J E S 2 J O B L O G

```
17.06.43 JOB  119  IEF677I WARNING MESSAGE(S) FOR JOB VSTESTE5 ISSUED
17.06.43 JOB  119  $HASP373 VSTESTE5 STARTED - INIT  1 - CLASS A - SYS HMVS
17.06.43 JOB  119  IEF403I VSTESTE5 - STARTED - TIME=17.06.43
17.06.43 JOB  119  IEC130I SYSPUNCH DD STATEMENT MISSING
17.06.43 JOB  119  IEC130I SYSPUNCH DD STATEMENT MISSING
17.06.43 JOB  119  CCI001C COB     /IKFCBL00/00:00:00.06/        /00000/1       /VSTESTE5
17.06.43 JOB  119  CCI001C LKED    /IEWL    /00:00:00.02/        /00000/1       /VSTESTE5
17.06.43 JOB  119  CCI001C GO      /PGM=*.DD/00:00:00.01/        /00000/1       /VSTESTE5
17.06.43 JOB  119  IEF404I VSTESTE5 - ENDED - TIME=17.06.43
17.06.43 JOB  119  $HASP395 VSTESTE5 ENDED


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


 07 JUL 20 JOB EXECUTION DATE


        34 CARDS READ


       524 SYSOUT PRINT RECORDS


         0 SYSOUT PUNCH RECORDS


      0.00 MINUTES EXECUTION TIME
```

```
 1     //VSTESTE5 JOB 1,'VSAMIO IVP ESDSADDT ',CLASS=A,MSGCLASS=X,             JOB  119
       //             REGION=4096K
       ***
       ********************************************************************
       *** COBOL MODULE: ESDSADDT     VSAM DATASET: VSTESTES.CLUSTER (ESDS)
       ***
       *** SEQUENTIALLY ADDS (APPENDS) RECORDS ONTO ENTRY SEQUENCED DATASET
       ********************************************************************
       ***
 2     //COB     EXEC COBUCLG,REGION.GO=1024K,CPARM1='LOAD,LIB,DMAP'
 3     XXCOBUCLG PROC CPARM1='LOAD,SUPMAP',                               100010000
       XX             CPARM2='SIZE=2048K,BUF=1024K'                        00020000
 4     XXCOB  EXEC  PGM=IKFCBL00,REGION=4096K,                             00040001
       XX           PARM='&CPARM1,&CPARM2'                                 00050001
 5     XXSTEPLIB  DD DSN=SYSC.LINKLIB,DISP=SHR                             00051001
 6     XXSYSPRINT  DD SYSOUT=*                                             00060000
 7     XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100))                        00070000
 8     XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100))                        00080000
 9     XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100))                        00090000
10     XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100))                        00100000
11     XXSYSLIN DD DSN=&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,                00110000
       XX             SPACE=(80,(500,100))                                 00120000
12     //COB.SYSLIB DD DSN=SYSC.VSAMIO.SOURCE,DISP=SHR
13     //COB.SYSIN DD DSN=SYSC.VSAMIO.SOURCE(ESDSADDT),DISP=SHR
14     XXLKED EXEC PGM=IEWL,PARM='LIST,XREF,LET',COND=(5,LT,COB),REGION=96K  00130000
15     XXSYSLIN  DD DSN=&LOADSET,DISP=(OLD,DELETE)                         00140000
16     XX  DD  DDNAME=SYSIN                                                00150000
17     XXSYSLMOD DD DSN=&GODATA(RUN),DISP=(NEW,PASS),UNIT=SYSDA,           00160000
       XX             SPACE=(1024,(50,20,1))                               00170000
18     //LKED.SYSLIB DD
       X/SYSLIB DD   DSN=SYSC.COBLIB,DISP=SHR                              00180000
19     //         DD  DSN=SYSC.LINKLIB,DISP=SHR
20     XXSYSUT1 DD UNIT=SYSDA,SPACE=(1024,(50,20))                         00190000
21     XXSYSPRINT DD SYSOUT=*                                              00200000
22     XXGO  EXEC PGM=*.LKED.SYSLMOD,COND=((5,LT,COB),(5,LT,LKED))         00210000
23     //GO.SYSOUT DD SYSOUT=X
24     //GO.SYSIN DD *
25     //GO.SYSUDUMP DD SYSOUT=X
26     //GO.ESDSF01 DD DSN=PUB001.VSTESTES.CLUSTER,DISP=OLD
```

```
 STMT NO. MESSAGE
-
    4     IEF653I SUBSTITUTION JCL - PARM='LOAD,LIB,DMAP,SIZE=2048K,BUF=1024K'
   22     IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR VSTESTE5 COB COB
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00179
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 380  ALLOCATED TO SYSUT1
IEF237I 251  ALLOCATED TO SYSUT2
IEF237I 370  ALLOCATED TO SYSUT3
IEF237I 252  ALLOCATED TO SYSUT4
IEF237I 251  ALLOCATED TO SYSLIN
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO SYSIN
IEC130I SYSPUNCH DD STATEMENT MISSING
IEC130I SYSPUNCH DD STATEMENT MISSING
IEF142I VSTESTE5 COB COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYSC.LINKLIB                                 KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   UCSYSCPK                                     KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   JES2.JOB00119.SO0102                         SYSOUT
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000001     DELETED       *--------6
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000002     DELETED       *--------6
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000003     DELETED       *--------9
IEF285I   VOL SER NOS= MVS370.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000004     DELETED       *--------6
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.LOADSET      PASSED        *-------68
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYSC.VSAMIO.SOURCE                           KEPT          *--------6
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   SYSC.VSAMIO.SOURCE                           KEPT          *--------3
IEF285I   VOL SER NOS= SYSCPK.
IEF373I STEP /COB     / START 20189.1706
IEF374I STEP /COB     / STOP  20189.1706 CPU    0MIN 00.06SEC SRB    0MIN 00.02SEC VIRT  2076K SYS   216K
**** JOBCARD READ 20189 17:06:43 *************************************************************************************
*                                          PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                                   *
*  STEP NAME  COB         USER CORE         2076K   TAPES USED/IO 000/000000000   START   TIME  17:06:43    TCB TIME  00:00:00.06  *
*  PGM  NAME  IKFCBL00    SYSTEM CORE        216K   DISKS USED/IO 005/000000104   STOP    TIME  17:06:43    SRB TIME  00:00:00.02  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  17:06:43      ELAPSED TIME                 PGM LOAD  17:06:43   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            612   00:00:00.09           0             0         0             0             0             0             0  *
*************************************************************************************************************************************
*  CPU $ (     0.02) + EXCP $ (     0.14) + MEMORY $ (     0.35) = TOTAL $ (     0.51)                                                 *
*************************************************************************************************************************************
IEF236I ALLOC. FOR VSTESTE5 LKED COB
IEF237I 251  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO
IEF237I 380  ALLOCATED TO SYSLMOD
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00181
IEF237I 370  ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I VSTESTE5 LKED COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS20189.T170643.RA000.VSTESTE5.LOADSET      DELETED       *-------69
IEF285I   VOL SER NOS= WORK00.
```

```
IEF285I   SYS20189.T170643.RA000.VSTESTE5.GODATA       PASSED         *-------12
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYSC.COBLIB                                  KEPT           *-------27
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   SYSC.LINKLIB                                 KEPT           *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   UCSYSCPK                                     KEPT           *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000005     DELETED        *--------0
IEF285I   VOL SER NOS= MVS370.
IEF285I   JES2.JOB00119.SO0103                         SYSOUT
IEF373I STEP /LKED    / START 20189.1706
IEF374I STEP /LKED    / STOP  20189.1706 CPU    0MIN 00.02SEC SRB    0MIN 00.00SEC VIRT   260K SYS   208K
********************************************************************************************************************
*                                        PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                             *
*  STEP NAME  LKED        USER CORE          260K   TAPES USED/IO 000/000000000   START   TIME  17:06:43    TCB TIME  00:00:00.02  *
*  PGM  NAME  IEWL        SYSTEM CORE        208K   DISKS USED/IO 004/000000108   STOP    TIME  17:06:43    SRB TIME  00:00:00.00  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  17:06:43      ELAPSED TIME                PGM LOAD  17:06:43   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            569   00:00:00.03            0              0         0              0              0             0  *
********************************************************************************************************************
*  CPU $ (     0.00) + EXCP $ (     0.14) + MEMORY $ (     0.01) = TOTAL $ (     0.15)                                 *
********************************************************************************************************************
IEF236I ALLOC. FOR VSTESTE5 GO COB
IEF237I 380  ALLOCATED TO PGM=*.DD
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I 190  ALLOCATED TO ESDSF01
IEF237I 190  ALLOCATED TO SYS00183
IEF142I VSTESTE5 GO COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS20189.T170643.RA000.VSTESTE5.GODATA       KEPT           *--------0
IEF285I   VOL SER NOS= MVS380.
IEF285I   JES2.JOB00119.SO0104                         SYSOUT
IEF285I   JES2.JOB00119.SI0101                         SYSIN
IEF285I   JES2.JOB00119.SO0105                         SYSOUT
IEF285I   PUB001.VSTESTES.CLUSTER                      KEPT           *--------2
IEF285I   VOL SER NOS= PUB001.
IEF285I   UCPUB001                                     KEPT           *--------0
IEF285I   VOL SER NOS= PUB001.
IEF373I STEP /GO      / START 20189.1706
IEF374I STEP /GO      / STOP  20189.1706 CPU    0MIN 00.01SEC SRB    0MIN 00.00SEC VIRT    60K SYS   220K
********************************************************************************************************************
*                                        PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                             *
*  STEP NAME  GO          USER CORE          60K   TAPES USED/IO 000/000000000   START   TIME  17:06:43    TCB TIME  00:00:00.01  *
*  PGM  NAME  PGM=*.DD    SYSTEM CORE       220K   DISKS USED/IO 002/000000002   STOP    TIME  17:06:43    SRB TIME  00:00:00.00  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  17:06:43      ELAPSED TIME                PGM LOAD  17:06:43   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004             39   00:00:00.01            0              0         0              0              0             0  *
********************************************************************************************************************
*  CPU $ (     0.00) + EXCP $ (     0.00) + MEMORY $ (     0.00) = TOTAL $ (     0.00)                                 *
********************************************************************************************************************
IEF237I 380  ALLOCATED TO SYS00001
IEF285I   SYS20189.T170643.RA000.VSTESTE5.R0000001     KEPT           *--------0
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T170643.RA000.VSTESTE5.GODATA       DELETED
IEF285I   VOL SER NOS= MVS380.
IEF375I  JOB /VSTESTE5/ START 20189.1706
IEF376I  JOB /VSTESTE5/ STOP  20189.1706 CPU    0MIN 00.09SEC SRB    0MIN 00.02SEC
```

```
00001   000100 IDENTIFICATION DIVISION.                                  12180000
00002   000200 PROGRAM-ID. ESDSADDT.                                     12190000
00003   000300 AUTHOR. JAY MOSELEY.                                      12200000
00004   000400 DATE-WRITTEN. NOVEMBER, 2001.                             12210000
00005   000500 DATE-COMPILED. JUL  7,1920.                               12220000
00006   001200 ENVIRONMENT DIVISION.                                     12290000
00007   001300 CONFIGURATION SECTION.                                    12300000
00008   001400 SOURCE-COMPUTER. IBM-370.                                 12310000
00009   001500 OBJECT-COMPUTER. IBM-370.                                 12320000
00010   001600                                                           12330000
00011   001700 INPUT-OUTPUT SECTION.                                     12340000
00012   001800 FILE-CONTROL.                                             12350000
00013   001900                                                           12360000
00014   002000     SELECT RECORD-IMAGES                                  12370000
00015   002100         ASSIGN TO UR-2540R-S-SYSIN.                       12380000
00016   002200                                                           12390000
00017   002300 DATA DIVISION.                                            12400000
00018   002400 FILE SECTION.                                             12410000
00019   002500 FD  RECORD-IMAGES                                         12420000
00020   002600     LABEL RECORDS ARE OMITTED                             12430000
00021   002700     BLOCK CONTAINS 0 RECORDS                              12440000
00022   002800     DATA RECORD IS RECORD-IMAGE.                          12450000
00023   002900                                                           12460000
00024   003000 01  RECORD-IMAGE                PIC X(80).               12470000
00025   003100                                                           12480000
00026   003200 WORKING-STORAGE SECTION.                                  12490000
00027   003300 77  END-OF-FILE-SWITCH          PIC X(1)    VALUE 'N'.   12500000
00028   003400     88  END-OF-FILE                          VALUE 'Y'.   12510000
00029   003500                                                           12520000
00030   003600 77  RECORD-COUNTER              PIC S9(8)   VALUE +0.    12530000
00031   003700 77  COUNTER-EDIT                PIC  ZZ,ZZZ,ZZ9.         12540000
00032   003800                                                           12550000
00033   003900 01  VSIO-PARAMETER-VALUES       COPY VSAMIO.             12560000
00034 C 000100* ************************************************************06980000
00035 C 000200*                                                          *06990000
00036 C 000300*        VV   VV  SSSSS     A    M     M  IIII    OOOOO    *07000000
00037 C 000400*        VV   VV SS   SS   AAA   MM   MM   II    OO   OO   *07010000
00038 C 000500*        VV   VV SS       AA AA  MMM MMM   II    OO   OO   *07020000
00039 C 000600*        VV   VV  SSSSS  AA   AA MMMMMMM   II    OO   OO   *07030000
00040 C 000700*        VV   VV      SS AA   AA MM M MM   II    OO   OO   *07040000
00041 C 000800*         VV VV  SS   SS AAAAAAA MM   MM   II    OO   OO   *07050000
00042 C 000900*          VVV   SS   SS AA   AA MM   MM   II    OO   OO   *07060000
00043 C 001000*           V     SSSSS  AA   AA MM   MM  IIII    OOOOO    *07070000
00044 C 001100*                                                          *07080000
00045 C 001200* ************************************************************07090000
00046 C 001300*                                                          *07100000
00047 C 001400* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET   *07110000
00048 C 001500* ACCESS ROUTINE.                                          *07120000
00049 C 001600*                                                          *07130000
00050 C 001700* THE VSIO-PARAMETER-VALUES SUPPLY THE VALUES USED TO MOVE INTO  *07140000
00051 C 001800* PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET  *07150000
00052 C 001900* AND TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.             *07160000
00053 C 002000* ************************************************************07170000
00054 C 002100 01  VSIO-PARAMETER-VALUES.                                 07180000
```

```
00055 C 002200     02  VSIO-OPEN               PIC  X(08)  VALUE 'OPEN    '.    07190000
00056 C 002300     02  VSIO-CLOSE              PIC  X(08)  VALUE 'CLOSE   '.    07200000
00057 C 002400     02  VSIO-READ               PIC  X(08)  VALUE 'READ    '.    07210000
00058 C 002500     02  VSIO-WRITE              PIC  X(08)  VALUE 'WRITE   '.    07220000
00059 C 002600     02  VSIO-REWRITE            PIC  X(08)  VALUE 'REWRITE '.    07230000
00060 C 002700     02  VSIO-DELETE             PIC  X(08)  VALUE 'DELETE  '.    07240000
00061 C 002800     02  VSIO-START-KEY-EQUAL    PIC  X(08)  VALUE 'STARTEQ '.    07250000
00062 C 002900     02  VSIO-START-KEY-NOTLESS  PIC  X(08)  VALUE 'STARTGE '.    07260000
00063 C 003000     02  VSIO-KSDS               PIC  X(04)  VALUE 'KSDS'.        07270000
00064 C 003100     02  VSIO-ESDS               PIC  X(04)  VALUE 'ESDS'.        07280000
00065 C 003200     02  VSIO-RRDS               PIC  X(04)  VALUE 'RRDS'.        07290000
00066 C 003300     02  VSIO-SEQUENTIAL         PIC  X(10)  VALUE 'SEQUENTIAL'.  07300000
00067 C 003400     02  VSIO-DIRECT             PIC  X(10)  VALUE 'DIRECT    '.  07310000
00068 C 003500     02  VSIO-DYNAMIC            PIC  X(10)  VALUE 'DYNAMIC   '.  07320000
00069 C 003600     02  VSIO-INPUT              PIC  X(06)  VALUE 'INPUT '.      07330000
00070 C 003700     02  VSIO-OUTPUT             PIC  X(06)  VALUE 'OUTPUT'.      07340000
00071 C 003800     02  VSIO-INPUT-OUTPUT       PIC  X(06)  VALUE 'UPDATE'.      07350000
00072 C 003900                                                                  07360000
00073 C 004000* ************************************************************ *07370000
00074 C 004100* THE VSIO-PARAMETER-BLOCK IS THE COMMUNICATION INTERFACE TO     *07380000
00075 C 004200* THE ROUTINE.                                                  *07390000
00076 C 004300* ************************************************************ *07400000
00077 C 004400 01  VSIO-PARAMETER-BLOCK.                                       07410000
00078 C 004500     02  VSIO-COMMAND            PIC  X(08).                     07420000
00079 C 004600     02  VSIO-RETURN-CODE        PIC S9(04)  COMP.               07430000
00080 C 004700         88  VSIO-SUCCESS                   VALUE +0.           07440000
00081 C 004800         88  VSIO-LOGIC-ERROR               VALUE +8.           07450000
00082 C 004900         88  VSIO-END-OF-FILE               VALUE +9999.        07460000
00083 C 005000         88  VSIO-PARAMETER-ERROR           VALUE +20 THRU +28. 07470000
00084 C 005100         88  VSIO-COMMAND-UNKNOWN           VALUE +20.          07480000
00085 C 005200         88  VSIO-DATASET-ALREADY-OPEN      VALUE +21.          07490000
00086 C 005300         88  VSIO-DATASET-NOT-OPEN          VALUE +22.          07500000
00087 C 005400         88  VSIO-ORGANIZATION-KEYWORD      VALUE +23.          07510000
00088 C 005500         88  VSIO-ACCESS-KEYWORD            VALUE +24.          07520000
00089 C 005600         88  VSIO-ACCESS-UNSUPPORTED        VALUE +25.          07530000
00090 C 005700         88  VSIO-MODE-KEYWORD              VALUE +26.          07540000
00091 C 005800         88  VSIO-MODE-UNSUPPORTED          VALUE +27.          07550000
00092 C 005900         88  VSIO-DDNAME-BLANK              VALUE +28.          07560000
00093 C 006000     02  VSIO-VSAM-RETURN-CODE   PIC S9(04)  COMP.               07570000
00094 C 006100     02  VSIO-VSAM-FUNCTION-CODE PIC S9(04)  COMP.               07580000
00095 C 006200     02  VSIO-VSAM-FEEDBACK-CODE PIC S9(04)  COMP.               07590000
00096 C 006300         88  VSIO-DUPLICATE-RECORD          VALUE +8.           07600000
00097 C 006400         88  VSIO-SEQUENCE-ERROR            VALUE +12.          07610000
00098 C 006500         88  VSIO-RECORD-NOT-FOUND          VALUE +16.          07620000
00099 C 006600         88  VSIO-NO-MORE-SPACE             VALUE +28.          07630000
00100 C 006700         88  VSIO-READ-WITHOUT-START        VALUE +88.          07640000
00101 C 006800* ************************************************************ *07650000
00102 C 006900*                   END OF VSAMIO COPY BOOK                    *07660000
00103 C 007000* ************************************************************ *07670000
00104   004000 01  ESDSF01                      COPY VSAMIOFB.                 12570000
00105 C 000100* ************************************************************ *00000100
00106 C 000200*                                                              *00000200
00107 C 000300*  VV   VV  SSSSS     A    M     M IIII  OOOOO  FFFFFFF BBBBBB   *00000300
00108 C 000400*  VV   VV SS   SS   AAA   MM   MM  II  OO   OO FF      BB   BB  *00000400
00109 C 000500*  VV   VV SS       AA AA  MMM MMM  II  OO   OO FF      BB   BB  *00000500
00110 C 000600*  VV   VV  SSSSS  AA   AA MMMMMMM  II  OO   OO FFFFF   BBBBBB   *00000600
00111 C 000700*  VV   VV      SS AA   AA MM M MM  II  OO   OO FF      BB   BB  *00000700
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00112 C 000800*   VV VV  SS   SS AAAAAAA MM   MM  II  OO   OO FF      BB   BB  *00000800
00113 C 000900*    VVV   SS   SS AA   AA MM   MM  II  OO   OO FF      BB   BB  *00000900
00114 C 001000*     V     SSSSS  AA   AA MM   MM IIII  OOOOO  FF      BBBBBB   *00001000
00115 C 001100*                                                                 *00001100
00116 C 001200* ************************************************************** *00001200
00117 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET   *00001300
00118 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS    *00001400
00119 C 001500* FOR A SINGLE VSAM DATASET.                                     *00001500
00120 C 001600*                                                               *00001600
00121 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE         *00001700
00122 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE    *00001800
00123 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED   *00001900
00124 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT  *00002000
00125 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED.             *00002100
00126 C 002200* ************************************************************** *00002200
00127 C 002300 01  ESDSF01.                                                     00002300
00128 C 002400     02  VSIO-DDNAME             PIC  X(08)  VALUE SPACES.       00002400
00129 C 002500     02  VSIO-ORGANIZATION       PIC  X(04)  VALUE SPACES.       00002500
00130 C 002600     02  VSIO-ACCESS             PIC  X(10)  VALUE SPACES.       00002600
00131 C 002700     02  VSIO-MODE               PIC  X(06)  VALUE SPACES.       00002700
00132 C 002800     02  VSIO-RECORD-LENGTH      PIC S9(04)  COMP VALUE +0.      00002800
00133 C 002900     02  VSIO-KEY-ARGUMENT.                                      00002900
00134 C 003000         03  VSIO-KEY-POSITION   PIC S9(04)  COMP VALUE +0.      00003000
00135 C 003100         03  VSIO-KEY-LENGTH     PIC S9(04)  COMP VALUE +0.      00003100
00136 C 003200     02  VSIO-RELATIVE-RECORD    REDEFINES VSIO-KEY-ARGUMENT     00003200
00137 C 003300                                 PIC S9(08)  COMP.               00003300
00138 C 003400     02  FILLER                  PIC  X(01)  VALUE 'C'.          00003400
00139 C 003500         88  VSIO-FILE-OPEN                  VALUE 'O'.          00003500
00140 C 003600         88  VSIO-FILE-CLOSED                VALUE 'C'.          00003600
00141 C 003700     02  FILLER                  PIC  X(161).                    00003700
00142 C 003800* ************************************************************ *00003800
00143 C 003900*                   END OF VSAMIOFB COPY BOOK                   *00003900
00144 C 004000* ************************************************************ *00004000
00145   004100 01  ESDS-RECORD                 PIC X(80).                      12580000
00146   004200                                                                 12590000
00147   004300 PROCEDURE DIVISION.                                             12600000
00148   004400                                                                 12610000
00149   004500     DISPLAY 'ESDSADDT: WRITE (EXTEND) ESDS SEQUENTIALLY'.       12620000
00150   004600     DISPLAY '----------------------------------------'.         12630000
00151   004700     DISPLAY ' '.                                                12640000
00152   004800                                                                 12650000
00153   004900 000-INITIATE.                                                   12660000
00154   005000                                                                 12670000
00155   005100     OPEN INPUT RECORD-IMAGES.                                   12680000
00156   005200                                                                 12690000
00157   005300     MOVE 'ESDSF01' TO VSIO-DDNAME.                              12700000
00158   005400     MOVE VSIO-ESDS TO VSIO-ORGANIZATION.                        12710000
00159   005500     MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS.                        12720000
00160   005600     MOVE VSIO-OUTPUT TO VSIO-MODE.                              12730000
00161   005700     MOVE +80 TO VSIO-RECORD-LENGTH.                             12740000
00162   005800     MOVE +0 TO VSIO-KEY-LENGTH, VSIO-KEY-POSITION.              12750000
00163   005900     MOVE VSIO-OPEN TO VSIO-COMMAND.                             12760000
00164   006000     CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDSF01,          12770000
00165   006100                         ESDS-RECORD.                            12780000
00166   006200*    END-CALL.                                                   12790000
00167   006300     IF NOT VSIO-SUCCESS                                         12800000
00168   006400         DISPLAY 'VSAMIO ERROR OCCURRED DURING '                 12810000
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00169   006500                  VSIO-COMMAND                                    12820000
00170   006600          EXHIBIT NAMED VSIO-RETURN-CODE,                         12830000
00171   006700          EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,                    12840000
00172   006800                        VSIO-VSAM-FUNCTION-CODE,                  12850000
00173   006900                        VSIO-VSAM-FEEDBACK-CODE                   12860000
00174   007000          STOP RUN.                                               12870000
00175   007100*     END-IF.                                                     12880000
00176   007200                                                                  12890000
00177   007300 010-PROCESS.                                                     12900000
00178   007400                                                                  12910000
00179   007500      PERFORM 110-PROCESS-DATA                                    12920000
00180   007600         THRU 119-EXIT                                            12930000
00181   007700        UNTIL END-OF-FILE                                         12940000
00182   007800           OR (NOT VSIO-SUCCESS).                                 12950000
00183   007900*     END-PERFORM.                                                12960000
00184   008000                                                                  12970000
00185   008100 020-TERMINATE.                                                   12980000
00186   008200                                                                  12990000
00187   008300      CLOSE RECORD-IMAGES.                                        13000000
00188   008400                                                                  13010000
00189   008500      MOVE VSIO-CLOSE TO VSIO-COMMAND.                            13020000
00190   008600      CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDSF01,          13030000
00191   008700                          ESDS-RECORD.                            13040000
00192   008800*     END-CALL.                                                   13050000
00193   008900      IF NOT VSIO-SUCCESS                                         13060000
00194   009000          DISPLAY 'VSAMIO ERROR OCCURRED DURING '                 13070000
00195   009100                  VSIO-COMMAND                                    13080000
00196   009200          EXHIBIT NAMED VSIO-RETURN-CODE,                         13090000
00197   009300          EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,                    13100000
00198   009400                        VSIO-VSAM-FUNCTION-CODE,                  13110000
00199   009500                        VSIO-VSAM-FEEDBACK-CODE.                  13120000
00200   009600*     END-IF.                                                     13130000
00201   009700                                                                  13140000
00202   009800      MOVE RECORD-COUNTER TO COUNTER-EDIT.                        13150000
00203   009900      DISPLAY COUNTER-EDIT ' RECORDS WERE ADDED SUCCESSFULLY'.    13160000
00204   010000                                                                  13170000
00205   010100      STOP RUN.                                                   13180000
00206   010200                                                                  13190000
00207   010300 110-PROCESS-DATA.                                                13200000
00208   010400      READ RECORD-IMAGES                                          13210000
00209   010500          AT END                                                  13220000
00210   010600              MOVE 'Y' TO END-OF-FILE-SWITCH.                     13230000
00211   010700*     END-READ.                                                   13240000
00212   010800                                                                  13250000
00213   010900      IF NOT END-OF-FILE                                          13260000
00214   011000                                                                  13270000
00215   011100          MOVE RECORD-IMAGE TO ESDS-RECORD                        13280000
00216   011200                                                                  13290000
00217   011300          MOVE VSIO-WRITE TO VSIO-COMMAND                         13300000
00218   011400          CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDSF01,      13310000
00219   011500                            ESDS-RECORD                           13320000
00220   011600*         END-CALL                                                13330000
00221   011700                                                                  13340000
00222   011800          IF VSIO-SUCCESS                                         13350000
00223   011900              ADD +1 TO RECORD-COUNTER                            13360000
00224   012000          ELSE                                                    13370000
00225   012100              IF VSIO-LOGIC-ERROR                                 13380000
```

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00226   012200            AND VSIO-NO-MORE-SPACE                                13390000
00227   012300                DISPLAY 'INSUFFICIENT SPACE DEFINED IN CLUSTER'   13400000
00228   012400                        'TO CONTAIN NEW RECORDS - PROCESSING '    13410000
00229   012500                        'TERMINATED'                              13420000
00230   012600             ELSE                                                 13430000
00231   012700                 DISPLAY 'VSAMIO ERROR OCCURRED DURING '          13440000
00232   012800                         VSIO-COMMAND                             13450000
00233   012900                 EXHIBIT NAMED VSIO-RETURN-CODE,                  13460000
00234   013000                 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,             13470000
00235   013100                               VSIO-VSAM-FUNCTION-CODE,           13480000
00236   013200                               VSIO-VSAM-FEEDBACK-CODE.           13490000
00237   013300*            END-IF                                               13500000
00238   013400*        END-IF                                                   13510000
00239   013500*    END-IF.                                                      13520000
00240   013600                                                                  13530000
00241   013700 119-EXIT.                                                        13540000
00242   013800     EXIT.                                                        13550000
00243   013900                                                                  13560000
00244   014000                                                                  13570000
```

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=1-127	FD	RECORD-IMAGES	DCB=01		DNM=1-127		QSAM				F
DNM=1-153	01	RECORD-IMAGE	BL=1	000	DNM=1-153	DS 80C	DISP				
DNM=1-175	77	END-OF-FILE-SWITCH	BL=2	000	DNM=1-175	DS 1C	DISP				
DNM=1-206	88	END-OF-FILE			DNM=1-206						
DNM=1-228	77	RECORD-COUNTER	BL=2	001	DNM=1-228	DS 8C	DISP-NM				
DNM=1-252	77	COUNTER-EDIT	BL=2	009	DNM=1-252	DS 10C	NM-EDIT				
DNM=1-289	01	VSIO-PARAMETER-VALUES	BL=2	018	DNM=1-289	DS 0CL124	GROUP				
DNM=1-323	02	VSIO-OPEN	BL=2	018	DNM=1-323	DS 8C	DISP				
DNM=1-342	02	VSIO-CLOSE	BL=2	020	DNM=1-342	DS 8C	DISP				
DNM=1-362	02	VSIO-READ	BL=2	028	DNM=1-362	DS 8C	DISP				
DNM=1-384	02	VSIO-WRITE	BL=2	030	DNM=1-384	DS 8C	DISP				
DNM=1-404	02	VSIO-REWRITE	BL=2	038	DNM=1-404	DS 8C	DISP				
DNM=1-426	02	VSIO-DELETE	BL=2	040	DNM=1-426	DS 8C	DISP				
DNM=1-447	02	VSIO-START-KEY-EQUAL	BL=2	048	DNM=1-447	DS 8C	DISP				
DNM=1-477	02	VSIO-START-KEY-NOTLESS	BL=2	050	DNM=1-477	DS 8C	DISP				
DNM=2-000	02	VSIO-KSDS	BL=2	058	DNM=2-000	DS 4C	DISP				
DNM=2-019	02	VSIO-ESDS	BL=2	05C	DNM=2-019	DS 4C	DISP				
DNM=2-038	02	VSIO-RRDS	BL=2	060	DNM=2-038	DS 4C	DISP				
DNM=2-057	02	VSIO-SEQUENTIAL	BL=2	064	DNM=2-057	DS 10C	DISP				
DNM=2-082	02	VSIO-DIRECT	BL=2	06E	DNM=2-082	DS 10C	DISP				
DNM=2-103	02	VSIO-DYNAMIC	BL=2	078	DNM=2-103	DS 10C	DISP				
DNM=2-125	02	VSIO-INPUT	BL=2	082	DNM=2-125	DS 6C	DISP				
DNM=2-145	02	VSIO-OUTPUT	BL=2	088	DNM=2-145	DS 6C	DISP				
DNM=2-166	02	VSIO-INPUT-OUTPUT	BL=2	08E	DNM=2-166	DS 6C	DISP				
DNM=2-193	01	VSIO-PARAMETER-BLOCK	BL=2	098	DNM=2-193	DS 0CL16	GROUP				
DNM=2-226	02	VSIO-COMMAND	BL=2	098	DNM=2-226	DS 8C	DISP				
DNM=2-251	02	VSIO-RETURN-CODE	BL=2	0A0	DNM=2-251	DS 2C	COMP				
DNM=2-280	88	VSIO-SUCCESS			DNM=2-280						
DNM=2-305	88	VSIO-LOGIC-ERROR			DNM=2-305						
DNM=2-334	88	VSIO-END-OF-FILE			DNM=2-334						
DNM=2-365	88	VSIO-PARAMETER-ERROR			DNM=2-365						
DNM=2-395	88	VSIO-COMMAND-UNKNOWN			DNM=2-395						
DNM=2-429	88	VSIO-DATASET-ALREADY-OPEN			DNM=2-429						
DNM=2-468	88	VSIO-DATASET-NOT-OPEN			DNM=2-468						
DNM=3-000	88	VSIO-ORGANIZATION-KEYWORD			DNM=3-000						
DNM=3-039	88	VSIO-ACCESS-KEYWORD			DNM=3-039						
DNM=3-072	88	VSIO-ACCESS-UNSUPPORTED			DNM=3-072						
DNM=3-109	88	VSIO-MODE-KEYWORD			DNM=3-109						
DNM=3-140	88	VSIO-MODE-UNSUPPORTED			DNM=3-140						
DNM=3-175	88	VSIO-DDNAME-BLANK			DNM=3-175						
DNM=3-206	02	VSIO-VSAM-RETURN-CODE	BL=2	0A2	DNM=3-206	DS 2C	COMP				
DNM=3-237	02	VSIO-VSAM-FUNCTION-CODE	BL=2	0A4	DNM=3-237	DS 2C	COMP				
DNM=3-270	02	VSIO-VSAM-FEEDBACK-CODE	BL=2	0A6	DNM=3-270	DS 2C	COMP				
DNM=3-306	88	VSIO-DUPLICATE-RECORD			DNM=3-306						
DNM=3-340	88	VSIO-SEQUENCE-ERROR			DNM=3-340						
DNM=3-373	88	VSIO-RECORD-NOT-FOUND			DNM=3-373						
DNM=3-408	88	VSIO-NO-MORE-SPACE			DNM=3-408						
DNM=3-440	88	VSIO-READ-WITHOUT-START			DNM=3-440						
DNM=3-477	01	ESDSF01	BL=2	0A8	DNM=3-477	DS 0CL196	GROUP				
DNM=4-000	02	VSIO-DDNAME	BL=2	0A8	DNM=4-000	DS 8C	DISP				
DNM=4-021	02	VSIO-ORGANIZATION	BL=2	0B0	DNM=4-021	DS 4C	DISP				
DNM=4-048	02	VSIO-ACCESS	BL=2	0B4	DNM=4-048	DS 10C	DISP				
DNM=4-069	02	VSIO-MODE	BL=2	0BE	DNM=4-069	DS 6C	DISP				
DNM=4-088	02	VSIO-RECORD-LENGTH	BL=2	0C4	DNM=4-088	DS 2C	COMP				
DNM=4-116	02	VSIO-KEY-ARGUMENT	BL=2	0C6	DNM=4-116	DS 0CL4	GROUP				

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=4-146	03	VSIO-KEY-POSITION	BL=2	0C6	DNM=4-146	DS 2C	COMP				
DNM=4-176	03	VSIO-KEY-LENGTH	BL=2	0C8	DNM=4-176	DS 2C	COMP				
DNM=4-201	02	VSIO-RELATIVE-RECORD	BL=2	0C6	DNM=4-201	DS 4C	COMP	R			
DNM=4-231	02	FILLER	BL=2	0CA	DNM=4-231	DS 1C	DISP				
DNM=4-253	88	VSIO-FILE-OPEN			DNM=4-253						
DNM=4-278	88	VSIO-FILE-CLOSED			DNM=4-278						
DNM=4-305	02	FILLER	BL=2	0CB	DNM=4-305	DS 161C	DISP				
DNM=4-324	01	ESDS-RECORD	BL=2	170	DNM=4-324	DS 80C	DISP				

```
*STATISTICS*     SOURCE RECORDS =   244     DATA DIVISION STATEMENTS =    65     PROCEDURE DIVISION STATEMENTS =    44
*OPTIONS IN EFFECT*     SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW,   SEQ,   SOURCE
*OPTIONS IN EFFECT*       DMAP, NOPMAP, NOCLIST,   SUPMAP, NOXREF,   LOAD, NODECK, APOST, NOTRUNC,   LIB, NOVERB
*OPTIONS IN EFFECT*       ZWB
```

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




                                        CROSS REFERENCE TABLE


  CONTROL SECTION                       ENTRY

    NAME    ORIGIN  LENGTH                NAME   LOCATION     NAME   LOCATION     NAME   LOCATION     NAME   LOCATION
  ESDSADDT      00     C12
  ILBODSP0*    C18     700
  ILBOSTP0*   1318      35
                                        ILBOSTP1    132E
  VSAMIO  *   1350     D0A




  LOCATION  REFERS TO SYMBOL  IN CONTROL SECTION            LOCATION  REFERS TO SYMBOL  IN CONTROL SECTION
      518           ILBOSTP0        ILBOSTP0                   51C           ILBODSP0        ILBODSP0
      520           VSAMIO          VSAMIO                     524           ILBOSTP1        ILBOSTP0

 ENTRY ADDRESS       00

 TOTAL LENGTH      2060
****RUN       DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS         0.
```

```
ESDSADDT: WRITE (EXTEND) ESDS SEQUENTIALLY
------------------------------------------
        15 RECORDS WERE ADDED SUCCESSFULLY
```