X'01' -	BIT 7 14500000
000011				5641+UCBTBYT2	DS	B -	OPTION FLAGS 14550000
		00080		5642+UCB20PT0	EQU	X'80' -	FLAG 0 14600000
		00040		5643+UCB20PT1	EQU	X'40' -	FLAG 1 14650000
		00020		5644+UCB20PT2	EQU	X'20' -	FLAG 2 14700000
		00020		5645+UCBDUDN1	EQU	X'20' -	DUAL DENSITY 800/1600 BPI ICB475 14750000
		00020		5646+UCBRR	EQU	X'20' -	THIS DEVICE IS SHARABLE BETWEEN 14800000
				5647+*			TWO CPU'S (DIRECT ACCESS) MDC159 14850000
		00010		5648+UCB20PT3	EQU	X'10' -	FLAG 3 14900000
		00010		5649+UCBDUDN2	EQU	X'10' -	DUAL DENSITY 1600/6250 BPI ICB475 14950000
		00010		5650+UCBRPS	EQU	X'10' -	ROTATIONAL POSITION SENSING (RPS) 15000000
				5651+*			DEVICE (DIRECT ACCESS) MDC120 15050000
		00008		5652+UCB20PT4	EQU	X'08' -	FLAG 4 15100000
		00008		5653+UCBRWTAU	EQU	X'08' -	READ/WRITE TAPE CONTROL MDC166 15150000
		00008		5654+UCBRVDEV	EQU	X'08' -	IF 0, REAL DEVICE. IF 1, VIRTUAL 15160003
				5655+*			DEVICE. (DIRECT ACCESS) 15170003
				5656+*			(MDC300) @Z30LP9A 15180003
		00004		5657+UCB20PT5	EQU	X'04' -	FLAG 5 15200000
		00002		5658+UCB20PT6	EQU	X'02' -	FLAG 6 15250000
		00002		5659+UCBVLPWR	EQU	X'02' -	VOLUME REQUIRES ALTERNATE POWER 15300003
				5660+*			SOURCE DEVICE (MDC322) @Z30AQ9A 15310003
		00001		5661+UCB20PT7	EQU	X'01' -	FLAG 7 15350000
		00001		5662+UCBDVPWR	EQU	X'01' -	DEVICE HAS ALTERNATE POWER SOURCE 15400003
				5663+*			(MDC323) @Z30AQ9A 15410003
000012				5664+UCBDVCLS	DS	0B -	SAME AS UCBTBYT3 MDC169 15450000
000012				5665+UCBTBYT3	DS	B -	CLASS BITS 15500000
		00080		5666+UCB3TAPE	EQU	X'80' -	TAPE 15550000
		00040		5667+UCB3COMM	EQU	X'40' -	COMMUNICATIONS 15600000
		00041		5668+UCB3CTC	EQU	X'41' -	CHANNEL-TO-CHANNEL ADAPTER MDC239 15650000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00020	5669+UCB3DACC	EQU	X'20' -	DIRECT ACCESS 15700000
			00010	5670+UCB3DISP	EQU	X'10' -	DISPLAY 15750000
			00008	5671+UCB3UREC	EQU	X'08' -	UNIT RECORD 15800000
			00004	5672+UCB3CHAR	EQU	X'04' -	CHARACTER READER 15850000
			00002	5673+UCBRSV10	EQU	X'02' , , C'X' -	RESERVED 15900000
			00001	5674+UCBRSV11	EQU	X'01' , , C'X' -	RESERVED 15950000
000013				5675+UCBUNTYP	DS	0C -	SAME AS UCBTBYT4 MDC170 16000000
000013				5676+UCBTBYT4	DS	C -	DEVICE CODE 16050000
		000F1		5677+UCB3791L	EQU	X'F1' -	3791 LOCAL CONTROL UNIT 16053004
				5678+*			(MDC342) @Z40KP9A 16056004
		0004C		5679+UCB3838	EQU	X'4C' -	3838 ARRAY PROCESSOR 16057016
				5680+*			(MDC360) @G29AN9A 16058016
		00042		5681+UCBDSM	EQU	X'42' -	MASS STORAGE CONTROL (MSC) (3851) 16060003
				5682+*			(MDC329) @Z30LP9A 16070003
		0003D		5683+UCB7443	EQU	X'3D' -	7443 SERVICE RECORD FILE 16073051
				5684+*			(MDC368) @G51DP9A 16076051
		00019		5685+UCB3895	EQU	X'19' -	3895 DEVICE (MDC363) @G30AP9A 16080016
		00011		5686+UCB42AD1	EQU	X'11' -	2702 CONTROL UNIT WITH TYPE 1 16100000
				5687+*			ADAPTOR 16150000
		0000E		5688+UCB3800	EQU	X'0E' -	3800 DEVICE (MDC321) @Z40MP9A 16170004
		0000D		5689+UCB3036	EQU	X'0D' -	3036 DISPLAY CONSOLE 16180051
				5690+*			(MDC367) @G51AP9A 16190051
		00009		5691+UCB3211	EQU	X'09' -	3211 PRINTER MDC165 16200000
		00003		5692+UCB3400	EQU	X'03' -	3400 MAGNETIC TAPE MDC021 16250000
		00001		5693+UCB2400	EQU	X'01' -	2400 SERIES MAGNETIC TAPE 16300000
				5694+*			DEVICE ICB376 16350000
000014				5695+UCBEXTPT	DS	0A -	ADDRESS OF COMMON UCB EXTENSION 16400000
				5696+*			MDC227 16450000
000014				5697+UCBFLC	DS	BL1 -	I/O SUPERVISOR FLAG BYTE C MDC228 16500000
		00080		5698+UCBATTTP	EQU	X'80' -	ATTENTION PENDING MDC229 16550000
		00040		5699+UCBWAA	EQU	X'40' -	WORK AREA APPENDED MDC230 16600000
		00020		5700+UCBUDE	EQU	X'20' -	UNSOLICITED DEVICE END RECEIVED 16650000
				5701+*			MDC231 16700000
		00010		5702+UCBITF	EQU	X'10' -	INTERCEPT CONDITION MDC232 16750000
		00008		5703+UCBIVRS	EQU	X'08' -	INTERVENTION REQUIRED MESSAGE 16800000
				5704+*			ISSUED MDC233 16850000
		00004		5705+UCBIVRR	EQU	X'04' -	INTERVENTION REQUIRED MESSAGE 16900000
				5706+*			IS NEEDED MDC234 16950000
		00002		5707+UCBTICBT	EQU	X'02' -	CHANNEL END AND/OR DEVICE END 17000000
				5708+*			OR MOUNT CONDITION PENDING. MDC235 17050000
		00001		5709+UCBDDRSW	EQU	X'01' -	DDR SWITCH PENDING ON THIS 17100000
				5710+*			DEVICE MDC236 17150000
000015				5711+UCBEXTPT	DS	AL3 -	ADDRESS OF COMMON UCB EXTENSION 17200000
				5712+*			MDC237 17250000
				5713+*			17300000
		00000		5714+SRTEJBNR	EQU	UCBJBNR -	ALIAS 17350000
		00001		5715+SRTEMNT	EQU	UCBMONT -	ALIAS 17400000
		00003		5716+SRTESTAT	EQU	UCBSTAT -	ALIAS 17450000
		00080		5717+SRTEONLI	EQU	UCBONLI -	ALIAS 17500000
		00040		5718+SRTECHGS	EQU	UCBCHGS -	ALIAS 17550000
		00020		5719+SRTERESV	EQU	UCBRESV -	ALIAS 17600000
		00010		5720+SRTEUNLD	EQU	UCBUNLD -	ALIAS 17650000
		00008		5721+SRTEALOC	EQU	UCBALOC -	ALIAS 17700000
		00004		5722+SRTEPRES	EQU	UCBPRES -	ALIAS 17750000
		00002		5723+SRTESYSR	EQU	UCBSYSR -	ALIAS 17800000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
			00001	5724+	SRTEDADI EQU UCBDAI - ALIAS	17850000
			00006	5725+	UCBFL2 EQU UCBFL1 - ALIAS (UCBCHA WAS ONCE UCBFL1)	17900000
				5726+	*	17950000
				5727+	*****	18000000
				5728+	*	18050000
				5729+	DEVICE-DEPENDENT UCB SEGMENTS	18100000
				5730+	*	18150000
			00018	5731+	UCBDEV EQU *	18200000
				5732+	*	18250000
				5733+	*****	18300000
				5734+	*	18350000
				5735+	DIRECT ACCESS DEVICE SEGMENT	18400000
				5736+	*	18450000
000018			00018	5737+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	18500000
				5738+	*	18550000
				5739+	UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS	18600000
				5740+	IN DIRECT ACCESS SEGMENT	18650000
				5741+	*	18700000
				5742+	*****	18750000
				5743+	*	18800000
000018				5744+	UCBVTOC DS CL4 - RELATIVE ADDRESS OF VTOC FOR THIS	18850000
				5745+	VOLUME, IN FORM TTR0 MDC085	18900000
00001C				5746+	UCBVOLI DS CL6 - VOLUME SERIAL NUMBER	18950000
000022				5747+	UCBSTAB DS BL1 - VOLUME STATUS	19000000
			00080	5748+	UCBBSVL EQU X'80' - VOLUME DEMOUNTABLE BY DATA	19050000
				5749+	MANAGEMENT (DIRECT ACCESS)	19100000
				5750+	(OS/VS2) MDC008	19150000
			00080	5751+	UCBDVSHR EQU X'80' - DEVICE NOT SHARABLE AMONG SEVERAL	19200000
				5752+	CPU'S (3420 MAGNETIC TAPE DEVICES	19250000
				5753+	ONLY) (MDC245) XA03017	19300000
			00040	5754+	UCBPGFL EQU X'40' - UCB IS OPEN AND IS BEING USED AS A	19350000
				5755+	PAGE FILE	19400000
			00020	5756+	UCBPRSRS EQU X'20' - DURING VOLUME ATTRIBUTE PROCESSING	19450000
				5757+	THIS BIT IS USED BOTH TO DENOTE	19500000
				5758+	UCB'S THAT WERE MARKED PERMANENTLY	19550000
				5759+	RESIDENT PRIOR TO GETTING CONTROL	19600000
				5760+	AND TO IDENTIFY DEVICES THAT WERE	19650000
				5761+	SELECTED BY THE OPERATOR FOR	19700000
				5762+	MOUNTING VOLUMES (DIRECT ACCESS)	19750000
				5763+	MDC162	19800000
			00020	5764+	UCBBALB EQU X'20' - ADDITIONAL VOLUME LABEL PROCESSING	19850000
				5765+	(TAPE)	19900000
			00010	5766+	UCBBPRV EQU X'10' - PRIVATE - VOLUME USE STATUS	19950000
			00008	5767+	UCBBPUB EQU X'08' - PUBLIC - VOLUME USE STATUS	20000000
			00004	5768+	UCBBSTR EQU X'04' - STORAGE - VOLUME USE STATUS	20050000
				5769+	(DIRECT ACCESS)	20100000
				5770+	THE VOLUME MOUNTED HAS AN AMERICAN	20150000
				5771+	NATIONAL STANDARD LABEL (TAPE)	20200000
			00002	5772+	UCBSHAR EQU X'02' - VOLUME SHAREABLE AMONG JOB STEPS	20250000
				5773+	(OS/VS2) MDC020	20300000
			00001	5774+	UCBBNUL EQU X'01' - CONTROL VOLUME - A CATALOG DATA SET	20350000
				5775+	IS ON THIS VOLUME (DIRECT ACCESS)	20400000
				5776+	IF THE MULTIPLE CONSOLE SUPPORT	20450000
				5777+	OPTION IS IN THE SYSTEM, DEMOUNT OR	20500000
				5778+	MOUNT MESSAGES HAVE BEEN ISSUED AND	20550000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5779+*	THE MESSAGE ID'S ARE AT OFFSETS 40	20600000
				5780+*	THROUGH 45. OPEN WILL DELETE THE	20650000
				5781+*	MESSAGES AND TURN THIS BIT OFF.	20700000
				5782+*	(TAPE)	20750000
000023				5783+UCBDMCT DS XL1 -	VOLUME USE BYTE	20800000
		00080		5784+UCBMOUNT EQU X'80' -	IF 0, A MOUNT VERIFICATION HAS BEEN	20850000
				5785+*	PERFORMED. IF 1, A MOUNT REQUEST	20900000
				5786+*	HAS BEEN ISSUED. (DIRECT ACCESS)	20950000
				5787+*	FOR TAPE, THE FOLLOWING MEANINGS	21000000
				5788+*	APPLY.	21050000
				5789+*	NORMAL SCHEDULER PROCESSING - IF 0,	21100000
				5790+*	NO VOLUME HAS BEEN MOUNTED. IF 1,	21150000
				5791+*	A VOLUME HAS BEEN MOUNTED BUT NO	21200000
				5792+*	VOLUME LABEL PROCESSING HAS BEEN	21250000
				5793+*	PERFORMED.	21300000
				5794+*	SL OPEN ROUTINE - IF 0, STANDARD	21350000
				5795+*	VOLUME LABEL AND CORRECT SERIAL	21400000
				5796+*	NUMBER HAVE BEEN VERIFIED. IF 1,	21450000
				5797+*	VOLUME LABEL IS NOT STANDARD FORMAT	21500000
				5798+*	OR SERIAL NUMBER IS NOT CORRECT.	21550000
				5799+*	(A MOUNT MESSAGE HAS BEEN ISSUED.)	21600000
				5800+*	NSL OPEN ROUTINE - IF 0,	21650000
				5801+*	NON-STANDARD VOLUME LABEL HAS BEEN	21700000
				5802+*	VERIFIED. IF 1, VOLUME LABEL IS NOT	21750000
				5803+*	STANDARD FORMAT. (CONTROL PASSES TO	21800000
				5804+*	THE PROCESSING PROGRAM'S	21850000
				5805+*	NON-STANDARD LABEL PROCESSING	21900000
				5806+*	ROUTINE.) VOLUME LABEL IS STANDARD	21950000
				5807+*	FORMAT. (CONTROL REMAINS WITH THE	22000000
				5808+*	OPEN ROUTINE. A MOUNT MESSAGE HAS	22050000
				5809+*	BEEN ISSUED.)	22100000
				5810+*	BLP OPEN ROUTINE - IF 0, VOLUME	22150000
				5811+*	LABEL HAS NOT BEEN PROCESSED.	22200000
		0007F		5812+UCBDMC EQU X'7F' -	NUMBER OF DCB'S OPEN FOR THIS VOLUME	22250000
		00024		5813+UCBDATP EQU * -	END OF COMMON DIRECT ACCESS/TAPE	22300000
				5814+*	AREA	22350000
000024				5815+UCBSQC DS FL1 -	NUMBER OF RESERVE MACRO INSTRUCTIONS	22400000
				5816+*	ISSUED MDC086	22450000
000025				5817+UCBFL4 DS BL1 -	DIRECT ACCESS FLAG BYTE MDC087	22500000
		00080		5818+UCBDAVV EQU X'80' -	DIRECT ACCESS VOLUME VERIFICATION	22550000
				5819+*	IN CONTROL (DAVV) MDC127	22600000
		00040		5820+UCBWDAV EQU X'40' -	DAVV WAITING FOR MOUNT MDC128	22650000
		00020		5821+UCBRESVP EQU X'20' -	RESERVE CHANNEL PROGRAM PENDING	22700003
				5822+*	(MDC356) @ZA06072	22710003
		00010		5823+UCBDSS EQU X'10' -	READ HOME ADDRESS AND READ RECORD	22750000
				5824+*	ZERO OPERATIONS HAVE BEEN PERFORMED	22800000
				5825+*	BY DYNAMIC SUPPORT SYSTEM (DSS)	22850000
				5826+*	MDC088	22900000
		00008		5827+UCBATTN EQU X'08' -	3330V ATTENTION RECEIVED	22920016
				5828+*	(MDC357) @G24LP9A	22950016
		00004		5829+UCBHOLD EQU X'04' -	3330V CYLINDER FAULT PENDING	23000016
				5830+*	(MDC358) @G24LP9A	23010016
		00002		5831+UCBMAT EQU X'02' -	3330V ATTENTION OVERDUE	23050016
				5832+*	(MDC359) @G24LP9A	23060016
		00001		5833+UCBRRP EQU X'01' -	RESERVE/RELEASE PENDING	23100000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5834+*	(MDC373)	@G64DP9A 23110000
000026				5835+UCBUSER DS	FL1 - NUMBER OF CURRENT USERS	MDC089 23150000
000027				5836+UCBSATI DS	FL1 - ATTENTION TABLE INDEX	@ZA41195 23200003
				5837+*	SAVED BY THE SCHEDULER.	23216603
				5838+*	(MDC395) @ZA41195	23233203
000028				5839+UCBBASE DS	A - ADDRESS OF BASE EXPOSURE UCB	MDC130 23250000
00002C				5840+UCBNEXP DS	A - BASE - ADDRESS OF LAST STARTED	23300000
				5841+*	EXPOSURE	23350000
				5842+*	NON-BASE - ADDRESS OF NEXT	23400000
				5843+*	EXPOSURE IN THE RING	23450000
				5844+*	THIS ADDRESS POINTS TO THE	23500000
				5845+*	MULTIPROCESSING PREFIX	MDC131 23550000
				5846+*		23600000
				5847+*****		23650000
				5848+*		23700000
				5849+*	MAGNETIC TAPE SEGMENT	23750000
				5850+*		23800000
000030		00018		5851+*	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	23850000
				5852+*		23900000
				5853+*	UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS	23950000
				5854+*	IN DIRECT ACCESS SEGMENT	24000000
				5855+*		24050000
				5856+*****		24100000
				5857+*		24150000
000018				5858+UCBFSC T DS	H - DATA SET SEQUENCE COUNT	MDC090 24200000
00001A				5859+UCBFSEQ DS	H - DATA SET SEQUENCE NUMBER	MDC091 24250000
00001C				5860+*	CL8 - UCBVOLI, UCBSTAB AND UCBDMCT AS IN	24300000
				5861+*	DIRECT ACCESS SEGMENT	24350000
000024				5862+UCBFSE R DS	CL6 - BEFORE OPEN, MESSAGE ID'S. SEE	24400000
				5863+*	UCBSTAB BIT 7. AFTER OPEN, DATA	24450000
				5864+*	SET SERIAL NUMBER	MDC092 24500000
00002A				5865+UCBRES1B DS	XL1 - RESERVED	24550000
00002B				5866+UCBTFL1 DS	B - FLAG BYTE (TAPE DEVICES ONLY)	MDC015 24600000
		00080		5867+UCBNLT P EQU	X'80' - TAPE VOLUME DOES NOT CONTAIN	24650000
				5868+*	LABELS	MDC016 24700000
		00040		5869+UCBNSLT P EQU	X'40' - TAPE CONTAINS NON-STANDARD	24750000
				5870+*	LABELS	MDC017 24800000
		00020		5871+UCBDQDSP EQU	X'20' - DEQUEUE TAPE VOLUME WHEN DEMOUNTED	24850003
				5872+*	(MDC369) @ZA18180	24860003
		00010		5873+UCBRV005 EQU	X'10',,C'X' - RESERVED	24900000
		00008		5874+UCBRV006 EQU	X'08',,C'X' - RESERVED	24950000
		00004		5875+UCBRV007 EQU	X'04',,C'X' - RESERVED	25000000
		00002		5876+UCBRV008 EQU	X'02',,C'X' - RESERVED	25050000
		00001		5877+UCBRV009 EQU	X'01',,C'X' - RESERVED	25100000
00002C				5878+UCBXTN DS	0A - ADDRESS OF THE MAGNETIC TAPE UCB	25150000
				5879+*	EXTENSION	MDC093 25200000
00002C				5880+UCBVOPT DS	BL1 - VOLUME STATISTICS OPTION BITS	MDC094 25250000
		00080		5881+UCBESV EQU	X'80' - ERROR STATISTICS BY VOLUME (ESV)	25300000
				5882+*	RECORDS KEPT	MDC094 25350000
		00040		5883+UCBEVA EQU	X'40' - ERROR VOLUME ANALYSIS (EVA) RECORDS	25400000
				5884+*	KEPT	MDC094 25450000
		00020		5885+UCBESVC EQU	X'20' - IF 0, ESV RECORDS SENT TO SYS1.MAN	25500000
				5886+*	(X OR Y) DATA SET.	25550000
				5887+*	IF 1, ESV RECORDS SENT TO CONSOLE.	25600000
				5888+*		MDC094 25650000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
			00010	5889+UCBERPC	EQU	X'10' -	AN ERROR RECOVERY PROCEDURE HAS 25700000
				5890+*			CONTROL MDC094 25750000
			00008	5891+UCBESVE	EQU	X'08' -	AN ESV RECORD HAS BEEN ISSUED FOR 25800000
				5892+*			THIS VOLUME BECAUSE OF AN EOVS 25850000
				5893+*			CONDITION MDC094 25900000
			00004	5894+UCBRSV20	EQU	X'04',,C'X' -	RESERVED MDC094 25950000
			00002	5895+UCBRSV21	EQU	X'02',,C'X' -	RESERVED MDC094 26000000
			00001	5896+UCBRSV22	EQU	X'01',,C'X' -	RESERVED MDC094 26050000
00002D				5897+UCBXTNB	DS	AL3 -	ADDRESS OF THE MAGNETIC TAPE UCB 26100000
				5898+*			EXTENSION MDC095 26150000
				5899+*			26200000
			0001C	5900+SRTEVOLI	EQU	UCBVOLI -	ALIAS 26250000
			00022	5901+SRTESTAB	EQU	UCBSTAB -	ALIAS 26300000
			00080	5902+SRTEBSVL	EQU	UCBBSVL -	ALIAS 26350000
			00020	5903+SRTEBALB	EQU	UCBBALB -	ALIAS 26400000
			00010	5904+SRTEBPRV	EQU	UCBBPRV -	ALIAS 26450000
			00008	5905+SRTEBPUB	EQU	UCBBPUB -	ALIAS 26500000
			00004	5906+SRTEBSTR	EQU	UCBBSTR -	ALIAS 26550000
			00004	5907+SRTEASCI	EQU	UCBBSTR -	ALIAS 26600000
			00004	5908+UCBASCI	EQU	SRTEASCI -	ALIAS 26650000
			00004	5909+SRTEBVQS	EQU	SRTEBSTR -	ALIAS 26700000
			00001	5910+SRTEBNUL	EQU	UCBBNUL -	ALIAS 26750000
			00023	5911+SRTEDMCT	EQU	UCBDMCT -	ALIAS 26800000
			00018	5912+SRTEFSCT	EQU	UCBFSCT -	ALIAS 26850000
			0001A	5913+SRTEFSEQ	EQU	UCBFSEQ -	ALIAS 26900000
			00026	5914+SRTEUSER	EQU	UCBUSER -	ALIAS 26950000
				5915+*			27000000
				5916+*****			27050000
				5917+*			27100000
				5918+*		UNIT RECORD WITH	27150000
				5919+*		UNIVERSAL CHARACTER SET (1403, 3211)	27200000
				5920+*		OR OPTICAL CHARACTER READER (3886)	27250000
				5921+*		OR 3540 DEVICE	@Z300P9A 27270003
				5922+*		OR 3800 DEVICE	@Z40MP9A 27280004
				5923+*		UCB SEGMENT	27300000
				5924+*			27350000
000030			00018	5925+	ORG	UCBDEV -	DEVICE-DEPENDENT SEGMENT 27400000
				5926+*			27450000
				5927+*****			27500000
				5928+*			27550000
000018				5929+UCBXTADR	DS	A -	ADDRESS OF UCS UCB EXTENSION (1403 27600000
				5930+*			OR 3211) OR ADDRESS OF OPTICAL 27650000
				5931+*			CHARACTER READER UCB EXTENSION 27700000
				5932+*			(3886) OR ADDRESS OF 3540 DEVICE 27750003
				5933+*			UCB EXTENSION (3540) OR ADDRESS OF 27760004
				5934+*			3800 UCB EXTENSION (3800) (MDC304) 27763004
				5935+*			@Z40MP9A 27770004
				5936+*			27800000
				5937+*****			27850000
				5938+*			27900000
				5939+*		GRAPHICS EXCEPT 3270	27950000
				5940+*		UCB SEGMENT	28000000
				5941+*			28050000
00001C			00018	5942+	ORG	UCBDEV -	DEVICE-DEPENDENT SEGMENT 28100000
				5943+*			28150000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5944+*****		28200000
				5945+*		28250000
000018				5946+UCBSTART DS	H - LAST START ADDRESS (MDC247) YM4067	28300000
00001A				5947+UCBOPEN DS	FL1 - NUMBER OF DCB'S THAT ARE CURRENTLY	28350000
				5948+*	OPEN FOR THIS DEVICE	28400000
00001B				5949+UCBGCB DS	C - GRAPHIC CONTROL BYTE USED FOR	28450000
				5950+*	ATTENTION HANDLING	28500000
00001C				5951+UCBTEB DS	A - ADDRESS OF TASK ENTRY (TE) BLOCK	28550000
000020				5952+UCBSNS DS	XL4 - SENSE INFORMATION (MDC248) YM4067	28600000
000024				5953+UCBBTA DS	0A - ADDRESS OF BUFFER TABLE	28650000
000024				5954+UCBDI DS	FL1 - DEVICE OR DEVICES ON A CONTROL UNIT	28700000
				5955+*	TO WHICH BUFFER SECTIONS ARE	28750000
				5956+*	ASSIGNED	28800000
000025				5957+UCBBTB DS	AL3 - ADDRESS OF BUFFER TABLE	28850000
				5958+*		28900000
				5959+*****		28950000
				5960+*		29000000
				5961+*	3270 GRAPHICS	29050000
				5962+*	UCB SEGMENT	29100000
				5963+*		29150000
000028		00018		5964+ ORG	UCBDEV - DEVICE-DEPENDENT SEGMENT ICB480	29200000
				5965+*		29250000
				5966+*****		29300000
				5967+*		29350000
000018				5968+UCBAOF DS	0BL2 - ADDITIONAL OPTIONAL FEATURES. AN	29400000
				5969+*	EXTENSION OF THE OPTIONAL FEATURES	29450000
				5970+*	BYTE OF THE UCBTYP FIELD. ICB480	29500000
000018				5971+UCBAOF1 DS	B - FIRST BYTE OF UCBAOF ICB480	29550000
		00080		5972+UCBOFMCR EQU	X'80' - MAGNETIC CARD READER ADAPTER -	29600000
				5973+*	FOR 3277 ONLY ICB480	29650000
		00040		5974+UCBOFSP EQU	X'40' - SELECTOR PEN - FOR 3277 ONLY ICB480	29700000
		00020		5975+UCBOFNL EQU	X'20' - NUMERIC LOCK - FOR 3277 ONLY ICB480	29750000
		00010		5976+UCBOFPTR EQU	X'10' - PREPARE TO READ FEATURE	29800003
				5977+*	(MDC388) @ZA41164	29825003
		00008		5978+UCBRVS65 EQU	X'08' , , C'X' - RESERVED ICB480	29850000
		00004		5979+UCBRVS66 EQU	X'04' , , C'X' - RESERVED ICB480	29900000
		00002		5980+UCBRVS67 EQU	X'02' , , C'X' - RESERVED ICB480	29950000
		00001		5981+UCBRVS68 EQU	X'01' , , C'X' - RESERVED ICB480	30000000
000019				5982+UCBAOF2 DS	B - SECOND BYTE OF UCBAOF ICB480	30050000
		00080		5983+UCBRVS69 EQU	X'80' , , C'X' - RESERVED ICB480	30100000
		00040		5984+UCBRVS70 EQU	X'40' , , C'X' - RESERVED ICB480	30150000
		00020		5985+UCBRVS71 EQU	X'20' , , C'X' - RESERVED ICB480	30200000
		00010		5986+UCBRVS72 EQU	X'10' , , C'X' - RESERVED ICB480	30250000
		00008		5987+UCBRVS73 EQU	X'08' , , C'X' - RESERVED ICB480	30300000
		00004		5988+UCBRVS74 EQU	X'04' , , C'X' - RESERVED ICB480	30350000
		00002		5989+UCBRVS75 EQU	X'02' , , C'X' - RESERVED ICB480	30400000
		00001		5990+UCBRVS76 EQU	X'01' , , C'X' - RESERVED ICB480	30450000
00001A				5991+UCBATNCT DS	FL1 - ATTENTION COUNT. THE NUMBER OF	30500000
				5992+*	ATTENTIONS NOT SERVICED IN THE LINE	30550000
				5993+*	GROUP. PRESENT ONLY IF THE DEVICE	30600000
				5994+*	INDEX FIELD IS 1. OTHERWISE, THIS	30650000
				5995+*	FIELD IS RESERVED. ICB480	30700000
00001B				5996+ DS	B - UCBGCB - CONTROL BYTE. USED FOR	30750000
				5997+*	ATTENTION HANDLING FLAGS ICB480	30800000
		00080		5998+UCBOLTEP EQU	X'80' - OLTEP IN CONTROL OF THE DEVICE	30850000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				5999+*		ICB480 30900000
		00040	6000+UCBRSV77	EQU	X'40' , , C'X' -	RESERVED ICB480 30950000
		00020	6001+UCBRSV78	EQU	X'20' , , C'X' -	RESERVED ICB480 31000000
		00010	6002+UCBRSV79	EQU	X'10' , , C'X' -	RESERVED ICB480 31050000
		00008	6003+UCBRTIAC	EQU	X'08' -	READ TI ACTIVE MDC171 31100000
		00004	6004+UCBRIPND	EQU	X'04' -	READ INITIAL PENDING ICB480 31150000
		00002	6005+UCBSKPGF	EQU	X'02' -	SKIP FLAG ICB480 31200000
		00001	6006+UCBATRC	EQU	X'01' -	ATTENTION RECEIVED FROM THE
			6007+*		DEVICE	ICB480 31250000
00001C			6008+UCBIRB	DS	0A -	ADDRESS OF THE IRB USED FOR
			6009+*		SCHEDULING THE SECOND LEVEL	31350000
			6010+*		ATTENTION ROUTINE	31400000
00001C			6011+UCBGRF	DS	B -	ICB480 31450000
		00080	6012+UCBOIP	EQU	X'80' -	GRAPHICS STATUS FLAGS (BTAM) MDC172 31500000
		00040	6013+UCBDRO	EQU	X'40' -	OPEN IS IN PROGRESS MDC173 31550000
		00020	6014+UCBDRNO	EQU	X'20' -	DEVICE READY IN OPEN MDC174 31600000
		00010	6015+UCBBTAM	EQU	X'10' -	DEVICE READY - NOT IN OPEN MDC175 31650000
		00008	6016+UCBUPM	EQU	X'08' -	USE BTAM - IGG019UP MDC176 31700000
		00004	6017+UCBRPND	EQU	X'04' -	USE PROVIDED MODULE MDC177 31750000
		00002	6018+UCBDWNR	EQU	X'02' -	READY PROCESSING NOT DONE MDC178 31800000
		00001	6019+UCBRV039	EQU	X'01' -	DEVICE WENT NOT READY MDC179 31850000
00001D			6020+UCBIRBA	DS	AL3 -	RESERVED - BTAM MDC180 31900000
			6021+*		ADDRESS OF THE IRB USED FOR	31950000
			6022+*		SCHEDULING THE SECOND LEVEL	32000000
000020			6023+UCBLDNCA	DS	0A -	ATTENTION ROUTINE MDC181 32050000
			6024+*		ADDRESS OF 3270 WORK AREA	32100000
000020			6025+UCBRDYQ	DS	0A -	ESTABLISHED BY VTAM MDC132 32150000
			6026+*		ASYNCHRONOUS READY NOTIFICATION IRB	32200000
000020			6027+UCBINRLN	DS	0FL1 -	ADDRESS (BTAM) MDC182 32250000
000020			6028+UCBIRLN	DS	FL1 -	SAME AS UCBIRLN MDC183 32300000
			6029+*		INITIALIZED RLN. THE RELATIVE LINE	32350000
			6030+*		NUMBER (RLN) OF THE IOB INITIALIZED	32400000
			6031+*		FOR A READ INITIAL. IF 0, NO READ	32450000
			6032+*		INITIAL IS OUTSTANDING. PRESENT	32500000
			6033+*		ONLY IF THE DEVICE INDEX FIELD IS 1.	32550000
			6034+*		OTHERWISE, THIS FIELD IS RESERVED.	32600000
000021			6035+UCBLDNCA	DS	0AL3 -	ICB480 32650000
			6036+*		ADDRESS OF 3270 WORK AREA	32700000
000021			6037+UCBRDYQA	DS	AL3 -	ESTABLISHED BY VTAM MDC133 32750000
			6038+*		ASYNCHRONOUS READY NOTIFICATION IRB	32800000
000024			6039+UCBCTLNK	DS	0A -	ADDRESS (BTAM) MDC184 32850000
000024			6040+UCBRLN	DS	FL1 -	SAME AS UCBCTLNA BELOW ICB480 32900000
			6041+*		DEVICE INDEX. INDEX TO THE DEB UCB	32950000
			6042+*		ADDRESS FIELD FOR THIS DEVICE.	33000000
			6043+*		THIS VALUE IS ALSO THE RELATIVE	33050000
000025			6044+UCBCTLNA	DS	AL3 -	LINE NUMBER. ICB480 33100000
			6045+*		CONTROL BLOCK LINK. IF THE DEVICE	33150000
			6046+*		INDEX FIELD IS 1, THIS FIELD	33200000
			6047+*		CONTAINS THE ADDRESS OF THE DEB FOR	33250000
			6048+*		THE LINE GROUP. IF THE DEVICE INDEX	33300000
			6049+*		FIELD IS BETWEEN 2 AND 255	33350000
			6050+*		INCLUSIVE, THIS FIELD CONTAINS THE	33400000
			6051+*		ADDRESS OF THE UCB WITH A DEVICE	33450000
			6052+*		INDEX OF 1. ICB480	33500000
			6053+*****			33550000
			6053+*****			33600000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6054+*		33650000
				6055+*	3704, 3705 TELEPROCESSING DEVICE	33700000
				6056+*	UCB SEGMENT	33750000
				6057+*		33800000
000028		00018		6058+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	33850000
				6059+*		33900000
				6060+*	*****	33950000
				6061+*		34000000
000018				6062+UCBRV040 DS	A - RESERVED FOR USE AS TELEPROCESSING	34050000
				6063+*	EXTENSION POINTER MDC185	34100000
00001C				6064+UCBICNCB DS	A - POINTER TO VTAM'S ICNCB MDC186	34150000
				6065+*		34200000
				6066+*	*****	34250000
				6067+*		34300000
				6068+*	CHANNEL-TO-CHANNEL (CTC) DEVICE	34350000
				6069+*	UCB SEGMENT	34400000
				6070+*		34450000
000020		00018		6071+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	34500000
				6072+*		34550000
				6073+*	*****	34600000
				6074+*		34650000
000018				6075+UCBCTCAD DS	0A - ADDRESS OF AN SRB/IOSB TO BE USED	34700004
				6076+*	FOR SENSE COMMAND BYTE BY IECTCATN	34750000
				6077+*	IF UCBCTC80 BIT IS SET TO ZERO	34800004
				6078+*	(MDC343) @Z40JP9A	34807004
000018				6079+UCBCTCAL DS	A - ADDRESS OF JES3 ROUTINE FOR	34814004
				6080+*	SWITCHING TO ALTERNATE PATH CTC IF	34821004
				6081+*	UCBCTC80 BIT IS SET TO ONE	34828004
				6082+*	(MDC344) @Z40JP9A	34835004
00001C				6083+UCBCTCF1 DS	B - CHANNEL-TO-CHANNEL (CTC) DEVICE FLAG	34850000
				6084+*	BYTE MDC241	34900000
		00080		6085+UCBCTC80 EQU	X'80' - IF THIS BIT IS ON, ABOVE WORD HAS	34904004
				6086+*	UCBCTCAL MEANING. IF THIS BIT IS	34908004
				6087+*	OFF, ABOVE WORD HAS UCBCTCAD	34912004
				6088+*	MEANING. (MDC345) @Z40JP9A	34916004
	00040			6089+UCBRV076 EQU	X'40',,C'X' - RESERVED @Z40JP9A	34920004
	00020			6090+UCBRV077 EQU	X'20',,C'X' - RESERVED @Z40JP9A	34924004
	00010			6091+UCBRV078 EQU	X'10',,C'X' - RESERVED @Z40JP9A	34928004
	00008			6092+UCBRV079 EQU	X'08',,C'X' - RESERVED @Z40JP9A	34932004
	00004			6093+UCBRV080 EQU	X'04',,C'X' - RESERVED @Z40JP9A	34936004
	00002			6094+UCBRV081 EQU	X'02',,C'X' - RESERVED @Z40JP9A	34940004
	00001			6095+UCBRV082 EQU	X'01',,C'X' - RESERVED @Z40JP9A	34944004
00001D				6096+UCBRV042 DS	XL3 - RESERVED MDC242	34950000
				6097+*		34953003
				6098+*	*****	34956003
				6099+*		34959003
				6100+*	3851 OR 3838 DEVICE (MDC362) @G29AN9A	34960016
				6101+*	UCB SEGMENT	34965003
				6102+*		34968003
000020		00018		6103+	ORG UCBDEV - DEVICE-DEPENDENT SEGMENT	34971003
				6104+*		34974003
				6105+*	*****	34977003
				6106+*		34980003
000018				6107+UCB IOSBA DS	A - ADDRESS OF IOSB. SET BY IOS FOR	34983003
				6108+*	ERROR CONDITIONS. (MDC330) @Z30LP9A	34986003

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
00001C				6109+UCBRV066 DS 0A -	RESERVED (MDC331)	@ZA56736 34990603
00001C				6110+UCBAPUB DS A -	3838 VPSS APUB ADDRESS	@ZA56736 34995203
				6111+*		35000000
				6112+*****		35050000
				6113+*		35100000
				6114+* UNIT CONTROL BLOCK EXTENSIONS		35150000
				6115+*		35200000
				6116+*****		35250000
				6117+*		35300000
				6118+* COMMON UCB EXTENSION		35350000
				6119+*		35400000
				6120+* THIS EXTENSION IS POINTED TO BY THE UCBEXTPT FIELD IN THE		35450000
				6121+* COMMON SEGMENT AND IS NOT CONTIGUOUS TO THE UCB.		35500000
				6122+*		35550000
000000				6123+UCBCMEXT DSECT , -		MDC225 35600000
				6124+*		35650000
				6125+*****		35700000
				6126+*		35750000
000000				6127+UCBETI DS FL1 -	A BINARY NUMBER USED BY THE EXIT	35800000
				6128+*	EFFECTOR ROUTINE TO COMPLETE THE	35850000
				6129+*	8-BYTE NAME OF AN IBM-SUPPLIED	35900000
				6130+*	ERROR ROUTINE FOR THIS DEVICE MDC209	35950000
000001				6131+UCBSTI DS FL1 -	INCREMENT WHICH, WHEN MULTIPLIED BY	36000000
				6132+*	10, BECOMES AN INDEX TO THE	36050000
				6133+*	STATISTICS TABLE (STATAB) MDC210	36100000
000002				6134+UCBDTI DS FL1 -	INDEX TO THE DEVICE TABLE MDC211	36150000
000003				6135+UCBATI DS FL1 -	INDEX TO THE ATTENTION TABLE (ANTAB)	36200000
				6136+*	OR OPTIONAL JOB ENTRY SUBSYSTEM	36250000
				6137+*	(JES) FLAG BYTE MDC212	36300000
	00080			6138+UCBRV04 EQU X'80' , , C'X' -	RESERVED	36350000
	00040			6139+UCBRV05 EQU X'40' , , C'X' -	RESERVED	36400000
	00020			6140+UCBRV06 EQU X'20' , , C'X' -	RESERVED	36450000
	00010			6141+UCBRV07 EQU X'10' , , C'X' -	RESERVED	36500000
	00008			6142+UCBRV08 EQU X'08' , , C'X' -	RESERVED	36550000
	00004			6143+UCBRV09 EQU X'04' , , C'X' -	RESERVED	36600000
	00002			6144+UCBHALI EQU X'02' -	OPTIONAL JOB ENTRY SUBSYSTEM (JES)	36650000
				6145+*	ALLOCATION INDICATOR MDC213	36700000
	00001			6146+UCBHPDV EQU X'01' -	OPTIONAL JOB ENTRY SUBSYSTEM (JES)	36750000
				6147+*	PSEUDO-DEVICE MDC214	36800000
000004				6148+UCBSNSCT DS FL1 -	COUNT OF SENSE BYTES PRESENTED	36850000
				6149+*	BY THIS DEVICE MDC215	36900000
000005				6150+UCBFLP1 DS B -	FLAG BYTE MDC216	36950000
	00080			6151+UCBNSRCH EQU X'80' -	THE CURRENTLY ALLOCATED VOLUME WAS	37000000
				6152+*	SPECIFICALLY REQUESTED BY VOLUME	37050000
				6153+*	SERIAL NUMBER. IT IS NOT AVAILABLE	37100000
				6154+*	FOR ASSIGNMENT BY OPEN/EOV FOR A	37150000
				6155+*	NON-SPECIFIC VOLUME REQUEST. MDC217	37200000
	00040			6156+UCBSHRUP EQU X'40' -	SHAREABLE WHEN IN UNIPROCESSOR MODE	37250003
				6157+*	(MDC333) @ZA00805	37260003
	00020			6158+UCBNSWAP EQU X'20' -	IF THIS BIT IS ON AND UCBPRES BIT IS	37300003
				6159+*	ON, THIS FIXED HEAD DEVICE CANNOT BE	37310003
				6160+*	SWAPPED (MDC364) @ZA16810	37320003
	00010			6161+UCBINHIO EQU X'10' -	INHIBIT HIO FROM SVC 33	37350003
				6162+*	(MDC365) @ZA16811	37360003
	00008			6163+UCBSWAPF EQU X'08' -	WITH BIT SET, THE DEVICE IS ABLE TO	37400003

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6164+*	BE SWAPPED (MDC370)	@ZA31339 37410003
		00004		6165+UCBERLOG EQU X'04' -	INDICATES PRESENCE OF AN ERROR LOG	37420003
				6166+*	IN A DEVICE (MDC328)	@Z40MP9A 37430003
		00002		6167+UCBRV035 EQU X'02',,C'X' -	RESERVED	MDC163 37440003
		00001		6168+UCBRV036 EQU X'01',,C'X' -	RESERVED	MDC163 37490003
000006				6169+UCBRV041 DS CL2 -	RESERVED	MDC226 37600000
000008				6170+UCBCCWOF DS H -	OFFSET TO CCW PREFIX	MDC218 37650000
00000A				6171+UCBPMSK DS BL2 -	PATH MASK FOR MESSAGES ISSUED	MDC219 37700000
00000C				6172+UCBMFCNT DS H -	MEASUREMENT FACILITIES TOTAL DEVICE	37750000
				6173+*	SIO COUNT. DURING NIP UCB	37800000
				6174+*	INITIALIZATION, USED FOR PREVIOUSLY	37850000
				6175+*	TESTED INDICATOR.	MDC220 37900000
00000E				6176+UCBASID DS H -	ASID OF THE MEMORY TO WHICH THIS	37950000
				6177+*	DEVICE IS ALLOCATED EXCEPT FOR	38000004
				6178+*	UNALLOCATED TAPE. FOR UNALLOCATED	38008004
				6179+*	TAPE, ASID OF THE LAST MEMORY TO	38016004
				6180+*	WHICH THIS DEVICE WAS ALLOCATED.	38024004
000010				6181+*	(MDC348)	@ZA05164 38032004
				6182+UCBMIHTI DS B -	MISSING INTERRUPT HANDLER BYTE	38050041
				6183+*	(MDC354)	@ZA31340 38050441
		00080		6184+UCBMIHSF EQU X'80' -	MISSING INTERRUPT HANDLER UCB SCAN	38051441
				6185+*	FLAG (MDC376)	@ZA31340 38052141
		00040		6186+UCBMIHPB EQU X'40' -	WITH BIT SET, MISSING INTERRUPT	38052841
				6187+*	HANDLER CHECKING OF DEVICE IS	38053541
				6188+*	PERMANENTLY BYPASSED	38054241
				6189+*	(MDC375)	@ZA31340 38054941
		00020		6190+UCBMIHT1 EQU X'20' -	WITH BIT SET, MISSING INTERRUPT	38055641
				6191+*	HANDLER CHECKING OF DEVICE IS	38056341
				6192+*	TEMPORARILY BYPASSED	38057041
				6193+*	(MDC374)	@ZA31340 38057741
		00010		6194+UCBMIHT2 EQU X'10' -	WITH BIT SET, MISSING INTERRUPT	38058441
				6195+*	HANDLER CHECKING OF DEVICE IS	38059141
				6196+*	TEMPORARILY BYPASSED	38059841
				6197+*	(MDC378)	@ZA31340 38060541
		00008		6198+UCBRV084 EQU X'08' -	RESERVED (MDC377)	@G64DP9A 38061200
		00004		6199+UCBRV085 EQU X'04' -	RESERVED (MDC377)	@G64DP9A 38071200
		00002		6200+UCBRV086 EQU X'02' -	RESERVED (MDC377)	@G64DP9A 38081200
		00001		6201+UCBRV087 EQU X'01' -	RESERVED (MDC377)	@G64DP9A 38091200
000011				6202+UCBWTOID DS CL3 -	WTO MESSAGE IDENTIFIER (MDC250)	38101200
				6203+*	YM6828	38111200
000014				6204+UCBDDT DS A -	ADDRESS OF DEVICE-DEPENDENT TABLE	38121200
				6205+*	ASSOCIATED WITH UCB	38131200
				6206+*	(MDC371)	@G64DP9A 38141200
				6207+*		38200000
				6208+*****		38250000
				6209+*		38300000
				6210+*	MAGNETIC TAPE	38350000
				6211+*	UCB EXTENSION	38400000
				6212+*		38450000
				6213+*	THIS EXTENSION IS POINTED TO BY THE UCBXTN FIELD OF THE	38500000
				6214+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	38550000
				6215+*		38600000
000000				6216+UCBMT DSECT , -	UCBXTN -> UCBMT	38650000
				6217+*		38700000
				6218+*****		38750000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6219+*		38800000
000000				6220+UCBCTD DS H -	SERIAL NUMBER IN BINARY OF TAPE	38850000
				6221+*	DRIVE UPON WHICH THE VOLUME WAS	38900000
				6222+*	CREATED MDC097	38950000
000002				6223+UCBTRT DS FL1 -	TEMPORARY READ ERROR THRESHOLD (IF	39000000
				6224+*	0, EVA IS NOT IN EFFECT). A BINARY	39050000
				6225+*	NUMBER FROM 1 THROUGH 255 AS	39100000
				6226+*	SELECTED AT SYSGEN TIME ON THE	39150000
				6227+*	SCHEDULR MACRO BY EVA=(N1,N2) WHERE	39200000
				6228+*	N1 = TEMPORARY READ ERROR THRESHOLD.	39250000
				6229+*	MDC097	39300000
000003				6230+UCBTWT DS FL1 -	TEMPORARY WRITE ERROR THRESHOLD (IF	39350000
				6231+*	0, EVA IS NOT IN EFFECT). A BINARY	39400000
				6232+*	NUMBER FROM 1 THROUGH 255 AS	39450000
				6233+*	SELECTED AT SYSGEN TIME ON THE	39500000
				6234+*	SCHEDULR MACRO BY EVA=(N1,N2) WHERE	39550000
				6235+*	N2 = TEMPORARY WRITE ERROR	39600000
				6236+*	THRESHOLD. MDC097	39650000
000004				6237+UCBTR DS FL1 -	THE NUMBER (BINARY) OF TEMPORARY	39700000
				6238+*	READ ERRORS THAT HAVE OCCURRED	39750000
				6239+*	MDC097	39800000
000005				6240+UCBTW DS FL1 -	THE NUMBER (BINARY) OF TEMPORARY	39850000
				6241+*	WRITE ERRORS THAT HAVE OCCURRED	39900000
				6242+*	MDC097	39950000
000006				6243+UCBSIO DS H -	THE NUMBER (BINARY) OF START I/O	40000000
				6244+*	OPERATIONS THAT HAVE OCCURRED MDC097	40050000
000008				6245+UCBPR DS FL1 -	THE NUMBER (BINARY) OF PERMANENT	40100000
				6246+*	READ ERRORS THAT HAVE OCCURRED	40150000
				6247+*	MDC097	40200000
000009				6248+UCBPW DS FL1 -	THE NUMBER (BINARY) OF PERMANENT	40250000
				6249+*	WRITE ERRORS THAT HAVE OCCURRED	40300000
				6250+*	MDC097	40350000
00000A				6251+UCBNB DS FL1 -	THE NUMBER (BINARY) OF NOISE BLOCKS	40400000
				6252+*	THAT HAVE BEEN ENCOUNTERED MDC097	40450000
00000B				6253+UCBMS DS CL1 -	MODE SET OPERATION CODE FOR DATA	40500000
				6254+*	BLOCKS ON A 3420 MAGNETIC TAPE UNIT	40550000
				6255+*	MDC097	40600000
00000C				6256+UCBERG DS H -	THE NUMBER (BINARY) OF ERASE GAPS	40650000
				6257+*	THAT HAVE BEEN ENCOUNTERED MDC097	40700000
00000E				6258+UCBCLN DS H -	THE NUMBER (BINARY) OF CLEANER	40750000
				6259+*	ACTIONS THAT HAVE OCCURRED MDC097	40800000
				6260+*		40850000
				6261+*****		40900000
				6262+*		40950000
				6263+*	OPTICAL CHARACTER READER (3886)	41000000
				6264+*	UCB EXTENSION	41050000
				6265+*		41100000
				6266+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41150000
				6267+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	41200000
				6268+*		41250000
000000				6269+UCBOCR DSECT , -	UCBXTADR -> UCBOCR MDC024	41300000
				6270+*		41350000
				6271+*****		41400000
				6272+*		41450000
000000				6273+UCBFRID DS CL4 -	CURRENT FORMAT RECORD ID (FRID)	41500000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
000004				6274+*	LOADED	MDC025 41550000
				6275+UCBRDATA DS XL4 -	COMMAND DATA	MDC026 41600000
				6276+*		41601003
				6277+*****		41602003
				6278+*		41603003
				6279+*	3540 DEVICE	@Z300P9A 41604003
				6280+*	UCB EXTENSION	@Z300P9A 41605003
				6281+*		41606003
				6282+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41607003
				6283+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	@Z300P9A 41608003
				6284+*		41609003
000000				6285+UCB3540X DSECT , -	UCBXTADR -> UCB3540X	41610003
				6286+*	(MDC325)	@Z300P9A 41611003
				6287+*		41612003
				6288+*****		41613003
				6289+*		41614003
000000				6290+UCBVLSE DS CL6 -	3540 VOLID (MDC326)	@Z300P9A 41615003
000006				6291+UCBDKBYT DS B -	FLAG BYTE (MDC334)	@Z300P9A 41616003
		00080		6292+UCBDKAMX EQU X'80' -	IBM-SUPPLIED DISKETTE READER,	41617003
				6293+*	DISKETTE WRITER OR COPY/RESTORE	41618003
				6294+*	UTILITIES ARE USING THIS 3540	41619003
				6295+*	DEVICE (MDC335)	@Z300P9A 41620003
		00040		6296+UCBVLVER EQU X'40' -	VOLUME VERIFICATION IS REQUIRED FOR	41621003
				6297+*	CERTAIN INTERVENTION REQUIRED	41622003
				6298+*	CONDITIONS WHILE 3540 DISKETTE	41623003
				6299+*	UTILITIES ARE USING THE DEVICE	41624003
				6300+*	(MDC336)	@Z300P9A 41625003
		00020		6301+UCBRV067 EQU X'20',,C'X' -	RESERVED	@Z300P9A 41626003
		00010		6302+UCBRV068 EQU X'10',,C'X' -	RESERVED	@Z300P9A 41627003
		00008		6303+UCBRV069 EQU X'08',,C'X' -	RESERVED	@Z300P9A 41628003
		00004		6304+UCBRV070 EQU X'04',,C'X' -	RESERVED	@Z300P9A 41629003
		00002		6305+UCBRV071 EQU X'02',,C'X' -	RESERVED	@Z300P9A 41630003
		00001		6306+UCBRV072 EQU X'01',,C'X' -	RESERVED	@Z300P9A 41631003
000007				6307+UCBRV073 DS C -	RESERVED	@Z300P9A 41632003
				6308+*		41650000
				6309+*****		41650804
				6310+*		41651604
				6311+*	3800 DEVICE	@Z40MP9A 41652404
				6312+*	UCB EXTENSION	@Z40MP9A 41653204
				6313+*		41654004
				6314+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	41654804
				6315+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	@Z40MP9A 41655604
				6316+*		41656404
000000				6317+UCB3800X DSECT , -	UCBXTADR -> UCB3800X (MDC305)	41657204
				6318+*		@Z40MP9A 41658004
				6319+*		41658804
				6320+*****		41659604
				6321+*		41660404
000000				6322+UCBOPTNS DS B -	OPTIONAL FEATURES INSTALLED ON	41661204
				6323+*	PRINTER (MDC306)	@Z40MP9A 41662004
		00080		6324+UCBRV051 EQU X'80',,C'X' -	RESERVED	@Z40MP9A 41662804
		00040		6325+UCBRV052 EQU X'40',,C'X' -	RESERVED	@Z40MP9A 41663604
		00020		6326+UCBRV053 EQU X'20',,C'X' -	RESERVED	@Z40MP9A 41664404
		00010		6327+UCBRV054 EQU X'10',,C'X' -	RESERVED	@Z40MP9A 41665204
		00008		6328+UCBRV055 EQU X'08',,C'X' -	RESERVED	@Z40MP9A 41666004

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000001			00004	6329+UCBRV056	EQU	X'04' , , C'X' -	RESERVED @Z40MP9A 41666804
			00002	6330+UCBBRSTR	EQU	X'02' -	RESERVED (MDC307) @Z40MP9A 41667604
			00001	6331+UCBRV083	EQU	X'01' , , C'X' -	RESERVED (MDC308) @Z40MP9A 41668404
				6332+UCBCGMNO	DS	FL1 -	NUMBER OF WRITEABLE CHARACTER 41669204
000002				6333+*			GENERATION MODULES (MDC309) @Z40MP9A 41670004
				6334+UCBGRAFS	DS	B -	GRAPHIC CHARACTER FLAG BYTE 41670803
				6335+*			(MDC387) @ZA42324 41670903
		00080		6336+UCBRV046	EQU	X'80' , , C'X' -	RESERVED (MDC387) @ZA42324 41671003
		00040		6337+UCBRV047	EQU	X'40' , , C'X' -	RESERVED (MDC387) @ZA42324 41671103
		00020		6338+UCBRV048	EQU	X'20' , , C'X' -	RESERVED (MDC387) @ZA42324 41671203
		00010		6339+UCBRV049	EQU	X'10' , , C'X' -	RESERVED (MDC387) @ZA42324 41671303
		00008		6340+UCBGRAF0	EQU	X'08' -	WCGM 0 HAS BEEN MODIFIED BY A 41671403
				6341+*			GRAPHIC CHARACTER MODIFICATION 41671503
				6342+*			(MDC387) @ZA42324 41671603
		00004		6343+UCBGRAF1	EQU	X'04' -	WCGM 1 HAS BEEN MODIFIED BY A 41671703
				6344+*			GRAPHIC CHARACTER MODIFICATION 41671803
				6345+*			(MDC387) @ZA42324 41671903
		00002		6346+UCBGRAF2	EQU	X'02' -	WCGM 2 HAS BEEN MODIFIED BY A 41672003
				6347+*			GRAPHIC CHARACTER MODIFICATION 41672103
				6348+*			(MDC387) @ZA42324 41672203
		00001		6349+UCBGRAF3	EQU	X'01' -	WCGM 3 HAS BEEN MODIFIED BY A 41672303
				6350+*			GRAPHIC CHARACTER MODIFICATION 41672403
000003				6351+*			(MDC387) @ZA42324 41672503
				6352+UCBACTIV	DS	B -	ACTIVE FEATURES (MDC311) @Z40MP9A 41672603
		00080		6353+UCBRV057	EQU	X'80' , , C'X' -	RESERVED @Z40MP9A 41672703
		00040		6354+UCBRV058	EQU	X'40' , , C'X' -	RESERVED @Z40MP9A 41673204
		00020		6355+UCBRV059	EQU	X'20' , , C'X' -	RESERVED @Z40MP9A 41674004
		00010		6356+UCBRV060	EQU	X'10' , , C'X' -	RESERVED @Z40MP9A 41674804
		00008		6357+UCBRV061	EQU	X'08' , , C'X' -	RESERVED @Z40MP9A 41675604
		00004		6358+UCBRV062	EQU	X'04' , , C'X' -	RESERVED @Z40MP9A 41676404
		00002		6359+UCBRV063	EQU	X'02' , , C'X' -	RESERVED @Z40MP9A 41677204
000004		00001		6360+UCBBRSTA	EQU	X'01' -	RESERVED (MDC312) @Z40MP9A 41678004
				6361+UCBCGMID	DS	CL4 -	FOUR ONE-BYTE ID'S FOR CHARACTER 41678804
				6362+*			MODULES LOADED IN WRITEABLE 41679604
				6363+*			CHARACTER GENERATION MODULES 41680404
000008				6364+*			(WCGM'S) (MDC313) @Z40MP9A 41681204
				6365+UCBCHAR1	DS	CL4 -	NAME OF FIRST TRANSLATE TABLE 41682004
00000C				6366+*			(MDC314) @Z40MP9A 41682804
				6367+UCBCHAR2	DS	CL4 -	NAME OF SECOND TRANSLATE TABLE 41683604
000010				6368+*			(MDC315) @Z40MP9A 41684404
				6369+UCBCHAR3	DS	CL4 -	NAME OF THIRD TRANSLATE TABLE 41685204
000014				6370+*			(MDC316) @Z40MP9A 41686004
				6371+UCBCHAR4	DS	CL4 -	NAME OF FOURTH TRANSLATE TABLE 41686804
000018				6372+*			(MDC317) @Z40MP9A 41687604
				6373+UCBFCBNM	DS	CL4 -	FORMS CONTROL BUFFER (FCB) IMAGE 41688404
00001C				6374+*			NAME (MDC318) @Z40MP9A 41689204
				6375+UCBIMAGE	DS	CL4 -	FORMS OVERLAY IMAGE IDENTIFICATION 41690004
000020				6376+*			(MDC319) @Z40MP9A 41690804
				6377+UCBLDATA	DS	H -	LOST DATA PAGE COUNT 41691603
000022				6378+*			(MDC387) @ZA42324 41691703
				6379+UCBPGID	DS	H -	ID OF THE LAST FUSED PAGE FOR 41691803
				6380+*			SYSTEM RESTART OR PAGE AT THE 41691903
				6381+*			TRANSFER STATION FOR CANCEL KEY 41692003
000024				6382+*			(MDC387) @ZA42324 41692103
				6383+UCBMDRBF	DS	0A -	MISCELLANEOUS DATA RECORDING (MDR) 41692404

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6384+*	BUFFER ADDRESS (MDC339)	@Z40MP9A 41693204
000024				6385+UCBRV075 DS	FL1 -	RESERVED (MDC340) @Z40MP9A 41694004
000025				6386+UCBMDRBA DS	AL3 -	MDR BUFFER ADDRESS (MDC341) @Z40MP9A 41694804
				6387+*		41695604
				6388+*****		41700000
				6389+*		41750000
				6390+*	UNIT RECORD WITH	41800000
				6391+*	UNIVERSAL CHARACTER SET (1403, 3211)	41850000
				6392+*	UCB EXTENSION	41900000
				6393+*		41950000
				6394+*	THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE	42000000
				6395+*	UCB AND IS NOT CONTIGUOUS TO THE UCB.	42050000
				6396+*		42100000
000000				6397+UCBUCS DSECT , -	UCBXTADR -> UCBUCS	42150000
				6398+*		42200000
				6399+*****		42250000
				6400+*		42300000
000000				6401+UCBUCSID DS	CL4 -	UCS IMAGE IDENTIFICATION IN BUFFER 42350000
000004				6402+UCBUCSOP DS	B -	FORMAT OF UCS IMAGE IN BUFFER 42400000
				6403+*	(0 FOR OPTION)	42450000
		00080		6404+UCBUCS01 EQU	X'80' -	UCS IMAGE IS A DEFAULT IMAGE 42500000
		00040		6405+UCBUCS02 EQU	X'40' -	UCS IMAGE IS IN FOLD MODE 42550000
		00020		6406+UCBRSV39 EQU	X'20' , , C'X' -	RESERVED 42600000
		00010		6407+UCBRSV40 EQU	X'10' , , C'X' -	RESERVED 42650000
		00008		6408+UCBRSV41 EQU	X'08' , , C'X' -	RESERVED 42700000
		00004		6409+UCBRSV42 EQU	X'04' , , C'X' -	RESERVED 42750000
		00002		6410+UCBRSV43 EQU	X'02' , , C'X' -	RESERVED 42800000
		00001		6411+UCBUCSPE EQU	X'01' -	UCS IMAGE HAS PARITY ERROR (3211) 42850000
000005				6412+UCBFCBOP DS	B -	RESERVED (1403) OR FCB OPTIONS 42900000
				6413+*	(3211) (0 FOR OPTION)	42950000
		00080		6414+UCBFCB01 EQU	X'80' -	FCB IMAGE IS A DEFAULT IMAGE 43000000
		00040		6415+UCBRSV44 EQU	X'40' , , C'X' -	RESERVED 43050000
		00020		6416+UCBRSV45 EQU	X'20' , , C'X' -	RESERVED 43100000
		00010		6417+UCBRSV46 EQU	X'10' , , C'X' -	RESERVED 43150000
		00008		6418+UCBRSV47 EQU	X'08' , , C'X' -	RESERVED 43200000
		00004		6419+UCBRSV48 EQU	X'04' , , C'X' -	RESERVED 43250000
		00002		6420+UCBRSV49 EQU	X'02' , , C'X' -	RESERVED 43300000
		00001		6421+UCBFCBPE EQU	X'01' -	FCB IMAGE HAS PARITY ERROR 43350003
				6422+*	(MDC372)	@ZA26074 43360003
000006				6423+UCBRSV51 DS	X -	RESERVED 43400000
000007				6424+UCBERCNT DS	FL1 -	CONTAINS A COUNT OF THE ERRORS THAT 43450000
				6425+*	HAVE OCCURRED. THE COUNT, WHICH MAY	43500000
				6426+*	WRAP AROUND, IS WRITTEN IN STANDARD	43550000
				6427+*	OBR RECORDS (ONE PER ERROR) AND IN	43600000
				6428+*	NEW DEVICE-DEPENDENT OBR RECORDS (0	43650000
				6429+*	TO 3 PER ERROR) AND SERVE TO RELATE	43700000
				6430+*	TO EACH OTHER THE STANDARD AND	43750000
				6431+*	DEVICE-DEPENDENT OBR RECORDS THAT	43800000
				6432+*	PERTAIN TO EACH ERROR (3211)	43850000
000008				6433+UCBFCBID DS	CL4 -	THE FCB IMAGE IDENTIFICATION 43900000
00000C				6434+UCBERADR DS	A -	THE ADDRESS OF THE ERP LOGOUT AREA 43950000
				6435+	POP PRINT	44000000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6437	IKJCPPL	Command Processor Parm List
				6438+	*****	12000020
				6439+*	THE COMMAND PROCESSOR PARAMETER LIST (CPPL) IS A LIST OF	* 15000020
				6440+*	ADDRESSES PASSED FROM THE TMP TO THE CP VIA REGISTER 1	* 18000020
				6441+	*****	21000020
000000				6442+CPPL	DSECT	24000020
000000				6443+CPPLCBUF	DS A PTR TO COMMAND BUFFER	27000020
000004				6444+CPPLUPT	DS A PTR TO UPT	33000020
000008				6445+CPPLPSCB	DS A PTR TO PSCB	36000020
00000C				6446+CPPLECT	DS A PTR TO ECT	39000020
				6447+**/		42000020
		00010		6448 CPPLLEN	EQU *-CPPL Length of CPPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6450	IKJPPL	Parse Parm List
000000				6451+PPL	DSECT	08000000
				6452+*****		10000000
				6453+*	THE PARSE PARAMETER LIST (PPL) IS A LIST OF ADDRESSES PASSED	* 12000000
				6454+*	FROM THE INVOKER TO PARSE VIA REGISTER 1	* 14000000
				6455+*****		16000000
000000				6457+PPLUPT	DS A PTR TO UPT	20000000
000004				6458+PPLECT	DS A PTR TO ECT	22000000
000008				6459+PPLECB	DS A PTR TO CP'S ECB	24000000
00000C				6460+PPLPCL	DS A PTR TO PCL	26000000
000010				6461+PPLANS	DS A PTR TO ANS PLACE	28000000
000014				6462+PPLCBUF	DS A PTR TO CMD BUFFER	30000000
000018				6463+PPLUWA	DS A PTR TO USER WORK AREA (FOR VALIDITY CK RTNS)	32000000
				6464+**/		34000000
		0001C		6465 PPLLEN	EQU *-PPL Length of PPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6467	IKJIOPL	I/O Service Routine Parm List
000000				6468+IOPL	DSECT	08000056
				6469+	*****	10000056
				6470+*	THE I/O SERVICE ROUTINE PARAMETER LIST (IOPL) IS A LIST OF	* 12000056
				6471+*	FULLWORD ADDRESSES PASSED BY THE INVOKER OF ANY I/O SERVICE	* 14000056
				6472+*	ROUTINE TO THE APPROPRIATE SERVICE ROUTINE VIA REGISTER ONE.	* 16000056
				6473+	*****	18000056
000000				6475+IOPLUPT	DS A PTR TO UPT	22000056
000004				6476+IOPECT	DS A PTR TO ECT	24000056
000008				6477+IOPLECB	DS A PTR TO USER'S ECB	26000056
00000C				6478+IOPLIOPB	DS A PTR TO THE I/O SERVICE RTN PARM BLOCK	28000000
				6479+**/		30000056
		00010		6480 IOPLLEN	EQU *-IOPL Length of IOPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6482	IKJDAPL	Dynamic Allocation Parm List
				6483+	*****	08000000
				6484+*	THE DYNAMIC ALLOCATION INTERFACE ROUTINE (DAIR) PARAMETER LIST	* 10000000
				6485+*	(DAPL) IS A LIST OF ADDRESSES PASSED FROM THE INVOKER TO DAIR	* 12000000
				6486+*	VIA REGISTER 1	14000000
				6487+	*****	16000000
000000				6488+	DAPL DSECT	18000000
000000				6490+	DAPLUPT DS A PTR TO UPT	22000000
000004				6491+	DAPLECT DS A PTR TO ECT	24000000
000008				6492+	DAPLECB DS A PTR TO CP'S ECB	26000000
00000C				6493+	DAPLPSCB DS A PTR TO PSCB	28000000
000010				6494+	DAPLDAPB DS A PTR TO DAIR PARAMETER BLOCK	30000000
				6495+	**/	32000000
		00014		6496	DAPLLEN EQU *-DAPL Length of DAPL	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6498	IKJDAP08	Operation block ALLOC Dataset
000000				6499+DAPB08	DSECT	02800000
				6500+*****		03500000
				6501+*	THIS OPERATION CODE CAUSES ALLOCATION OF A DATA SET. IT CAN ALLOC.	* 04200000
				6502+*	EITHER A NEW OR OLD SET.	* 04900000
				6503+*****		05600000
000000				6504+DA08CD	DS CL2 DAIR ENTRY CODE	06300000
000002				6505+DA08FLG	DS X FUNCTIONS TO BE PERFORMED WHEN RET CODE IS 0	07000000
		00080		6506+DA08FPE	EQU X'80' FUNCT PERFORMED BUT ERROR INDICATED BY RETCD	07700000
000003				6507+	DS X	08400000
000004				6508+DA08DARC	DS H DYN ALLOC RETURN CODE	09100000
000006				6509+DA08CTRC	DS H CATALOG RETURN CODE	09800000
000008				6510+DA08PDSN	DS A POINTER TO DSNAME TO BE SEARCHED IN DSE	10500000
00000C				6511+DA08DDN	DS CL8 DDNAME TO BE SEARCHED IN DSE	11200000
000014				6512+DA08UNIT	DS CL8 UNITNAME REQUESTED	11900000
00001C				6513+DA08SER	DS CL8 VOLUME SERIAL NUMBER-PADDED W/BLANKS	12600000
000024				6514+DA08BLK	DS CL4 DATA SET AVERAGE RECORD LENGTH	13300000
000028				6515+DA08PQTY	DS CL4 PRIMARY SPACE QUANTITY	14000000
00002C				6516+DA08SQTY	DS CL4 SECONDARY SPACE QUANTITY	14700000
000030				6517+DA08DQTY	DS CL4 DIRECTORY BLOCK QUANTITY	15400000
000034				6518+DA08MNM	DS CL8 MEMBER NAME	16100000
00003C				6519+DA08PSWD	DS CL8 PASSWORD	16800000
000044				6520+DA08DSP1	DS X DATA SET STATUS FLGS(IF=0 OLD ASSUMED)	17500000
		00008		6521+DA08SHR	EQU X'08' DATA SET IS SHR	18200000
		00004		6522+DA08NEW	EQU X'04' DATA SET IS NEW	18900000
		00002		6523+DA08MOD	EQU X'02' DATA SET IS MOD	19600000
		00001		6524+DA08OLD	EQU X'01' DATA SET IS OLD	20300000
000045				6525+DA08DPS2	DS X DATA SET DISPOSITION(IF=0 KEEP ASSUMED)	21000000
		00008		6526+DA08KEEP	EQU X'08' DS DISP IS KEEP	21700000
		00004		6527+DA08DEL	EQU X'04' DS DISP IS DELETE	22400000
		00002		6528+DA08CAT	EQU X'02' DS DISP IS CATLG	23100000
		00001		6529+DA08UCAT	EQU X'01' DS DISP IS UNCATALOG	23800000
000046				6530+DA08DPS3	DS X DATA SET CONDITIONAL DISPOSITION	24500000
		00008		6531+DA08KEP	EQU X'08'	25200000
		00004		6532+DA08DELE	EQU X'04'	25900000
		00002		6533+DA08CATL	EQU X'02' DS DISP OF CATLG DESIRED	26600000
		00001		6534+DA08UNCT	EQU X'01' DS DISP OF UNCATLG DESIRED	27300000
000047				6535+DA08CTL	DS X FLAGS TO CONTROL ACTIONS TAKEN BY DAIR	28000000
		00080		6536+DA08TRKS	EQU X'80' UNITS ARE TRKS	28700000
		00040		6537+DA08ABKL	EQU X'40'	29400000
		000C0		6538+DA08CYLS	EQU X'C0' UNITS ARE CYLS	30100000
		00020		6539+DA08UID	EQU X'20' USER ID IS TO BE PREFIXED	30800000
		00010		6540+DA08RLSE	EQU X'10' RELEASE (RLSE) REQUESTED	31500000
		00008		6541+DA08PERM	EQU X'08' DATA SET MUST BE SPECIFICALLY UNALLOCATED	32200000
		00004		6542+DA08DMMY	EQU X'04'	32900000
		00002		6543+DA08ATRL	EQU X'02' ATTRIBUTE LIST SUPPLIED	C99236 32950001
000048				6544+	DS CL3 RESERVED	33600000
00004B				6545+DA08DSO	DS CL1 DSORG	34300000
00004C				6546+DA08ALN	DS CL8 ATTR-LIST-NAME	C99236 34350001
				6547+*	*/	35000000
		00054		6548 DAP08LEN	EQU *-DAPB08 Length of DAP08 LEN=54	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6550	IKJDAP18	Operation block FREE Dataset
000000				6551+DAPB18	DSECT	04000001
				6552+*****		05000001
				6553+*	THIS OPERATION CAUSES THE REQUESTED DATA SET OR DDNAME TO BE	* 06000001
				6554+*	UNALLOCATED. DISPOSITION CAN BE SPECIFIED TO OVERRIDE ANY PREVIOUS	* 07000001
				6555+*	DISPOSITION. LIKewise SYSOUT CLASS MAY BE SPECIFIED TO OVERRIDE ANY	* 08000002
				6556+*	PREVIOUS CLASS.	* 09000001
				6557+*****		10000001
000000				6558+DA18CD	DS CL2 DAIR ENTRY CODE	11000001
000002				6559+DA18FLG	DS X FUNCTIONS TO BE PERFORMED WHEN RET CODE IS 0	12000001
		00080		6560+DA18FPE	EQU X'80' FUNCT PERFORMED BUT ERROR INDICATED BY RETCD	13000001
000003				6561+	DS X	14000001
000004				6562+DA18DARC	DS H DYNAMIC ALLOCATION RETURN CODE	15000002
000006				6563+DA18CTRC	DS H CATALOG RETURN CODE AREA	16000002
000008				6564+DA18PDSN	DS A POINTER TO DSNAME TO BE SEARCHED IN DSE	17000001
00000C				6565+DA18DDN	DS CL8 DDNAME TO BE SEARCHED IN DSE	18000001
000014				6566+DA18MNM	DS CL8 MEMBER NAME	19000001
00001C				6567+DA18SCLS	DS CL2 SYSOUT CLASS DESIRED WHEN UNALLOCATING A	20000001
				6568+*	SYSOUT DATA SET	21000001
00001E				6569+DA18DPS2	DS X DATA SET DISPOSITION	22000001
		00008		6570+DA18KEEP	EQU X'08' CHANGE DISP TO KEEP	23000001
		00004		6571+DA18DEL	EQU X'04' CHANGE DISP TO DELETE	24000001
		00002		6572+DA18CAT	EQU X'02' CHANGE DISP TO CATALOG	25000001
		00001		6573+DA18UCAT	EQU X'01' CHANGE DISP TO UNCATLOG	26000001
00001F				6574+DA18CTL	DS X FLAGS FOR SPECIAL DAIR PROCESSING	27000001
		00020		6575+DA18UID	EQU X'20' USER ID IS TO BE PREFIXED TO DSNAME	28000001
		00010		6576+DA18PERM	EQU X'10' UNALLOCATE PERM. ALLOCATED DSE'S	M0765 29000002
000020				6577+DA18JBNM	DS CL8 IGNORED AS OF OS VS/2 RELEASE 2	Y02670 30000002
				6578+*	*/	31000001
		00028		6579 DAP18LEN	EQU *-DAPB18 Length of DAP18 LEN=28	
				6580 *		
				6581	PRINT NOGEN	
				6582 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6584 *	/* *****/	
				6585 *	/* Working Storage DSECT */	
				6586 *	/* *****/	
000000				6587 WSDSECT	DSECT	
		00000		6588 WSAREA	EQU *	
				6589 *	/* *****/	
				6590 *	/* *****/	
				6591 *	/* mySAVEARA */	
				6592 *	/* *****/	
000000				6593 SAVEAREA DS	18F my Savearea	
				6594 *	+00 A(savearea of current CSECT)	
				6595 *	+04 A(savearea of calling CSECT)	
				6596 *	+08 A(savearea of called CSECT)	
				6597 *	+12 R14	
				6598 *	+16 R15	
				6599 *	+20 R0	
				6600 *	+24 R1	
				6601 *	+28 R2	
				6602 *	+32 R3	
				6603 *	+36 R4	
				6604 *	+40 R5	
				6605 *	+44 R6	
				6606 *	+48 R7	
				6607 *	+52 R8	
				6608 *	+56 R9	
				6609 *	+60 R10	
				6610 *	+64 R11	
				6611 *	+68 R12	
				6612 *	/* *****/	
				6613 *	/* *****/	
				6614 *	/* IKJCT441 Parm Address List */	
				6615 *	/* *****/	
000048				6616 CT441LST DS	0F	
000048				6617 CT441P1 DS	A Entry Code	
00004C				6618 CT441P2 DS	A VAR NAME POINTER	
000050				6619 CT441P3 DS	A VAR NAME LENGTH	
000054				6620 CT441P4 DS	A VAR VALUE POINTER	
000058				6621 CT441P5 DS	A VAR VALUE LENGTH	
00005C				6622 CT441P6 DS	A Token	
				6623 *	/* *****/	
				6624 *	/* *****/	
				6625 *	/* IKJCT441 Parm Variables */	
				6626 *	/* *****/	
000060				6627 NAMP1 DS	A VAR NAME POINTER	
000064				6628 NAML1 DS	A VAR NAME LENGTH	
000068				6629 VALP1 DS	A VAR VALUE POINTER	
00006C				6630 VALL1 DS	A VAR VALUE LENGTH	
				6631 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				6633	*	/* *****/	
				6634	*	/* Symbolic Variable Data Area */	
				6635	*	/* *****/	
		00070		6636	DSYMS	EQU *	
				6637	*		
000070				6638	DDSN	DS CL44	Dataset Name
00009C				6639	DJMSG	DS CL100	MY MESSAGE VARIABLE
000100				6640	DRSNCODE	DS CL2	Reason Code
000102				6641	DMSG1	DS CL40	Message Level 1
00012A				6642	DMSG2	DS CL40	Message Level 2
000152				6643	DVOLSER	DS CL6	Volume Serial Number
000158				6644	DLRECL	DS CL5	LRECL
00015D				6645	DBLKSZ	DS CL5	BLKSIZE
000162				6646	DDSORG	DS CL3	Dataset Organization
000165				6647	DRECFM	DS CL5	Record Format e.g. FBA
00016A				6648	DCREDIT	DS CL8	CCYY/JJJ Create Date
000172				6649	DCREDJ	DS CL5	YYJJJ Create Date
000177				6650	DCREDC	DS CL10	MM/DD/CCYY Create Date
000181				6651	DEXPDT	DS CL8	CCYY/JJJ Expire Date
000189				6652	DEXPDJ	DS CL5	YYJJJ Expire Date
00018E				6653	DEXPDC	DS CL10	MM/DD/CCYY Expire Date
000198				6654	DREFDT	DS CL8	CCYY/JJJ Last Reference Date
0001A0				6655	DREFDJ	DS CL5	YYJJJ Last Reference Date
0001A5				6656	DREFDC	DS CL10	MM/DD/CCYY Last Reference Date
0001AF				6657	DKEYL	DS CL3	Keylength
0001B2				6658	DRKP	DS CL5	Relative Key Position
0001B7				6659	DPASSWD	DS CL5	Password Protection
0001BC				6660	DRACF	DS CL4	RACF
0001C0				6661	DDEVICE	DS CL15	Device
0001CF				6662	DSSPC	DS CL3	Secondary Space Request Type
0001D2				6663	DSSPCNM	DS CL7	Secondary Space Amount
0001D9				6664	DUNIT	DS CL7	Device Unit
0001E0				6665	DEXTS	DS CL3	Number of Extents
0001E3				6666	DNUMVOL	DS CL3	Number of Volumes
0001E6				6667	DTRKSAL	DS CL5	Total Tracks Allocated
0001EB				6668	DTRKSUS	DS CL5	Total Tracks Used
0001F0				6669	DTRKSUUS	DS CL5	Total Tracks Unused
0001F5				6670	DTRKSCYL	DS CL5	Tracks/Cylinder
0001FA				6671	DTRKLEN	DS CL5	Track Length
0001FF				6672	DBLKTRK	DS CL5	Blocks per Track
000204				6673	DCYL4VOL	DS CL5	Cylinders for Volume
000209				6674	DUNITCAP	DS CL15	Capacity for Volume
000218				6675	DDBLKS	DS CL5	PDS Directory Blocks
00021D				6676	DDIRBKSU	DS CL5	PDS Directory Blocks Used
000222				6677	DDIRBKSN	DS CL5	PDS Directory Blocks Unused
000227				6678	DMEMBERS	DS CL5	PDS Total Members
00022C				6679	DALIASES	DS CL5	PDS Alias Members
000231				6680	DDSCAT	DS CL1	Dataset catalog indication Y/N
000232				6681	DDSCATV	DS CL6	Dataset catalog volume
000238				6682	DPSPCAL	DS CL5	Primary Space allocation
00023D				6683	DPSPCUS	DS CL5	Primary Space allocation used
000242				6684	DVOLLST	DS CL35	Up to 5 volumes for multivol DSN
		00005		6685	DVOLLST#	EQU L'DVOLLST/7	7 bytes for each volume
				6686	*		
		001F5		6687	DSYMSL	EQU *-DSYMS	Length of DSYMS area

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT
-----	--------	------	-------	-------	------	--------	-----------

ASM 0201 17.21 05/18/19

6688	*
------	---

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6690 *	/* ***** */	
				6691 *	/* Date Conversion Variables */	
				6692 *	/* ***** */	
000265				6693 DC#YR	DS PL4	CCYY Packed workarea
00026A				6694 DC#HJJJ	DS H	JJJ halfword workarea
00026C				6695 DC#JJJ	DS CL3	JJJ Julian Date 001-366
				6696 *		LB1001b
00026F				6697 DC#MDCY	DS CL11	LB1001b
00027A		0026F		6698	ORG DC#MDCY	LB1001b
00026F				6699 DC#MM	DS CL3	Redefine 11 byte area
000272				6700 DC#DD	DS CL3	0MM Month 01-12
000275				6701 DC#CCYY	DS CL5	0DD Date 01-31
				6702 *		0CCYY Century and Year
00027A				6703 DATESEP	DS CL1	Date Separator value
00027B				6704 DATEFMT	DS CL1	Date Format value
00027C				6705 DATEWA	DS CL15	Date Workarea
				6706 *		LB1001b
				6707 *	/* ***** */	
				6708 *	/* Misc Variables */	
				6709 *	/* ***** */	
00028C				6710 SAVER15	DS F	R15 Hold
000290				6711 DW	DS D	Double Word area
000298				6712 FW	DS F	Full Word area
00029C				6713 RCEXIT	DS F	Exit RC
0002A0				6714 TRKSCYL	DS F	Tracks/Cylinder
0002A4				6715 TRKLEN	DS F	Track Length
0002A8				6716 TRKSTOTA	DS F	Track Allocated TOTAL
0002AC				6717 TTRKUSED	DS F	Track Used TOTAL
0002B0				6718 CYL4VOL	DS F	Cylinders for Volume
0002B4				6719 CYLSTOTA	DS F	CYLs Allocated TOTAL
0002B8				6720 BLKSTOTA	DS F	BLKs Allocated TOTAL
0002BC				6721 BLKSPTRK	DS F	BLKs per track
0002C0				6722 DMSG1L	DS F	Length or MSG1
0002C4				6723 DMSG2L	DS F	Length or MSG2
0002C8				6724 CD	DS CL2	Code for searching tables
0002CA				6725 RC	DS CL2	Return Code
0002CC				6726 SNN	DS PL2	Short symbolic seq no
0002CE				6727 SNNC	DS CL3	Short symbolic name Snn
0002D1				6728 SNNUPK	DS CL3	Short symbolic unpacked seq no
				6729 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6731 *	*/*****	
				6732 *	/* PARM input scan Variables */	
				6733 *	*/*****	
0002D4				6734 PDSNL	DS 0F,H	Dataset Name Length
0002D6				6735 PDSN	DS CL44	Dataset Name from PARM input
000302				6736 PVOLSER	DS CL6	VOLSER from PARM input
000308				6737 PVOL	DS C	VOL keyword switch
000309				6738 PDIR	DS C	DIR keyword switch
00030A				6739 PPNL	DS C	PNL keyword switch
00030B				6740 PABOUT	DS C	ABOUT keyword switch
				6741 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				6743	*	*/*****	
				6744	*	/* CAMLIST Workareas	
				6745	*	*/*****	
00030C				6746	OBTVOL	DS CL6	VOLSER
000312				6748	CAMDSN	DS CL44	Dataset name
000340				6750	CAMLIST	DS 4F	CAM Access List
000350				6752	LOCATEA	DS 0D	Locate Area
000350				6753		DS 265C	Declare space for catalog rcd
000460				6754		DS 0D	
000460		00350		6756		ORG LOCATEA	REDEFINE catalog rcd
000350				6757	LOCA#VOL	DS H	Number of volumes
		00352		6758	LOCAVENT	EQU *	Volume List Entry
000352				6759	LOCADEVT	DS 0CL4	Device type see UCBTYP field
000352				6760		DS CL1	I/O supervisor flags
000353				6761		DS CL1	Optional features
000354				6762	LOCADEV	DS CL1	Device class
000355				6763	LOCAUNTY	DS CL1	Unit Type
000356				6764	LOCAVSR	DS CL6	Device serial number
00035C				6765	LOCAVS#	DS CL2	Device sequence number
		0000C		6766	LOCAVLLN	EQU *-LOCAVENT	Length of Volume List Entry
00035E		00352		6768		ORG LOCAVENT	
000352				6769	LOCAVLST	DS 20CL12	Volume list (20 max) 240 bytes
000442				6770		DS CL23	
000460				6771		DS 0D	
000460				6773	OBTAINA	DS 0D	
000460				6774		DS 4CL140	Declare space for 4 DSCBs
000690				6775		DS 0D	
000690		00434		6777		ORG OBTAINA-44	Start DSCBs after 44 byte DSN

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	17.21	05/18/19
					6779		IECSDSL1 1				
							DSCB F1				

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	17.21	05/18/19
					6862		IECSDSL1 2				
							DSCB F2				

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM	0201	17.21	05/18/19
					6916		IECSDSL1 3				
							DSCB F3				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
-----	-------------	-------	-------	------	------------------	-------------------------

```
6930          IECSDSL1 4          DSCB F4
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 17.21 05/18/19
				6971 *	*/*****	
				6972 *	/* Workareas for DAPL Build	
				6973 *	*/*****	
000638				6974 MYCPPLP	DS F CPPL Address	
00063C				6975 MYECB	DS F Env Control Block	
000640				6976 MYDAPL	DS 0F,(DAPLLEN)C Dynamic Alloc Parm List	
000658				6977 MYDAPB	DS 0D,(DAP08LEN)C Dynamic Alloc Parm Block LEN=X'54'	
				6978 *		
				6979 *	MYDAPB is a variable length area used by DAIR	
				6980 *	NOTE=> ENSURE THE LENGTH is the largest of the DAnn DSECTS used!	
				6981 *		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
				6983	*	*/*****	
				6984	*	/* PDS DIR Workareas	
				6985	*	*/*****	
0006B0				6986	BLOCK	DS 0D,256C	PDS Block area
0007B0				6987	DDNAME	DS CL8	DDN assigned by Dynamic Alloc
0007B8				6989	DIRSW	DS C	Read PDS Block or process switch
0007BC				6990	PODBLKS	DS F	# of dir blocks used
0007C0				6991	PODBLKSU	DS F	# of dir blocks unused
0007C4				6992	POMEMS	DS F	PDS member count
0007C8				6993	POALIS	DS F	PDS alias count
0007CC				6995	DIRDCBW	DS 0F,(DIRDCBL)X	PDS DIR DCB work area
000824				6996	DIRDECBW	DS 0F,(DIRDECBL)X	PDS
000838				6998	PARMVL1	DS F	Null Parm
				6999	*		
00083C				7000		DS 0F,(40)X	
		00864		7001	WSAREAE	EQU *	Working Storage END
		00864		7002	WSAREAL	EQU WSAREAE-WSAREA	Working Storage Area Length

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	ASM 0201 17.21 05/18/19
000000					7004	END	LISTDSJ	

ASM 0201 17.21 05/18/19

POS.ID	REL.ID	FLAGS	ADDRESS
0001	0001	0C	00138C
0001	0001	0C	001394
0001	0001	0C	00152C
0001	0001	0C	001534
0001	0001	0C	001970
0001	0001	0C	001980
0001	0001	0C	001990
0001	0001	0C	0019A0
0001	0001	0C	0019B0
0001	0001	0C	0019C0
0001	0001	0C	0019D0
0001	0001	0C	0019E0
0001	0001	0C	0019F0
0001	0001	0C	001A00
0001	0001	0C	001A10
0001	0001	0C	001A20
0001	0001	0C	001A30
0001	0001	0C	001A40
0001	0001	0C	001A50
0001	0001	0C	001A60
0001	0001	0C	001A70
0001	0001	0C	001A80
0001	0001	0C	001A90
0001	0001	0C	001AA0
0001	0001	0C	001AB0
0001	0001	0C	001AC0
0001	0001	0C	001AD0
0001	0001	0C	001AE0
0001	0001	0C	001AF0
0001	0001	0C	001B00
0001	0001	0C	001B10
0001	0001	0C	001B20
0001	0001	0C	001B30
0001	0001	0C	001B40
0001	0001	0C	001B50
0001	0001	0C	001B60
0001	0001	0C	001B70
0001	0001	0C	001B80
0001	0001	0C	001B90
0001	0001	0C	001BA0
0001	0001	0C	001BB0
0001	0001	0C	001BC0
0001	0001	0C	001BD0
0001	0001	0C	001BE0
0001	0001	0C	001BF0
0001	0001	0C	001C00
0001	0001	0C	001C10
0001	0001	0C	001C20
0001	0001	0C	001C30
0001	0001	0C	001C40
0001	0001	08	002079
0001	0001	0C	002090

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19														
ABOUT#XT	00001	00000384	01164	01145															
ASCB	00001	00000000	05121	00807	05337														
ASCBTSB	00004	0000003C	05175	00807															
BLK#B	00001	00000936	01808	01806															
BLKSPTRK	00004	000002BC	06721	01513	01939	01945													
BLKTRKC	00001	000006D8	01509	01503															
BLKXT	00001	0000093E	01811	01807	01810														
BLOCK	00008	000006B0	06986	02301	02323														
CAMDSN	00044	00000312	06748	01134	01180	01211	01309	01331	01417	01418	01418	01418	01423						
CAMLIST	00004	00000340	06750	01178	01179	01181	01183	01185	01188	01307	01308	01310	01312	01314	01317	01345	01346	01347	
				01349	01351	01353	01356	01381	01382	01383	01388	01390	01392	01395	01421	01422	01424	01426	
				01428	01431														
CAMRCERR	00001	00001086	02592	01329	01367	01406	01442												
CAMR04	00001	000010B4	02604	02594															
CAMR08	00001	000010CA	02609	02596															
CAMR12	00001	000010E0	02614	02598															
CD	00002	000002C8	06724	02935	02941	02946													
CDC1	00001	00001446	02969	02956	02967														
CDFOUND	00001	00001420	02957	02947															
CDNOFIND	00001	00001412	02953	02945															
CHKCD	00001	000013F2	02943	02936	02942	02952													
CHKME	00001	000014DE	03024	03035															
CHKVOLSX	00001	000004C6	01285	01274															
CONTZ	00001	0000104E	02542	02538															
CPPL	00001	00000000	06442	02832	06448														
CPPLECT	00004	0000000C	06446	02834															
CPPLIN	00001	0000010E	00865	00857															
CPPLPSCB	00004	00000008	06445	02837															
CPPLUPT	00004	00000004	06444	02833															
CREDTXT	00001	00000B48	02028	02019															
CTL#A	00001	00000972	01844	01840															
CTL#M	00001	0000097A	01847	01842															
CTLCHRXT	00001	00000982	01850	01843	01846	01849													
CT441LST	00004	00000048	06616	03059															
CT441P1	00004	00000048	06617	00786															
CT441P2	00004	0000004C	06618	00788															
CT441P3	00004	00000050	06619	00790															
CT441P4	00004	00000054	06620	00792															
CT441P5	00004	00000058	06621	00794															
CT441P6	00004	0000005C	06622	00796	00797														
CVT	00001	00000000	04157	02100															
CVTBRET	00002	00000052	04215	04782															
CVTILK2	00004	00000028	04195	02101															
CVTPTR	00001	00000010	04153	02099															
CVTXTNT1	00001	00000000	04965	04392															
CVTXTNT2	00001	00000000	04974	04463															
CVT4MS1	00001	00000010	04234	04241															
CVT6DAT	00001	00000002	04237	04241															
CYLSTOTA	00004	000002B4	06719	01589	01899														
CYL4VOL	00004	000002B0	06718	01452	01487														
DAIR	00001	00001386	02884	02851	02875														
DALIASES	00005	0000022C	06679	02444	02445	03315	03315												
DAPB08	00001	00000000	06499	02844	06548														
DAPB18	00001	00000000	06551	02871	06579														
DAPL	00001	00000000	06488	02830	06496														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19
DAPLDAPB	00004	00000010	06494	02839	
DAPLECB	00004	00000008	06492	02836	
DAPLECT	00004	00000004	06491	02834	
DAPLLEN	00001	00000014	06496	06976	
DAPLPSCB	00004	0000000C	06493	02837	
DAPLUPT	00004	00000000	06490	02833	
DAP08LEN	00001	00000054	06548	06977	
DATECCNT	00001	00001470	02991	02988	
DATECONV	00001	0000144C	02980	02021 02048 02075	
DATECY2	00001	0000146C	02989	02985	
DATEFMT	00001	0000027B	06704	00911 01120 02765 02771 02785	
DATESEP	00001	0000027A	06703	00910 01094 01097 01100 02013 02040 02067 02768 02769 02782 02783	
DATEWA	00015	0000027C	06705	02017 02027 02044 02054 02071 02081 02768 02769 02770 02774 02775 02778 02779 02782 02783	
				02784 02788 02789 02792 02793	
DAYSTBLJ	00002	00001790	03209	03023	
DA08DDN	00008	0000000C	06511	02855	
DA08DSP1	00001	00000044	06520	02850	
DA08PDSN	00004	00000008	06510	02847	
DA08SER	00008	0000001C	06513	02849	
DA08SHR	00001	00000008	06521	02850	
DA08UNIT	00008	00000014	06512	02848	
DA18DDN	00008	0000000C	06565	02873	
DBLKSZ	00005	0000015D	06645	01660 01661 03297 03297	
DBLKTRK	00005	000001FF	06672	01511 01512 03347 03347	
DC#CCYY	00005	00000275	06701	02022 02024 02049 02051 02076 02078 02770 02784 02996 02997 03012	
DC#DD	00003	00000272	06700	02775 02778 02789 02792 03048 03049	
DC#HJJJ	00002	0000026A	06694	03008 03031 03045	
DC#JJJ	00003	0000026C	06695	02023 02025 02050 02052 02077 02079 03002 03003	
DC#MDCY	00011	0000026F	06697	02015 02042 02069 06698	
DC#MM	00003	0000026F	06699	02774 02779 02788 02793 03043 03044	
DC#YR	00004	00000265	06693	03012 03013 03014 03016 03017	
DCREDC	00010	00000177	06650	02017 02027 03349 03349	
DCREDJ	00005	00000172	06649	02014 02024 02025 03337 03337	
DCREDT	00008	0000016A	06648	02012 02013 02022 02023 03285 03285	
DCYL4VOL	00005	00000204	06673	01454 01455 03333 03333	
DDBLKS	00005	00000218	06675	02418 02419 03307 03307	
DDIRBKSN	00005	00000222	06677	02431 02432 03311 03311	
DDIRBKSU	00005	0000021D	06676	02424 02425 03309 03309	
DDNAM	00001	00000028	03627	02266	
DDNAME	00008	000007B0	06987	02266 02855 02873	
DDSCAT	00001	00000231	06680	01193 01209 02095 02129 03357 03357	
DDSCATV	00006	00000232	06681	01210 03359 03359	
DDSN	00044	00000070	06638	01197 01211 01322 01331 03274 03274	
DDSORG	00003	00000162	06646	01738 01742 02195 03291 03291	
DEVFND	00001	00000C94	02153	02134 02138	
DEVTPXT	00001	00000D1E	02181	02110 02152 02155	
DEXPDC	00010	0000018E	06653	02044 02054 03351 03351	
DEXPDJ	00005	00000189	06652	02041 02051 02052 03339 03339	
DEXPDT	00008	00000181	06651	02039 02040 02049 02050 03287 03287	
DEXTS	00003	000001E0	06665	01703 01704 03325 03325	
DFMT	00001	0000126E	02764	02016 02026 02043 02053 02070 02080	
DFMTXT	00001	000012EA	02795	02776 02780 02790 02794	
DFMT2	00001	000012A0	02777	02772	
DFMT3	00001	000012B0	02781	02766	
DFMT4	00001	000012DA	02791	02786	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19														
DIRDCB	00004	00002058	03514	02265 03561															
DIRDCBL	00001	00000058	03561	02265 06995															
DIRDCBW	00004	000007CC	06995	02264															
DIRDECB	00004	000020B0	03565	02291 03572															
DIRDECBL	00001	00000014	03572	02291 06996															
DIRDECBW	00004	00000824	06996	02291 02298 02310															
DIRSW	00001	000007B8	06989	02292 02314 02321 02357 02372															
DJMSG	00100	0000009C	06639	00835 00836 00836 00836 01159 01198 01200 01201 01202 01323 01325 01326 01327 01361 01363															
				01364 01365 01400 01402 01403 01404 01436 01438 01439 01440 01727 01728 01733 01734 02144															
				02145 02150 02151 02201 02203 02204 02280 02282 02283 02371 02396 02398 02399 02462 02464															
				02465 02472 02624 02632 02640 02648 02656 02664 02672 02680 02688 02696 02704 02712 02720															
				02728 02736 02744 02805 02808 02809 02810 02811 03076 03078 03079 03090 03277 03277															
DKEYL	00003	000001AF	06657	01675 01676 03299 03299															
DLRECL	00005	00000158	06644	01646 01647 03295 03295															
DMEMBERS	00005	00000227	06678	02438 02439 03313 03313															
DMSGL1	00040	00000102	06641	02492 02954 02961 02968 03281 03281															
DMSGL1L	00004	000002C0	06722	02490 02532 02970															
DMSGL2	00040	0000012A	06642	02492 03283 03283															
DMSGL2L	00004	000002C4	06723	02490 02535															
DNUMVOL	00003	000001E3	06666	01224 01225 01302 03355 03355															
DONELOOP	00001	00001500	03037	03033															
DPASSWD	00005	000001B7	06659	01978 01981 01984 03303 03303															
DPSPCAL	00005	00000238	06682	01901 01902 01916 01917 01931 01932 01941 01942 03361 03361															
DPSPCUS	00005	0000023D	06683	01908 01909 01921 01922 01947 01948 03363 03363															
DRACF	00004	000001BC	06660	01996 01999 03305 03305															
DRECFM	00005	00000165	06647	01768 01769 01769 01769 01783 01809 01821 01832 01845 01848 01861 01862 01872 03293 03293															
DREFDC	00010	000001A5	06656	02071 02081 03353 03353															
DREFDJ	00005	000001A0	06655	02068 02078 02079 03341 03341															
DREFDT	00008	00000198	06654	02066 02067 02076 02077 03289 03289															
DRKP	00005	000001B2	06658	01689 01690 03301 03301															
DRSNCODE	00002	00000100	06640	00828 01160 01203 01264 01276 01281 02205 02284 02400 02466 02600 02605 02610 02615 02750															
				02941 03279 03279															
DSCBF1	00001	000004C6	01298	01195															
DSCBF1A	00001	000004E0	01305	01300															
DSCBF2X	00001	0000059A	01368	01359															
DSCBF3	00001	0000059A	01377	01343															
DSCBF3X	00001	00000600	01407	01379 01398															
DSCBF4X	00001	00000658	01443	01434															
DSERR	00001	000004B0	01280	01262															
DSNFOUND	00001	000003F6	01208	01191															
DSO#FND	00001	000008AE	01737	01723															
DSORGLP	00001	00000864	01718	01725															
DSORGXT	00001	000008E6	01760	01735 01741 01743															
DSSPC	00003	000001CF	06662	01897 01912 01927 01936 03321 03321															
DSSPCNM	00007	000001D2	06663	01963 01964 03329 03329															
DSYMS	00001	00000070	06636	00815 06687															
DSYMSL	00001	000001F5	06687	00816															
DS1BLKL	00002	0000048A	06822	01502 01507 01657															
DS1CREDT	00003	00000469	06786	02018 02020															
DS1DSIND	00001	00000491	06826	01973 01975 01993															
DS1DSORG	00002	00000486	06795	01342 01385 01601 01603 01719 01730 01740															
DS1EXPDT	00003	0000046C	06787	02045 02047															
DS1EXT1	00010	0000049D	06852	01529															
DS1IND01	00001	00000001	06846	06847															
DS1IND02	00001	00000002	06842	06845															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19															
DS1KEYL	00001	0000048E	06824	01672																
DS1LRECL	00002	0000048C	06823	01643																
DS1LSTAR	00003	00000496	06849	01609	01610															
DS1NOEPV	00001	0000046F	06788	01378	01522	01540	01700													
DS1PTRDS	00005	000004BB	06859	01348	01384															
DS1RECFM	00001	00000488	06820	01772	01805	01817	01828	01839	01841											
DS1REFD	00003	0000047F	06793	02072	02074															
DS1RKP	00002	0000048F	06825	01686																
DS1SCALO	00004	00000492	06848	01886	01889	01892	01960													
DS2PTRDS	00005	00000547	06913	01387																
DS3ADEXT	00090	00000579	06926	01556																
DS3EXTNT	00040	00000550	06920	01545																
DS4DEVSZ	00004	000005EA	06948	01451	01462															
DS4DEVTK	00002	000005EE	06949	01473																
DTRKLEN	00005	000001FA	06671	01476	01477	03343	03343													
DTRKSAL	00005	000001E6	06667	01580	01581	03327	03327													
DTRKSCYL	00005	000001F5	06670	01465	01466	03335	03335													
DTRKSUS	00005	000001EB	06668	01621	01622	03323	03323													
DTRKSUUS	00005	000001F0	06669	01631	01632	03331	03331													
DUNIT	00007	000001D9	06664	02154	03319	03319														
DUNITCAP	00015	00000209	06674	01492	01493	03345	03345													
DVCLST\$	00001	00000C9E	02162	02127	02163	02179														
DVCLST\$E	00001	00000010	02179	02126																
DVCLST\$L	00001	00000008	02163	02140	02179															
DVOLLST	00035	00000242	06684	01235	01236	01236	01236	01237	03365	03365	06685									
DVOLLST#	00001	00000005	06685	01239																
DVOLSER	00006	00000152	06643	01269	01270	01304	01332	02115	02849	02849	03317	03317								
DW	00008	00000290	06711	01146	01158	01199	01200	01223	01224	01324	01325	01362	01363	01401	01402	01437	01438	01453		
				01454	01464	01465	01475	01476	01491	01492	01510	01511	01579	01580	01620	01621	01630	01631		
				01645	01646	01659	01660	01674	01675	01688	01689	01702	01703	01732	01733	01859	01860	01860		
				01860	01863	01872	01900	01901	01907	01908	01915	01916	01920	01921	01930	01931	01940	01941		
				01946	01947	01962	01963	02149	02150	02202	02203	02281	02282	02397	02398	02417	02418	02423		
				02424	02430	02431	02437	02438	02443	02444	02463	02464	02807	02808	02995	02996	03001	03002		
				03042	03043	03047	03048	03077	03078											
ECUPDT	00004	00001788	03203	00785																
ENDME	00002	00000FB0	02483	01163	01206	01267	01279	01284	02208	02287	02403	02469	02603	02608	02613	02618	02753			
ERR4004	00001	000010F6	02621	00862																
ERR4005	00001	00001124	02637	00854																
ERR4008	00001	00001150	02653	00870																
ERR4009	00001	0000117C	02669	00874																
ERR4010	00001	000011A8	02685	00875																
ERR4097	00001	000011D4	02701	02893																
ERR4098	00001	00001200	02717	03067																
ERR4099	00001	0000122C	02733	00809																
EXPDTXT	00001	00000B9E	02055	02046																
EXTF1	00001	000006FE	01531	01536																
EXTF3	00001	00000722	01547	01552																
EXTF3B	00001	0000073E	01558	01563																
FLCEICOD	00002	00000086	03708	03709																
FLCENPSW	00004	00000058	03687	03689																
FLCEOPSW	00008	00000018	03670	03671																
FLCINPSW	00004	00000078	03700	03702																
FLCIOPSW	00008	00000038	03678	03679																
FLCIPPSW	00008	00000000	03661	03664																
FLCMNPSW	00004	00000070	03696	03699																

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19													
FLCMOPSW	00008	00000030	03676	03677														
FLCPICOD	00002	0000008E	03728	03729														
FLCPIILC	00001	0000008D	03722	03727														
FLCPNPSW	00004	00000068	03693	03695														
FLCPOPSW	00008	00000028	03674	03675														
FLCSNPSW	00004	00000060	03690	03692														
FLCSOPSW	00008	00000020	03672	03673														
FLCSVCN	00002	0000008A	03718	03719														
FLCSVILC	00001	00000089	03713	03717														
FLCTIMER	00004	00000050	03684	03685														
FW	00004	00000298	06712	01220	01220	01221	01222	01506	01506	01507	01508	01642	01642	01643	01644	01656	01656	01657
				01658	01671	01671	01672	01673	01685	01685	01686	01687	01699	01699	01700	01701	01729	01729
				01730	01731	01959	01959	01960	01961	02146	02146	02147	02148	02981	02981	02982	02983	02998
				02998	02999	03000												
GETDEVTY	00001	00000C36	02125	02096														
IECSDSF2	00001	000004C0	06864	01352														
IECSDSF3	00001	0000054C	06918	01391														
IECSDSF4	00001	000005D8	06932	01427														
IECSDSL1	00001	00000434	06780	06781														
IECSDSL2	00001	000004C0	06863	06864														
IECSDSL3	00001	0000054C	06917	06918														
IECSDSL4	00001	000005D8	06931	06932														
INITSYMA	00001	000000BA	00817	00820														
INPB08	00008	00001FD8	03460	02845	03483													
INPB08L	00001	00000054	03483	02845														
INPB18	00008	00002030	03489	02872	03503													
INPB18L	00001	00000028	03503	02872														
IOPL	00001	00000000	06468	06480														
KABOUT	00001	00000210	00987	00945														
KDIR	00001	000001E4	00961	00941														
KPNL	00001	000001FA	00974	00943														
KWABOUT	00005	0000176C	03194	00944	00988	00991	01025	01026										
KWDF	00003	00001778	03197	00950	01112													
KWDIR	00003	00001766	03192	00940	00962	00965	01003	01004										
KWDS	00003	00001775	03196	00948	01084													
KWPNL	00003	00001769	03193	00942	00975	00978	01014	01015										
KWVOL	00004	00001771	03195	00946	01052	01053												
LEN#FND	00001	00000916	01782	01777														
LENTYLP	00001	000008FE	01774	01779														
LENTYXT	00001	0000092A	01798	01781	01784													
LISTDSJ	00001	00000000	00719	00720	07004													
LOADDFX	00001	00000324	01122	01115	01117	01121												
LOADDSD	00001	000002EE	01096	01087														
LOADDSP	00001	000002F6	01099	01091														
LOADDSS	00001	000002E6	01093	01089														
LOADDSX	00001	000002FE	01102	01092	01095	01098	01101											
LOCA#VOL	00002	00000350	06757	01221	01259	01261												
LOCADEVC	00001	00000354	06762	01271														
LOCATEA	00008	00000350	06752	01184	06756													
LOCAUNTY	00001	00000355	06763	02137														
LOCAVENT	00001	00000352	06758	06766	06768													
LOCAVLLN	00001	0000000C	06766	01246														
LOCAVSER	00006	00000356	06764	01210	01238	01269												
LOOK4DT	00001	00000C3E	02128	02141														
LOOK4DT2	00001	00000C54	02136	02130														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19
LOOK4DT3	00001	00000C5E	02139	02135	
MM1	00013	00001FC8	03453	03454	
MOVEML1	00001	00001438	02965	02963	
MSGJ015	00029	00001EA3	03432	02472 02472 03433	
MSGJ017	00025	00001EC0	03434	02201 02201 03435	
MSGJ018	00021	00001ED9	03436	02462 02462 03437	
MSGJ020	00032	00001EEE	03438	01198 01198 01436 01436 03439	
MSGJ021	00034	00001F0E	03440	01323 01323 03441	
MSGJ022	00032	00001F30	03442	01361 01361 01400 01400 03443	
MSGJ025	00035	00001F50	03444	01727 01727 02144 02144 03445	
MSGJ027	00042	00001F73	03446	03076 03076 03447	
MSGJ030	00021	00001F9D	03448	02280 02280 03449	
MSGJ031	00022	00001FB2	03450	02396 02396 03451	
MSG LX	00001	00001040	02536	02533	
MSG L1	00001	00001034	02531	02525	
MSG L2	00001	0000103C	02534	02527	
MSG4004	00017	00001E42	03421	02624 02640 03422	
MSG4004L	00001	00000011	03422	02624 02629 02640 02645	
MSG4009	00017	00001E53	03423	02656 02672 02688 03424	
MSG4009L	00001	00000011	03424	02656 02661 02672 02677 02688 02693	
MSG4097	00022	00001E64	03425	02704 03426	
MSG4097L	00001	00000016	03426	02704 02709	
MSG4098	00023	00001E7A	03427	02720 03428	
MSG4098L	00001	00000017	03428	02720 02725	
MSG4099	00018	00001E91	03429	02736 03430	
MSG4099L	00001	00000012	03430	02736 02741	
MVCMAX	00001	00001574	03085	03083	
MVCM SGL1	00006	00001440	02968	02966	
MVCOK	00001	00001578	03087	03084	
MVCSYS	00006	00001580	03090	03088	
MYCPPLP	00004	00000638	06974	00866 02831	
MYDAPB	00008	00000658	06977	02838 02854 02870	
MYDAPL	00004	00000640	06976	02829 02874	
MYECB	00004	0000063C	06975	00833 00833 02835	
MYEXIT	00001	00001060	02550	02716 02732 02748	
MYSTAMP	00001	0000001E	00742	00753 01154 01159	
MYSTAMPL	00001	00000034	00753	01151 01159	
NAML1	00004	00000064	06628	00789 02512 02516 03081	
NAMP1	00004	00000060	06627	00787 02510 02515 03080	
NEXTPRM	00001	0000019C	00937	00923 00952 00967 00980 00993 01039 01064 01066 01075 01104 01124	
NOADD	00001	000014F0	03030	03027 03028	
NOLEAP	00001	000014D6	03021	03010 03015 03018	
OBTAINA	00008	00000460	06773	01313 06777	
OBTR00	00001	00000534	01330	01320	
OBTVOL	00006	0000030C	06746	01058 01059 01059 01059 01060 01061 01135 01270 01303 01311 01332 01350 01389 01425	
ONTAPE	00001	0000049A	01275	01272	
OTHR	00001	00001048	02539	02528	
OVF#S	00001	0000095A	01831	01829	
OVFCHRXT	00001	0000095E	01833	01830	
OVRSTAMP	00002	00000052	00754	00741	
PABOUT	00001	0000030B	06740	00908 01024 01144	
PARM@DEC	00001	00000256	01035	01005 01016 01027	
PARMABOT	00001	00000246	01023	00990 00992	
PARMDF	00001	00000306	01111	00951	
PARMDIR	00001	00000226	01001	00964 00966	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19															
PARMDONE	00001	0000032C	01131	00930	00953	01037	01038	01040	01055	01056	01074	01076								
PARMDS	00001	000002C6	01083	00949																
PARMPNL	00001	00000236	01012	00977	00979															
PARMSXT	00001	00000136	00878	00864																
PARMVL1	00004	00000838	06998	02267	02271	02388														
PARMVOL	00001	00000268	01050	00947																
PASSWDXT	00001	00000AD6	01986	01979	01982	01985														
PDIR	00001	00000309	06738	00906	01002	02193														
PDSALC	00001	0000130E	02824	02197																
PDSALCXT	00001	0000136A	02857	02853																
PDSFRE	00001	0000136C	02865	02458																
PDSN	00044	000002D6	06735	00904	00905	00905	00905	00912	01132	01134	01197	01322								
PDSNL	00004	000002D4	06734	00914	00928	02846														
PGMID	00008	0000001E	00743	02805																
POALIS	00004	000007C8	06993	02261	02261	02343	02345	02436	02442											
PODALIAS	00001	00000E64	02342	02334																
PODBLKS	00004	000007BC	06990	02258	02258	02318	02320	02358	02416	02428										
PODBLKSU	00004	000007C0	06991	02259	02259	02358	02422	02429												
PODCNTS	00001	00000F14	02414	02380	02384															
PODCONT0	00001	00000DD6	02289	02278																
PODCONT9	00001	00000F14	02406	02394																
PODDIRNN	00001	00000FAA	02471	02196																
PODDIRXT	00001	00000FB0	02474	02194	02460															
POENTRY	00001	00000E42	02329	02354																
POEOF	00001	00000ED2	02386	03532																
POERR	00001	00000ECE	02382	02315																
PODINFO	00001	00000D64	02257	02199																
PODNEXT	00001	00000E70	02347	02340																
PODREAD	00001	00000DE0	02296	02322	02355	02359														
PODSYN	00001	00000E9A	02362	03547																
PODUSED	00004	00000E8C	02357	02331																
POMEMS	00004	000007C4	06992	02260	02260	02337	02339	02435												
PPL	00001	00000000	06451	06465																
PPNL	00001	0000030A	06739	00907	01013	02502														
PREFXMSG	00001	000012EC	02804	02623	02639	02655	02671	02687	02703	02719	02735									
PRMDSN	00001	00000176	00921	00929																
PSA	00001	00000000	03659	00806	03871	03876	04102													
PSAANew	00004	00000220	03807	00806																
PSAIPCDM	00001	0000026C	03877	03876																
PSAIPCRM	00001	00000264	03872	03871																
PSATNEW	00004	00000218	03804	03805																
PVOL	00001	00000308	06737	00909	01051	01194	01299													
PVOLSER	00006	00000302	06736	01135	01303	01304														
RACFRQD	00001	00000AE8	01998	01994																
RACFXT	00001	00000AF2	02001	01997	02000															
RC	00002	000002CA	06725	00825	01162	01205	01266	01278	01283	02207	02286	02402	02468	02602	02607	02612	02617	02752		
RCEXIT	00004	0000029C	06713	00826	01161	01204	01265	01277	01282	02206	02285	02401	02467	02566	02601	02606	02611	02616		
				02622	02638	02654	02670	02686	02702	02718	02734	02751	02806							
RCMSG00	00018	00001DDD	03410	03409																
RCMSG04	00039	00001DF3	03412	03411																
RCMSG16	00036	00001E1E	03414	03413																
RCTBLBEG	00001	00001DD9	03408	02932	02934	03415														
RCTBLLEN	00001	00000069	03415	02933																
RECFML	00001	00000998	01864	01871																

SYMBOL	LEN	VALUE	DEFN	REFERENCES															ASM 0201 17.21 05/18/19					
RECFMLA	00001	000009AA	01869	01866																				
REFDXTT	00001	00000BF4	02082	02073																				
RMSG00	00017	00001C54	03376	03375																				
RMSG02	00024	00001C69	03378	03377																				
RMSG05	00022	00001C85	03380	03379																				
RMSG06	00019	00001C9F	03382	03381																				
RMSG13	00031	00001CB6	03384	03383																				
RMSG19	00035	00001CD9	03386	03385																				
RMSG21	00034	00001D00	03388	03387																				
RMSG22	00018	00001D26	03390	03389																				
RMSG23	00029	00001D3C	03392	03391																				
RMSG24	00022	00001D5D	03394	03393																				
RMSG26	00030	00001D77	03396	03395																				
RMSG29	00024	00001D99	03398	03397																				
RMSG99	00036	00001DB5	03400	03399																				
RSN29	00001	00001258	02749	01133	02636	02652	02668	02684	02700															
RSTBLBEG	00001	00001C50	03374	02938	02940	03401																		
RSTBLLEN	00001	00000189	03401	02939																				
RWPW	00001	00000ACC	01983	01976																				
R0	00001	00000000	03589	00763	00765	00785	00786	00787	00788	00789	00790	00791	00792	00793	00794	00795	00796	00806						
				00807	00807	00808	00808	00962	00963	00975	00976	00988	00989	01004	01015	01026	01036	01053						
				01054	01146	01158	02324	02325	02353	02571	02574	02584	02835	02836	02846	02847	02909	02909						
				02911	02912	02917	02918	03080	03090															
R1	00001	00000001	03590	00736	00768	00779	00853	00853	00855	01146	01158	01571	01573	01587	01629	01630	02318	02319						
				02319	02320	02323	02324	02325	02326	02326	02330	02333	02349	02352	02352	02353	02371	02559						
				02575	02829	02830	02874	02887	02908	02908	02910	02912	02913	02915	02916	02916	02918	02919						
				03059	03081	03082	03086	03088																
R10	00001	0000000A	03599	00720	00730	00731																		
R11	00001	0000000B	03600	00720	00731	00732	00732	00733																
R12	00001	0000000C	03601	00720	00729	00733	00734	00734	02584															
R13	00001	0000000D	03602	00729	00735	00775	00776	00777	00778	02559	02565	02582	02584											
R14	00001	0000000E	03603	00729	02582	02585																		
R15	00001	0000000F	03604	00730	00735	00775	00777	00778	01190	01190	01199	01319	01319	01324	01358	01358	01362	01397						
				01397	01401	01433	01433	01437	01731	01732	02148	02149	02198	02198	02202	02277	02277	02281						
				02393	02393	02397	02459	02459	02463	02583	02593	02595	02597	02852	02852	03071	03073	03073						
				03077																				
R2	00001	00000002	03591	00736	00779	01488	01490	01505	01508	01524	01524	01571	01572	01588	01608	01608	01609	01612						
				01612	01619	01620	01629	01719	01720	01745	01772	01786	01861	01865	01867	01870	01870	01905						
				01906	01939	01945	02101	02105	02106	02106	02264	02265	02266	02274	02300	02390	02831	02832						
				02919																				
R3	00001	00000003	03592	00815	00818	00819	00819	00855	00856	00859	00866	00867	01177	01178	01180	01181	01182	01183						
				01184	01185	01237	01245	01247	01247	01306	01307	01309	01310	01311	01312	01313	01314	01344						
				01345	01348	01349	01350	01351	01352	01353	01380	01381	01384	01387	01388	01389	01390	01391						
				01392	01420	01421	01423	01424	01425	01426	01427	01428	01451	01452	01453	01462	01463	01464						
				01473	01474	01475	01487	01491	01501	01501	01504	01510	01513	01525	01525	01573	01579	01582						
				01587	01589	01644	01645	01658	01659	01673	01674	01687	01688	01701	01702	01715	01720	01721						
				01724	01724	01738	01770	01775	01778	01778	01783	01862	01871	01904	01907	01938	01940	01944						
				01946	01961	01962	02102	02104	02104	02105	02107	02107	02109	02147	02337	02338	02338	02339						
				02343	02344	02344	02345	02348	02348	02349	02350	02351	02352	02416	02417	02422	02423	02428						
				02429	02430	02435	02436	02437	02442	02443	02496	02546	02806	02807	02838	02839	02844	02845						
				02854	02870	02871	02872	02913	02932	02933	02933	02938	02939	02939	02944	03007	03020	03029						
R4	00001	00000004	03593	00816	00820	00859	00860	00863	00863	00867	00868	00871	00876	00876	00891	00922	00924	00925						
				00925	00938	00938	00940	00942	00944	00946	00948	00950	00965	00978	00991	01003	01003	01014						
				01014	01025	01025	01052	01052	01063	01065	01067	01068	01068	01084	01084	01086	01088	01090						
				01103	01103	01112	01112	01114	01116	01120	01123	01123	01238	01245	01246	01246	01529	01532						

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19													
				01535 01535 01545 01548 01551 01551 01556 01559 01562 01562 01716 01725 01771 01779 01863														
				01867 01868 01868 02099 02100 02497 02515 02516 02519 02540 02544 02544 02910 02911 02915														
				02917 02934 02940 02944 02946 02949 02949 02950 02950 02951 02951 02958 02958 02959 02960														
				02960 02968														
R5	00001	000000005	03594	00868 00869 00869 00872 00876 01222 01223 01240 01243 01248 01530 01536 01546 01552 01557														
				01563 01717 01717 01721 01722 01773 01773 01775 01776 01899 01900 01914 01915 01919 01920														
				01929 01930 02126 02141 02509 02510 02511 02512 02519 02520 02521 02522 02532 02535 02537														
				02543 02851 02875 02898 02955 02959 02962 02964 02966 02970 02983 02984 02987 02987 02990														
				02990 02995 03000 03001 03008 03009 03022 03026 03035 03042 03045 03046 03047 03093														
R6	00001	000000006	03595	00860 00861 00861 00871 00872 00873 00887 00929 00952 00963 00976 00989 01036 01039 01054														
				01073 01075 01239 01240 01243 02020 02047 02074 02127 02133 02137 02140 02140 02154 02961														
				02962 02964 02982 02999 03023 03025 03034 03034														
R7	00001	000000007	03596	00912 00924 00926 00926 01060 01067 01069 01069 01534 01550 01561 02016 02021 02026 02043														
				02048 02053 02070 02075 02080 02197 02458 02489 02494 02623 02639 02655 02671 02687 02703														
				02719 02735 02796 02813 02859 02879 02921 02972 03051														
R8	00001	000000008	03597	00887 00888 00889 00913 00914 00927 00927 00928 01061 01070 01071 01071 03025 03029 03031														
				03046														
R9	00001	000000009	03598	00768 00769 02521														
S#@	00004	00001970	03270	02497 03275 03366														
S#@ENTL	00001	00000010	03275	03367														
S#@LEN	00001	000002E0	03366	03367														
S#@NUM	00001	0000002E	03367	02496														
S#@VAR	00001	00000FD2	02501	02546														
S#@VARC	00001	0000100E	02518	02513														
S#@VARLN	00001	00001002	02514	02503														
SAVEAREA	00004	000000000	06593	00776 02565 02566 02583														
SAVER15	00004	0000028C	06710	03071														
SETML1	00001	000013C6	02931	02494														
SETML2	00001	000013DC	02937	02489														
SETVAR	00001	00001524	03058	02543														
SETVARXT	00001	00001586	03092	03074 03089														
SINGLVOL	00001	00000482	01268	01260														
SNN	00002	000002CC	06726	02495 02505 02524 02526 02545														
SNNC	00003	000002CE	06727	02507 02508 02509														
SNNUPK	00003	000002D1	06728	02505 02506 02508														
SPCUSEDX	00001	00000790	01607	01602 01604														
SPCUSEDX	00001	000007C4	01633	01606														
SPN#S	00001	0000094A	01820	01818														
SPNCHRXT	00001	0000094E	01822	01819														
SRTEASCI	00001	00000004	05907	05908														
SRTEBSTR	00001	00000004	05906	05909														
SSPC#ABS	00001	00000A38	01926	01895														
SSPC#BLK	00001	00000A54	01935	01894														
SSPC#CYL	00001	000009D4	01896	01888														
SSPC#TRK	00001	00000A0A	01911	01891														
SSPCXT	00001	00000A8A	01950	01910 01923 01934 01949														
SUMEXTXT	00001	00000752	01565	01523 01533 01541 01549 01560														
TBLDSOB	00002	000008C8	01751	01715 01753 01758														
TBLDSOE	00001	000000005	01758	01716														
TBLDSOL	00001	000000006	01753	01724 01758														
TBLRFM1B	00002	00000924	01791	01770 01793 01796														
TBLRFM1E	00001	000000003	01796	01771														
TBLRFM1L	00001	000000002	01793	01778 01783 01796														
TMDSORG	00004	000008C4	01745	01722														
TMDSRFM1	00004	00000920	01786	01776														

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19
TOKEN	00004	0000178C	03204	00795	
TOTEXTS	00001	000013A4	02907	01534 01550 01561	
TOTUSED	00001	000007A2	01618	01611	
TRKLEN	00004	000002A4	06715	01474 01490 01504	
TRKSCYL	00004	000002A0	06714	01463 01488 01572 01588 01906	
TRKSTOTA	00004	000002A8	06716	01582 01914 01929 01938	
TSVEUPDT	00001	00000002	03582	03203	
TTRKUSED	00004	000002AC	06717	01605 01605 01619 01904 01919 01944	
UCB	00001	00000000	05339	02102	
UCBALOC	00001	00000008	05525	05721	
UCBBALB	00001	00000020	05764	05903	
UCBBNUL	00001	00000001	05774	05910	
UCBBPRV	00001	00000010	05766	05904	
UCBBPUB	00001	00000008	05767	05905	
UCBBSTR	00001	00000004	05768	05906 05907	
UCBBSVL	00001	00000080	05748	05902	
UCBBSY	00001	00000080	05542	05543	
UCBCHGS	00001	00000040	05515	05718	
UCBCUB	00001	00000008	05549	05550	
UCBDADI	00001	00000001	05531	05724	
UCBDEV	00001	00000018	05731	05737 05851 05925 05942 05964 06058 06071 06103	
UCBDMCT	00001	00000023	05783	05911	
UCBFLA	00001	00000006	05540	05541	
UCBFL1	00001	00000006	05541	05725	
UCBF SCT	00002	00000018	05858	05912	
UCBFSEQ	00002	0000001A	05859	05913	
UCBJBNR	00001	00000000	05454	02111 05714	
UCBMONT	00001	00000001	05475	05715	
UCBNRY	00001	00000040	05544	05545	
UCBONLI	00001	00000080	05514	02113 05717	
UCBPRES	00001	00000004	05526	05722	
UCBPST	00001	00000020	05546	05547	
UCBRESV	00001	00000020	05520	05719	
UCBSCAN	00001	00000C04	02103	02108 02112 02114 02116	
UCBSTAB	00001	00000022	05747	05901	
UCBSTAT	00001	00000003	05513	02113 05716	
UCBSYSR	00001	00000002	05528	05723	
UCBUNLD	00001	00000010	05522	05720	
UCBUNTYP	00001	00000013	05675	02133	
UCBUSER	00001	00000026	05835	05914	
UCBVOLI	00006	0000001C	05746	02115 05900	
UCBVRDEV	00001	00000080	05455	02111	
UPPERC	00006	00000142	00891	00889	
UPPERCX	00001	00000148	00892	00890	
V#@	00001	000017AC	03217	03264	
VALIAS	00015	00001914	03255	03314 03314	
VALL1	00004	0000006C	06630	00793 02537 02540	
VALP1	00004	00000068	06629	00791 02522	
VBLKSZ	00010	000017E3	03224	03296 03296	
VBLKTRK	00010	000018C5	03248	03346 03346	
VCCVOL	00009	000018A9	03245	03332 03332	
VCREDT	00009	0000180F	03229	03284 03284	
VCREDTC	00010	0000184A	03235	03348 03348	
VCREDTJ	00010	0000182B	03232	03336 03336	
VDIRBKSA	00010	00001938	03258	03306 03306	

SYMBOL	LEN	VALUE	DEFN	REFERENCES												ASM 0201 17.21 05/18/19											
VDIRBKS	N00011	0000192D	03257	03310	03310																						
VDIRBKSU	00010	00001923	03256	03308	03308																						
VDSCAT	00008	00001942	03259	03356	03356																						
VDSCATV	00009	0000194A	03260	03358	03358																						
VDSN	00009	000017AC	03218	03273	03273																						
VDSORG	00008	000017FF	03227	03290	03290																						
VEXPDT	00009	00001818	03230	03286	03286																						
VEXPDTC	00010	00001854	03236	03350	03350																						
VEXPDTJ	00010	00001835	03233	03338	03338																						
VEXTS	00010	00001895	03243	03324	03324																						
VJMSG	00013	000018FD	03253	03276	03276																						
VKEYL	00009	000017ED	03225	03298	03298																						
VKEYP	00009	000017F6	03226	03300	03300																						
VLRECL	00008	000017DB	03223	03294	03294																						
VMEMS	00010	0000190A	03254	03312	03312																						
VMSGL1	00010	000017BE	03220	03280	03280																						
VMSGL2	00010	000017C8	03221	03282	03282																						
VNUMVOL	00010	0000189F	03244	03354	03354																						
VOLLST	00001	00000446	01244	01241	01242	01248																					
VOL00	00001	00000290	01062	01073																							
VOL00A	00004	000002BE	01075	01072																							
VPASSWD	00011	00001869	03238	03302	03302																						
VPSPCAL	00010	00001953	03261	03360	03360																						
VPSPCUS	00007	0000195D	03262	03362	03362																						
VRACF	00008	00001874	03239	03304	03304																						
VRECFM	00008	00001807	03228	03292	03292																						
VREFDT	00010	00001821	03231	03288	03288																						
VREFDTC	00011	0000185E	03237	03352	03352																						
VREFDTJ	00011	0000183F	03234	03340	03340																						
VRSCODE	00009	000017B5	03219	03278	03278																						
VSSPC	00008	0000187C	03240	03320	03320																						
VSSPCNM	00010	00001884	03241	03328	03328																						
VTKAL	00012	000018D9	03250	03326	03326																						
VTKUS	00011	000018E5	03251	03322	03322																						
VTKUUS	00013	000018F0	03252	03330	03330																						
VTRKLEN	00009	000018BC	03247	03342	03342																						
VTTCC	00010	000018B2	03246	03334	03334																						
VUNIT	00007	0000188E	03242	03318	03318																						
VUNITCAP	00010	000018CF	03249	03344	03344																						
VVOL	00009	000017D2	03222	03316	03316																						
VVOLLST	00010	00001964	03263	03364	03364																						
WRPW	00001	00000AC2	01980	01974																							
WSAREA	00001	00000000	06588	07002																							
WSAREAE	00001	00000864	07001	07002																							
WSAREAL	00001	00000864	07002	00763	02571																						
WSDSECT	00001	00000000	06587	00769																							
Y2KWIN	00004	000017A8	03211	02984																							
ZEROCL11	00011	0000177B	03198	02012	02014	02015	02039	02041	02042	02066	02068	02069															

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19
=256X'40'					
	00001	00001588	03116	00891	
=C'LOCATE'					
	00008	00001688	03117	01202	
=8X'FF'	00001	00001690	03118	02330	
=CL8'SYSALLDA'					
	00008	00001698	03119	02848	
=F'0'	00004	000016A0	03120	00826	
=F'00'	00004	000016A4	03121	01161	
=F'16'	00004	000016A8	03122	01204	01265 01277 01282 02601 02606 02611 02616 02751
=F'1'	00004	000016AC	03123	01505	01905
=C'NONE'	00004	000016B0	03124	01996	
=C'RACF'	00004	000016B4	03125	01999	
=X'0000FFFF'					
	00004	000016B8	03126	02109	
=F'04'	00004	000016BC	03127	02206	02285 02401 02467
=F'31'	00004	000016C0	03128	02350	
=F'4'	00004	000016C4	03129	02593	
=F'8'	00004	000016C8	03130	02595	
=F'12'	00004	000016CC	03131	02597	
=F'4004'	00004	000016D0	03132	02622	
=F'4005'	00004	000016D4	03133	02638	
=F'4008'	00004	000016D8	03134	02654	
=F'4009'	00004	000016DC	03135	02670	
=F'4010'	00004	000016E0	03136	02686	
=F'4097'	00004	000016E4	03137	02702	
=F'4098'	00004	000016E8	03138	02718	
=F'4099'	00004	000016EC	03139	02734	
=F'18'	00004	000016F0	03140	03082	
=C'00'	00002	000016F4	03141	00825	00828 01162
=H'4'	00002	000016F6	03142	00873	
=C'99'	00002	000016F8	03143	01160	
=C'05'	00002	000016FA	03144	01203	
=C'16'	00002	000016FC	03145	01205	01266 01278 01283 02602 02607 02612 02617 02752
=X'0001'	00002	000016FE	03146	01259	
=X'0000'	00002	00001700	03147	01261	
=C'19'	00002	00001702	03148	01264	
=C'26'	00002	00001704	03149	01276	
=C'06'	00002	00001706	03150	01281	
=H'0'	00002	00001708	03151	01502	
=C'DSORG Type'					
	00010	0000170A	03152	01728	
=C'DeviceType'					
	00010	00001714	03153	02145	
=C'PO'	00002	0000171E	03154	02195	
=C'02'	00002	00001720	03155	02205	02466
=C'04'	00002	00001722	03156	02207	02286 02402 02468
=C'13'	00002	00001724	03157	02284	02400
=X'9000'	00002	00001726	03158	02520	
=C'21'	00002	00001728	03159	02600	
=C'22'	00002	0000172A	03160	02605	
=C'24'	00002	0000172C	03161	02610	
=C'23'	00002	0000172E	03162	02615	
=C'29'	00002	00001730	03163	02750	
=C'??'	00002	00001732	03164	02954	

SYMBOL	LEN	VALUE	DEFN	REFERENCES	ASM 0201 17.21 05/18/19
=H'59'	00002	00001734	03165	03009	
=P'100'	00002	00001736	03166	03013	
=P'400'	00002	00001738	03167	03016	
=H'2'	00002	0000173A	03168	03026	
=C'001'	00003	0000173C	03169	01302	
=C'1'	00001	0000173F	03170	01327	
=C'2'	00001	00001740	03171	01365	
=C'3'	00001	00001741	03172	01404	
=C'4'	00001	00001742	03173	01440	
=C'CYL'	00003	00001743	03174	01897	
=C'TRK'	00003	00001746	03175	01912	
=C'ABS'	00003	00001749	03176	01927	
=C'BLK'	00003	0000174C	03177	01936	
=C'NONE'					
	00005	0000174F	03178	01978	
=C'WRITE'					
	00005	00001754	03179	01981	
=C'R_W'					
	00005	00001759	03180	01984	
=X'000000'					
	00003	0000175E	03181	02018 02045 02072	
=P'+0'	00001	00001761	03182	02495	
=P'+3'	00001	00001762	03183	02524	
=P'+4'	00001	00001763	03184	02526	
=P'+1'	00001	00001764	03185	02545	
=P'0'	00001	00001765	03186	03014 03017	

ASM 0201 17.21 05/18/19

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 3591

TOTAL RECORDS READ FROM SYSTEM LIBRARY 11737

TOTAL RECORDS PUNCHED 158

TOTAL RECORDS PRINTED 7707

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	20C4								

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

TOTAL LENGTH 20C8
***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 DS(x) DF(n) LB1001b

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. NOTE: Last Referenced Date is updated when file open. 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 (?).

))DS - optional, date separator to be used for dates LB1001a
Note: default value is DS(S) slash LB1001a

DS(D) use dash (-) LB1001a

DS(P) use period (.) LB1001a

DS(S) use slash (/) DEFAULT LB1001a

))DF - optional, date format layout for MDY type dates LB1001b

Note: default value is DF(3) YYYY_MM_DD LB1001b

DF(1) use date format MM_DD_CCYY LB1001b

DF(2) use date format DD_MM_CCYY LB1001b

DF(3) use date format YYYY_MM_DD DEFAULT LB1001b

DF(4) use date format YYYY_DD_MM LB1001b

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.
/* https://ShareABitOfIT.net/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
/* MODIFIED VERSIONS IN ADDITION TO SHARING ANY CODE AND ASSOCIATED
```

```
/* COMMENTS THAT CAN BE INCOPORATED INTO A SUBSEQUENT RELEASE */
/* (GIVING CREDIT TO CONTRIBUTOR) IMPROVING OVERALL FUNCTIONALITY */
/* AND FURTHER BENEFITING THE MVS 3.8J HOBBYIST PUBLIC DOMAIN */
/* COMMUNITY. */
/*
/*
/*
/* CHANGE HISTORY:
/* -----
/* MM/DD/CCYY VERSION NAME / DESCRIPTION
/* 04/29/2019 1.0.00 LARRY BELMONTES JR.
/* INITIAL VERSION RELEASED TO MVS 3.8JHOBBYIST
/* PUBLIC DOMAIN
/*
/*
/******
```

```
SET L00 =&STR(--- CLISTDSJ LIST TYPE '&LTYP')
```

```
/******
/* PRINT SOME LINES AND PRMS CONTENT */
/******
IF &LTYP EQ X THEN -
  DO
    WRITE
    WRITE *****
    IF &LENGTH(&PRMS) > 0 THEN -
      DO
        WRITE * * * &PRMS
        WRITE *****
      END
    WRITE
    GOTO ENDIT
  END
```

```
/******
/* CHECK FOR VALID LIST TYPES */
/******
IF &LTYP GE 1 AND &LTYP LE 3 THEN -
  WRITE &L00
ELSE -
  DO
    WRITE &L00
    WRITE LIST TYPE '&LTYP' IS INVALID
    WRITE 1 - LIST OF SYMBOLICS AND VALUES
    WRITE 2 - LIST OF ARRANGED SYMBOLICS AND VALUES
    WRITE 3 - LIST OF TITLES AND VALUES (3270-LIKE)
    GOTO ENDIT
  END
```

```
/******
/* 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 SYMSGGLVL1='&SYMSGGLVL1'  
WRITE &WLINE  
SET WLINE = &STR(SYSREASON='&SYSREASON')  
SET WLINE = &STR(&WLINE SYMSGGLVL2='&SYMSGGLVL2'  
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 = '1974/07/13'

16. SYSREFDATE = '2019/138'

17. SYSJREFDATE = '19138'

18. SYSCREFDATE = '2019/05/18'

19. SYSEXDATE = '0000/000'

20. SYSJEXDATE = '00000'

21. SYSCEXDATE = '0000/00/00'

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. SYMSGVLV1 = 'SUCCESSFUL REQUEST'

34. SYMSGVLV2 = '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='19138'
SYSCREATE='1974/194' SYSEXDATE='0000/000' SYSREFDATE='2019/138'
SYSCCREATE='1974/07/13' SYSCEXDATE='0000/00/00' SYSCREFDATE='2019/05/18'
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     ='1974/07/13'
```

```
16. SYSREFDATE     ='2019/138'
```

```
17. SYSJREFDATE    ='19138'
```

```
18. SYSCREFDATE    ='2019/05/18'
```

```
19. SYSEXDATE      ='0000/000'
```

```
20. SYSJEXDATE     ='00000'
```

```
21. SYSCEXDATE     ='0000/00/00'
```

```
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. SYMSGVLVL1     ='SUCCESSFUL REQUEST'
```

```
34. SYMSGVLVL2     ='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 1974/07/13  EXPDT 0000/00/00  REFDT 2019/05/18  CATL: Y
    74194 1974/194    00000 0000/000    19138 2019/138  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
*****
```

```

--- CLISTDSJ LIST TYPE '1'

```

00.	SYSDSNAME	= '??'
01.	SYSLISTDSJMSG	= 'LISTDSJ MVS3.8J V1.0.01 05182019 05/18/19 - 17.21'
02.	SYSVOLUME	= '??????'
03.	SYSUNIT	= '??????'
04.	SYSDSORG	= '???'
05.	SYSRECFM	= '?????'
06.	SYSLRECL	= '?????'
07.	SYSBLKSIZE	= '?????'
08.	SYSKEYLEN	= '???'
09.	SYSKEYPOS	= '?????'
10.	SYSSECONDS	= '???????
11.	SYSUNITS	= '???'
12.	SYSEXTENTS	= '???'
13.	SYSCREATE	= '????????'
14.	SYSJCREATE	= '?????'
15.	SYSCCCREATE	= '??????????'
16.	SYSREFDATE	= '????????'
17.	SYSJREFDATE	= '?????'
18.	SYSCREFDATE	= '??????????'
19.	SYSEXDATE	= '????????'
20.	SYSJEXDATE	= '?????'
21.	SYSCEXDATE	= '??????????'
22.	SYPASSWORD	= '?????'
23.	SYSRACFA	= '?????'
24.	SYSTRKSCYL	= '?????'
25.	SYSTRKLEN	= '?????'
26.	SYSBLKSTRK	= '?????'
27.	SYSADIRBLK	= '?????'
28.	SYSUDIRBLK	= '?????'
29.	SYSNUDIRBLK	= '?????'
30.	SYSMEMBERS	= '?????'
31.	SYSMEMBERSALIAS	= '?????'
32.	SYSREASON	= '99'
33.	SYSMSGLVL1	= 'SUCCESSFUL REQUEST'
34.	SYSMSGLVL2	= 'ABOUT REQUEST, NO DSN INFO RETRIEVED'
35.	SYSCYLVOL	= '?????'
36.	SYSTRKSALLOC	= '?????'
37.	SYSTRKSUSED	= '?????'
38.	SYSTRKSUNUSED	= '?????'
39.	SYSUNITCAP	= '????????????????'
40.	SYSNUMVOLS	= '???'
41.	SYSDSCAT	= '?'
42.	SYSDSCATV	= '??????'
43.	SYSPRIMARY	= '?????'
44.	SYSUSED	= '?????'
45.	SYSVOLUMES	= '????????????????????????????????????'
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

