 X390 3.1.04 2010/06/11 16.24

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


Options for this Assembly       Source
-------------------------       --------------------------------
  AControl(ALign,NoLibMac)      (default)
NoAData                         (default)
  AdataLevel(5)                 (default)
NoCompaT                        (default)
  DXref                         (default)
NoEsd                           Command Line
  Flag(0,ALign,ConT,EXlitw,NoImpLen,PUsh,ReCord,NoSUbstr,Using0,NoPage0,NoBrpage0,NoREnt,UsingDup,UsingZero,UsingMult,Ra
2,HLasm,NoTRunc,NoIndeX)        (default)
NoFOld                          (default)
  IDR('X390ASM   3104')         (default)
NoINFO                          Command Line
  LAnguage(EN)                  (default)
  LineCount(101)                Command Line
  List(121)                     (default)
  MsgLevel(0,0)                 Command Line
  MXref(Source)                 (default)
  Object(Omf)                   Command Line
  OPtable(Uni,NoList)           (default)
  PARM(LOAD,ASA,SZ(3M),LC(101),NE,NOINFO,ML(0,0),XREF(SHORT),NRL)
                                Command Line
NoPControl                      (default)
  PRintctl(Asa)                 //DDN:SYSPRINT
  ProcesS(NoBatch,NoDbcs,NoPestop,Thread,NoWarn0)
                                (default)
NoProFile                       (default)
NoRLd                           Command Line
  RXref(NoCr,Gr,NoFr)           (default)
  SiZe(3145728)                 Command Line
NoSUppress                      (default)
  SysadatA(//DDN:SYSADATA)      Command Line
  SysLib(//DDN:SYSLIB)          Command Line
  SysliN(//DDN:SYSGO)           Command Line
NoSysParm                       (default)
  SysprinT(//DDN:SYSPRINT)      Command Line
  SyspuncH(//DDN:SYSPUNCH)      Command Line
  SystemId('MVS 3.8')           (default)
  SysterM(1)                    Command Line
  Sysut1(//DDN:SYSUT1)          Command Line
  Sysut2(//DDN:SYSUT2)          Command Line
  Sysut3(//DDN:SYSUT3)          Command Line
  Term(Outer,Inner)             (default)
NoTEst                          (default)
  TypeCheck(Magnitude,Register) (default)
NoUsingLimit                    (default)
  UsingMap                      (default)
  Xref(Short)                   Command Line


DDNAMEs     File/Data Set Names
--------    -------------------
SYSIN       SYSD.TOOLS.ASM(INITOBJ)
SYSLIB      SYS1.MACLIB
            SYS1.AMODGEN
            SYSD.TOOLS.MACLIB
SYSGO       SYS10162.T162416.RA000.T1IO.OBJECT
SYSPRINT    JES2.JOB01179.SO0102
SYSTERM     JES2.JOB01179.SO0103
SYSUT1      SYS10162.T162416.RA000.T1IO.R0000001
SYSUT2      SYS10162.T162416.RA000.T1IO.R0000002
SYSUT3      SYS10162.T162416.RA000.T1IO.R0000003
```

```
                                    2 *                                                                   00000200
                                    3 *       Function                                                    00000300
                                    4 *       --------                                                    00000400
                                    5 *       INITOBJ reads an object file output from the assembler      00000500
                                    6 *       and creates additional TXT records to initialize all        00000600
                                    7 *       undefined areas of the Csects to the specified Fill         00000700
                                    8 *       Character.                                                  00000800
                                    9 *                                                                   00000900
                                   10 *       Whilst uninitialized DS variables are a programming         00001000
                                   11 *       practice best not used unfortunately it is a fact of        00001100
                                   12 *       life for some old legacy programs. The result is that       00001200
                                   13 *       the unitialized DS ends up with random contents of the      00001300
                                   14 *       linkage editor buffers. Versions of the Linkage Editor,     00001400
                                   15 *       later than distributed in MVS 3.8, initialized the          00001500
                                   16 *       buffers to x'00' so the uninitialized variables would be    00001600
                                   17 *       set to x'00'. The Binder took this concept further and      00001700
                                   18 *       introduced the Fill character so that the buffers may be    00001800
                                   19 *       initialized to this character. By changing the Fill         00001900
                                   20 *       Character and rebinding the object then it is possible      00002000
                                   21 *       to test for any dependence on uninitialized variables.      00002100
                                   22 *       None of these options are available in the MVS 3.8          00002200
                                   23 *       environment so INITOBJ has been writen to provided the      00002300
                                   24 *       same Fill Character function as the Binder. No changes      00002400
                                   25 *       are made to the Linkage Editor as this program functions    00002500
                                   26 *       as a pre-processor to the Linkage Editor.                   00002600
                                   27 *                                                                   00002700
                                   28 *       Operation                                                   00002800
                                   29 *       ---------                                                   00002900
                                   30 *       INITOBJ runs as batch program following an assembly and     00003000
                                   31 *       processes the object records produced by the Assembler.     00003100
                                   32 *       Additional TXT records are inserted to initialize any       00003200
                                   33 *       areas of the Csects left uninitialized. These areas are     00003300
                                   34 *       initialized to the default value of x'00' unless this       00003400
                                   35 *       value has been overridden by specifying an optional Parm    00003500
                                   36 *       of 'FILL=XX' where XX becomes the Fill Character            00003600
                                   37 *       replacing x'00'.                                            00003700
                                   38 *                                                                   00003800
                                   39 *       The generated TXT records are marked with the default       00003900
                                   40 *       or specified Fill Character in bytes 73-74.                 00004000
                                   41 *                                                                   00004100
                                   42 *       A WTO is generated for each Csect that has had              00004200
                                   43 *       additional TXT records generated. The number of TXT         00004300
                                   44 *       records and the total number of bytes inserted are          00004400
                                   45 *       listed in the WTO.                                          00004500
                                   46 *                                                                   00004600
                                   47 *       In addition, if a Fill Character was provided, via a JCL    00004700
                                   48 *       Parm, then a Linkage Editor IDENTIFY record is inserted     00004800
                                   49 *       into the output dataset identifying each Csect that has     00004900
                                   50 *       been modified and the Fill Char used.                       00005000
                                   51 *                                                                   00005100
                                   52 *       All Csects are rounded up to a double word boundary.        00005200
                                   53 *       The additional bytes are set to the default or specified    00005300
                                   54 *       Fill Character. This assists in identifying storage         00005400
                                   55 *       overlay problems as the majority of Csects do not end on    00005500
                                   56 *       a double word boundary and therefore have random data       00005600
                                   57 *       at the end of the Csect after Linkage Editor processing.    00005700
                                   58 *                                                                   00005800
                                   59 *       Note that only named Csects are processed. Private Code (PC)00005902
                                   60 *       is not processed.                                           00006002
                                   61 *                                                                   00006103
                                   62 *       Invoking INITOBJ                                            00006200
                                   63 *       ----------------                                            00006300
                                   64 *       // EXEC PGM=INITOBJ,PARM='FILL=xx'   <--- Optional Parm    00006400
                                   65 *          where xx is the hex value to be used as the Fill         00006500
                                   66 *          Character                                                00006600
                                   67 *       //SYSUT1 DD DSN=input object dataset from Assembler        00006700
                                   68 *       //SYSUT2 DD DSN=output object dataset to Linkage Editor    00006802
                                   69 *       //REPORT DD SYSOUT=*  optional DD for detailed report on   00006902
                                   70 *                             un-initialized areas                  00007002
                                   71 *                                                                   00007102
                                   72 *       For SYSUT2 any BLKSIZE, a multiple of 80 is acceptable,     00007200
                                   73 *       but be aware of the unmodified Linkage Editor               00007300
                                   74 *       restriction of 3200 bytes.                                  00007400
                                   75 *                                                                   00007500
                                   76 *       Updating the ASMFCL and ASMFCLG cataloged procedures by     00007600
                                   77 *       inserting the INITOBJ JCl as an additional step between     00007700
                                   78 *       the Assembly and the Linkage Editor step is generally       00007800
                                   79 *       the most convenient way of running INITOBJ to process       00007900
                                   80 *       the object output from the Assembly.                        00008000
                                   81 *                                                                   00008100
                                   82 *       Assembler Environment                                       00008200
                                   83 *       ---------------------                                       00008300
                                   84 *       This module requires the HLASM or the Tachyon Legacy        00008400
                                   85 *       Assembler for successful assembly.                          00008500
                                   86 *                                                                   00008600
                                   87 *       Installation                                                00008700
                                   88 *       ------------                                                00008800
                                   89 *       Assemble the module and link edit it into a load library.   00008900
                                   90 *                                                                   00009000
                                   91 *       Attributes                                                  00009100
                                   92 *       ----------                                                  00009200
                                   93 *       This module is reuseable and reenterant.                    00009300
                                   94 *                                                                   00009406
                                   95 *       Change Log                                                  00009506
                                   96 *       ----------                                                  00009606
                                   97 *       02Jun2010 ESDID incorrectly incremented for ESD types       00009706
```

Active USINGs: None

```
Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

                                   98 *                 LD,ER and WX                                                00009806
                                   99 *        11Jun2010 ESDID not incremented for ESD types ER and WX              00009908
                                  100 *                                                                             00010006
                                  101 *        Maximum number of ESD Entries                                        00010103
                                  102 *        ----------------------------                                         00010203
                                  103 &MAXESD  SETC  '1024'                 Maximum number of ESD Entries          00010301
                                  104 *                                                                             00010401
000000                 00000 00C86  105 INITOBJ  CSECT                                                            00010502
                                  106 *                                                                             00010602
                 R:A   00000      107          USING *,R10                                                         00010702
                                  108 *                                                                             00010802
                                  109          SAVE  (14,12),,'INITOBJ Ver 1.08 &SYSDATE &SYSTIME'                 00010909
000000 47F0 F024           00024  110+         B     36(0,15)                    BRANCH AROUND ID          01-SAVE
000004 1F                         111+         DC    AL1(31)                     LENGTH OF IDENTIFIER      01-SAVE
000005 C9D5C9E3D6C2D140           112+         DC    CL8'INITOBJ '               IDENTIFIER                01-SAVE
00000D E5859940F14BF0F8           113+         DC    CL8'Ver 1.08'               IDENTIFIER                01-SAVE
000015 40F0F661F1F161F1           114+         DC    CL8' 06/11/1'               IDENTIFIER                01-SAVE
00001D F040F1F64BF2F4             115+         DC    CL7'0 16.24'                IDENTIFIER                01-SAVE
000024 90EC D00C           0000C  116+         STM   14,12,12(13)                SAVE REGISTERS            01-SAVE
                                  117 *                                                                             00011002
000028 18AF                       118          LR    R10,R15               Establish Addressability              00011104
00002A 1891                       119          LR    R9,R1                 Use R9 to save the parm for           00011203
                                  120 *                                     later processing                      00011302
                                  121 *                                                                           00011402
                                  122 *        GETMAIN and clear the SAVEAREA/WORKAREA                            00011502
                                  123 *                                                                           00011602
                                  124          GETMAIN R,LV=WORKAREAL      GETMAIN SAVEAREA/WORKAREA             00011702
                                  125+*      OS/VS2 RELEASE 4 VERSION -- 10/21/75                                 01-GETMA
00002C                            126+         CNOP  0,4                                                         01-GETMA
00002C 4510 A034           00034  127+         BAL   1,*+8                       BRANCH AROUND LENGTH    01-GETMA
000030 000083BC                   128+         DC    A(WORKAREAL)                LENGTH                  01-GETMA
000034 5800 1000           00000  129+         L     0,0(0,1)                    LOAD LENGTH             01-GETMA
000038 0A0A                       130+         SVC   10                          ISSUE GETMAIN SVC       01-GETMA
                                  131 *                                                                           00011802
00003A 1841                       132          LR    R4,R1                 R4  -> GETMAINED AREA                 00011902
00003C 1850                       133          LR    R5,R0                 R5  -  L'GETMAINED AREA               00012002
00003E 1BFF                       134          SR    R15,R15               Zero Pad Byte and L'Source            00012102
000040 0E4E                       135          MVCL  R4,R14                Zero GETMAINED Area                   00012202
000042 5010 D008           00008  136          ST    R1,8(,R13)            Chain SAVEAREAs                       00012302
000046 50D0 1004           00004  137          ST    R13,4(,R1)                                                  00012402
00004A 18D1                       138          LR    R13,R1                                                      00012502
                                  139 *                                                                           00012602
                                  140 *        Initialize GETMAINed WORKAREA                                      00012702
                                  141 *                                                                           00012800
                   R:D   00000    142          USING WORKAREA,R13          Establish addressability              00012900
                   R:9   00000    143          USING ESDENT,R9             For processing ESD Entries            00013000
                   R:8   00000    144          USING CSD,R8                Control for each SD                   00013100
                 D 15C   00000 0015C  145          USING IHADCB,SYSUT1         DCB                                   00013200
                 D 27C   00000 0027C  146          USING ESDREC,RECIN          Input ESD Record                      00013300
                 D 27C   00000 0027C  147 IN       USING TXTREC,RECIN          Input TXT Record                      00013400
                 D 2CC   00000 002CC  148 OUT      USING TXTREC,GENREC         Output TXT Record                     00013500
                                  149 *                                                                           00013600
                                  150 *        Scan the TIOT for optional REPORT DD statement                     00013702
                                  151 *                                                                           00013802
000050 5820 021C           0021C  152          L     R2,PSATOLD-PSA        Get Addr of TCB                       00013902
000050 5840 200C           0000C  153          L     R4,TCBTIO-TCB(,R2)    Get Addr of TIOT                      00014002
                   R:4   00000    154          USING TIOT1,R4                                                      00014102
000054 1B22                       155          SR    R2,R2                 Zero TIOT Entry Length Reg            00014202
                          00056    156 SCANTIOT EQU   *                                                         00014302
000056 BF21 4018           00018  157          ICM   R2,B'0001',TIOELNGH   Load TIOT Entry Length                 00014402
00005A 4780 A078           00078  158          BZ    SCANTIOTX             End of TIOT found                     00014502
00005E D507 A98D 401C 0098D 0001C 159          CLC   REPORTDD,TIOEDDNM     TIOT Entry for REPORT ?               00014602
000064 4780 A06E           0006E  160          BE    SCANTIOTA             Yes                                   00014702
000068 1A42                       161          AR    R4,R2                 Point to next TIOT Entry              00014802
00006A 47F0 A056           00056  162          B     SCANTIOT                                                    00014902
                                  163 *                                                                           00015002
                                  164          DROP  R4                                                          00015102
                                  165 *                                                                           00015202
                                  166 *        REPORT DD found in TIOT                                            00015302
                                  167 *                                                                           00015402
                          0006E    168 SCANTIOTA EQU  *                                                         00015502
00006E 92F1 D084           00084  169          MVI   REPREQ,C'1'           Turn on Report Requested Flag         00015602
000072 F810 D085 AC84 00085 00C84 170          ZAP   REPPN,=P'0'           Initialize Page Number                00015703
                          00078    171 SCANTIOTX EQU  *                                                         00015802
000078 D25F D15C A9A8 0015C 009A8 172          MVC   SYSUT1(SYSUT1L),MODELUT1  Move SYSUT1 DCB to workarea       00015900
00007E D25F D1BC AA08 001BC 00A08 173          MVC   SYSUT2(SYSUT2L),MODELUT2  Move SYSUT2 DCB to workarea       00016000
000084 D25F D21C AA68 0021C 00A68 174          MVC   REPORT(REPORTL),MODELREP  Move REPORT DCB to workarea        00016102
00008A 4110 A426           00426  175          LA    R1,SYSUT1EOD                                                00016200
00008E BE17 D17D           00021  176          STCM  R1,B'0111',DCBEODA      Store addr of EOD Routine in DCB      00016300
000092 9200 D080           00080  177          MVI   FILLCHAR_X,X'00'        Init FILLCHAR with default 00         00016400
000096 D201 D081 AC78 00081 00C78 178          MVC   FILLCHAR_C,=C'00'                                           00016500
00009C D26B D0F0 AAC8 000F0 00AC8 179          MVC   WTOMSGWA(WTOMSGWAL),MODELWTO                                00016600
0000A2 9240 D2CC           002CC  180          MVI   GENREC,C' '             Blank Generated .TXT Record           00016700
0000A6 D24E D2CD D2CC 002CD 002CC 181          MVC   GENREC+1(L'GENREC-1),GENREC                                  00016800
0000AC D203 D2CC A99D 002CC 0099D 182          MVC   GENREC(L'TXT),TXT       Move in .TXT header                   00016900
                                  183 *                                                                           00017000
                                  184 *        Validate Parm                                                      00017100
                                  185 *                                                                           00017200
0000B2 5890 9000           00000  186          L     R9,0(,R9)               Point to Parm                       00017303
0000B6 4110 9002           00002  187          LA    R1,2(,R9)               -> parm data                        00017403
0000BA 4820 9000           00000  188          LH    R2,0(,R9)               Get length of parm                  00017503
0000BE 1222                       189          LTR   R2,R2                   Was a parm provided ?               00017600
0000C0 4770 A0D4           000D4  190          BNZ   PPROCA                  Yes, go process it                  00017700
                                  191 *                                                                           00017800
                                  192 *        No Parm provided, issue WTO and run with default                   00017900
                                  193 *                                                                           00018000
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

0000C4 92F1 D083      00083         194          MVI   FILLDEFT,C'1'           Set no Fill Char Provided        00018100
0000C8 4110 A728            00728   195          LA    R1,MSG1                 -> Error Msg                     00018200
0000CC 45E0 A6BE            006BE   196          BAL   R14,WTOMSGR            WTO routine                      00018303
0000D0 47F0 A110            00110   197          B     OPENDS                                                   00018400
                                    198 *                                                                       00018500
                                    199 *        Process Parm                                                   00018600
                                    200 *                                                                       00018700
                      000D4         201 PPROCA   EQU   *                                                       00018800
0000D4 4920 AC7A            00C7A   202          CH    R2,=AL2(L'FILL+2)       Parm correct length ?            00018900
0000D8 4770 A108            00108   203          BNE   PPROCB                  No, Error msg                    00019000
0000DC D504 A988 1000 00988 00000   204          CLC   FILL,0(R1)              'FILL='                          00019100
0000E2 4770 A108            00108   205          BNE   PPROCB                  No, Error Msg                    00019200
                                    206 *                                                                       00019300
                                    207 *        Convert EBCDIC to Hex to set Fill Char                         00019400
                                    208 *                                                                       00019500
0000E6 D201 D081 1005 00081 00005   209          MVC   FILLCHAR_C,L'FILL(R1)   Save for use in later IDENTIFY   00019600
0000EC D201 D070 1005 00070 00005   210          MVC   CHAR16(2),L'FIll(R1)    Move into a workarea             00019700
0000F2 DC01 D070 AB34 00070 00B34   211          TR    CHAR16(2),TRTAB         Translate to hex nibbles         00019800
0000F8 F100 D080 D070 00080 00070   212          MVO   FILLCHAR_X,CHAR16(1)    Move hi-order 4 bits into Fill   00019900
0000FE D100 D080 D071 00080 00071   213          MVN   FILLCHAR_X(1),CHAR16+1  Move low-order 4 bits into Fill  00020000
000104 47F0 A110            00110   214          B     OPENDS                                                   00020100
                                    215 *                                                                       00020200
                                    216 *        Invalid Parm                                                   00020300
                                    217 *                                                                       00020400
000108 4110 A75E            0075E   218 PPROCB   LA    R1,MSG2                 -> Error Msg                     00020500
00010C 45E0 A6BE            006BE   219          BAL   R14,WTOMSGR             WTO Routine                      00020603
                                    220 *                                                                       00020700
                                    221 *        Open the datasets and print optional REPORT heading            00020803
                                    222 *                                                                       00020900
                      00110         223 OPENDS   EQU   *                                                       00021000
000110 95F1 D084      00084         224          CLI   REPREQ,C'1'             Report Requested ?               00021102
000114 4770 A174            00174   225          BNE   OPENDSA                 No, Branch                       00021202
                                    226 *                                                                       00021302
000118 9680 D050      00050         227          OI    OCLIST+8,X'80'          Terminate O/C List               00021406
                                    228 *                                                                       00021506
                                    229          OPEN  (SYSUT1,(INPUT),SYSUT2,(OUTPUT),REPORT,(OUTPUT)),       X00021602
                                                       MF=(E,OCLIST)                                            00021702
00011C 4110 D048            00048   230+         LA    1,OCLIST                        LOAD PARAMETER REG 1   02-IHBIN
000120 43E1 0000            00000   231+         IC    14,0(1,0)                       SAVE OPTION BYTE       01-OPEN
000124 4100 D15C            0015C   232+         LA    0,SYSUT1                        PICK UP DCB ADDRESS    01-OPEN
000128 5001 0000            00000   233+         ST    0,0(1,0)                        STORE INTO LIST        01-OPEN
00012C 42E1 0000            00000   234+         STC   14,0(1,0)                       RESTORE OPTION BYTE    01-OPEN
000130 94F0 1000      00000         235+         NI    0(1),X'F0'                      CLEAR OPT 1 BITS       01-OPEN
000134 43E1 0004            00004   236+         IC    14,4(1,0)                       SAVE OPTION BYTE       01-OPEN
000138 4100 D1BC            001BC   237+         LA    0,SYSUT2                        PICK UP DCB ADDRESS    01-OPEN
00013C 5001 0004            00004   238+         ST    0,4(1,0)                        STORE INTO LIST        01-OPEN
000140 42E1 0004            00004   239+         STC   14,4(1,0)                       RESTORE OPTION BYTE    01-OPEN
000144 94F0 1004      00004         240+         NI    4(1),X'F0'                      CLEAR OPT 1 BITS       01-OPEN
000148 960F 1004      00004         241+         OI    4(1),15                         INSERT OPT 1 BITS      01-OPEN
00014C 94F0 1008      00008         242+         NI    8(1),X'F0'                      CLEAR OPTION 1 BITS    01-OPEN
000150 960F 1008      00008         243+         OI    8(1),15                         INSERT OPTION BITS     01-OPEN
000154 43E1 0008            00008   244+         IC    14,8(1,0)                       SAVE OPTION BYTE       01-OPEN
000158 4100 D21C            0021C   245+         LA    0,REPORT                        PICK UP DCB ADDRESS    01-OPEN
00015C 5001 0008            00008   246+         ST    0,8(1,0)                        STORE INTO LIST        01-OPEN
000160 42E1 0008            00008   247+         STC   14,8(1,0)                       RESTORE OPTION BYTE    01-OPEN
000164 0A13                         248+         SVC   19                              ISSUE OPEN SVC         01-OPEN
                                    249 *                                                                       00021800
000166 12FF                         250          LTR   R15,R15                 OPEN successful ?                00021905
000168 4770 A1AA            001AA   251          BNZ   OPENDSB                                                  00022005
00016C 45E0 A6EA            006EA   252          BAL   R14,REPHEAD             Report Heading routine           00022103
000170 47F0 A1C0            001C0   253          B     PROCESS                                                  00022205
                                    254 *                                                                       00022302
                      00174         255 OPENDSA  EQU   *                                                       00022402
000174 9680 D04C      0004C         256          OI    OCLIST+4,X'80'          Terminate O/C List               00022505
                                    257 *                                                                       00022602
                                    258          OPEN  (SYSUT1,(INPUT),SYSUT2,(OUTPUT)),MF=(E,OCLIST)           00022702
000178 4110 D048            00048   259+         LA    1,OCLIST                        LOAD PARAMETER REG 1   02-IHBIN
00017C 43E1 0000            00000   260+         IC    14,0(1,0)                       SAVE OPTION BYTE       01-OPEN
000180 4100 D15C            0015C   261+         LA    0,SYSUT1                        PICK UP DCB ADDRESS    01-OPEN
000184 5001 0000            00000   262+         ST    0,0(1,0)                        STORE INTO LIST        01-OPEN
000188 42E1 0000            00000   263+         STC   14,0(1,0)                       RESTORE OPTION BYTE    01-OPEN
00018C 94F0 1000      00000         264+         NI    0(1),X'F0'                      CLEAR OPT 1 BITS       01-OPEN
000190 94F0 1004      00004         265+         NI    4(1),X'F0'                      CLEAR OPTION 1 BITS    01-OPEN
000194 960F 1004      00004         266+         OI    4(1),15                         INSERT OPTION BITS     01-OPEN
000198 43E1 0004            00004   267+         IC    14,4(1,0)                       SAVE OPTION BYTE       01-OPEN
00019C 4100 D1BC            001BC   268+         LA    0,SYSUT2                        PICK UP DCB ADDRESS    01-OPEN
0001A0 5001 0004            00004   269+         ST    0,4(1,0)                        STORE INTO LIST        01-OPEN
0001A4 42E1 0004            00004   270+         STC   14,4(1,0)                       RESTORE OPTION BYTE    01-OPEN
0001A8 0A13                         271+         SVC   19                              ISSUE OPEN SVC         01-OPEN
                                    272 *                                                                       00022800
                      001AA         273 OPENDSB  EQU   *                                                       00022902
0001AA 12FF                         274          LTR   R15,R15                 OPEN successful ?                00023000
0001AC 4780 A1C0            001C0   275          BZ    PROCESS                                                  00023100
0001B0 4110 A78A            0078A   276          LA    R1,MSG3                 R1 -> Error Msg                  00023200
0001B4 45E0 A6BE            006BE   277          BAL   R14,WTOMSGR             WTO Routine                      00023303
0001B8 4190 0010            00010   278          LA    R9,16                   Set Return Code of 16            00023404
0001BC 47F0 A54A            0054A   279          B     ENDPROC                                                  00023500
                                    280 *                                                                       00023600
                                    281 *        Process the Object Dataset                                     00023700
                                    282 *                                                                       00023800
                      001C0         283 PROCESS  EQU   *                                                       00023900
                                    284 *                                                                       00024000
                                    285          GET   SYSUT1,RECIN            Read Object record               00024100
0001C0 4110 D15C            0015C   286+         LA    1,SYSUT1                        LOAD PARAMETER REG 1   02-IHBIN
0001C4 4100 D27C            0027C   287+         LA    0,RECIN                         LOAD PARAMETER REG 0   02-IHBIN
0001C8 58F0 1030            00030   288+         L     15,48(0,1)               LOAD GET ROUTINE ADDR         01-GET
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

0001CC 05EF                          289+         BALR  14,15                 LINK TO GET ROUTINE            01-GET
                                     290 *                                                                     00024200
0001CE D503 A995 D27C 00995 0027C    291          CLC   ESD,RECIN             ESD Record ?                   00024300
0001D4 4780 A208            00208    292          BE    PROCESD               Yes, process ESD               00024400
0001D8 D503 A999 D27C 00999 0027C    293          CLC   RLD,RECIN             RLD Record ?                   00024500
0001DE 4780 A2B0            002B0    294          BE    PROCRLD               Yes, Process RLD               00024600
0001E2 D503 A99D D27C 0099D 0027C    295          CLC   TXT,RECIN             TXT Record ?                   00024700
0001E8 4780 A2B8            002B8    296          BE    PROCTXT               Yes, Process TXT               00024800
0001EC D503 A9A1 D27C 009A1 0027C    297          CLC   END,RECIN             END Record ?                   00024900
0001F2 4780 A32E            0032E    298          BE    PROCEND               Yes, Process END               00025000
                                     299 *                                                                     00025100
                                     300 *        Record type not recognized, write it to SYSUT2               00025200
                                     301 *                                                                     00025300
                     001F6           302 PROCESSW EQU   *                       Return Point after Record      00025403
                                     303 *                                      Processing                     00025500
                                     304          PUT   SYSUT2,RECIN            Write Record to SYSUT2         00025600
0001F6 4110 D1BC            001BC    305+         LA    1,SYSUT2                        LOAD PARAMETER REG 1     02-IHBIN
0001FA 4100 D27C            0027C    306+         LA    0,RECIN                         LOAD PARAMETER REG 0     02-IHBIN
0001FE 58F0 1030            00030    307+         L     15,48(0,1)             LOAD PUT ROUTINE ADDR            01-PUT
000202 05EF                          308+         BALR  14,15                  LINK TO PUT ROUTINE              01-PUT
                                     309 *                                                                     00025700
000204 47F0 A1C0            001C0    310          B     PROCESS               Process next input record      00025800
                                     311 *                                                                     00025900
                                     312 *        Process ESD Records                                          00026000
                                     313 *                                                                     00026100
                     00208           314 PROCESD  EQU   *                                                      00026200
000208 1B22                          315          SR    R2,R2                                                  00026300
00020A BF23 D286            0000A    316          ICM   R2,B'0011',ESDVFC     Get Bytes used in ESD Record   00026400
00020E 8820 0004            00004    317          SRL   R2,4                  Div by 16 to get no. of entries 00026500
000212 4190 D28C            00010    318          LA    R9,ESDVDATA           -> First ESD Entry             00026600
000216 D501 D28A AC7C 0000E 00C7C    319          CLC   ESDESDID,=C'  '       All Items are LD Entries ?     00026703
00021C 4780 A1F6            001F6    320          BE    PROCESSW              Yes, Nothing to process.       00026803
000220 1B33                          321          SR    R3,R3                                                  00026900
000222 BF33 D28A            0000E    322          ICM   R3,B'0011',ESDESDID    Get ESDID of first entry       00027000
                     00226           323 PROCESDA EQU   *                       Loop Through the entries       00027100
000226 9501 9008            00008    324          CLI   ESDTYPE,ESDTYPE_LD    Type LD Entry Point ?          00027205
00022A 4780 A2A4            002A4    325          BE    PROCESDL              Yes, No ESDID is generated     00027305
00022E 9500 9008            00008    326          CLI   ESDTYPE,ESDTYPE_SD    Type SD ?                      00027400
000232 4780 A242            00242    327          BE    PROCESDG              Yes, Process this Entry        00027508
000236 9504 9008            00008    328          CLI   ESDTYPE,ESDTYPE_PC    Type PC ?                      00027608
00023A 4780 A242            00242    329          BE    PROCESDG              Yes, Process this Entry        00027708
00023E 47F0 A2A0            002A0    330          B     PROCESDB              Incr ESDID but no processing   00027808
                                     331 *                                      Yes, Process SD entry          00027900
000242 4110 0400            00400    332 PROCESDG LA    R1,&MAXESD            Maximum number of ESD entries  00028008
                                        +PROCESDG LA    R1,1024               Maximum number of ESD entries  00028008
000246 1931                          333          CR    R3,R1                 Exceeded ?                     00028107
000248 4740 A25C            0025C    334          BL    PROCESDC              No, continue processing        00028203
                                     335 *                                                                     00028303
                                     336 *        Maximum number of ESD Entries exceeded                       00028403
                                     337 *                                                                     00028503
00024C 4110 A81B            0081B    338          LA    R1,MSG6               R1 -> Error Msg                00028604
000250 45E0 A6BE            006BE    339          BAL   R14,WTOMSGR           WTO Routine                    00028703
000254 4190 0010            00010    340          LA    R9,16                 Set Return Code of 16          00028804
000258 47F0 A426            00426    341          B     CLOSEDS               Terminate Program              00028906
                                     342 *                                                                     00029003
                     0025C           343 PROCESDC EQU   *                                                      00029103
00025C 1883                          344          LR    R8,R3                 Get ESD ID                     00029206
00025E 8980 0005            00005    345          SLL   R8,5                  Multiply the ESD Id by 32 L'CSD 00029308
000262 4188 D39C            0039C    346          LA    R8,ESDTAB-CSDL(R8)    Allow for first entry is 1 not 0 00029400
000266 BE33 8000            00000    347          STCM  R3,B'0011',CESDID     Store the ESD ID               00029500
00026A D207 8002 9000 00002 00000    348          MVC   CNAME,ESDXSYMN        Name of SD or Blank for PC     00029608
000270 9504 9008            00008    349          CLI   ESDTYPE,ESDTYPE_PC    ESDID Type PC ?                00029708
000274 4770 A27E            0027E    350          BNE   PROCESDN              No, Branch                     00029808
000278 D207 8002 AC58 00002 00C58    351          MVC   CNAME,=CL8'ESDID PC'   Give PC a name of ESDID PC    00029908
00027E 1B11                          352 PROCESDN SR    R1,R1                                                  00030008
000280 BF17 900D            0000D    353          ICM   R1,B'0111',ESDLEN     Get len of ESD                 00030100
000284 5A10 AC68            00C68    354          A     R1,=F'7'              Round up to double word to     00030200
000288 5410 AC6C            00C6C    355          N     R1,=X'00FFFFF8'       prevent trash at end of SD or PC 00030308
00028C 5010 800C            0000C    356          ST    R1,CLEN                                              00030400
000290 BE17 900D            0000D    357          STCM  R1,B'0111',ESDLEN     Update rounded len in ESD record 00030500
000294 BF17 9009            00009    358          ICM   R1,B'0111',ESDADDR    Get Rel Starting Addr          00030600
000298 5010 8010            00010    359          ST    R1,CPTR               Set Ptr to Relative Addr of SD 00030700
00029C 5010 8014            00014    360          ST    R1,CSLOC              Save Starting Addr of SD or PC 00030808
                                     361 *                                      to use to calc filling out Csect 00030908
                     002A0           362 PROCESDB EQU   *                                                      00031000
0002A0 4130 3001            00001    363          LA    R3,1(,R3)             Increment ESD ID for possible  00031100
                                     364 *                                      next entry                     00031200
                     002A4           365 PROCESDL EQU   *                                                      00031305
0002A4 4190 9010            00010    366          LA    R9,ESDENTL(,R9)       -> to possible next ESD Entry  00031400
                                     367 *                                      in ESD Table                   00031506
0002A8 4620 A226            00226    368          BCT   R2,PROCESDA           Test and loop if needed for    00031600
                                     369 *                                      next entry                     00031700
0002AC 47F0 A1F6            001F6    370          B     PROCESSW                                             00031803
                                     371 *                                                                     00031900
                                     372 *        Process RLD Records                                          00032000
                                     373 *                                                                     00032100
                     002B0           374 PROCRLD  EQU   *                                                      00032200
                                     375 *                                                                     00032300
                                     376 *        Generate any required TXT Records before the RLD records     00032400
                                     377 *                                                                     00032500
0002B0 45E0 A676            00676    378          BAL   R14,CLEANUP           Invoke CLEANUP Routine         00032603

0002B4 47F0 A1F6            001F6    380          B     PROCESSW                                             00032803
                                     381 *                                                                     00032900
                                     382 *        Process TXT Records                                          00033000
                                     383 *                                                                     00033100
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

                     002B8         384 PROCTXT  EQU   *                                                        00033200
0002B8 1B33                        385          SR    R3,R3                                                    00033300
0002BA BF33 D28A           0000E   386          ICM   R3,B'0011',IN.TXTESDID  Get the ESD ID for this Record   00033400
0002BE 1883                        387          LR    R8,R3                  Get ESD ID                        00033500
0002C0 8980 0005           00005   388          SLL   R8,5                   Multiply the ESD ID by 32         00033600
0002C4 4188 D39C           0039C   389          LA    R8,ESDTAB-CSDL(R8)     Allow for first entry is 1 not 0  00033700
0002C8 D501 8000 D28A 00000 0000E  390          CLC   CESDID,IN.TXTESDID     Does the ESD ID entry in          00033803
                                   391 *                                       the table match the TXT ESD ID ?  00033903
0002CE 4770 A1F6           001F6   392          BNE   PROCESSW               No, No entry in the table so      00034003
                                   393 *                                       must not be TXT for SD or PC      00034108
0002D2 D502 D281 8011 00005 00011  394          CLC   IN.TXTRADDR,CPTR+1     Compare TXT Rel Addr with Ptr     00034200
                                   395 *                                                                         00034300
0002D8 4780 A2E4           002E4   396          BE    PROCTXTE               This TXT flows on from previous   00034400
0002DC 4740 A2F4           002F4   397          BL    PROCTXTL               An ORG backwards                  00034500
0002E0 4720 A30E           0030E   398          BH    PROCTXTH               Need to generate additional TXT   00034600
                                   399 *                                                                         00034700
                                   400 *        TXT Rel Addr matches Ptr                                         00034800
                                   401 *        Update Ptr and continue processing                               00034900
                                   402 *                                                                         00035000
                     002E4         403 PROCTXTE EQU   *                                                        00035100
0002E4 5810 8010           00010   404          L     R1,CPTR                                                    00035200
0002E8 4A10 D286           0000A   405          AH    R1,IN.TXTLEN           Add Len of TXT to calc new Ptr    00035300
0002EC 5010 8010           00010   406          ST    R1,CPTR                                                    00035400
0002F0 47F0 A1F6           001F6   407          B     PROCESSW                                                   00035503
                                   408 *                                                                         00035600
                                   409 *        TXT Rel addr is less than Ptr, An ORG backwards. Test            00035700
                                   410 *        if TXTLEN advances Ptr, if it does then update otherwise         00035800
                                   411 *        continue processing                                              00035900
                                   412 *                                                                         00036000
                     002F4         413 PROCTXTL EQU   *                                                        00036100
0002F4 1B11                        414          SR    R1,R1                                                    00036200
0002F6 BF17 D281           00005   415          ICM   R1,B'0111',IN.TXTRADDR Get Rel Addr of TXT                00036300
0002FA 4A10 D286           0000A   416          AH    R1,IN.TXTLEN           Add Len of TXT to calc new Ptr    00036400
0002FE 5910 8010           00010   417          C     R1,CPTR                New Ptr higher than current ?     00036500
000302 47D0 A1F6           001F6   418          BNH   PROCESSW               No, return to continue process    00036603
000306 5010 8010           00010   419          ST    R1,CPTR                Yes, advance Ptr                  00036700
00030A 47F0 A1F6           001F6   420          B     PROCESSW               Continue process                  00036803
                                   421 *                                                                         00036900
                                   422 *        Txt Rel Addr greater than Ptr, Additional TXT record(s)          00037000
                                   423 *        must be generated to fill storage with Fillchar value            00037100
                                   424 *                                                                         00037200
                     0030E         425 PROCTXTH EQU   *                                                        00037300
00030E 1B22                        426          SR    R2,R2                                                    00037400
000310 BF27 D281           00005   427          ICM   R2,B'0111',IN.TXTRADDR Calc length of additional TXT     00037500
000314 5B20 8010           00010   428          S     R2,CPTR                by subtracting PTR from TXTRADDR   00037600
000318 45E0 A56E           0056E   429          BAL   R14,GENTXTR            Call GENTXTR with length of TXT   00037703
                                   430 *                                     to gen in R2 and start addr in    00037800
                                   431 *                                     CPTR                              00037900
00031C 1B22                        432          SR    R2,R2                                                    00038000
00031E BF27 D281           00005   433          ICM   R2,B'0111',IN.TXTRADDR Get Rel Addr of TXT               00038100
000322 4A20 D286           0000A   434          AH    R2,IN.TXTLEN           Add Len of TXT to calc new Ptr    00038200
000326 5020 8010           00010   435          ST    R2,CPTR                Advance Ptr                       00038300
00032A 47F0 A1F6           001F6   436          B     PROCESSW               Continue process                  00038403
                                   437 *                                                                         00038500
                                   438 *        Process END Records                                              00038600
                                   439 *                                                                         00038700
                     0032E         440 PROCEND  EQU   *                                                        00038800
                                   441 *                                                                         00038900
                                   442 *        Generate any required TXT Records before the END record          00039000
                                   443 *                                                                         00039100
00032E 45E0 A676           00676   444          BAL   R14,CLEANUP            Invoke CLEANUP Routine            00039203
                                   445 *                                     Processing                        00039303
                                   446 *                                                                         00039403
                                   447          PUT   SYSUT2,RECIN           Write END Record to SYSUT2        00039503
000332 4110 D1BC           001BC   448+         LA    1,SYSUT2                        LOAD PARAMETER REG 1   02-IHBIN
000336 4100 D27C           0027C   449+         LA    0,RECIN                         LOAD PARAMETER REG 0   02-IHBIN
00033A 58F0 1030           00030   450+         L     15,48(0,1)               LOAD PUT ROUTINE ADDR         01-PUT
00033E 05EF                        451+         BALR  14,15                    LINK TO PUT ROUTINE           01-PUT
                                   452 *                                                                         00039605
                                   453 *        Loop through the ESDTAB and generate IDENTIFY records            00039705
                                   454 *        for any CSECT for which additional TXT records were              00039805
                                   455 *        generated. If FILLDEFT is set on then bypass generation          00039905
                                   456 *        of IEWL Identify Control statements.                             00040005
                                   457 *                                                                         00040105
000340 4180 D3BC           003BC   458          LA    R8,ESDTAB              -> Control Table for SD           00040203
000344 5870 AC70           00C70   459          L     R7,=AL4((&MAXESD*CSDL)-1) Calc end of ESDTAB for         00040307
                                     +          L     R7,=AL4((1024*CSDL)-1)    Calc end of ESDTAB for         00040307
000348 1A78                        460          AR    R7,R8                  BXLE loop comparand               00040409
00034A 4160 0020           00020   461          LA    R6,CSDL                Increment value for BXLE          00040507
00034E 9240 D31C           0031C   462          MVI   IDENTREC,C' '          Blank out record                  00040603
000352 D24E D31D D31C 0031D 0031C  463          MVC   IDENTREC+1(L'IDENTREC-1),IDENTREC                        00040703
000358 D207 D324 AC60 00324 00C60  464          MVC   IDENTID,=C'IDENTIFY'                                     00040803
                     0035E         465 PROCENDA EQU   *                                                        00040905
00035E D501 8000 AC7E 00000 00C7E  466          CLC   CESDID,=X'0000'        Any ESD ID present ?              00041003
000364 4780 A40C           0040C   467          BE    PROCENDD               No ESD ID, Branch to loop end     00041105
000368 D501 801C AC7E 0001C 00C7E  468          CLC   CTCNT,=X'0000'         Any additional TXT records ?      00041203
00036E 4780 A40C           0040C   469          BE    PROCENDD               No, not for this Csect            00041305
000372 95F1 D083           00083   470          CLI   FILLDEFT,C'1'          Bypass generation of Identify ?   00041403
000376 4780 A3BE           003BE   471          BE    PROCENDF                                                 00041505
00037A D507 8002 AC58 00002 00C58  472          CLC   CNAME,=CL8'ESDID PC'   ESDID Type PC ?                   00041608
000380 4780 A3BE           003BE   473          BE    PROCENDF               Yes, Do not generate IDENTIFY     00041708
000384 D207 D32D 8002 0032D 00002  474          MVC   IDENTSD,CNAME          Move SD Name into IDENTIFY rec    00041803
00038A 9240 D335           00335   475          MVI   IDENTTXT,C' '          Blank out old text                00041903
00038E D235 D336 D335 00336 00335  476          MVC   IDENTTXT+1(L'IDENTTXT-1),IDENTTXT                        00042003
000394 4110 D334           00334   477          LA    R1,IDENTTXT-1          -> last byte of name              00042103
                     00398         478 PROCENDB EQU   *                                                        00042205
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

000398 9540 1000      00000         479          CLI   0(R1),C' '             Found a non blank ?              00042303
00039C 4770 A3A4            003A4   480          BNE   PROCENDC              Yes, branch                      00042405
0003A0 4610 A398            00398   481          BCT   R1,PROCENDB           No, decrement and loop back      00042505
                      003A4         482 PROCENDC EQU   *                                                      00042605
0003A4 D20E 1001 AC44 00001 00C44   483          MVC   1(L'IDRDATA,R1),IDRDATA Move IDRDATA to next avail Char 00042703
0003AA D201 100C D081 0000C 00081   484          MVC   L'IDRDATA-3(L'FILLCHAR_C,R1),FILLCHAR_C Plugin FILLER_C 00042803
                                    485 *                                                                      00042903
                                    486          PUT   SYSUT2,IDENTREC         Write the IDENTIFY Record        00043003
0003B0 4110 D1BC            001BC   487+         LA    1,SYSUT2                         LOAD PARAMETER REG 1   02-IHBIN
0003B4 4100 D31C            0031C   488+         LA    0,IDENTREC                       LOAD PARAMETER REG 0   02-IHBIN
0003B8 58F0 1030            00030   489+         L     15,48(0,1)                LOAD PUT ROUTINE ADDR          01-PUT
0003BC 05EF                         490+         BALR  14,15                     LINK TO PUT ROUTINE            01-PUT
                                    491 *                                                                      00043103
                                    492 *        Generate WTO for Csect                                        00043203
                                    493 *                                                                      00043303
                      003BE         494 PROCENDF EQU   *                                                      00043405
0003BE 95F1 D084      00084         495          CLI   REPREQ,C'1'             Is a detailed REPORT being       00043503
                                    496 *                                      Produced ?                      00043603
0003C2 4780 A40C            0040C   497          BE    PROCENDD                Yes, do not issue WTO            00043703
0003C6 9501 D08A      0008A         498          CLI   MSG4WTO,X'01'           Has Msg 4 Been Issued ?          00043803
0003CA 4780 A3DA            003DA   499          BE    PROCENDG                Yes, Branch                      00043905
0003CE 4110 A7AF            007AF   500          LA    R1,MSG4                 -> Msg 4 Heading WTO             00044003
0003D2 45E0 A6BE            006BE   501          BAL   R14,WTOMSGR             WTO Routine                      00044103
0003D6 9201 D08A      0008A         502          MVI   MSG4WTO,X'01'                                            00044203
                      003DA         503 PROCENDG EQU   *                                                      00044305
0003DA 4310 A7E7            007E7   504          IC    R1,MSG5                 Length of Msg5                   00044405
0003DE 4410 A420            00420   505          EX    R1,MVCMSG5              Move Msg5 Len + Text into MSG5WA 00044505
0003E2 D207 D096 8002 00096 00002   506          MVC   MSG5TEXT+MSG5CS-MSG5T(L'MSG5CS),CNAME Move Csect Name    00044603
0003E8 4810 801C            0001C   507          LH    R1,CTCNT                Get Inserted Text Record Count   00044703
0003EC 4E10 D068            00068   508          CVD   R1,WORKD                                                 00044803
0003F0 DE05 D0A5 D06D 000A5 0006D   509          ED    MSG5TEXT+MSG5IREC-MSG5T(L'MSG5IREC),WORKD+5  Format      00044903
                                    510 *                                      count of Inserted TXT Records   00045003
0003F6 5810 8018            00018   511          L     R1,CBYTEC               Get Inserted Byte Count          00045103
0003FA 4E10 D068            00068   512          CVD   R1,WORKD                                                 00045203
0003FE DE07 D0B7 D06C 000B7 0006C   513          ED    MSG5TEXT+MSG5IBC-MSG5T(L'MSG5IBC),WORKD+4  Format      00045303
                                    514 *                                      count of Inserted Bytes         00045403
000404 4110 D08B            0008B   515          LA    R1,MSG5WAL              R1 -> Info Msg                   00045503
000408 45E0 A6BE            006BE   516          BAL   R14,WTOMSGR             WTO Routine                      00045603
                                    517 *                                                                      00045703
                      0040C         518 PROCENDD EQU   *                                                      00045805
00040C 8786 A35E            0035E   519          BXLE  R8,R6,PROCENDA          -> Next Entry                    00045907
                                    520 *                                                                      00046005
000410 4120 D3BC            003BC   521          LA    R2,ESDTAB               Zero the ESD TABLE in case       00046103
000414 5830 AC74            00C74   522          L     R3,=AL4(&MAXESD*CSDL)   this is output from a batched   00046205
                                      +          L     R3,=AL4(1024*CSDL)      this is output from a batched   00046205
000418 1F55                         523          SLR   R5,R5                   assembly and more object         00046305
00041A 0E24                         524          MVCL  R2,R4                   records follow this END record   00046403
00041C 47F0 A1C0            001C0   525          B     PROCESS                                                  00046503
                                    526 *                                                                      00046605
000420 D200 D08B A7E7 0008B 007E7   527 MVCMSG5  MVC   MSG5WAL(0),MSG5          Move Msg5 Length and text        00046705
                                    528 *                                                                      00046805
                                    529 *                                                                      00046900
                                    530 *        End of Data on SYSUT1                                         00047000
                                    531 *                                                                      00047100
                      00426         532 SYSUT1EOD EQU  *                                                      00047203
                                    533 *                                                                      00047303
                      00426         534 CLOSEDS  EQU   *                                                      00047400
                                    535 *                                                                      00047500
                                    536 *        CLOSE datasets                                                00047600
                                    537 *                                                                      00047700
000426 95F1 D084      00084         538          CLI   REPREQ,C'1'             Was REPORT Requested ?           00047803
00042A 4770 A4BC            004BC   539          BNE   CLOSEDSB                No, Branch                       00047903
00042E F910 D085 AC85 00085 00C85   540          CP    REPPN,=P'1'             Were any REPORT records written ? 00048004
000434 4770 A450            00450   541          BNE   CLOSEDSA                Yes, Branch                      00048103
000438 D501 D088 AC80 00088 00C80   542          CLC   REPLN,=H'3'                                              00048203
00043E 4770 A450            00450   543          BNE   CLOSEDSA                Yes, Branch                      00048303
                                    544 *                                                                      00048403
                                    545          PUT   REPORT,HEAD3            Null Report                      00048503
000442 4110 D21C            0021C   546+         LA    1,REPORT                         LOAD PARAMETER REG 1   02-IHBIN
000446 4100 A8E6            008E6   547+         LA    0,HEAD3                          LOAD PARAMETER REG 0   02-IHBIN
00044A 58F0 1030            00030   548+         L     15,48(0,1)                LOAD PUT ROUTINE ADDR          01-PUT
00044E 05EF                         549+         BALR  14,15                     LINK TO PUT ROUTINE            01-PUT
                                    550 *                                                                      00048603
                      00450         551 CLOSEDSA EQU   *                                                      00048703
                                    552 *                                                                      00048803
                                    553          CLOSE (SYSUT1,,SYSUT2,,REPORT),MF=(E,OCLIST)                  00048903
000450 4110 D048            00048   554+         LA    1,OCLIST                         LOAD PARAMETER REG 1   02-IHBIN
000454 43E1 0000            00000   555+         IC    14,0(1,0)                        SAVE OPTION BYTE       01-CLOSE
000458 4100 D15C            0015C   556+         LA    0,SYSUT1                         PICK UP DCB ADDRESS    01-CLOSE
00045C 5001 0000            00000   557+         ST    0,0(1,0)                         STORE INTO LIST        01-CLOSE
000460 42E1 0000            00000   558+         STC   14,0(1,0)                        RESTORE OPTION BYTE    01-CLOSE
000464 43E1 0004            00004   559+         IC    14,4(1,0)                        SAVE OPTION BYTE       01-CLOSE
000468 4100 D1BC            001BC   560+         LA    0,SYSUT2                         PICK UP DCB ADDRESS    01-CLOSE
00046C 5001 0004            00004   561+         ST    0,4(1,0)                         STORE INTO LIST        01-CLOSE
000470 42E1 0004            00004   562+         STC   14,4(1,0)                        RESTORE OPTION BYTE    01-CLOSE
000474 43E1 0008            00008   563+         IC    14,8(1,0)                        SAVE OPTION BYTE       01-CLOSE
000478 4100 D21C            0021C   564+         LA    0,REPORT                         PICK UP DCB ADDRESS    01-CLOSE
00047C 5001 0008            00008   565+         ST    0,8(1,0)                         STORE INTO LIST        01-CLOSE
000480 42E1 0008            00008   566+         STC   14,8(1,0)                        RESTORE OPTION BYTE    01-CLOSE
000484 0A14                         567+         SVC   20                               ISSUE CLOSE SVC        01-CLOSE
                                    568 *                                                                      00049003
                                    569          FREEPOOL REPORT                                               00049103
000486 4110 D21C            0021C   570+         LA    1,REPORT                         LOAD PARAMETER REG 1   02-IHBIN
00048A 58F0 1014            00014   571+         L     15,20(0,1)              LOAD BUFCB ADDRESS             01-FREEP
00048E 9601 1017      00017         572+         OI    23(1),1                 INDICATE NO BUFCB ADDR         01-FREEP
000492 1BEE                         573+         SR    14,14                   CLEAR REGISTER                 01-FREEP
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

000494 1B11                       574+         SR    1,1                  CLEAR REGISTER          @ZA79785  01-FREEP
000496 BF13 F006            00006 575+         ICM   1,3,6(15)           LOAD LENGTH OF BUFFERS @ZA86199  01-FREEP
00049A 43E0 F005            00005 576+         IC    14,5(0,15)           NUMBER OF BUFFERS       @ZA79785  01-FREEP
00049E 1C0E                       577+         MR    0,14                 AREA TO BE FREED        @ZA79785  01-FREEP
0004A0 4110 1008            00008 578+         LA    1,8(0,1)             ACCOUNT FOR BCB         @ZA86199  01-FREEP
0004A4 9140 F004      00004       579+         TM    4(15),X'40'          IS BUFCB 16 BYTES       @ZA19719  01-FREEP
0004A8 47E0 A4B0            004B0 580+         BNO   *+8                  BRANCH IF BUFCB = 8 BYTES         01-FREEP
0004AC 4110 1008            00008 581+         LA    1,8(0,1)             ADJUST SIZE PLUS 8      @ZA87508  01-FREEP
0004B0 1801                       582+         LR    0,1                  LOAD LENGTH TO BE FREED @ZA86199  01-FREEP
0004B2 4110 F000            00000 583+         LA    1,0(0,15)            LOAD AREA ADDRESS                 01-FREEP
0004B6 0A0A                       584+         SVC   10                   ISSUE FREEMAIN SVC                01-FREEP
                                  585 *                                                                    00049203
0004B8 47F0 A4E2            004E2 586          B     CLOSEDSC                                               00049303
                                  587 *                                                                    00049403
                      004BC       588 CLOSEDSB EQU   *                                                    00049503
                                  589 *                                                                    00049603
                                  590          CLOSE (SYSUT1,,SYSUT2),MF=(E,OCLIST)                        00049703
0004BC 4110 D048            00048 591+         LA    1,OCLIST                       LOAD PARAMETER REG 1   02-IHBIN
0004C0 43E1 0000            00000 592+         IC    14,0(1,0)                      SAVE OPTION BYTE       01-CLOSE
0004C4 4100 D15C            0015C 593+         LA    0,SYSUT1                       PICK UP DCB ADDRESS    01-CLOSE
0004C8 5001 0000            00000 594+         ST    0,0(1,0)                       STORE INTO LIST        01-CLOSE
0004CC 42E1 0000            00000 595+         STC   14,0(1,0)                      RESTORE OPTION BYTE    01-CLOSE
0004D0 43E1 0004            00004 596+         IC    14,4(1,0)                      SAVE OPTION BYTE       01-CLOSE
0004D4 4100 D1BC            001BC 597+         LA    0,SYSUT2                       PICK UP DCB ADDRESS    01-CLOSE
0004D8 5001 0004            00004 598+         ST    0,4(1,0)                       STORE INTO LIST        01-CLOSE
0004DC 42E1 0004            00004 599+         STC   14,4(1,0)                      RESTORE OPTION BYTE    01-CLOSE
0004E0 0A14                       600+         SVC   20                           ISSUE CLOSE SVC        01-CLOSE
                                  601 *                                                                    00049800
                      004E2       602 CLOSEDSC EQU   *                                                    00049903
                                  603 *                                                                    00050003
                                  604          FREEPOOL SYSUT1              No need to leave the buffers    00050100
0004E2 4110 D15C            0015C 605+         LA    1,SYSUT1                       LOAD PARAMETER REG 1   02-IHBIN
0004E6 58F0 1014            00014 606+         L     15,20(0,1)           LOAD BUFCB ADDRESS                01-FREEP
0004EA 9601 1017      00017       607+         OI    23(1),1              INDICATE NO BUFCB ADDR            01-FREEP
0004EE 1BEE                       608+         SR    14,14                CLEAR REGISTER                    01-FREEP
0004F0 1B11                       609+         SR    1,1                  CLEAR REGISTER          @ZA79785  01-FREEP
0004F2 BF13 F006            00006 610+         ICM   1,3,6(15)           LOAD LENGTH OF BUFFERS @ZA86199  01-FREEP
0004F6 43E0 F005            00005 611+         IC    14,5(0,15)           NUMBER OF BUFFERS       @ZA79785  01-FREEP
0004FA 1C0E                       612+         MR    0,14                 AREA TO BE FREED        @ZA79785  01-FREEP
0004FC 4110 1008            00008 613+         LA    1,8(0,1)             ACCOUNT FOR BCB         @ZA86199  01-FREEP
000500 9140 F004      00004       614+         TM    4(15),X'40'          IS BUFCB 16 BYTES       @ZA19719  01-FREEP
000504 47E0 A50C            0050C 615+         BNO   *+8                  BRANCH IF BUFCB = 8 BYTES         01-FREEP
000508 4110 1008            00008 616+         LA    1,8(0,1)             ADJUST SIZE PLUS 8      @ZA87508  01-FREEP
00050C 1801                       617+         LR    0,1                  LOAD LENGTH TO BE FREED @ZA86199  01-FREEP
00050E 4110 F000            00000 618+         LA    1,0(0,15)            LOAD AREA ADDRESS                 01-FREEP
000512 0A0A                       619+         SVC   10                   ISSUE FREEMAIN SVC                01-FREEP
                                  620 *                                                                    00050200
                                  621          FREEPOOL SYSUT2                                             00050300
000514 4110 D1BC            001BC 622+         LA    1,SYSUT2                       LOAD PARAMETER REG 1   02-IHBIN
000518 58F0 1014            00014 623+         L     15,20(0,1)           LOAD BUFCB ADDRESS                01-FREEP
00051C 9601 1017      00017       624+         OI    23(1),1              INDICATE NO BUFCB ADDR            01-FREEP
000520 1BEE                       625+         SR    14,14                CLEAR REGISTER                    01-FREEP
000522 1B11                       626+         SR    1,1                  CLEAR REGISTER          @ZA79785  01-FREEP
000524 BF13 F006            00006 627+         ICM   1,3,6(15)           LOAD LENGTH OF BUFFERS @ZA86199  01-FREEP
000528 43E0 F005            00005 628+         IC    14,5(0,15)           NUMBER OF BUFFERS       @ZA79785  01-FREEP
00052C 1C0E                       629+         MR    0,14                 AREA TO BE FREED        @ZA79785  01-FREEP
00052E 4110 1008            00008 630+         LA    1,8(0,1)             ACCOUNT FOR BCB         @ZA86199  01-FREEP
000532 9140 F004      00004       631+         TM    4(15),X'40'          IS BUFCB 16 BYTES       @ZA19719  01-FREEP
000536 47E0 A53E            0053E 632+         BNO   *+8                  BRANCH IF BUFCB = 8 BYTES         01-FREEP
00053A 4110 1008            00008 633+         LA    1,8(0,1)             ADJUST SIZE PLUS 8      @ZA87508  01-FREEP
00053E 1801                       634+         LR    0,1                  LOAD LENGTH TO BE FREED @ZA86199  01-FREEP
000540 4110 F000            00000 635+         LA    1,0(0,15)            LOAD AREA ADDRESS                 01-FREEP
000544 0A0A                       636+         SVC   10                   ISSUE FREEMAIN SVC                01-FREEP
                                  637 *                                                                    00050400
000546 4190 0000            00000 638          LA    R9,0                 Set Zero return code            00050504
                                  639 *                                                                    00050600
                      0054A       640 ENDPROC  EQU   *                                                    00050700
                                  641 *                                                                    00050800
                                  642 *        All processing complete                                     00050900
                                  643 *                                                                    00051000
00054A 181D                       644          LR    R1,R13               R1 -> GETMAINed Area            00051102
00054C 58D0 D004            00004 645          L     R13,4(,R13)          Restore caller's save area addr 00051202
                                  646 *                                                                    00051302
                                  647          FREEMAIN R,LV=WORKAREAL,A=(1)  Free SAVEAREA/WORKAREA       00051402
                                  648+      OS/VS2 RELEASE 3 VERSION  -- 10/25/74                          01-FREEM
000550                            649+         CNOP  0,4                                                   01-FREEM
000550 47F0 A558            00558 650+         B     *+8                          BRANCH AROUND LENGTH   01-FREEM
000554 000083BC                   651+         DC    A(WORKAREAL)                 LENGTH                 01-FREEM
000558 5800 A554            00554 652+         L     0,*-4                        LOAD SP AND LV         01-FREEM
00055C 4110 1000            00000 653+         LA    1,0(0,1)                     CLEAR HI ORDER BYTE    01-FREEM
000560 0A0A                       654+         SVC   10                           ISSUE FREEMAIN SVC     01-FREEM
                                  655 *                                                                    00051502
000562 18F9                       656          LR    R15,R9               Return Code into R15            00051602
                                  657 *                                                                    00051702
                                  658          RETURN (14,12),RC=(15)       Return to caller            00051802
000564 58ED 000C            0000C 659+         L     14,12(13,0)                  RESTORE REGISTER 14    01-RETUR
000568 980C D014            00014 660+         LM    0,12,20(13)                  RESTORE THE REGISTERS  01-RETUR
00056C 07FE                       661+         BR    14                           RETURN                 01-RETUR
                                  662 *                                                                    00051900
                                  663 ********************************************************************** 00052000
                                  664 *                                                                  * 00052100
                                  665 *        Generate Additional Text Records                          * 00052200
                                  666 *                                                                  * 00052300
                                  667 *        On entry start addr of TXT is in CPTR                     * 00052400
                                  668 *        R2 has length of TXT to generate                          * 00052500
                                  669 *                                                                  * 00052600
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

                                     670 *        Optionally, generate detailed report of uninitialized        * 00052703
                                     671 *        areas                                                        * 00052803
                                     672 *                                                                     * 00052903
                                     673 ********************************************************************** 00053000
                                     674 *                                                                       00053100
                       0056E         675 GENTXTR  EQU   *                                                       00053200
00056E 50E0 D05C              0005C  676           ST    R14,GENTXTR_RETADDR                                     00053303
000572 D201 D314 D081 00048 00081  677           MVC   OUT.TXTDID,FILLCHAR_C   Move Fillchar into Deck ID Fld   00053400
000578 D201 D2DA 8000 0000E 00000  678           MVC   OUT.TXTESDID,CESDID     ESD ID for TXT Record           00053500
00057E 5810 8018              00018  679           L     R1,CBYTEC               Add Number of bytes being       00053600
000582 1A12                          680           AR    R1,R2                   generated to Byte Count         00053700
000584 5010 8018              00018  681           ST    R1,CBYTEC                                               00053800
000588 5830 8010              00010  682           L     R3,CPTR                 Start Addr                      00053900
00058C 95F1 D084       00084         683           CLI   REPREQ,C'1'             Detailed Report requested ?     00054003
000590 4770 A5E6              005E6  684           BNE   GENTXTA                 No, Bypass Report generation    00054103
000594 4810 D088              00088  685           LH    R1,REPLN                                                00054203
000598 4110 1001              00001  686           LA    R1,1(,R1)               Increment Line No.              00054303
00059C 4010 D088              00088  687           STH   R1,REPLN                                                00054403
0005A0 4910 A986              00986  688           CH    R1,REPMAXLN             Run out of Lines ?              00054503
0005A4 4740 A5AC              005AC  689           BL    GENTXTP                 No, Branch                      00054603
0005A8 45E0 A6EA              006EA  690           BAL   R14,REPHEAD             Start New page                  00054703
                       005AC         691 GENTXTP  EQU   *                                                       00054803
0005AC D24F D36C A936 0036C 00936  692           MVC   REPREC,REPDTL           Move Record to I/O area         00054903
0005B2 D207 D36E 8002 0036E 00002  693           MVC   REPREC+REPESDID-REPDTL(L'REPESDID),CNAME                00055003
0005B8 BE37 D068              00068  694           STCM  R3,B'0111',WORKD        Store Rel Addr                  00055103
0005BC F363 D070 D068 00070 00068  695           UNPK  CHAR16(7),WORKD(4)      Setup for TR to Character       00055207
0005C2 DC05 D070 AB44 00070 00B44  696           TR    CHAR16(6),HEXTR-C'0'    Translate to Character          00055307
0005C8 D205 D37A D070 0037A 00070  697           MVC   REPREC+REPRADDR-REPDTL(L'REPRADDR),CHAR16 Move to I/O    00055403
0005CE 4E20 D068              00068  698           CVD   R2,WORKD                Convert length to Dec           00055503
0005D2 DE07 D383 D06C 00383 0006C  699           ED    REPREC+REPLEN-REPDTL(L'REPLEN),WORKD+4                  00055603
                                     700 *                                                                     00055703
                                     701           PUT   REPORT,REPREC           Write Report Line               00055803
0005D8 4110 D21C              0021C  702+          LA    1,REPORT                        LOAD PARAMETER REG 1    02-IHBIN
0005DC 4100 D36C              0036C  703+          LA    0,REPREC                        LOAD PARAMETER REG 0    02-IHBIN
0005E0 58F0 1030              00030  704+          L     15,48(0,1)               LOAD PUT ROUTINE ADDR          01-PUT
0005E4 05EF                          705+          BALR  14,15                    LINK TO PUT ROUTINE            01-PUT
                                     706 *                                                                     00055903
                       005E6         707 GENTXTA  EQU   *                                                       00056000
0005E6 4920 AC82              00C82  708           CH    R2,=AL2(L'TXTDATA)      More than 1 TXT Record req ?    00056100
0005EA 47D0 A62A              0062A  709           BNH   GENTXTB                 No, Branch                      00056200
                                     710 *                                                                     00056300
                                     711 *        Generate multiple TXT Records                                00056400
                                     712 *                                                                     00056500
0005EE BE37 D2D1              00005  713           STCM  R3,B'0111',OUT.TXTRADDR Set rel addr                    00056600
0005F2 D201 D2D6 AC82 0000A 00C82  714           MVC   OUT.TXTLEN,=AL2(L'TXTDATA) Set Length of TXT            00056700
0005F8 D200 D2DC D080 00010 00080  715           MVC   OUT.TXTDATA(1),FILLCHAR_X  Propagate FILLCHAR           00056800
0005FE D236 D2DD D2DC 00011 00010  716           MVC   OUT.TXTDATA+1(L'TXTDATA-1),OUT.TXTDATA                  00056900
                                     717 *                                                                     00057000
                                     718           PUT   SYSUT2,GENREC           Write Generated TXT Record      00057100
000604 4110 D1BC              001BC  719+          LA    1,SYSUT2                        LOAD PARAMETER REG 1    02-IHBIN
000608 4100 D2CC              002CC  720+          LA    0,GENREC                        LOAD PARAMETER REG 0    02-IHBIN
00060C 58F0 1030              00030  721+          L     15,48(0,1)               LOAD PUT ROUTINE ADDR          01-PUT
000610 05EF                          722+          BALR  14,15                    LINK TO PUT ROUTINE            01-PUT
                                     723 *                                                                     00057200
000612 4810 801C              0001C  724           LH    R1,CTCNT                Get count of generated TXT rec  00057300
000616 4110 1001              00001  725           LA    R1,1(,R1)               Increment count                 00057400
00061A 4010 801C              0001C  726           STH   R1,CTCNT                Store count                     00057500
00061E 4A30 AC82              00C82  727           AH    R3,=AL2(L'TXTDATA)      Advance Rel addr                00057600
000622 4B20 AC82              00C82  728           SH    R2,=AL2(L'TXTDATA)      Decrement data len              00057700
000626 47F0 A5E6              005E6  729           B     GENTXTA                 Retest count                    00057800
                                     730 *                                                                     00057900
                       0062A         731 GENTXTB  EQU   *                                                       00058000
00062A BE37 D2D1              00005  732           STCM  R3,B'0111',OUT.TXTRADDR Set Rel Addr                    00058100
00062E BE23 D2D6              0000A  733           STCM  R2,B'0011',OUT.TXTLEN   Set TXT Len                     00058200
000632 9240 D2DC       00010         734           MVI   OUT.TXTDATA,C' '        Blank out data field            00058300
000636 D236 D2DD D2DC 00011 00010  735           MVC   OUT.TXTDATA+1(L'TXTDATA-1),OUT.TXTDATA                  00058400
00063C D200 D2DC D080 00010 00080  736           MVC   OUT.TXTDATA(1),FILLCHAR_X                               00058500
000642 4620 A64A              0064A  737           BCT   R2,GENTXTC              Decrement the Count             00058600
                                     738 *                                       Bypass Ex if only 1 byte in len 00058700
000646 47F0 A650              00650  739           B     GENTXTD                                                 00058800
                       0064A         740 GENTXTC  EQU   *                                                       00058900
00064A 0620                          741           BCTR  R2,0                    for Ex                          00059000
00064C 4420 A670              00670  742           EX    R2,GENMVC                                               00059100
                       00650         743 GENTXTD  EQU   *                                                       00059200
                                     744 *                                                                     00059300
                                     745           PUT   SYSUT2,GENREC                                         00059400
000650 4110 D1BC              001BC  746+          LA    1,SYSUT2                        LOAD PARAMETER REG 1    02-IHBIN
000654 4100 D2CC              002CC  747+          LA    0,GENREC                        LOAD PARAMETER REG 0    02-IHBIN
000658 58F0 1030              00030  748+          L     15,48(0,1)               LOAD PUT ROUTINE ADDR          01-PUT
00065C 05EF                          749+          BALR  14,15                    LINK TO PUT ROUTINE            01-PUT
                                     750 *                                                                     00059500
00065E 4810 801C              0001C  751           LH    R1,CTCNT                Get count of generated TXT rec  00059600
000662 4110 1001              00001  752           LA    R1,1(,R1)               Increment count                 00059700
000666 4010 801C              0001C  753           STH   R1,CTCNT                Store count                     00059800
00066A 58E0 D05C              0005C  754           L     R14,GENTXTR_RETADDR                                     00059903
00066E 07FE                          755           BR    R14                     Return                          00060003
                                     756 *                                                                     00060100
000670 D200 D2DD D2DC 00011 00010  757 GENMVC   MVC   OUT.TXTDATA+1(0),OUT.TXTDATA   *** EX Ins ***            00060200
                                     758 *                                                                     00060300
                                     759 *                                                                     00060400
                                     760 ********************************************************************** 00060500
                                     761 *                                                                     00060603
                                     762 *        Cleanup processing                                           00060703
                                     763 *                                                                     00060803
                                     764 *        An RLD or END record has been detected.                      00060903
                                     765 *                                                                     00061003
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

                                    766 *        Ensure that all CSECTs have been padded out to their           00061103
                                    767 *        set length. Note that this routine may be called a number      00061203
                                    768 *        of times, once for each RLD record and again for END.          00061303
                                    769 *        Fields are updated so that additional TXT records will not     00061405
                                    770 *        be generated a second time.                                    00061503
                                    771 *                                                                       00061603
                                    772 ********************************************************************** 00061703
                                    773 *                                                                       00061803
                         00676      774 CLEANUP  EQU   *                                                       00061900
000676 50E0 D058             00058  775          ST    R14,CLEANUP_RETADDR                                      00062003
00067A 4180 D3BC             003BC  776          LA    R8,ESDTAB              -> Control Table for SD           00062100
00067E 5870 AC70             00C70  777          L     R7,=AL4((&MAXESD*CSDL)-1) Calc end of ESDTAB for         00062207
                                       +         L     R7,=AL4((1024*CSDL)-1)    Calc end of ESDTAB for         00062207
000682 1A78                         778          AR    R7,R8                  BXLE loop comparand               00062309
000684 4160 0020             00020  779          LA    R6,CSDL                Increment value for BXLE          00062407
                         00688      780 CLEANUPA EQU   *                                                       00062500
000688 D501 8000 AC7E 00000 00C7E   781          CLC   CESDID,=X'0000'        Any ESD ID present ?              00062600
00068E 4780 A6B4             006B4  782          BE    CLEANUPB               No ESD ID value present, branch   00062705
000692 5840 8010             00010  783          L     R4,CPTR                Calc number of bytes in TXT       00062800
000696 5B40 8014             00014  784          S     R4,CSLOC               records that have been processed  00062900
00069A 5820 800C             0000C  785          L     R2,CLEN                Get length of Csect               00063000
00069E 1B24                         786          SR    R2,R4                  Calc number of bytes short        00063100
0006A0 47D0 A6B4             006B4  787          BNP   CLEANUPB               Zero or -VE Csect complete        00063200
0006A4 1842                         788          LR    R4,R2                  Save for later update of CPTR     00063300
0006A6 45E0 A56E             0056E  789          BAL   R14,GENTXTR            Generate additional TXT records   00063403
0006AA 5820 8010             00010  790          L     R2,CPTR                Advance CPTR by adding length     00063503
0006AE 1A24                         791          AR    R2,R4                  of generated TXT record(s)        00063603
0006B0 5020 8010             00010  792          ST    R2,CPTR                                                  00063700
                         006B4      793 CLEANUPB EQU   *                                                       00063800
0006B4 8786 A688             00688  794          BXLE  R8,R6,CLEANUPA         -> Next Entry                     00063907
0006B8 58E0 D058             00058  795          L     R14,CLEANUP_RETADDR                                      00064003
0006BC 07FE                         796          BR    R14                    Return                            00064103
                                    797 *                                                                       00064200
                                    798 ********************************************************************** 00064300
                                    799 *                                                                     * 00064400
                                    800 *        Issue WTO for error or information messages                  * 00064500
                                    801 *                                                                     * 00064600
                                    802 ********************************************************************** 00064700
                                    803 *                                                                       00064800
0006BE                              804 WTOMSGR  DS    0H                                                       00064900
                                    805 *                                                                       00065000
                                    806 *        R01 -> Message Text length followed by text                    00065100
                                    807 *                                                                       00065200
0006BE 50E0 D054             00054  808          ST    R14,WTOMSGR_RETADDR    Save Return addr                  00065303
0006C2 9240 D0F4      000F4         809          MVI   WTOMSGWA+4,C' '        Blank out max len of 100 bytes    00065400
0006C6 D262 D0F5 D0F4 000F5 000F4   810          MVC   WTOMSGWA+5(99),WTOMSGWA+4                                00065500
0006CC 1B22                         811          SR    R2,R2                                                    00065600
0006CE 4320 1000             00000  812          IC    R2,0(,R1)              Get length of text                00065700
0006D2 0620                         813          BCTR  R2,0                   Decrement for EX                  00065800
0006D4 4420 A6E4             006E4  814          EX    R2,MVCMSG                                                00065900
                                    815 *                                                                       00066000
                                    816          WTO   MF=(E,WTOMSGWA)        WTO error message                 00066100
0006D8 4110 D0F0             000F0  817+         LA    1,WTOMSGWA                       LOAD PARAMETER REG 1   02-IHBIN
0006DC 0A23                         818+         SVC   35                               ISSUE SVC              01-WTO
                                    819 *                                                                       00066200
0006DE 58E0 D054             00054  820          L     R14,WTOMSGR_RETADDR                                      00066303
0006E2 07FE                         821          BR    R14                    Return to caller                  00066403
                                    822 *                                                                       00066500
0006E4 D200 D0F4 1001 000F4 00001   823 MVCMSG   MVC   WTOMSGWA+4(0),1(R1)     *** Ex *** Move text into WTO     00066600
                                    824 *                                                                       00066703
                                    825 ********************************************************************** 00066803
                                    826 *                                                                     * 00066903
                                    827 *        REPORT Heading Routine                                       * 00067003
                                    828 *                                                                     * 00067103
                                    829 ********************************************************************** 00067203
                                    830 *                                                                       00067303
0006EA                              831 REPHEAD  DS    0H                                                       00067403
0006EA 50E0 D060             00060  832          ST    R14,REPHEAD_RETADDR                                      00067503
0006EE D24F D36C A846 0036C 00846   833          MVC   REPREC,HEAD1           Move Heading line to I/O Area     00067603
0006F4 FA10 D085 AC85 00085 00C85   834          AP    REPPN,=P'1'            Increment Page Number             00067703
0006FA DE03 D394 D085 00394 00085   835          ED    REPREC+HEADPN-HEAD1(L'HEADPN),REPPN   Format Page No.    00067803
                                    836 *                                                                       00067903
                                    837          PUT   REPORT,REPREC          Write Heading                     00068003
000700 4110 D21C             0021C  838+         LA    1,REPORT                         LOAD PARAMETER REG 1   02-IHBIN
000704 4100 D36C             0036C  839+         LA    0,REPREC                         LOAD PARAMETER REG 0   02-IHBIN
000708 58F0 1030             00030  840+         L     15,48(0,1)                 LOAD PUT ROUTINE ADDR        01-PUT
00070C 05EF                         841+         BALR  14,15                      LINK TO PUT ROUTINE          01-PUT
                                    842 *                                                                       00068103
                                    843          PUT   REPORT,HEAD2           Write Secondary Heading line      00068203
00070E 4110 D21C             0021C  844+         LA    1,REPORT                         LOAD PARAMETER REG 1   02-IHBIN
000712 4100 A896             00896  845+         LA    0,HEAD2                          LOAD PARAMETER REG 0   02-IHBIN
000716 58F0 1030             00030  846+         L     15,48(0,1)                 LOAD PUT ROUTINE ADDR        01-PUT
00071A 05EF                         847+         BALR  14,15                      LINK TO PUT ROUTINE          01-PUT
                                    848 *                                                                       00068303
00071C D201 D088 AC80 00088 00C80   849          MVC   REPLN,=H'3'            Reset Line Count                  00068403
000722 58E0 D060             00060  850          L     R14,REPHEAD_RETADDR                                      00068503
000726 07FE                         851          BR    R14                    Return                            00068603
                                    852 *                                                                       00068700
                                    853 *                                                                       00068800
                                    854 ********************************************************************** 00068900
                                    855 *                                                                       00069000
                                    856 *        STATIC DATA AREAS                                              00069100
                                    857 *                                                                       00069200
                                    858 ********************************************************************** 00069300
                                    859 *                                                                       00069400
                                    860 *        Error Messages                                                 00069500
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                                    861 *                                                                  00069600
                                    862 *        Maximun Length 100 chars                                  00069700
                                    863 *                                                                  00069800
000728 35                           864 MSG1     DC    AL1(L'MSG1T)           Length of Text               00069900
000729 C9D5C9E3D6C2D140             865 MSG1T    DC    C'INITOBJ - No parm provided, Fill Char defaulted to 00' 00070000
00075E 2B                           866 MSG2     DC    AL1(L'MSG2T)                                        00070100
00075F C9D5C9E3D6C2D140             867 MSG2T    DC    C'INITOBJ - Invalid Parm, Fill Char set to 00'      00070200
00078A 24                           868 MSG3     DC    AL1(L'MSG3T)                                        00070300
00078B C9D5C9E3D6C2D140             869 MSG3T    DC    C'INITOBJ - OPEN for Dataset(s) Failed'             00070400
0007AF 37                           870 MSG4     DC    AL1(L'MSG4T)                                        00070500
0007B0 C9D5C9E3D6C2D140             871 MSG4T    DC    C'INITOBJ - Csect    Inserted TXT Records  Inserted ByteX00070600
                                                       s'                                                  00070700
0007E7 33                           872 MSG5     DC    AL1(MSG5E-MSG5T)                                    00070800
0007E8 C9D5C9E3D6C2D140             873 MSG5T    DC    C'INITOBJ - '                                       00070900
0007F2 4040404040404040             874 MSG5CS   DC    CL8' '                 Csect Name                   00071000
0007FA 40404040404040               875          DC    CL7' '                                              00071100
000801 402020202020                 876 MSG5IREC DC    XL6'402020202020'      Number of Inserted TXT Records 00071200
000807 4040404040404040             877          DC    CL12' '                                             00071300
000813 4020202020202020             878 MSG5IBC  DC    XL8'4020202020202020'  Number of Inserted Bytes      00071400
                       0081B        879 MSG5E    EQU   *                                                   00071500
00081B 2A                           880 MSG6     DC    AL1(L'MSG6T)                                        00071601
00081C C9D5C9E3D6C2D140             881 MSG6T    DC    C'INITOBJ - More than &MAXESD ESD Entries found'    00071706
                                       +MSG6T    DC    C'INITOBJ - More than 1024 ESD Entries found'       00071706
                                    882 *                                                                  00071800
                                    883 *        Headings                                                  00071902
                                    884 *                                                                  00072002
000846 4040404040404040             885 HEAD1    DC    CL80' '                                             00072102
000896                  00896 00846 886          ORG   HEAD1                                               00072202
000846 F1                           887          DC    C'1'                   ASA skip to new page         00072302
000847 40                           888          DC    CL1' '                                              00072408
000848 C9D5C9E3D6C2D140             889          DC    C'INITOBJ - Uninitialized Areas'                    00072502
000865 40                           890          DC    CL01' '                                             00072602
000866 D781878540D5964B             891          DC    C'Page No.'                                         00072702
00086E 40202020                     892 HEADPN   DC    X'40202020'                                         00072802
000872 40                           893          DC    CL1' '                                              00072908
000873                  00873 00896 894          ORG                                                       00073002
000896 4040404040404040             895 HEAD2    DC    CL80' '                                             00073102
0008E6                  008E6 00896 896          ORG   HEAD2                                               00073202
000896 40                           897          DC    C' '                   ASA space one                00073302
000897 40                           898          DC    CL1' '                                              00073408
000898 C3A28583A3404040             899          DC    C'Csect    Rel Addr(hex) Length(dec)'               00073502
0008BA 40                           900          DC    CL1' '                                              00073608
0008BB                  008BB 008E6 901          ORG                                                       00073702
0008E6 4040404040404040             902 HEAD3    DC    CL80' '                                             00073802
000936                  00936 008E6 903          ORG   HEAD3                                               00073902
0008E6 F0                           904          DC    C'0'                   ASA skip 2 lines             00074002
0008E7 4040D59640A49589             905          DC    C'  No uninitialized areas found'                   00074102
000905 40                           906          DC    CL1' '                                              00074208
000906                  00906 00936 907          ORG                                                       00074302
                                    908 *                                                                  00074402
                                    909 *        Report Detail Line                                        00074502
                                    910 *                                                                  00074602
000936 4040404040404040             911 REPDTL   DC    CL80' '                                             00074702
000986                  00986 00936 912          ORG   REPDTL                                              00074803
000936 40                           913          DC    C' '                   ASA space one                00074902
000937 40                           914          DC    CL1' '                                              00075008
000938 4040404040404040             915 REPESDID DC    CL8' '                 Name of Csect                00075102
000940 40404040                     916          DC    CL4' '                                              00075202
000944 404040404040                 917 REPRADDR DC    CL6' '                 Relative Address(hex)        00075302
00094A 404040                       918          DC    CL3' '                                              00075408
00094D 4020202020202020             919 REPLEN   DC    X'4020202020202020'    Length of area(dec)          00075507
000955 40                           920          DC    CL1' '                                              00075608
000956                  00956 00986 921          ORG                                                       00075702
000986 003A                         922 REPMAXLN DC    H'58'                  Maximum lines per page       00075802
                                    923 *                                                                  00075902
000988 C6C9D3D37E                   924 FILL     DC    C'FILL='                                            00076000
00098D D9C5D7D6D9E34040             925 REPORTDD DC    CL8'REPORT'            optional REPORT DD name      00076102
                                    926 *                                                                  00076200
000995                              927 ESD      DC    0CL4                   ESD Record Identifier        00076300
000995 02                           928          DC    X'02'                                               00076400
000996 C5E2C4                       929          DC    C'ESD'                                              00076500
000999                              930 RLD      DC    0CL4                   RLD Record Identifier        00076600
000999 02                           931          DC    X'02'                                               00076700
00099A D9D3C4                       932          DC    C'RLD'                                              00076800
00099D                              933 TXT      DC    0CL4                   TXT Record Identifier        00076900
00099D 02                           934          DC    X'02'                                               00077000
00099E E3E7E3                       935          DC    C'TXT'                                              00077100
0009A1                              936 END      DC    0CL4                   END Record Identifier        00077200
0009A1 02                           937          DC    X'02'                                               00077300
0009A2 C5D5C4                       938          DC    C'END'                                              00077400
                                    939 *                                                                  00077500
                                    940          PUSH  PRINT                                               00077600
                                    941          PRINT NOGEN                                               00077700
                                    942 *                                                                  00077800
                                    943 *        Model DCBs                                                00077900
                                    944 *                                                                  00078000
0009A8 0000000000000000             945 MODELUT1 DCB   DSORG=PS,MACRF=GM,DDNAME=SYSUT1,LRECL=80,RECFM=FB  00078100
                                    999 *                                                                  00078202
000A08 0000000000000000            1000 MODELUT2 DCB   DSORG=PS,MACRF=PM,DDNAME=SYSUT2,LRECL=80,RECFM=FB  00078300
                                   1054 *                                                                  00078402
000A68 0000000000000000            1055 MODELREP DCB   DSORG=PS,MACRF=PM,DDNAME=REPORT,LRECL=80,RECFM=FBA 00078502
                                   1109 *                                                                  00078602
                                   1110          POP   PRINT                                               00078700
                                   1111 *                                                                  00078800
                                   1112 *        Model WTO                                                 00078900
                                   1113 *                                                                  00079000
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
  Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

                                   1114 MODELWTO WTO   '                                                          X00079100
                                                                                        ', 100 ch  X00079200
                                                       ROUTCDE=(11),DESC=(7),MF=L                                  00079300
000AC8                             1115+MODELWTO DS    0F                                                          01-WTO
000AC8 0068                        1116+         DC    AL2(104)            TEXT LENGTH                             01-WTO
000ACA 8000                        1117+         DC    B'1000000000000000' MCS FLAGS                               01-WTO
000ACC 4040404040404040            1118+         DC    C'                                                         +01-WTO
                                       +                                                    '                       01-WTO
000B30 0200                        1119+         DC    B'0000001000000000' DESCRIPTOR CODES                        01-WTO
000B32 0020                        1120+         DC    B'0000000000100000' ROUTING CODES                           01-WTO
                                   1121 *                                                                           00079400
                                   1122 *        Translate table for FILLCHAR                                       00079500
                                   1123 *                                                                           00079600
000B34 0000000000000000            1124 TRTAB    DC    256X'00'              Default value                         00079700
000C34                 00C34 00BB5 1125          ORG   TRTAB+C'a'            Support upper and lower case          00079800
000BB5 0A0B0C0D0E0F                1126          DC    X'0A0B0C0D0E0F'                                             00079900
000BBB                 00BBB 00BF5 1127          ORG   TRTAB+C'A'                                                    00080000
000BF5 0A0B0C0D0E0F                1128          DC    X'0A0B0C0D0E0F'                                             00080100
000BFB                 00BFB 00C24 1129          ORG   TRTAB+C'0'                                                    00080200
000C24 0001020304050607            1130          DC    X'0001020304050607080 9'                                    00080300
000C2E                 00C2E 00C34 1131          ORG                                                              00080400
000C34 F0F1F2F3F4F5F6F7            1132 HEXTR    DC    CL16'0123456789ABCDEF'                                      00080503
000C44 4D7DC6C9D3D3C3C8            1133 IDRDATA  DC    C(''FILLCHAR 00'')'   text for IDENTIFY Record            00080600
                                   1134 *                                                                           00080700
                                   1135 *        LITERAL POOL                                                       00080800
                                   1136 *                                                                           00080900
000C58                             1137          LTORG                                                            00081000
000C58 C5E2C4C9C440D7C3            1138                =CL8'ESDID PC'
000C60 C9C4C5D5E3C9C6E8            1139                =C'IDENTIFY'
000C68 00000007                    1140                =F'7'
000C6C 00FFFFF8                    1141                =X'00FFFFF8'
000C70 00007FFF                    1142                =AL4((1024*CSDL)-1)
000C74 00008000                    1143                =AL4(1024*CSDL)
000C78 F0F0                        1144                =C'00'
000C7A 0007                        1145                =AL2(L'FILL+2)
000C7C 4040                        1146                =C'  '
000C7E 0000                        1147                =X'0000'
000C80 0003                        1148                =H'3'
000C82 0038                        1149                =AL2(L'TXTDATA)
000C84 0C                          1150                =P'0'
000C85 1C                          1151                =P'1'
                                   1152 *                                                                           00081100
                                   1153 ****************************************************************           00081200
                                   1154 *                                                                           00081300
                                   1155 *        GETMAINED WORK AREA                                                00081400
                                   1156 *                                                                           00081500
                                   1157 ****************************************************************           00081600
                                   1158 *                                                                           00081700
                                   1159 *        This area is initialized to zeros after Getmain                    00081800
                                   1160 *                                                                           00081900
000000                 00000 083BC 1161 WORKAREA DSECT                                                            00082000
000000                             1162 SAVEAREA DS    18F                                                         00082100
                                   1163 *                                                                           00082203
                                   1164 *        OPEN/CLOSE List                                                    00082303
                                   1165 *                                                                           00082403
                                   1166 OCLIST   OPEN  (,,,,,),MF=L                                                 00082503
000048                             1167+OCLIST   DC    0F'0'                       ALIGN LIST TO FULLWORD 01-OPEN
000048 00                          1168+         DC    AL1(0)                      OPTION BYTE            01-OPEN
000049 000000                      1169+         DC    AL3(0)                      DCB ADDRESS            01-OPEN
00004C 00                          1170+         DC    AL1(0)                      OPTION BYTE            01-OPEN
00004D 000000                      1171+         DC    AL3(0)                      DCB ADDRESS            01-OPEN
000050 80                          1172+         DC    AL1(128)                    OPTION BYTE            01-OPEN
000051 000000                      1173+         DC    AL3(0)                      DCB ADDRESS            01-OPEN
                                   1174 *                                                                           00082603
                                   1175 *        Subroutine Return Addrs                                            00082703
                                   1176 *                                                                           00082803
000054                             1177 WTOMSGR_RETADDR DS  F                                                       00082903
000058                             1178 CLEANUP_RETADDR DS  F                                                       00083003
00005C                             1179 GENTXTR_RETADDR DS  F                                                       00083103
000060                             1180 REPHEAD_RETADDR DS  F                                                       00083203
                                   1181 *                                                                           00083303
                                   1182 *        Work Areas                                                         00083403
                                   1183 *                                                                           00083503
000068                             1184 WORKD    DS    D                     For CVD etc                          00083603
000070                             1185 CHAR16   DS    CL16                  String Work area                     00083700
000080                             1186 FILLCHAR_X DS    XL1                 Set by Parm or default of X'00'      00083800
000081                             1187 FILLCHAR_C DS    CL2                 Set by Parm or default of C'00'      00083900
000083                             1188 FILLDEFT   DS    CL1                 Set to C'1' if no FILLCHAR           00084000
                                   1189 *                                    is provided.                       00084100
000084                             1190 REPREQ   DS    CL1                   Set to C'1' if Report DD Name        00084202
                                   1191 *                                    is present in TIOT                 00084302
000085                             1192 REPPN    DS    PL2                   Report Page Number                   00084402
000088                             1193 REPLN    DS    H                     Report Line Number                   00084502
00008A                             1194 MSG4WTO  DS    XL1                   Set to x'01' if heading MSG 4        00084600
                                   1195 *                                    WTO has been issued                00084700
00008B                             1196 MSG5WAL  DS    AL1                   Length of Text                       00084800
00008C                             1197 MSG5TEXT DS    CL100                 Text                                 00084900
                                   1198 *                                                                           00085000
                                   1199 *        WTO Area                                                           00085100
                                   1200 *                                                                           00085200
                                   1201 WTOMSGWA WTO   '                                                          X00085300
                                                                                        ', 100 ch  X00085400
                                                       ROUTCDE=(11),DESC=(7),MF=L                                  00085500
0000F0                             1202+WTOMSGWA DS    0F                                                          01-WTO
0000F0 0068                        1203+         DC    AL2(104)            TEXT LENGTH                             01-WTO
0000F2 8000                        1204+         DC    B'1000000000000000' MCS FLAGS                               01-WTO
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  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
D-Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

0000F4 4040404040404040           1205+         DC    C'                                                +01-WTO
                                      +                                                 '               01-WTO
000158 0200                       1206+         DC    B'0000001000000000' DESCRIPTOR CODES            01-WTO
00015A 0020                       1207+         DC    B'0000000000100000' ROUTING CODES               01-WTO
                     0006C        1208 WTOMSGWAL EQU  *-WTOMSGWA                                      00085600
                                  1209 *                                                              00085700
                                  1210 *        DCB Areas                                             00085800
                                  1211 *                                                              00085900
                                  1212          PUSH  PRINT                                           00086000
                                  1213          PRINT NOGEN              No need to see what DCBs look like 00086101
                                  1214 *                                                              00086200
00015C 0000000000000000           1215 SYSUT1   DCB   DSORG=PS,MACRF=GM,DDNAME=SYSUT1                 00086300
                     00060        1269 SYSUT1L  EQU   *-SYSUT1                Length of SYSUT1 DCB    00086409
0001BC 0000000000000000           1270 SYSUT2   DCB   DSORG=PS,MACRF=PM,DDNAME=SYSUT2                 00086500
                     00060        1324 SYSUT2L  EQU   *-SYSUT2                Length of SYSUT2 DCB    00086609
00021C 0000000000000000           1325 REPORT   DCB   DSORG=PS,MACRF=PM,DDNAME=REPORT                 00086702
                     00060        1379 REPORTL  EQU   *-REPORT                Length of REPORT DCB    00086809
                                  1380 *                                                              00086900
                                  1381          POP   PRINT                                           00087000
                                  1382 *                                                              00087100
                                  1383 *        Record I/O Area                                       00087200
                                  1384 *                                                              00087300
00027C                            1385          DS    0F                                              00087400
00027C                            1386 RECIN    DS    CL80                                            00087500
                                  1387 *                                                              00087600
                                  1388 *        Generated TXT Record I/O Area                         00087700
                                  1389 *                                                              00087800
0002CC                            1390          DS    0F                                              00087900
0002CC                            1391 GENREC   DS    CL80                                            00088000
                                  1392 *                                                              00088100
                                  1393 *        Generated IDENTIFY Record                             00088200
                                  1394 *                                                              00088300
00031C                            1395          DS    0F                                              00088400
00031C                            1396 IDENTREC DS    CL80                                            00088500
00036C               0036C 0031C  1397          ORG   IDENTREC                                        00088600
00031C                            1398          DS    CL8                                             00088700
000324                            1399 IDENTID  DS    C'IDENTIFY'                                     00088800
00032C                            1400          DS    C' '                                            00088900
00032D                            1401 IDENTSD  DS    CL8                                             00089000
000335                            1402 IDENTTXT DS    CL55                                            00089100
00036C               0036C 0036C  1403          ORG                                                   00089200
                                  1404 *                                                              00089302
                                  1405 *        Report I/O Area                                       00089402
                                  1406 *                                                              00089502
00036C                            1407          DS    0F                                              00089602
00036C                            1408 REPREC   DS    CL80                                            00089702
                                  1409 *                                                              00089800
                                  1410 *        Csect Control Area                                    00089900
                                  1411 *                                                              00090000
                                  1412 *        This must be at the end of the GETMAINed WORKAREA to  00090103
                                  1413 *        avoid any addressability problems                     00090203
                                  1414 *                                                              00090303
0003BC                            1415          DS    0F                                              00090400
0003BC                            1416 ESDTAB   DS    &MAXESD.XL32          Provide for &MAXESD number 00090503
                                     +ESDTAB    DS    1024XL32              Provide for &MAXESD number 00090503
                                  1417 *                                                              00090600
                                  1418 ********************************************************************** 00090700
                                  1419 *                                                              00090800
                                  1420 *        END OF GETMAINed WORK AREA                            00090903
                                  1421 *                                                              00091000
                                  1422 ********************************************************************** 00091100
                                  1423 *                                                              00091200
                     083BC        1424 WORKAREAL EQU *-WORKAREA               Length of area to Getmain 00091300
                                  1425 *                                                              00091400
                                  1426 ********************************************************************** 00091500
                                  1427 *                                                              00091600
                                  1428 *        DSECTS                                                00091700
                                  1429 *                                                              00091800
                                  1430 ********************************************************************** 00091900
                                  1431 *                                                              00092000
000000               00000 00040  1432 ESDREC   DSECT                     Define ESD Fields in ESD record 00092100
000000                            1433 ESDX02   DS    X'02'                                           00092200
000001                            1434 ESDESD   DS    C'ESD'                                          00092300
000004                            1435          DS    CL6' '                                          00092400
00000A                            1436 ESDVFC   DS    AL2                   Variable Field Count      00092500
00000C                            1437          DS    CL2' '                                          00092600
00000E                            1438 ESDESDID DS    AL2                   ESDID of First SD, ER, etc 00092700
000010                            1439 ESDVDATA DS    3XL16                 Up to three ESD ID entries 00092800
                                  1440 *                                                              00092900
000000               00000 00010  1441 ESDENT   DSECT                     Define ESD Entry in ESD Record 00093000
000000                            1442 ESDXSYMN DS    CL8                   External Symbol Name      00093100
000008                            1443 ESDTYPE  DS    XL1                   External Symbol Type Code 00093200
                     00000        1444 ESDTYPE_SD EQU X'00'                 SD                        00093300
                     00001        1445 ESDTYPE_LD EQU X'01'                 LD                        00093400
                     00002        1446 ESDTYPE_ER EQU X'02'                 ER                        00093500
                     00004        1447 ESDTYPE_PC EQU X'04'                 PC                        00093600
                     00005        1448 ESDTYPE_CM EQU X'05'                 CM                        00093700
                     00006        1449 ESDTYPE_XD EQU X'06'                 XD                        00093800
                     0000A        1450 ESDTYPE_WX EQU X'0A'                 WX                        00093900
000009                            1451 ESDADDR  DS    AL3                   Addr                      00094000
00000C                            1452 ESDFLAG  DS    XL1                   Flags                     00094100
00000D                            1453 ESDLEN   DS    AL3                   Length of SD              00094200
                     00010        1454 ESDENTL  EQU   *-ESDENT              Length of Entry           00094300
                                  1455 *                                                              00094400
000000               00000 00050  1456 TXTREC   DSECT                     Define TXT Fields in TXT Record 00094500
000000                            1457 TXTX02   DS    X'02'                                           00094600
```

```
  Active USINGs: OUT.TXTREC(X'D34'),R13+X'2CC'  IN.TXTREC(X'D84'),R13+X'27C'  ESDREC(X'D84'),R13+X'27C'
IHADCB(X'EA4'),R13+X'15C'  CSD,R8  ESDENT,R9  WORKAREA,R13  INITOBJ,R10
D-Loc  Object Code    Addr1 Addr2  Stmt   Source Statement                                X390 3.1.04  2010/06/11 16.24

000001                             1458 TXTTXT   DS    C'TXT'                                                    00094700
000004                             1459          DS    C' '                                                      00094800
000005                             1460 TXTRADDR DS    AL3                     Relative Addr of data in          00094900
                                   1461 *                                      TXTDATA                           00095000
000008                             1462          DS    C'  '                                                     00095100
00000A                             1463 TXTLEN   DS    AL2                     Length of data in TXTDATA         00095200
00000C                             1464          DS    C'  '                                                     00095300
00000E                             1465 TXTESDID DS    AL2                     ESD ID of the data                00095400
000010                             1466 TXTDATA  DS    CL56                    Data Field                        00095500
000048                             1467 TXTDID   DS    CL2                     Deck ID from Title Stmt           00095600
00004A                             1468          DS    CL6' '                  Optional Seq Number               00095700
                                   1469 *                                                                        00095800
                                   1470 *        Control Block with entry for each SD found on ESD             00095909
                                   1471 *        Records                                                       00096000
                                   1472 *                                                                        00096100
000000                00000 00020  1473 CSD      DSECT                                                         00096200
000000                             1474 CESDID   DS    AL2                     ESD ID of Csect                   00096300
000002                             1475 CNAME    DS    CL8                     Name of SD                        00096400
00000C                             1476          DS    0F                                                        00096508
00000C                             1477 CLEN     DS    AL4                     Length of SD                      00096600
000010                             1478 CPTR     DS    AL4                     Current Ptr for SD                00096700
000014                             1479 CSLOC    DS    AL4                     Starting Location                 00096800
000018                             1480 CBYTEC   DS    AL4                     Count of Inserted Bytes           00096900
00001C                             1481 CTCNT    DS    AL2                     Count of additional TXT Recs      00097008
00001E                             1482 CPAD     DS    CL2                     Padding                           00097108
                      00020        1483 CSDL     EQU   *-CSD                   Length of Control Block           00097208
                                   1484 *                                                                        00097300
                                   1485          IEZREGS                                                       00097403
                      00000        1486+R0       EQU   0                                                       01-IEZRE
                      00001        1487+R1       EQU   1                                                       01-IEZRE
                      00002        1488+R2       EQU   2                                                       01-IEZRE
                      00003        1489+R3       EQU   3                                                       01-IEZRE
                      00004        1490+R4       EQU   4                                                       01-IEZRE
                      00005        1491+R5       EQU   5                                                       01-IEZRE
                      00006        1492+R6       EQU   6                                                       01-IEZRE
                      00007        1493+R7       EQU   7                                                       01-IEZRE
                      00008        1494+R8       EQU   8                                                       01-IEZRE
                      00009        1495+R9       EQU   9                                                       01-IEZRE
                      0000A        1496+R10      EQU   10                                                      01-IEZRE
                      0000B        1497+R11      EQU   11                                                      01-IEZRE
                      0000C        1498+R12      EQU   12                                                      01-IEZRE
                      0000D        1499+R13      EQU   13                                                      01-IEZRE
                      0000E        1500+R14      EQU   14                                                      01-IEZRE
                      0000F        1501+R15      EQU   15                                                      01-IEZRE
                                   1502 *                                                                        00097503
                                   1503          PUSH  PRINT                                                   00097600
                                   1504          PRINT NOGEN                   No need to print                00097703
000000 040E0000                    1505          IHAPSA                                                        00097802
                                   1973          IKJTCB                                                        00097902
                                   2031+         PRINT OFF                                                     01-IKJTC
000000                00000 00040  2810 TIOT     DSECT                                                         00098002
                                   2811          IEFTIOT1                                                      00098102
                                   2956          DCBD  DSORG=PO,DEVD=(DA)                                      00098200
                                   3463          POP   PRINT                                                   00098300
                                   3464          END                                                           00098400
```

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```
=AL2(L'FILL+2)
                2 00000C7A 00000001  R A              1145   202
=AL2(L'TXTDATA)
                2 00000C82 00000001  R A              1149   708   714   727   728
=AL4((1024*CSDL)-1)
                4 00000C70 00000001  R A              1142   459   777
=AL4(1024*CSDL)
                4 00000C74 00000001  R A              1143   522
=C'  '          2 00000C7C 00000001  C C              1146   319
=C'IDENTIFY'
                8 00000C60 00000001  C C              1139   464
=C'00'          2 00000C78 00000001  C C              1144   178
=CL8'ESDID PC'
                8 00000C58 00000001  C C              1138   351   472
=F'7'           4 00000C68 00000001  F F              1140   354
=H'3'           2 00000C80 00000001  H H              1148   542   849
=P'0'           1 00000C84 00000001  P P              1150   170
=P'1'           1 00000C85 00000001  P P              1151   540   834
=X'00FFFFF8'
                4 00000C6C 00000001  X X              1141   355
=X'0000'        2 00000C7E 00000001  X X              1147   466   468   781
CBYTEC          4 00000018 FFFFFFFB  R A              1480   511   679   681M
CESDID          2 00000000 FFFFFFFB  R A              1474   347M  390   466   678   781
CHAR16         16 00000070 FFFFFFFF  C C              1185   210M  211M  212   213   695M  696M  697
CLEANUP         1 00000676 00000001  U                774   378B  444B
CLEANUP_RETADDR
                4 00000058 FFFFFFFF  F F              1178   775M  795
CLEANUPA        1 00000688 00000001  U                780   794B
CLEANUPB        1 000006B4 00000001  U                793   782B  787B
CLEN            4 0000000C FFFFFFFB  R A              1477   356M  785
CLOSEDS         1 00000426 00000001  U                534   341B
CLOSEDSA        1 00000450 00000001  U                551   541B  543B
CLOSEDSB        1 000004BC 00000001  U                588   539B
CLOSEDSC        1 000004E2 00000001  U                602   586B
CNAME           8 00000002 FFFFFFFB  C C              1475   348M  351M  472   474   506   693
CPTR            4 00000010 FFFFFFFB  R A              1478   359M  394   404   406M  417   419M  428   435M  682   783
                                                             790   792M
CSD             1 00000000 FFFFFFFB  J                1473   144U 1483
CSDL            1 00000020           U                1483   346   389   461   779  1142  1143
CSLOC           4 00000014 FFFFFFFB  R A              1479   360M  784
CTCNT           2 0000001C FFFFFFFB  R A              1481   468   507   724   726M  751   753M
DCBBIT0         1 00000080           U                2978  3064  3072  3084  3107  3134  3136  3137  3139  3162  3165
                                                            3185  3189  3204  3241  3296  3320  3359  3363  3376
DCBBIT1         1 00000040           U                2979  3065  3073  3086  3108  3109  3118  3134  3136  3138  3139
                                                            3167  3185  3187  3189  3207  3208  3209  3244  3245  3296
                                                            3322  3365  3367  3379  3423
DCBBIT2         1 00000020           U                2980  3066  3074  3087  3088  3089  3108  3109  3113  3119  3134
                                                            3135  3140  3169  3190  3191  3212  3213  3214  3248  3249
                                                            3297  3327  3368  3384  3426  3429
DCBBIT3         1 00000010           U                2981  3067  3087  3089  3090  3108  3121  3141  3172  3190  3193
                                                            3216  3217  3218  3252  3253  3297  3329  3332  3334  3370
                                                            3385  3426  3430
DCBBIT4         1 00000008           U                2982  3075  3122  3142  3173  3195  3200  3201  3221  3222  3256
                                                            3257  3259  3260  3298  3337  3386  3426  3431
DCBBIT5         1 00000004           U                2983  3076  3123  3145  3146  3175  3195  3197  3198  3201  3225
                                                            3227  3228  3229  3263  3264  3265  3266  3298  3339  3342
                                                            3372  3388  3421
DCBBIT6         1 00000002           U                2984  3068  3124  3125  3128  3145  3147  3176  3232  3233  3234
                                                            3235  3269  3270  3271  3272  3299  3345  3390  3432
DCBBIT7         1 00000001           U                2985  3069  3124  3126  3128  3149  3180  3237  3238  3275  3276
                                                            3278  3279  3348  3374  3391  3434
DCBEODA         3 00000021 FFFFFFF6  R A              3130   176M
DCBFDAD         8 00000005 FFFFFFF6  C C              3005  3008
END             4 000009A1 00000001  C C               936   297
ENDPROC         1 0000054A 00000001  U                 640   279B
ESD             4 00000995 00000001  C C               927   291
ESDADDR         3 00000009 FFFFFFFD  R A              1451   358
ESDENT          1 00000000 FFFFFFFD  J                1441   143U 1454
ESDENTL         1 00000010           U                1454   366
ESDESDID        2 0000000E FFFFFFFE  R A              1438   319   322
ESDLEN          3 0000000D FFFFFFFD  R A              1453   353   357M
ESDREC          1 00000000 FFFFFFFE  J                1432   146U
ESDTAB         32 000003BC FFFFFFFF  X X              1416   346   389   458   521   776
ESDTYPE         1 00000008 FFFFFFFD  X X              1443   324   326   328   349
ESDTYPE_LD
                1 00000001           U                1445   324
ESDTYPE_PC
                1 00000004           U                1447   328   349
ESDTYPE_SD
                1 00000000           U                1444   326
ESDVDATA       16 00000010 FFFFFFFE  X X              1439   318
ESDVFC          2 0000000A FFFFFFFE  R A              1436   316
ESDXSYMN        8 00000000 FFFFFFFD  C C              1442   348
FILL            5 00000988 00000001  C C               924   204   209   210  1145
FILLCHAR_C
                2 00000081 FFFFFFFF  C C              1187   178M  209M  484   677
FILLCHAR_X
                1 00000080 FFFFFFFF  X X              1186   177M  212M  213M  715   736
FILLDEFT        1 00000083 FFFFFFFF  C C              1188   194M  470
FLCEICOD        2 00000086 FFFFFFFA  H H              1579  1580
FLCENPSW        4 00000058 FFFFFFFA  X X              1558  1560
FLCEOPSW        8 00000018 FFFFFFFA  X X              1541  1542
FLCINPSW        4 00000078 FFFFFFFA  X X              1571  1573
FLCIOPSW        8 00000038 FFFFFFFA  X X              1549  1550
FLCIPPSW        8 00000000 FFFFFFFA  C C              1532  1535
FLCMNPSW        4 00000070 FFFFFFFA  X X              1567  1570
FLCMOPSW        8 00000030 FFFFFFFA  X X              1547  1548
```

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```
FLCPICOD        2 0000008E FFFFFFFA  H H              1599  1600
FLCPIILC        1 0000008D FFFFFFFA  G F              1593  1598
FLCPNPSW        4 00000068 FFFFFFFA  X X              1564  1566
FLCPOPSW        8 00000028 FFFFFFFA  X X              1545  1546
FLCSNPSW        4 00000060 FFFFFFFA  X X              1561  1563
FLCSOPSW        8 00000020 FFFFFFFA  X X              1543  1544
FLCSVCN         2 0000008A FFFFFFFA  H H              1589  1590
FLCSVILC        1 00000089 FFFFFFFA  G F              1584  1588
FLCTIMER        4 00000050 FFFFFFFA  X X              1555  1556
GENMVC          6 00000670 00000001  I                757   742X
GENREC         80 000002CC FFFFFFFF  C C              1391   148U  180M  181M  182M  720   747
GENTXTA         1 000005E6 00000001  U                707   684B  729B
GENTXTB         1 0000062A 00000001  U                731   709B
GENTXTC         1 0000064A 00000001  U                740   737B
GENTXTD         1 00000650 00000001  U                743   739B
GENTXTP         1 000005AC 00000001  U                691   689B
GENTXTR         1 0000056E 00000001  U                675   429B  789B
GENTXTR_RETADDR
                4 0000005C FFFFFFFF  F F              1179   676M  754
HEADPN          4 0000086E 00000001  X X               892   835M
HEAD1          80 00000846 00000001  C C               885   833   835M  886
HEAD2          80 00000896 00000001  C C               895   845   896
HEAD3          80 000008E6 00000001  C C               902   547   903
HEXTR          16 00000C34 00000001  C C              1132   696
IDENTID         8 00000324 FFFFFFFF  C C              1399   464M
IDENTREC       80 0000031C FFFFFFFF  C C              1396   462M  463M  488  1397
IDENTSD         8 0000032D FFFFFFFF  C C              1401   474M
IDENTTXT       55 00000335 FFFFFFFF  C C              1402   475M  476M  477
IDRDATA        15 00000C44 00000001  C C              1133   483   484M
IHADCB          1 00000000 FFFFFFF6  J                2961   145U 3046  3093  3158  3287  3302  3315  3411  3417  3444
IN                *** Qualifier ***  U                 147   147U  386   390   394   405   415   416   427   433   434
MODELREP        4 00000A68 00000001  F F              1059   174
MODELUT1        4 000009A8 00000001  F F               949   172
MODELUT2        4 00000A08 00000001  F F              1004   173
MODELWTO        4 00000AC8 00000001  F F              1115   179
MSG1            1 00000728 00000001  R A               864   195
MSG1T          53 00000729 00000001  C C               865   864
MSG2            1 0000075E 00000001  R A               866   218
MSG2T          43 0000075F 00000001  C C               867   866
MSG3            1 0000078A 00000001  R A               868   276
MSG3T          36 0000078B 00000001  C C               869   868
MSG4            1 000007AF 00000001  R A               870   500
MSG4T          55 000007B0 00000001  C C               871   870
MSG4WTO         1 0000008A FFFFFFFF  X X              1194   498   502M
MSG5            1 000007E7 00000001  R A               872   504   527
MSG5CS          8 000007F2 00000001  C C               874   506M
MSG5E           1 0000081B 00000001  U                 879   872
MSG5IBC         8 00000813 00000001  X X               878   513M
MSG5IREC        6 00000801 00000001  X X               876   509M
MSG5T          10 000007E8 00000001  C C               873   506M  509M  513M  872
MSG5TEXT      100 0000008C FFFFFFFF  C C              1197   506M  509M  513M
MSG5WAL         1 0000008B FFFFFFFF  R A              1196   515   527M
MSG6            1 0000081B 00000001  R A               880   338
MSG6T          42 0000081C 00000001  C C               881   880
MVCMSG          6 000006E4 00000001  I                 823   814X
MVCMSG5         6 00000420 00000001  I                 527   505X
OCLIST          4 00000048 FFFFFFFF  F F              1167   227M  230   256M  259   554   591
OPENDS          1 00000110 00000001  U                 223   197B  214B
OPENDSA         1 00000174 00000001  U                 255   225B
OPENDSB         1 000001AA 00000001  U                 273   251B
OUT               *** Qualifier ***  U                 148   148U  677   678   713   714   715   716   732   733   734
                                                               735   736   757
PPROCA          1 000000D4 00000001  U                 201   190B
PPROCB          4 00000108 00000001  I                 218   203B  205B
PROCEND         1 0000032E 00000001  U                 440   298B
PROCENDA        1 0000035E 00000001  U                 465   519B
PROCENDB        1 00000398 00000001  U                 478   481B
PROCENDC        1 000003A4 00000001  U                 482   480B
PROCENDD        1 0000040C 00000001  U                 518   467B  469B  497B
PROCENDF        1 000003BE 00000001  U                 494   471B  473B
PROCENDG        1 000003DA 00000001  U                 503   499B
PROCESD         1 00000208 00000001  U                 314   292B
PROCESDA        1 00000226 00000001  U                 323   368B
PROCESDB        1 000002A0 00000001  U                 362   330B
PROCESDC        1 0000025C 00000001  U                 343   334B
PROCESDG        4 00000242 00000001  I                 332   327B  329B
PROCESDL        1 000002A4 00000001  U                 365   325B
PROCESDN        2 0000027E 00000001  I                 352   350B
PROCESS         1 000001C0 00000001  U                 283   253B  275B  310B  525B
PROCESSW        1 000001F6 00000001  U                 302   320B  370B  380B  392B  407B  418B  420B  436B
PROCRLD         1 000002B0 00000001  U                 374   294B
PROCTXT         1 000002B8 00000001  U                 384   296B
PROCTXTE        1 000002E4 00000001  U                 403   396B
PROCTXTH        1 0000030E 00000001  U                 425   398B
PROCTXTL        1 000002F4 00000001  U                 413   397B
PSA             1 00000000 FFFFFFFA  J                1530   152  1742  1747
PSAIPCDM        1 0000026C FFFFFFFA  X X              1748  1747
PSAIPCRM        1 00000264 FFFFFFFA  X X              1743  1742
PSATNEW         4 00000218 FFFFFFFA  A A              1675  1676
PSATOLD         4 0000021C FFFFFFFA  A A              1677   152
RECIN          80 0000027C FFFFFFFF  C C              1386   146U  147U  287   291   293   295   297   306   449
REPDTL         80 00000936 00000001  C C               911   692   693M  697M  699M  912
REPESDID        8 00000938 00000001  C C               915   693M
REPHEAD         2 000006EA 00000001  H H               831   252B  690B
REPHEAD_RETADDR
                4 00000060 FFFFFFFF  F F              1180   832M  850
REPLEN          8 0000094D 00000001  X X               919   699M
```

```
REPLN            2 00000088 FFFFFFFF  H H              1193   542   685   687M  849M
REPMAXLN         2 00000986 00000001  H H               922   688
REPORT           4 0000021C FFFFFFFF  F F              1329   174M  245   546   564   570   702   838   844  1379
REPORTDD         8 0000098D 00000001  C C               925   159
REPORTL          1 00000060           U                1379   174
REPPN            2 00000085 FFFFFFFF  P P              1192   170M  540   834M  835
REPRADDR         6 00000944 00000001  C C               917   697M
REPREC          80 0000036C FFFFFFFF  C C              1408   692M  693M  697M  699M  703   833M  835M  839
REPREQ           1 00000084 FFFFFFFF  C C              1190   169M  224   495   538   683
RLD              4 00000999 00000001  C C               930   293
R0               1 00000000           U                1486   133
R1               1 00000001           U                1487   119   132   136   137   138   175M  176   187M  195M  204
                                                               209   210   218M  276M  332M  333   338M  352M  353M  354M
                                                               355M  356   357   358M  359   360   404M  405M  406   414M
                                                               415M  416M  417   419   477M  479   481M  483   484   500M
                                                               504M  505   507M  508   511M  512   515M  644M  679M  680M
                                                               681   685M  686M  687   688   724M  725M  726   751M  752M
                                                               753   812   823
R10              1 0000000A           U                1496   107U  118M
R13              1 0000000D           U                1499   136   137   138M  142U  644   645M
R14              1 0000000E           U                1500   135M  196M  219M  252M  277M  339M  378M  429M  444M  501M
                                                               516M  676   690M  754M  755B  775   789M  795M  796B  808
                                                               820M  821B  832   850M  851B
R15              1 0000000F           U                1501   118   134M  250M  274M  656M
R2               1 00000002           U                1488   152M  153   155M  157M  161   188M  189M  202   315M  316M
                                                               317M  368M  426M  427M  428M  432M  433M  434M  435   521M
                                                               524M  680   698   708   728M  733   737M  741M  742   785M
                                                               786M  788   790M  791M  792   811M  812M  813M  814
R3               1 00000003           U                1489   321M  322M  333   344   347   363M  385M  386M  387   522M
                                                               682M  694   713   727M  732
R4               1 00000004           U                1490   132M  135M  153M  154U  161M  164D  524M  783M  784M  786
                                                               788M  791
R5               1 00000005           U                1491   133M  523M
R6               1 00000006           U                1492   461M  519   779M  794
R7               1 00000007           U                1493   459M  460M  777M  778M
R8               1 00000008           U                1494   144U  344M  345M  346M  387M  388M  389M  458M  460   519M
                                                               776M  778   794M
R9               1 00000009           U                1495   119M  143U  186M  187   188   278M  318M  340M  366M  638M
                                                               656
SCANTIOT         1 00000056 00000001  U                 156   162B
SCANTIOTA
                 1 0000006E 00000001  U                 168   160B
SCANTIOTX
                 1 00000078 00000001  U                 171   158B
SYSUT1           4 0000015C FFFFFFFF  F F              1219   145U  172M  232   261   286   556   593   605  1269
SYSUT1EOD
                 1 00000426 00000001  U                 532   175
SYSUT1L          1 00000060           U                1269   172
SYSUT2           4 000001BC FFFFFFFF  F F              1274   173M  237   268   305   448   487   560   597   622   719
                                                               746  1324
SYSUT2L          1 00000060           U                1324   173
TCB              1 00000020 FFFFFFF9  U                2047   153  2733
TCBDARPN         1 00000040           U                2373  2375
TCBDARTN         1 00000080           U                2370  2372
TCBFIX           1 00000000 FFFFFFF9  J                2035  2042
TCBMNLEN         1 00000128           U                2733  2804
TCBPXLEN         1 00000020           U                2042  2804
TCBTIO           4 0000002C FFFFFFF9  A A              2060   153
TCBXTNT2         1 00000000 FFFFFFF8  J                2738  2802
TCBX2LEN         1 00000020           U                2802  2804
TIOEDDNM         8 0000001C FFFFFFF7  C C              2894   159
TIOELNGH         1 00000018 FFFFFFF7  G F              2851   157
TIOT1            1 00000000 FFFFFFF7  U                2827   154U
TRTAB            1 00000B34 00000001  X X              1124   211  1125  1127  1129
TXT              4 0000099D 00000001  C C               933   182   295
TXTDATA         56 00000010 FFFFFFFC  C C              1466   715M  716M  734M  735M  736M  757M 1149
TXTDID           2 00000048 FFFFFFFC  C C              1467   677M
TXTESDID         2 0000000E FFFFFFFC  R A              1465   386   390   678M
TXTLEN           2 0000000A FFFFFFFC  R A              1463   405   416   434   714M  733M
TXTRADDR         3 00000005 FFFFFFFC  R A              1460   394   415   427   433   713M  732M
TXTREC           1 00000000 FFFFFFFC  J                1456   147U  148U
WORKAREA         1 00000000 FFFFFFFF  J                1161   142U 1424
WORKAREAL
                 1 000083BC           U                1424   128   651
WORKD            8 00000068 FFFFFFFF  D D              1184   508M  509   512M  513   694M  695   698M  699
WTOMSGR          2 000006BE 00000001  H H               804   196B  219B  277B  339B  501B  516B
WTOMSGR_RETADDR
                 4 00000054 FFFFFFFF  F F              1177   808M  820
WTOMSGWA         4 000000F0 FFFFFFFF  F F              1202   179M  809M  810M  817   823M 1208
WTOMSGWAL
                 1 0000006C           U                1208   179
```

Register References (M=modified, B=branch, U=USING, D=DROP, N=index) X390 3.1.04 2010/06/11 16.24

```
    0(0)   116   129M  133   232M  233   237M  238   245M  246   261M  262   268M  269   287M  306M  449M  488M  547M
           556M  557   560M  561   564M  565   577M  582M  593M  594   597M  598   612M  617M  629M  634M  652M  660M
           703M  720M  747M  839M  845M
    1(1)   116   119   127M  129   132   136   137   138   175M  176   187M  195M  204   209   210   218M  230M  231N
           233N  234N  235   236N  238N  239N  240   241   242   243   244N  246N  247N  259M  260N  262N  263N  264
           265   266   267N  269N  270N  276M  286M  288   305M  307   332M  333   338M  352M  353M  354M  355M  356
           357   358M  359   360   404M  405M  406   414M  415M  416M  417   419   448M  450   477M  479   481M  483
           484   487M  489   500M  504M  505   507M  508   511M  512   515M  546M  548   554M  555N  557N  558N  559N
           561N  562N  563N  565N  566N  570M  571   572   574M  575M  577M  578M  581M  582   583M  591M  592N  594N
           595N  596N  598N  599N  605M  606   607   609M  610M  612M  613M  616M  617   618M  622M  623   624   626M
           627M  629M  630M  633M  634   635M  644M  653M  660M  679M  680M  681   685M  686M  687   688   702M  704
           719M  721   724M  725M  726   746M  748   751M  752M  753   812   817M  823   838M  840   844M  846
    2(2)   116   152M  153   155M  157M  161   188M  189M  202   315M  316M  317M  368M  426M  427M  428M  432M  433M
           434M  435   521M  524M  660M  680   698   708   728M  733   737M  741M  742   785M  786M  788   790M  791M
           792   811M  812M  813M  814
    3(3)   116   321M  322M  333   344   347   363M  385M  386M  387   522M  524M  660M  682M  694   713   727M  732
    4(4)   116   132M  135M  153M  154U  161M  164D  524M  660M  783M  784M  786   788M  791
    5(5)   116   133M  135M  523M  524M  660M
    6(6)   116   461M  519   660M  779M  794
    7(7)   116   459M  460M  519   660M  777M  778M  794
    8(8)   116   144U  344M  345M  346M  346N  387M  388M  389M  389N  458M  460   519M  660M  776M  778   794M
    9(9)   116   119M  143U  186M  187   188   278M  318M  340M  366M  638M  656   660M
   10(A)   107U  116   118M  660M
   11(B)   116   660M
   12(C)   116   660M
   13(D)   116   136   137   138M  142U  644   645M  659N  660
   14(E)   116   135M  196M  219M  231M  234   236M  239   244M  247   252M  260M  263   267M  270   277M  289M  308M
           339M  378M  429M  444M  451M  490M  501M  516M  549M  555M  558   559M  562   563M  566   573M  576M  577
           592M  595   596M  599   608M  611M  612   625M  628M  629   659M  661B  676   690M  705M  722M  749M  754M
           755B  775   789M  795M  796B  808   820M  821B  832   841M  847M  850M  851B 1940B 1943B
   15(F)   110B  116   118   134M  135M  250M  274M  288M  289B  307M  308B  450M  451B  489M  490B  548M  549B  571M
           575   576   579   583   606M  610   611   614   618   623M  627   628   631   635   656M  704M  705B  721M
           722B  748M  749B  840M  841B  846M  847B
```

Dsect	Length	Id	Defn	Con	Member
CSD	00000020	FFFFFFFB	1473		PRIMARY INPUT
ESDENT	00000010	FFFFFFFD	1441		PRIMARY INPUT
ESDREC	00000040	FFFFFFFE	1432		PRIMARY INPUT
IHADCB	00000058	FFFFFFF6	2961	1	DCBD
PSA	00001000	FFFFFFFA	1530	2	IHAPSA
TCBFIX	00000148	FFFFFFF9	2035	2	IKJTCB
TCBXTNT2	00000020	FFFFFFF8	2738	2	IKJTCB
TIOT	00000040	FFFFFFF7	2810		PRIMARY INPUT
TXTREC	00000050	FFFFFFFC	1456		PRIMARY INPUT
WORKAREA	000083BC	FFFFFFFF	1161		PRIMARY INPUT

Con Source Members X390 3.1.04 2010/06/11 16.24

```
  1 SYS1.MACLIB
               CLOSE    DCB      DCBD     FREEMAIN FREEPOOL GET      GETMAIN  IEZREGS  IHBINNRA IHB01    OPEN
               PUT      RETURN   SAVE     WTO
  2 SYS1.AMODGEN
               IEFTIOT1 IHAPSA   IKJTCB
  3 SYSD.TOOLS.MACLIB
```

Stmt	Level	Action	Type	Id	Address	Range	Reg	Max	Last	Text
107		USING	Ordinary	00000001	00000000	00001000	10	00C85	849	*,R10
142		USING	Ordinary	FFFFFFFF	00000000	00001000	13	003BC	850	WORKAREA,R13
143		USING	Ordinary	FFFFFFFD	00000000	00001000	9	0000D	358	ESDENT,R9
144		USING	Ordinary	FFFFFFFB	00000000	00001000	8	0001C	792	CSD,R8
145		USING	Dependent	FFFFFFF6	+0000015C	00000EA4	13	0017D	176	IHADCB,SYSUT1
146		USING	Dependent	FFFFFFFE	+0000027C	00000D84	13	0028C	322	ESDREC,RECIN
147		USING	Lab+Depnd	FFFFFFFC	+0000027C	00000D84	13	0028A	434	IN.TXTREC,RECIN
148		USING	Lab+Depnd	FFFFFFFC	+000002CC	00000D34	13	00314	757	OUT.TXTREC,GENREC
154		USING	Ordinary	FFFFFFF7	00000000	00001000	4	0001C	159	TIOT1,R4
164		DROP					4			R4

No statements flagged in this assembly.

TACHYON LEGACY ASSEMBLER, VERSION 3.1.04

SYSTEM: MVS 3.8 JOBNAME: T1IO STEPNAME: ASM

Primary input: lines 1 to 984 of SYSD.TOOLS.ASM(INITOBJ)

SYSLIB library records read: 7564

SYSUT1 work file size: 203660 bytes

SYSUT2 work file size: 717598 bytes

SYSUT3 work file size: 78720 bytes

SYSGO file records written: 70

TXA000I Return code 0, elapsed time 1.64 seconds.

INITOBJ - Uninitialized Areas Page No. 1

Csect	Rel Addr(hex)	Length(dec)
INITOBJ	000C86	2

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,LET,MAP,RENT,REFR
DEFAULT OPTION(S) USED - SIZE=(1017856,516096)
IEW0000 NAME INITOBJ(R) 00000905

MODULE MAP

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
INITOBJ	00	C88								

ENTRY ADDRESS 00

TOTAL LENGTH C88
****INITOBJ NOW REPLACED IN DATA SET
AUTHORIZATION CODE IS 0.
**MODULE HAS BEEN MARKED REENTERABLE, REUSABLE, AND REFRESHABLE.