J E S 2 J O B L O G

```
18.04.56 JOB  146  IEF677I WARNING MESSAGE(S) FOR JOB VSTESTE3 ISSUED
18.04.56 JOB  146  $HASP373 VSTESTE3 STARTED - INIT  1 - CLASS A - SYS HMVS
18.04.56 JOB  146  IEF403I VSTESTE3 - STARTED - TIME=18.04.56
18.04.56 JOB  146  CCI001C PL1L    /IEMAA   /00:00:00.15/        /00004/1       /VSTESTE3
18.04.56 JOB  146  CCI001C LKED    /IEWL    /00:00:00.04/        /00000/1       /VSTESTE3
18.04.56 JOB  146  CCI001C GO      /PGM=*.DD/00:00:00.01/        /00000/1       /VSTESTE3
18.04.56 JOB  146  IEF404I VSTESTE3 - ENDED - TIME=18.04.56
18.04.56 JOB  146  $HASP395 VSTESTE3 ENDED

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

 07 JUL 20 JOB EXECUTION DATE

       22 CARDS READ

    1,123 SYSOUT PRINT RECORDS

        0 SYSOUT PUNCH RECORDS

     0.00 MINUTES EXECUTION TIME
```

```
 1      //VSTESTE3 JOB 1,'VSAMIOP IVP ESDSREAD',CLASS=A,MSGCLASS=X,             JOB  146
        //             REGION=4096K
        ***
        ********************************************************************
        *** PL/1 MODULE: ESDSREAD     VSAM DATASET: VSTESTES.CLUSTER (ESDS)
        ***
        *** SEQUENTIALLY READS ENTRY SEQUENCED DATASET
        ********************************************************************
        ***
 2      //PL1F    EXEC PL1LFCLG,
        //             PARM='LOAD,NODECK,ATR,XREF,CHAR60,MACRO'
 3      XXPL1L   EXEC  PGM=IEMAA,PARM='LOAD,NODECK',REGION=52K                  00000100
 4      XXSTEPLIB  DD DSN=SYSC.LINKLIB,DISP=SHR                                 00000200
 5      //PL1L.SYSPRINT DD SYSOUT=*
        X/SYSPRINT DD  SYSOUT=A                                                 00000300
 6      XXSYSLIN   DD  DSNAME=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSSQ,            *00000400
        XX             SPACE=(80,(250,100))                                     00000500
 7      XXSYSUT3  DD  DSNAME=&&SYSUT3,UNIT=SYSDA,SPACE=(80,(250,250)),         *00000600
        XX             DCB=BLKSIZE=80                                           00000700
 8      XXSYSUT1   DD  DSNAME=&&SYSUT1,UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG),*00000800
        XX             SEP=(SYSUT3,SYSLIN),DCB=BLKSIZE=1024                     00000900
 9      //PL1L.SYSIN DD DSN=SYSC.VSAMIOP.SOURCE(ESDSREAD),DISP=SHR
10      //PL1L.SYSLIB DD DSN=SYSC.VSAMIOP.MACLIB,DISP=SHR
11      XXLKED   EXEC  PGM=IEWL,PARM='XREF,LIST',COND=(9,LT,PL1L),              *00001000
        XX             REGION=96K                                               00001100
12      //LKED.SYSLIB DD
        X/SYSLIB   DD  DSNAME=SYSC.PL1LIB,DISP=SHR                              00001201
13      //         DD  DSN=SYSC.LINKLIB,DISP=SHR
14      XXSYSLMOD  DD  DSNAME=&&GOSET(GO),DISP=(MOD,PASS),                      *00001300
        XX             UNIT=SYSDA,SPACE=(1024,(50,20,1),RLSE)                   00001400
15      XXSYSUT1   DD  DSNAME=&&SYSUT1,UNIT=SYSDA,SPACE=(1024,(200,20)),        *00001500
        XX             SEP=(SYSLMOD,SYSLIB),DCB=BLKSIZE=1024                    00001600
16      //LKED.SYSPRINT DD SYSOUT=*
        X/SYSPRINT DD  SYSOUT=A                                                 00001700
17      XXSYSLIN   DD  DSNAME=&&LOADSET,DISP=(OLD,DELETE)                       00001800
18      XX         DD  DDNAME=SYSIN                                             00001900
19      XXGO     EXEC  PGM=*.LKED.SYSLMOD,COND=((9,LT,LKED),(9,LT,PL1L))       00002000
20      //GO.STEPLIB DD DSN=SYSC.PL1LIB,DISP=SHR
        X/STEPLIB  DD  DSN=SYSC.LINKLIB,DISP=SHR                                00002102
21      XX         DD  DSN=SYSC.PL1LIB,DISP=SHR                                 00002202
22      XXSYSPRINT DD  SYSOUT=A                                                 00002300
23      //GO.PRINTR DD SYSOUT=*
24      //GO.SYSUDUMP DD SYSOUT=*
25      //GO.SYSPRINT DD SYSOUT=*
26      //GO.ESDSF01 DD DSN=PUB001.VSTESTES.CLUSTER,DISP=OLD
```

```
 STMT NO. MESSAGE
-
   19     IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR VSTESTE3 PL1L PL1F
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00302
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 380  ALLOCATED TO SYSLIN
IEF237I 251  ALLOCATED TO SYSUT3
IEF237I 370  ALLOCATED TO SYSUT1
IEF237I 253  ALLOCATED TO SYSIN
IEF237I 253  ALLOCATED TO SYSLIB
IEF142I VSTESTE3 PL1L PL1F - STEP WAS EXECUTED - COND CODE 0004
IEF285I   SYSC.LINKLIB                                KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   UCSYSCPK                                    KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   JES2.JOB00146.SO0101                        SYSOUT
IEF285I   SYS20189.T180456.RA000.VSTESTE3.LOADSET     PASSED        *------201
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T180456.RA000.VSTESTE3.SYSUT3      DELETED       *------255
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T180456.RA000.VSTESTE3.SYSUT1      DELETED       *--------0
IEF285I   VOL SER NOS= MVS370.
IEF285I   SYSC.VSAMIOP.SOURCE                         KEPT          *--------3
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   SYSC.VSAMIOP.MACLIB                         KEPT          *-------27
IEF285I   VOL SER NOS= SYSCPK.
IEF373I STEP /PL1L    / START 20189.1804
IEF374I STEP /PL1L    / STOP  20189.1804 CPU    0MIN 00.15SEC SRB    0MIN 00.04SEC VIRT  4096K SYS   212K
**** JOBCARD READ 20189 18:04:56 ************************************************************************************
*                                      PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                              *
*  STEP NAME  PL1L        USER CORE        4096K   TAPES USED/IO 000/000000000   START   TIME  18:04:56    TCB TIME  00:00:00.15  *
*  PGM  NAME  IEMAA       SYSTEM CORE       212K   DISKS USED/IO 004/000000486   STOP    TIME  18:04:56    SRB TIME  00:00:00.04  *
*   COND CODE    0004     PRIVATE AREA SZ   4096K       ALLOC TIME  18:04:56      ELAPSED TIME                PGM LOAD  18:04:56   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004          2641   00:00:00.22            0             0           0             0              0             0             0  *
************************************************************************************************************************
*  CPU $ (     0.05) + EXCP $ (     0.65) + MEMORY $ (     1.75) = TOTAL $ (     2.45)                                    *
************************************************************************************************************************
IEF236I ALLOC. FOR VSTESTE3 LKED PL1F
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00304
IEF237I 251  ALLOCATED TO SYSLMOD
IEF237I 370  ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 380  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO
IEF142I VSTESTE3 LKED PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYSC.PL1LIB                                 KEPT          *------106
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.T180456.RA000.VSTESTE3.GOSET       PASSED        *-------56
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T180456.RA000.VSTESTE3.SYSUT1      DELETED       *--------0
IEF285I   VOL SER NOS= MVS370.
IEF285I   JES2.JOB00146.SO0102                        SYSOUT
```

```
IEF285I   SYS20189.T180456.RA000.VSTESTE3.LOADSET      DELETED       *------202
IEF285I   VOL SER NOS= MVS380.
IEF373I STEP /LKED    / START 20189.1804
IEF374I STEP /LKED    / STOP  20189.1804 CPU    0MIN 00.04SEC SRB    0MIN 00.01SEC 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  18:04:56    TCB TIME  00:00:00.04  *
*  PGM  NAME  IEWL        SYSTEM CORE        208K   DISKS USED/IO 004/000000364   STOP    TIME  18:04:56    SRB TIME  00:00:00.01  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  18:04:56      ELAPSED TIME                PGM LOAD  18:04:56   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004          1862   00:00:00.06            0             0         0              0              0             0  *
********************************************************************************************************
*  CPU $ (     0.01) + EXCP $ (     0.49) + MEMORY $ (     0.02) = TOTAL $ (     0.52)                    *
********************************************************************************************************
IEF236I ALLOC. FOR VSTESTE3 GO PL1F
IEF237I 251  ALLOCATED TO PGM=*.DD
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00306
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO PRINTR
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 190  ALLOCATED TO ESDSF01
IEF237I 190  ALLOCATED TO SYS00308
IEF142I VSTESTE3 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS20189.T180456.RA000.VSTESTE3.GOSET         KEPT          *--------0
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYSC.PL1LIB                                   KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   UCSYSCPK                                      KEPT          *--------0
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   JES2.JOB00146.SO0103                          SYSOUT
IEF285I   JES2.JOB00146.SO0104                          SYSOUT
IEF285I   JES2.JOB00146.SO0105                          SYSOUT
IEF285I   JES2.JOB00146.SO0106                          SYSOUT
IEF285I   PUB001.VSTESTES.CLUSTER                       KEPT          *--------1
IEF285I   VOL SER NOS= PUB001.
IEF285I   UCPUB001                                      KEPT          *--------0
IEF285I   VOL SER NOS= PUB001.
IEF373I STEP /GO      / START 20189.1804
IEF374I STEP /GO      / STOP  20189.1804 CPU    0MIN 00.01SEC SRB    0MIN 00.00SEC VIRT    92K SYS   224K
********************************************************************************************************
*                                      PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                 *
*  STEP NAME  GO          USER CORE           92K   TAPES USED/IO 000/000000000   START   TIME  18:04:56    TCB TIME  00:00:00.01  *
*  PGM  NAME  PGM=*.DD    SYSTEM CORE        224K   DISKS USED/IO 003/000000001   STOP    TIME  18:04:56    SRB TIME  00:00:00.00  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  18:04:56      ELAPSED TIME                PGM LOAD  18:04:56   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            40   00:00:00.02            0             0         0              0              0             0  *
********************************************************************************************************
*  CPU $ (     0.00) + EXCP $ (     0.00) + MEMORY $ (     0.00) = TOTAL $ (     0.00)                    *
********************************************************************************************************
IEF237I 251  ALLOCATED TO SYS00001
IEF285I   SYS20189.T180456.RA000.VSTESTE3.R0000001      KEPT          *--------0
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T180456.RA000.VSTESTE3.GOSET         DELETED
IEF285I   VOL SER NOS= WORK00.
IEF375I  JOB /VSTESTE3/ START 20189.1804
IEF376I  JOB /VSTESTE3/ STOP  20189.1804 CPU    0MIN 00.20SEC SRB    0MIN 00.05SEC
```

PL/I F COMPILER OPTIONS SPECIFIED ARE AS FOLLOWS--

```
     LOAD,NODECK,ATR,XREF,CHAR60,MACRO


THE COMPLETE LIST OF OPTIONS USED DURING THIS COMPILATION IS--   EBCDIC
                                                                CHAR60
                                                                MACRO
                                                                SOURCE2
                                                              NOMACDCK
                                                                COMP
                                                                SOURCE
                                                                ATR
                                                                XREF
                                                              NOEXTREF
                                                              NOLIST
                                                                LOAD
                                                              NODECK
                                                                FLAGW
                                                              NOSTMT
                                                                SIZE=4154608
                                                                LINECNT=050
                                                                OPT=01
                                                                SORMGIN=(002,072)
                                                              NOEXTDIC
                                                              NONEST
                                                              OPLIST
                                                              SYNCHKT

*OPTIONS IN EFFECT*     EBCDIC,CHAR60,MACRO,SOURCE2,NOMACDCK,COMP,SOURCE,ATR,XREF,NOEXTREF,NOLIST,LOAD,
*OPTIONS IN EFFECT*     NODECK,FLAGW,NOSTMT,SIZE=4154608,LINECNT=050,OPT=01,SORMGIN=(002,072),NOEXTDIC,
*OPTIONS IN EFFECT*     NONEST,OPLIST,SYNCHKT
```

COMPILE-TIME MACRO PROCESSOR
MACRO SOURCE2 LISTING

```
  1    /*****************************************************************03240000
  2                                                                      03250000
  3      ESDSREAD - TESTS THE VSAMIO ROUTINE BY READING RECORDS FROM AN ESDS  03260000
  4                 CLUSTER AND PRINTING THEIR CONTENTS.                 03270000
  5                                                                      03280000
  6     ******************************************************************/03290000
  7    ESDSREA:                                                          03300000
  8       PROCEDURE OPTIONS(MAIN);                                       03310000
  9                                                                      03320000
 10          ON ERROR                                                   03330000
 11             BEGIN;                                                  03340000
 12                ON ERROR SYSTEM;                                     03350000
 13                PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');  03360000
 14                PUT SKIP DATA;                                       03370000
 15                PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');  03380000
 16             END;                                                    03390000
 17                                                                     03400000
 18          OPEN                                                       03410000
 19             FILE(PRINTR) LINESIZE(121);                             03420000
 20                                                                     03430000
 21          PRINT_AREA = 'ESDSREAD: READ ESDS SEQUENTIALLY';           03440000
 22          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       03450000
 23          PRINT_AREA = '------------------------------';             03460000
 24          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       03470000
 25          PRINT_AREA = ' ';                                          03480000
 26          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       03490000
 27                                                                     03500000
 28          MORE_RECORDS = YES;                                        03510000
 29                                                                     03520000
 30     /*****************************************************************03530000
 31       ESTABLISH PARAMETERS OF VSAM DATASET AND CALL ROUTINE TO OPEN  03540000
 32      ******************************************************************/03550000
 33          VSFB_DDNAME = 'ESDSF01';                                   03560000
 34          VSFB_ORGANIZATION = VSIO_ESDS;                             03570000
 35          VSFB_ACCESS = VSIO_SEQUENTIAL;                             03580000
 36          VSFB_MODE = VSIO_INPUT;                                    03590000
 37          VSFB_RECORD_LENGTH = 80;                                   03600000
 38          VSFB_KEY_POSITION = 0;                                     03610000
 39          VSFB_KEY_LENGTH = 0;                                       03620000
 40          VSIO_COMMAND = VSIO_OPEN;                                  03630000
 41          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                        03640000
 42                        VSIO_FILE_BLOCK,                             03650000
 43                        RECORD_IMAGE);                               03660000
 44          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN              03670000
```

MACRO SOURCE2 LISTING

```
45             DO;                                                    03680000
46                CALL VSIO_ERROR;                                    03690000
47                RETURN;                                             03700000
48             END;                                                   03710000
49                                                                    03720000
50          DO WHILE(MORE_RECORDS);                                   03730000
51             CALL READ_ES;                                          03740000
52             IF (MORE_RECORDS) THEN                                 03750000
53                DO;                                                 03760000
54                   COUNTER_EDIT = RECORD_COUNTER;                   03770000
55                   PRINT_AREA = COUNTER_EDIT || ': ' ||             03780000
56                                RECORD_FIELDS;                      03790000
57                   WRITE FILE(PRINTR) FROM(PRINT_LINE);             03800000
58                END;                                                03810000
59          END;                                                      03820000
60                                                                    03830000
61     /*****************************************************************03840000
62       CALL ROUTINE TO CLOSE VSAM DATASET                           03850000
63      *****************************************************************/03860000
64          VSIO_COMMAND = VSIO_CLOSE;                                03870000
65          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       03880000
66                        VSIO_FILE_BLOCK,                            03890000
67                        RECORD_IMAGE);                              03900000
68          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             03910000
69             CALL VSIO_ERROR;                                       03920000
70                                                                    03930000
71          RETURN;                                                   03940000
72                                                                    03950000
73     READ_ES:                                                       03960000
74        PROCEDURE;                                                  03970000
75                                                                    03980000
76     /*****************************************************************03990000
77       CALL ROUTINE TO READ NEXT RECORD FROM VSAM DATASET           04000000
78      *****************************************************************/04010000
79          VSIO_COMMAND = VSIO_READ;                                 04020000
80          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       04030000
81                        VSIO_FILE_BLOCK,                            04040000
82                        RECORD_IMAGE);                              04050000
83          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             04060000
84             IF (VSIO_RETURN_CODE = VSIO_RC_END_OF_FILE) THEN       04070000
85                MORE_RECORDS = NO;                                  04080000
86             ELSE                                                   04090000
87                CALL VSIO_ERROR;                                    04100000
88          ELSE                                                      04110000
89             RECORD_COUNTER = RECORD_COUNTER + 1;                   04120000
```

MACRO SOURCE2 LISTING

```
 90                                                                  04130000
 91          RETURN;                                                 04140000
 92                                                                  04150000
 93       END READ_ES;                                               04160000
 94                                                                  04170000
 95    VSIO_ERROR:                                                   04180000
 96       PROCEDURE;                                                 04190000
 97          PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||         04200000
 98                       VSIO_COMMAND;                              04210000
 99          WRITE FILE(PRINTR) FROM(PRINT_LINE);                    04220000
100          PRINT_AREA = 'VSIO_RETURN_CODE = ' ||                   04230000
101                       VSIO_RETURN_CODE;                          04240000
102          WRITE FILE(PRINTR) FROM(PRINT_LINE);                    04250000
103          PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||              04260000
104                       VSIO_VSAM_RETURN_CODE;                     04270000
105          WRITE FILE(PRINTR) FROM(PRINT_LINE);                    04280000
106          PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||            04290000
107                       VSIO_VSAM_FUNCTION_CODE;                   04300000
108          WRITE FILE(PRINTR) FROM(PRINT_LINE);                    04310000
109          PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||            04320000
110                       VSIO_VSAM_FEEDBACK_CODE;                   04330000
111          WRITE FILE(PRINTR) FROM(PRINT_LINE);                    04340000
112          PRINT_AREA = ' ';                                       04350000
113                                                                  04360000
114          RETURN;                                                 04370000
115                                                                  04380000
116       END VSIO_ERROR;                                            04390000
117                                                                  04400000
118       DECLARE                                                    04410000
119          PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL           04420000
120             ENV(F CTLASA);                                       04430000
121                                                                  04440000
122       DECLARE                                                    04450000
123          COUNTER_EDIT                  PICTURE 'ZZ,ZZZ,ZZ9V',  04460000
124          MORE_RECORDS                  BIT(1),                 04470000
125          NO                            BIT(1)    INIT('0'B),   04480000
126          RECORD_COUNTER                FIXED BINARY(15,0),     04490000
127          YES                           BIT(1)    INIT('1'B);   04500000
128                                                                  04510000
129       DECLARE                                                    04520000
130          1 RECORD_IMAGE,                                         04530000
131             2 RECORD_FIELDS            CHAR(80);               04540000
132                                                                  04550000
133       DECLARE                                                    04560000
134          1 PRINT_LINE,                                           04570000
```

MACRO SOURCE2 LISTING

```
135            2 CARRIAGE_CONTROL          CHAR(1)   INIT(' '),            04580000
136            2 PRINT_AREA                CHAR(120);                      04590000
137                                                                        04600000
138    %INCLUDE (VSAMIO);                                                  04610000
139    %INCLUDE (VSAMIOFB);                                                04620000
140                                                                        04630000
141       END ESDSREA;                                                     04640000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIO

```
142    /*****************************************************************31100000
143                                                                        31110000
144           VV   VV    SSSSS       A      M     M    IIII      OOOOO       31120000
145           VV   VV   SS   SS     AAA     MM   MM     II      OO   OO      31130000
146           VV   VV   SS         AA AA    MMM MMM     II      OO   OO      31140000
147           VV   VV    SSSSS    AA   AA   MMMMMMM     II      OO   OO      31150000
148           VV   VV        SS   AA   AA   MM M MM     II      OO   OO      31160000
149            VV VV    SS   SS   AAAAAAA   MM   MM     II      OO   OO      31170000
150             VVV     SS   SS   AA   AA   MM   MM     II      OO   OO      31180000
151              V       SSSSS    AA   AA   MM   MM    IIII      OOOOO       31190000
152                                                                        31200000
153     ******************************************************************31210000
154      THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS  31220000
155      ROUTINE.                                                          31230000
156                                                                        31240000
157      THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO     31250000
158      PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND  31260000
159      TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.                         31270000
160     ******************************************************************/31280000
161                                                                        31290000
162            DECLARE                                                     31300000
163               1 VSIO_PARAMETER_VALUES   STATIC,                        31310000
164                  2 VSIO_OPEN            CHAR(8)   INIT('OPEN    '),   31320000
165                  2 VSIO_CLOSE           CHAR(8)   INIT('CLOSE   '),   31330000
166                  2 VSIO_READ            CHAR(8)   INIT('READ    '),   31340000
167                  2 VSIO_WRITE           CHAR(8)   INIT('WRITE   '),   31350000
168                  2 VSIO_REWRITE         CHAR(8)   INIT('REWRITE '),   31360000
169                  2 VSIO_DELETE          CHAR(8)   INIT('DELETE  '),   31370000
170                  2 VSIO_START_EQUAL     CHAR(8)   INIT('STARTEQ '),   31380000
171                  2 VSIO_START_NOTLESS   CHAR(8)   INIT('STARTGE '),   31390000
172                  2 VSIO_KSDS            CHAR(4)   INIT('KSDS'),       31400000
173                  2 VSIO_ESDS            CHAR(4)   INIT('ESDS'),       31410000
174                  2 VSIO_RRDS            CHAR(4)   INIT('RRDS'),       31420000
175                  2 VSIO_SEQUENTIAL      CHAR(10)  INIT('SEQUENTIAL'),  31430000
```

MACRO SOURCE2 LISTING

```
                  2 VSIO_DIRECT          CHAR(10)  INIT('DIRECT    '),    31440000
                  2 VSIO_DYNAMIC         CHAR(10)  INIT('DYNAMIC   '),    31450000
                  2 VSIO_INPUT           CHAR(6)   INIT('INPUT '),        31460000
                  2 VSIO_OUTPUT          CHAR(6)   INIT('OUTPUT'),        31470000
                  2 VSIO_INPUT_OUTPUT    CHAR(6)   INIT('UPDATE'),        31480000
                  2 (VSIO_RC_SUCCESS                INIT(0),              31490000
                     VSIO_RC_LOGIC_ERROR            INIT(8),              31500000
                     VSIO_RC_END_OF_FILE            INIT(9999),           31510000
                     VSIO_RC_UNKNOWN_COMMAND        INIT(20),             31520000
                     VSIO_RC_DATASET_ALREADY_OPEN   INIT(21),             31530000
                     VSIO_RC_DATASET_NOT_OPEN       INIT(22),             31540000
                     VSIO_RC_ORGANIZATION_UNKNOWN   INIT(23),             31550000
                     VSIO_RC_ACCESS_UNKNOWN         INIT(24),             31560000
                     VSIO_RC_ORG_ACCESS_MISMATCH    INIT(25),             31570000
                     VSIO_RC_MODE_UNKNOWN           INIT(26),             31580000
                     VSIO_RC_MODE_UNSUPPORTED       INIT(27),             31590000
                     VSIO_RC_DDNAME_BLANK           INIT(28))             31600000
                                          FIXED BINARY(15,0),             31610000
                  2 (VSIO_FB_DUPLICATE_RECORD       INIT(8),              31620000
                     VSIO_FB_KEY_SEQUENCE           INIT(12),             31630000
                     VSIO_FB_RECORD_NOT_FOUND       INIT(16),             31640000
                     VSIO_FB_NO_MORE_SPACE          INIT(28),             31650000
                     VSIO_FB_READ_WITHOUT_START     INIT(88))             31660000
                                          FIXED BINARY(15,0),             31670000
    /*****************************************************************31680000
     THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE      31690000
     THE ROUTINE.                                                        31700000
     *****************************************************************/31710000
                                                                         31720000
               1 VSIO_PARAMETER_BLOCK    STATIC,                         31730000
                  2 VSIO_COMMAND         CHAR(8)   INIT(' '),            31740000
                  2 (VSIO_RETURN_CODE,                                   31750000
                     VSIO_VSAM_RC,                                       31760000
                     VSIO_VSAM_FUNCTION,                                 31770000
                     VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0);     31780000
                                                                         31790000
    /*****************************************************************31800000
                             END OF VSAMIO COPY BOOK                     31810000
     *****************************************************************/31820000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIOFB

```
    /*****************************************************************00000100
                                                                        00000200
```

MACRO SOURCE2 LISTING

```
217       VV   VV   SSSSS      A     M     M  IIII   OOOOO   FFFFFFF  BBBBBB  00000300
218       VV   VV  SS   SS    AAA    MM   MM   II   OO   OO  FF       BB   BB 00000400
219       VV   VV  SS        AA AA   MMM MMM   II   OO   OO  FF       BB   BB 00000500
220       VV   VV   SSSSS   AA   AA  MMMMMMM   II   OO   OO  FFFFF    BBBBBB  00000600
221       VV   VV       SS  AA   AA  MM M MM   II   OO   OO  FF       BB   BB 00000700
222        VV VV   SS   SS  AAAAAAA  MM   MM   II   OO   OO  FF       BB   BB 00000800
223         VVV    SS   SS  AA   AA  MM   MM   II   OO   OO  FF       BB   BB 00000900
224          V      SSSSS   AA   AA  MM   MM  IIII   OOOOO   FF       BBBBBB  00001000
225                                                                            00001100
226     *****************************************************************00001200
227       THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 00001300
228       ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE   00001400
229       VSAM DATASET.                                                       00001500
230                                                                           00001600
231       WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE     00001700
232       LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD  00001800
233       DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE  00001900
234       ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE  00002000
235       DATASET HAS BEEN CLOSED.                                            00002100
236     *****************************************************************/00002200
237                                                                           00002300
238          DECLARE                                                        00002400
239             1 VSIO_FILE_BLOCK            STATIC,                        00002500
240                2 VSFB_DDNAME             CHAR(8)   INIT(' '),           00002600
241                2 VSFB_ORGANIZATION       CHAR(4)   INIT(' '),           00002700
242                2 VSFB_ACCESS             CHAR(10)  INIT(' '),           00002800
243                2 VSFB_MODE               CHAR(6)   INIT(' '),           00002900
244                2 (VSFB_RECORD_LENGTH,                                   00003000
245                   VSFB_KEY_POSITION,                                    00003100
246                   VSFB_KEY_LENGTH)       FIXED BINARY(15,0) INIT(0),    00003200
247                2 VSFB_FILE_STATUS        CHAR(1)   INIT('C'),           00003300
248                2 VSFB_RESERVED           CHAR(161);                     00003400
249                                                                         00003500
250     /*****************************************************************00003600
251                            END OF VSAMIOFB COPY BOOK                    00003700
252      *****************************************************************/00003800
```

NO ERROR OR WARNING CONDITION HAS BEEN DETECTED FOR THIS MACRO PASS.

SOURCE LISTING.

```
                /*****************************************************************    1
                                                                                       1
                  ESDSREAD - TESTS THE VSAMIO ROUTINE BY READING RECORDS FROM AN ESDS   1
                             CLUSTER AND PRINTING THEIR CONTENTS.                       1
                                                                                       1
                 *****************************************************************/   1
                                                                                       6
 1               ESDSREA:                                                              7
                    PROCEDURE OPTIONS(MAIN);                                           8
                                                                                       9
 2                     ON ERROR                                                     10
 3                        BEGIN;                                                    11
 4                           ON ERROR SYSTEM;                                       12
 5                           PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 13
 6                           PUT SKIP DATA;                                         14
 7                           PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 15
 8                        END;                                                      16
                                                                                     17
 9                     OPEN                                                        18
                          FILE(PRINTR) LINESIZE(121);                              19
                                                                                     20
10                     PRINT_AREA = 'ESDSREAD: READ ESDS SEQUENTIALLY';            21
11                     WRITE FILE(PRINTR) FROM(PRINT_LINE);                        22
12                     PRINT_AREA = '------------------------------';              23
13                     WRITE FILE(PRINTR) FROM(PRINT_LINE);                        24
14                     PRINT_AREA = ' ';                                           25
15                     WRITE FILE(PRINTR) FROM(PRINT_LINE);                        26
                                                                                     27
16                     MORE_RECORDS = YES;                                         28
                                                                                     29
                  /*****************************************************************  30
                    ESTABLISH PARAMETERS OF VSAM DATASET AND CALL ROUTINE TO OPEN     30
                   *****************************************************************/  30
                                                                                     32
17                     VSFB_DDNAME = 'ESDSF01';                                    33
18                     VSFB_ORGANIZATION = VSIO_ESDS;                              34
19                     VSFB_ACCESS = VSIO_SEQUENTIAL;                              35
20                     VSFB_MODE = VSIO_INPUT;                                     36
21                     VSFB_RECORD_LENGTH = 80;                                    37
22                     VSFB_KEY_POSITION = 0;                                      38
23                     VSFB_KEY_LENGTH = 0;                                        39
24                     VSIO_COMMAND = VSIO_OPEN;                                   40
25                     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                         41
```

```
                              VSIO_FILE_BLOCK,                                  42
                              RECORD_IMAGE);                                    43
 26                   IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             44
 27                      DO;                                                    45
 28                         CALL VSIO_ERROR;                                    46
 29                         RETURN;                                             47
 30                      END;                                                   48
                                                                                49
 31                   DO WHILE(MORE_RECORDS);                                   50
 32                      CALL READ_ES;                                          51
 33                      IF (MORE_RECORDS) THEN                                 52
 34                         DO;                                                 53
 35                            COUNTER_EDIT = RECORD_COUNTER;                   54
 36                            PRINT_AREA = COUNTER_EDIT || ': ' ||             55
                                            RECORD_FIELDS;                      56
 37                            WRITE FILE(PRINTR) FROM(PRINT_LINE);             57
 38                         END;                                                58
 39                   END;                                                      59
                                                                                60
                   /*************************************************************  61
                     CALL ROUTINE TO CLOSE VSAM DATASET                         61
                    *************************************************************/  61
                                                                                63
 40                   VSIO_COMMAND = VSIO_CLOSE;                                64
 41                   CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       65
                              VSIO_FILE_BLOCK,                                  66
                              RECORD_IMAGE);                                    67
 42                   IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             68
 43                      CALL VSIO_ERROR;                                       69
                                                                                70
 44                   RETURN;                                                   71
                                                                                72
 45                READ_ES:                                                    73
                      PROCEDURE;                                                74
                                                                                75
                   /*************************************************************  76
                     CALL ROUTINE TO READ NEXT RECORD FROM VSAM DATASET         76
                    *************************************************************/  76
                                                                                78
 46                   VSIO_COMMAND = VSIO_READ;                                 79
 47                   CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       80
                              VSIO_FILE_BLOCK,                                  81
                              RECORD_IMAGE);                                    82
 48                   IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             83
 49                      IF (VSIO_RETURN_CODE = VSIO_RC_END_OF_FILE) THEN       84
 50                         MORE_RECORDS = NO;                                  85
 51                      ELSE                                                   86
```

```
51                        CALL VSIO_ERROR;                                    87
52                    ELSE                                                    88
52                       RECORD_COUNTER = RECORD_COUNTER + 1;                 89
                                                                              90
53                    RETURN;                                                 91
                                                                              92
54                 END READ_ES;                                               93
                                                                              94
55              VSIO_ERROR:                                                   95
                   PROCEDURE;                                                 96
56                    PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||         97
                                   VSIO_COMMAND;                              98
57                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                    99
58                    PRINT_AREA = 'VSIO_RETURN_CODE = ' ||                  100
                                   VSIO_RETURN_CODE;                         101
59                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   102
60                    PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||             103
                                   VSIO_VSAM_RETURN_CODE;                    104
61                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   105
62                    PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||           106
                                   VSIO_VSAM_FUNCTION_CODE;                  107
63                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   108
64                    PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||           109
                                   VSIO_VSAM_FEEDBACK_CODE;                  110
65                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   111
66                    PRINT_AREA = ' ';                                      112
                                                                             113
67                    RETURN;                                                114
                                                                             115
68                 END VSIO_ERROR;                                           116
                                                                             117
69                 DECLARE                                                   118
                      PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL          119
                         ENV(F CTLASA);                                      120
                                                                             121
70                 DECLARE                                                   122
                      COUNTER_EDIT                  PICTURE 'ZZ,ZZZ,ZZ9V',   123
                      MORE_RECORDS                  BIT(1),                  124
                      NO                            BIT(1)    INIT('0'B),    125
                      RECORD_COUNTER                FIXED BINARY(15,0),      126
                      YES                           BIT(1)    INIT('1'B);    127
                                                                             128
71                 DECLARE                                                   129
                      1 RECORD_IMAGE,                                        130
                         2 RECORD_FIELDS            CHAR(80);                131
                                                                             132
72                 DECLARE                                                   133
```

```
                  1 PRINT_LINE,                                                  134
                     2 CARRIAGE_CONTROL          CHAR(1)   INIT(' '),          135
                     2 PRINT_AREA                CHAR(120);                    136
                                                                               137
               /*************************************************************  142
                                                                               142
                     VV   VV    SSSSS       A      M     M    IIII      OOOOO   142
                     VV   VV   SS   SS     AAA     MM   MM     II      OO   OO  142
                     VV   VV   SS         AA AA    MMM MMM     II      OO   OO  142
                     VV   VV    SSSSS    AA   AA   MMMMMMM     II      OO   OO  142
                     VV   VV        SS   AA   AA   MM M MM     II      OO   OO  142
                      VV VV    SS   SS   AAAAAAA   MM   MM     II      OO   OO  142
                       VVV     SS   SS   AA   AA   MM   MM     II      OO   OO  142
                        V       SSSSS    AA   AA   MM   MM    IIII      OOOOO   142
                                                                               142
                *************************************************************  142
                 THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS  142
                 ROUTINE.                                                      142
                                                                               142
                 THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO 142
                 PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND  142
                 TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.                     142
                *************************************************************/  142
                                                                               160
73                    DECLARE                                                  162
                         1 VSIO_PARAMETER_VALUES   STATIC,                     163
                            2 VSIO_OPEN            CHAR(8)   INIT('OPEN    '),  164
                            2 VSIO_CLOSE           CHAR(8)   INIT('CLOSE   '),  165
                            2 VSIO_READ            CHAR(8)   INIT('READ    '),  166
                            2 VSIO_WRITE           CHAR(8)   INIT('WRITE   '),  167
                            2 VSIO_REWRITE         CHAR(8)   INIT('REWRITE '),  168
                            2 VSIO_DELETE          CHAR(8)   INIT('DELETE  '),  169
                            2 VSIO_START_EQUAL     CHAR(8)   INIT('STARTEQ '),  170
                            2 VSIO_START_NOTLESS   CHAR(8)   INIT('STARTGE '),  171
                            2 VSIO_KSDS            CHAR(4)   INIT('KSDS'),      172
                            2 VSIO_ESDS            CHAR(4)   INIT('ESDS'),      173
                            2 VSIO_RRDS            CHAR(4)   INIT('RRDS'),      174
                            2 VSIO_SEQUENTIAL      CHAR(10)  INIT('SEQUENTIAL'),175
                            2 VSIO_DIRECT          CHAR(10)  INIT('DIRECT    '),176
                            2 VSIO_DYNAMIC         CHAR(10)  INIT('DYNAMIC   '),177
                            2 VSIO_INPUT           CHAR(6)   INIT('INPUT '),    178
                            2 VSIO_OUTPUT          CHAR(6)   INIT('OUTPUT'),    179
                            2 VSIO_INPUT_OUTPUT    CHAR(6)   INIT('UPDATE'),    180
                            2 (VSIO_RC_SUCCESS                INIT(0),          181
                               VSIO_RC_LOGIC_ERROR            INIT(8),          182
                               VSIO_RC_END_OF_FILE            INIT(9999),       183
                               VSIO_RC_UNKNOWN_COMMAND        INIT(20),         184
```

```
                          VSIO_RC_DATASET_ALREADY_OPEN  INIT(21),                185
                          VSIO_RC_DATASET_NOT_OPEN      INIT(22),                186
                          VSIO_RC_ORGANIZATION_UNKNOWN  INIT(23),                187
                          VSIO_RC_ACCESS_UNKNOWN        INIT(24),                188
                          VSIO_RC_ORG_ACCESS_MISMATCH   INIT(25),                189
                          VSIO_RC_MODE_UNKNOWN          INIT(26),                190
                          VSIO_RC_MODE_UNSUPPORTED      INIT(27),                191
                          VSIO_RC_DDNAME_BLANK          INIT(28))                192
                                                FIXED BINARY(15,0),              193
                       2 (VSIO_FB_DUPLICATE_RECORD      INIT(8),                 194
                          VSIO_FB_KEY_SEQUENCE          INIT(12),                195
                          VSIO_FB_RECORD_NOT_FOUND      INIT(16),                196
                          VSIO_FB_NO_MORE_SPACE         INIT(28),                197
                          VSIO_FB_READ_WITHOUT_START    INIT(88))                198
                                                FIXED BINARY(15,0),              199
                    /*****************************************************************  200
                      THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE    200
                      THE ROUTINE.                                                      200
                     *****************************************************************/  200
                                                                                        203
                     1 VSIO_PARAMETER_BLOCK    STATIC,                              205
                        2 VSIO_COMMAND         CHAR(8)   INIT(' '),                 206
                        2 (VSIO_RETURN_CODE,                                        207
                          VSIO_VSAM_RC,                                             208
                          VSIO_VSAM_FUNCTION,                                       209
                          VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0);           210
                                                                                    211
                    /*****************************************************************  212
                                        END OF VSAMIO COPY BOOK                         212
                     *****************************************************************/  212
                    /*****************************************************************  215
                                                                                        215
                       VV   VV   SSSSS      A     M     M  IIII   OOOOO   FFFFFFF  BBBBBB    215
                       VV   VV  SS   SS    AAA    MM   MM   II   OO   OO  FF       BB   BB   215
                       VV   VV  SS        AA AA   MMM MMM   II   OO   OO  FF       BB   BB   215
                       VV   VV   SSSSS   AA   AA  MMMMMMM   II   OO   OO  FFFFF    BBBBBB    215
                       VV   VV       SS  AA   AA  MM M MM   II   OO   OO  FF       BB   BB   215
                        VV VV    SS   SS  AAAAAAA  MM   MM   II   OO   OO  FF       BB   BB   215
                         VVV     SS   SS  AA   AA  MM   MM   II   OO   OO  FF       BB   BB   215
                          V       SSSSS   AA   AA  MM   MM  IIII   OOOOO   FF       BBBBBB    215
                                                                                        215
                    *****************************************************************  215
                       THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS   215
                       ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE     215
                       VSAM DATASET.                                                        215
                                                                                            215
                       WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE       215
```

```
                  LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD    215
                  DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE    215
                  ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE    215
                  DATASET HAS BEEN CLOSED.                                              215
                ***************************************************************/      215
                                                                                        236
74                 DECLARE                                                              238
                      1 VSIO_FILE_BLOCK            STATIC,                             239
                         2 VSFB_DDNAME             CHAR(8)   INIT(' '),                240
                         2 VSFB_ORGANIZATION       CHAR(4)   INIT(' '),                241
                         2 VSFB_ACCESS             CHAR(10)  INIT(' '),                242
                         2 VSFB_MODE               CHAR(6)   INIT(' '),                243
                         2 (VSFB_RECORD_LENGTH,                                        244
                            VSFB_KEY_POSITION,                                         245
                            VSFB_KEY_LENGTH)       FIXED BINARY(15,0) INIT(0),         246
                         2 VSFB_FILE_STATUS        CHAR(1)   INIT('C'),                247
                         2 VSFB_RESERVED           CHAR(161);                          248
                                                                                       249
                /*************************************************************        250
                                    END OF VSAMIOFB COPY BOOK                          250
                 *************************************************************/       250
                                                                                       140
75                 END ESDSREA;                                                        141
```

ATTRIBUTE AND CROSS-REFERENCE TABLE

DCL NO.		IDENTIFIER	ATTRIBUTES AND REFERENCES
72		CARRIAGE_CONTROL	IN PRINT_LINE,AUTOMATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER
70		COUNTER_EDIT	AUTOMATIC,UNALIGNED,DECIMAL,PICTURE(ZZ,ZZZ,ZZ9V) 35,36
1		ESDSREA	ENTRY,DECIMAL,FLOAT(SINGLE)
70		MORE_RECORDS	AUTOMATIC,UNALIGNED,STRING(1),BIT 16,31,33,50
70		NO	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT 50
72		PRINT_AREA	IN PRINT_LINE,AUTOMATIC,UNALIGNED,STRING(120),CHARACTER 10,12,14,36,56,58,60,62,64,66
72		PRINT_LINE	AUTOMATIC,STRUCTURE 11,13,15,37,57,59,61,63,65
69		PRINTR	FILE,EXTERNAL,OUTPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F CTLASA) 9,11,13,15,37,57,59,61,63,65
45		READ_ES	ENTRY,DECIMAL,FLOAT(SINGLE) 32
70	*********	RECORD_COUNTER	AUTOMATIC,ALIGNED,BINARY,FIXED(15,0) 35,52,52
71		RECORD_FIELDS	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(80),CHARACTER 36
71		RECORD_IMAGE	AUTOMATIC,STRUCTURE 25,41,47
		SYSPRINT	FILE,EXTERNAL 5,6,7
		VSAMIOP	EXTERNAL,ENTRY,DECIMAL,FLOAT(SINGLE) 25,41,47
74		VSFB_ACCESS	IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(10),CHARACTER

```
DCL NO.          IDENTIFIER                          ATTRIBUTES AND REFERENCES

                                                     19

74               VSFB_DDNAME                         IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(8),CHARACTER
                                                     17

74               VSFB_FILE_STATUS                    IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER

74     *********** VSFB_KEY_LENGTH                    IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     23

74     *********** VSFB_KEY_POSITION                  IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     22

74               VSFB_MODE                           IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(6),CHARACTER
                                                     20

74               VSFB_ORGANIZATION                   IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(4),CHARACTER
                                                     18

74     *********** VSFB_RECORD_LENGTH                 IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     21

74               VSFB_RESERVED                       IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,STRING(161),CHARACTER

73               VSIO_CLOSE                          IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER
                                                     40

73               VSIO_COMMAND                        IN VSIO_PARAMETER_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER
                                                     24,40,46,56

73               VSIO_DELETE                         IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER

73               VSIO_DIRECT                         IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10),
                                                     CHARACTER

73               VSIO_DYNAMIC                        IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10),
                                                     CHARACTER

55               VSIO_ERROR                          ENTRY,DECIMAL,FLOAT(SINGLE)
                                                     28,43,51

73               VSIO_ESDS                           IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4),
```

DCL NO.		IDENTIFIER	ATTRIBUTES AND REFERENCES
			CHARACTER 18
73	*********	VSIO_FB_DUPLICATE_RECORD	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73	*********	VSIO_FB_KEY_SEQUENCE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73	*********	VSIO_FB_NO_MORE_SPACE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73	*********	VSIO_FB_READ_WITHOUT_START	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73	*********	VSIO_FB_RECORD_NOT_FOUND	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
74		VSIO_FILE_BLOCK	STATIC,STRUCTURE 25,41,47
73		VSIO_INPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER 20
73		VSIO_INPUT_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
73		VSIO_KSDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
73		VSIO_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 24
73		VSIO_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
73		VSIO_PARAMETER_BLOCK	STATIC,STRUCTURE 25,41,47
73		VSIO_PARAMETER_VALUES	STATIC,STRUCTURE
73	*********	VSIO_RC_ACCESS_UNKNOWN	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
73 *********	VSIO_RC_DATASET_ALREADY_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_DATASET_NOT_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_DDNAME_BLANK	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_END_OF_FILE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0) 49
73 *********	VSIO_RC_LOGIC_ERROR	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_MODE_UNKNOWN	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_MODE_UNSUPPORTED	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_ORG_ACCESS_MISMATCH	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_ORGANIZATION_UNKNOWN	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73 *********	VSIO_RC_SUCCESS	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0) 26,42,48
73 *********	VSIO_RC_UNKNOWN_COMMAND	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
73	VSIO_READ	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 46
73 *********	VSIO_RETURN_CODE	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0) 26,42,48,49,58
73	VSIO_REWRITE	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),

```
DCL NO.          IDENTIFIER                        ATTRIBUTES AND REFERENCES

                                                   CHARACTER

73               VSIO_RRDS                         IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4),
                                                   CHARACTER

73               VSIO_SEQUENTIAL                   IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10),
                                                   CHARACTER
                                                   19

73               VSIO_START_EQUAL                  IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                   CHARACTER

73               VSIO_START_NOTLESS                IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                   CHARACTER

73    ********** VSIO_VSAM_FEEDBACK                IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED
                                                   (15,0)

                 VSIO_VSAM_FEEDBACK_CODE           AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE)
                                                   64

73    ********** VSIO_VSAM_FUNCTION                IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED
                                                   (15,0)

                 VSIO_VSAM_FUNCTION_CODE           AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE)
                                                   62

73    ********** VSIO_VSAM_RC                      IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED
                                                   (15,0)

                 VSIO_VSAM_RETURN_CODE             AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE)
                                                   60

73               VSIO_WRITE                        IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                   CHARACTER

70               YES                               AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT
                                                   16
```

AGGREGATE LENGTH TABLE

STATEMENT NO.	IDENTIFIER	LENGTH IN BYTES
72	PRINT_LINE	121
71	RECORD_IMAGE	80
74	VSIO_FILE_BLOCK	196
73	VSIO_PARAMETER_BLOCK	16
73	VSIO_PARAMETER_VALUES	158

STORAGE REQUIREMENTS.

THE STORAGE AREA FOR THE PROCEDURE LABELLED ESDSREA IS 552 BYTES LONG.

THE STORAGE AREA FOR THE ON UNIT AT STATEMENT NO. 3 IS 184 BYTES LONG.

THE STORAGE AREA (IN STATIC) FOR THE PROCEDURE LABELLED READ_ES IS 176 BYTES LONG.

THE STORAGE AREA (IN STATIC) FOR THE PROCEDURE LABELLED VSIO_ERROR IS 256 BYTES LONG.

THE PROGRAM CSECT IS NAMED ESDSREA AND IS 1542 BYTES LONG.

THE STATIC CSECT IS NAMED ESDSREAA AND IS 5376 BYTES LONG.

STATISTICS MACRO RECORDS = 252,SOURCE RECORDS = 254,PROG TEXT STMNTS = 75,OBJECT BYTES = 1542

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN ON UNIT

OFFSET (HEX)	0000	0050	005C	007A	0094	00B2
STATEMENT NO	3	4	5	6	7	8

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE READ_ES

OFFSET (HEX)	0000	0034	003A	005A	0066	0072	0080	008E	009E	00A4
STATEMENT NO	45	46	47	48	49	50	51	52	53	54

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE VSIO_ERROR

OFFSET (HEX)	0000	0038	0052	006A	00B6	00CE	0104	011C	014E	0166	0198	01B0	01BC	01C2
STATEMENT NO	55	56	57	58	59	60	61	62	63	64	65	66	67	68

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE ESDSREA

OFFSET (HEX)	0000	00B4	00C2	00CC	00D8	00F0	00FC	0114	0120	0138	013E	0144	014A	0150	0156	015C	0162	0168	016E	018A	0196
STATEMENT NO	1	2	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

OFFSET (HEX)	0196	01A0	01A6	01A6	01AE	01B8	01C0	01C0	01DA	01FC	0214	0214	0218	021E	023A	0246	0250	0256
STATEMENT NO	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	75

COMPILER DIAGNOSTICS.

WARNINGS.

IEM0227I NO FILE/STRING OPTION SPECIFIED IN ONE OR MORE GET/PUT STATEMENTS. SYSIN/SYSPRINT HAS BEEN ASSUMED IN EACH CASE.

IEM0764I ONE OR MORE FIXED BINARY ITEMS OF PRECISION 15 OR LESS HAVE BEEN GIVEN HALFWORD STORAGE. THEY ARE FLAGGED '*********' IN THE XREF/ATR LIST.

IEM1790I DATA CONVERSIONS WILL BE DONE BY SUBROUTINE CALL IN THE FOLLOWING STATEMENTS 60, 62, 64.

END OF DIAGNOSTICS.

AUXILIARY STORAGE WILL NOT BE USED FOR DICTIONARY WHEN SIZE = 138K

COMPILE TIME .00 MINS

ELAPSED TIME .00 MINS

```
 F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED   NONE
          DEFAULT OPTION(S) USED -  SIZE=(231424,55296)
****GO        DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS         0.
```

```
ESDSREAD: READ ESDS SEQUENTIALLY
--------------------------------

         1: 0045557001 LISA L FONTAINE      714 SUNSET PLACE          SAN ANTONIO     TX
         2: 0130758002 VIRGINIA O RENFRO    2111 BRIDGE AVENUE        BRIDGEPORT      CT
         3: 0243081003 JILL W SCHWAB        5641 WASHINGTON STREET    WEST PALM BEACH FL
         4: 0366881004 LUCY J CHILDRESS     2777 GUADLAUPE BLVD       ROSWELL         GA
         5: 0517579005 DEBRA K RODGERS      1048 WINDHAM COURT        GREENVILLE      SC
         6: 0561094006 TAMMY L SCHAEFER     3911 KINGS RIDGE STREET   EUGENE          OR
         7: 0593878007 LOUIS W HORTON       9722 EASTHAVEN STREET     DES PLAINES     IL
         8: 0725148008 BRIAN A HODGES       4292 BONANZA STREET       ENGLEWOOD       CO
         9: 0930005009 RUSSELL B HASTINGS   226 WINDTREE STREET       ALBANY          NY
        10: 0994201010 ADOLF S CARLISLE     936 LAKEFRONT AVENUE      ROANOAK         VA
        11: 1033846021 CHERYL I TUCKER      660 SHORE ROAD            LOUISVILLE      KY
        12: 1098019022 HANNAH F QUIMBY      6151 MAIN COURT           PHOENIX         AZ
        13: 1168050023 TAMMY J FRANKLIN     5226 ROSA LINDA ROAD      LOUISVILLE      KY
        14: 1371074024 TAMMY M HARMON       243 KINGS RIDGE STREET    GREENVILLE      SC
        15: 1442146025 LUCY H ERICKSON      6207 RIDGEWAY AVENUE      KANSAS CITY     MO
        16: 1511914026 SAMANTHA J TEMPLETON 1534 SUN MEADOW AVENUE    FORT LAUDERDALE FL
        17: 1765093027 DANIEL I GOODWIN     1660 BRIGHT AVENUE        DALLAS          TX
        18: 1766129028 JOYCE R NORTON       907 BRANDYWINE CIRCLE     SAN ANTONIO     TX
        19: 1778910029 JUDITH H JEFFERSON   766 KNICKERBOCKER PLACE   SIOUX FALLS     SD
        20: 1907611030 KEITH E NEWTON       143 BUCKLEY AVENUE        BALDWIN         MO
        21: 2119032041 RUTH E GASTON        8754 GARDEN PLACE         FORT LAUDERDALE FL
        22: 2121744042 TROY J NORRIS        716 HILLSIDE ROAD         DENTON          TX
        23: 2174003043 SHIRLEY V MATTOX     1260 SHORE AVENUE         FALLS VILLAGE   CT
        24: 2229822044 LUCY T HAMMOND       587 CARBONDALE COURT      SALINA          KS
        25: 2231748045 SCOTT F HABERMANN    336 BALBOA AVENUE         LAGO VISTA      TX
        26: 2324761046 EVERETT L HAMMOND    5912 BISHOP AVENUE        KEARNEY         NE
        27: 2363024047 REBECCA A GERBLICK   1617 PARKER AVENUE        SALINA          KS
        28: 2483871048 SAMANTHA T MOORE     3586 STRAWBERRY COURT     PONCA CITY      OK
        29: 2522284049 WANDA J TUCKER       7807 WINDTREE ROAD        SAN ANTONIO     TX
        30: 2597002050 HELEN H FONTAINE     852 WESTRIDGE AVENUE      FORT LAUDERDALE FL
        31: 2806628061 ANDREW T MORENO      8900 WASHINGTON STREET    PROVIDENCE      RI
        32: 2822279062 BEVERLY F WINSTON    5585 CHARLESTON ROAD      BOSTON          MA
        33: 2845743063 ZELDA W RANDALL      639 SOUTHLAND ROAD        FOREST HEIGHTS  MD
        34: 2858277064 CLARA F BRYANT       529 BARNABY STREET        LOUISVILLE      KY
        35: 3071401065 MICHELLE A ROSS      188 EASTHAVEN AVENUE      BUFFALO         NY
        36: 3129003066 BILL W BECK          1798 SEABREEZE AVENUE     BOSTON          MA
        37: 3284189067 RITA N RENFRO        7881 DAISY COURT          SIOUX FALLS     SD
        38: 3489628068 ARNOLD R ELISON      465 MAIN AVENUE           TULSA           OK
        39: 3775212069 HANNAH J GLOVER      3791 SEABREEZE STREET     NASHAU          NH
        40: 3786163070 REBECCA D DOREN      8730 STRAWBERRY ROAD      SPRING          TX
        41: 3851331081 CLIFF J DRAKE        169 SHORE AVENUE          CHICAGO         IL
        42: 3912384082 CRAIG O LABROIE      8021 MILL MOUNTAIN PLACE  MURFREESBORO    TN
        43: 4077702083 ROLAND P RODGERS     827 MEADOW STREET         TULSA           OK
        44: 4093285084 JACK J SCHWAB        250 BUCKLEY PLACE         CHICAGO         IL
        45: 4176588085 BRENDA O MCKAY       315 A & M PLACE           LA HABRA        CA
        46: 4197550086 TROY S POWERS        1707 BRIDGE STREET        ENGLEWOOD       CO
        47: 4318291087 SAMANTHA M HALL      8063 EDMUND AVENUE        SAN ANTONIO     TX
        48: 4461486088 SAMANTHA E MORENO    5196 BAYVIEW PLACE        BRIDGEPORT      CT
        49: 4514067089 JIM B RIGHT          568 GREEN VALLEY AVENUE   HOUSTON         TX
        50: 4588719090 SHIRLEY D JOHNSON    716 COBBS ROAD            TULSA           OK
        51: 4776111101 JOSEPH P HAMMOND     6532 BRANDYWINE STREET    PASADENA        CA
        52: 4813060102 REBECCA S NORTON     1175 ELLIS COURT          LOUISVILLE      KY
        53: 4862587103 JILL M BENSON        170 SIERRA VISTA ROAD     HELENA          MT
        54: 4893602104 LAURIE R RAMSEY      902 PECAN VALLEY STREET   PONCA CITY      OK
        55: 4934781105 CHERYL H HABERMANN   930 CLIFTWOOD AVENUE      BUFFALO         NY
        56: 5105151106 SHIRLEY P TYLER      5262 BRIDGE CIRCLE        FORT COLLINS    CO
        57: 5220743107 CHRISTOPHER F MORGAN 9624 BONANZA AVENUE       DOWNEY          CA
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58:	5239514108	NATHAN O SCHAEFER	7644 INDUSTRIAL ROAD	EUGENE	OR
59:	5462366109	DIANE P JENNINGS	2454 ROSA LINDA ROAD	KNOXVILLE	TN
60:	5470384110	JILL F ROSS	949 ROSEWOOD STREET	BALDWIN	MO
61:	5582803121	ANGELA J ERWIN	2709 BIENVILLE STREET	NEWPORT BEACH	CA
62:	5618369122	PETER F ALEXANDER	5500 KNICKERBOCKER AVENUE	BINGHAMTON	NY
63:	5731895123	BETTY H BOWERS	3787 WINDWOOD PLACE	SALT LAKE CITY	UT
64:	5764671124	PETER L SCHAEFER	358 ATOLL STREET	PASADENA	CA
65:	5867208125	JOYCE K JENNINGS	1580 ROSA LINDA COURT	TUCSON	AZ
66:	5877149126	ROBERT P GLOVER	6394 PARSON ROAD	NORWALK	CT
67:	5922222127	RUTH N ALEXANDER	259 SEASIDE ROAD	ANNAPOLIS	MD
68:	6007109128	JARED D HILLFORD	879 MICHIGAN AVENUE	PONCA CITY	OK
69:	6131803129	HELEN R DRAKE	263 BENSON STREET	DENVER	CO
70:	6212865130	JOYCE C EUBANKS	516 WESTRIDGE BLVD	WEST BRADENTON	FL
71:	6288450141	DEBRA B JACKSON	7426 PARSON ROAD	MINNEAPOLIS	MN
72:	6315453142	BILL M TEASDALE	608 LINCOLN ROAD	FORT WORTH	TX
73:	6426347143	PATTY C ELISON	5454 LINCOLN AVENUE	DETROIT	MI
74:	6532928144	HANNAH O NEWBURY	3634 SIERRA VISTA STREET	BOSTON	MA
75:	6552938145	BETTY V POWERS	454 JUNIPER AVENUE	ANN ARBOR	MI
76:	6565164146	JACK H EUBANKS	3699 SOUTHLAND PLACE	FREMONT	CA
77:	6613600147	TAMMY O EUBANKS	5230 DAISY AVENUE	KEARNEY	NE
78:	6660837148	BRIAN T PARRISH	751 PECAN VALLEY COURT	ANN ARBOR	MI
79:	6740697149	LARRY O MORENO	6565 JACKSON STREET	EUGENE	OR
80:	6865914150	DEBRA F BOWERS	8793 GARDEN AVENUE	DES PLAINES	IL
81:	6890599161	LARRY G PARKER	827 MEADOW STREET	SAN DIEGO	CA
82:	6911300162	JANET H HAMMOND	5064 GRANT STREET	DES PLAINES	IL
83:	7110260163	BEVERLY K WEAVER	829 HORSESHOE CIRCLE	LA JOLLA	CA
84:	7170298164	KEVIN L FONTAINE	3527 APPLE VALLEY STREET	MISSOULA	MT
85:	7255026165	JERRY S BOWERS	395 ALTAVISTA COURT	SAN DIEGO	CA
86:	7792268166	JOAN C GLOVER	6152 CUMBERLAND AVENUE	NEW YORK	NY
87:	8198053167	RONALD A EUBANKS	378 SHORE STREET	ANCHORAGE	AK
88:	8214332168	ROY P MATTOX	154 SUNSET COURT	WEST PALM BEACH	FL
89:	8216798169	ROY F NORRIS	3212 ALTAVISTA BLVD	BOSTON	MA
90:	8309814170	EVERETT A ERWIN	926 BALBOA STREET	OKLAHOMA CITY	OK
91:	8491480181	JOYCE S HODGES	682 PARKER PLACE	CLEVELAND	OH
92:	8544794182	NATHAN R JOHNSON	1034 TWILIGHT ROAD	COVINGTON	LA
93:	8675854183	ANDREW B WINSTON	2458 ELLIS ROAD	SPRING	TX
94:	8763434184	CRAIG I GOODLOW	1667 WASHINGTON ROAD	MONTGOMERY	AL
95:	8969094185	ERNIE N DUNBAR	2830 NORTHFIELD STREET	LOUISVILLE	KY
96:	9235874186	TED R BOWERS	532 PECAN VALLEY STREET	PRESCOTT	AZ
97:	9266973187	ANDREW K CONLEY	689 WINDTREE BLVD	ATLANTA	GA
98:	9445325188	ARNOLD F RAMSEY	8629 LINCOLN CIRCLE	MONTGOMERY	AL
99:	9604395189	JANET M BARBER	1605 GARRETT STREET	LA JOLLA	CA
100:	9962289190	PETER R STUART	870 BALBOA COURT	PHILADELPHIA	PA